

October 12, 2016

Nancy Henner
Hannibal CSD
928 Cayuga St.
Hannibal, NY 13074

RE: Project: Han CSD - Field House
Pace Project No.: 10365108

Dear Nancy Henner:

Enclosed are the analytical results for sample(s) received by the laboratory on October 06, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Samples, in the electronic data deliverable (EDD) that accompanied this report, were flagged yellow if they exceeded the EPA's 15 ppb limit.

The space designated for the sampler on the chain of custody (COC) indicates if these samples were collected by Pace Analytical or were collected by the school district and just relinquished to Pace Analytical.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Amanda Albrecht
amanda.albrecht@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: Han CSD - Field House

Pace Project No.: 10365108

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

Alaska Certification UST-107

525 N 8th Street, Salina, KS 67401

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: Han CSD - Field House

Pace Project No.: 10365108

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10365108001	Storage Side Sink	Water	09/26/16 00:21	10/06/16 10:15
10365108002	Mens Room Sink	Water	09/26/16 00:26	10/06/16 10:15
10365108003	Ladies Room Sink	Water	09/26/16 00:27	10/06/16 10:15
10365108004	Outside Spigot	Water	09/26/16 00:29	10/06/16 10:15

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SAMPLE ANALYTE COUNT

Project: Han CSD - Field House

Pace Project No.: 10365108

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10365108001	Storage Side Sink	EPA 200.8	TT3	1	PASI-M
10365108002	Mens Room Sink	EPA 200.8	TT3	1	PASI-M
10365108003	Ladies Room Sink	EPA 200.8	TT3	1	PASI-M
10365108004	Outside Spigot	EPA 200.8	TT3	1	PASI-M

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ANALYTICAL RESULTS

Project: Han CSD - Field House

Pace Project No.: 10365108

Sample: Storage Side Sink		Lab ID: 10365108001	Collected: 09/26/16 00:21	Received: 10/06/16 10:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8						
Lead	17.6	ug/L	0.10	1		10/12/16 00:31	7439-92-1	
Sample: Mens Room Sink		Lab ID: 10365108002	Collected: 09/26/16 00:26	Received: 10/06/16 10:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8						
Lead	3.5	ug/L	0.10	1		10/12/16 00:33	7439-92-1	
Sample: Ladies Room Sink		Lab ID: 10365108003	Collected: 09/26/16 00:27	Received: 10/06/16 10:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8						
Lead	2.5	ug/L	0.10	1		10/12/16 00:35	7439-92-1	
Sample: Outside Spigot		Lab ID: 10365108004	Collected: 09/26/16 00:29	Received: 10/06/16 10:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8						
Lead	10.3	ug/L	0.10	1		10/12/16 00:36	7439-92-1	

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QUALITY CONTROL DATA

Project: Han CSD - Field House
Pace Project No.: 10365108

QC Batch: 439863 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, Drinking Water
Associated Lab Samples: 10365108001, 10365108002, 10365108003, 10365108004

METHOD BLANK: 2391433 Matrix: Water
Associated Lab Samples: 10365108001, 10365108002, 10365108003, 10365108004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	0.10	10/12/16 00:20	

LABORATORY CONTROL SAMPLE: 2391434

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	100	99.7	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2396234 2396235

Parameter	Units	10365109041 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	1.5	100	100	96.1	96.2	95	95	70-130	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Han CSD - Field House

Pace Project No.: 10365108

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Han CSD - Field House

Pace Project No.: 10365108

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10365108001	Storage Side Sink	EPA 200.8	439863		
10365108002	Mens Room Sink	EPA 200.8	439863		
10365108003	Ladies Room Sink	EPA 200.8	439863		
10365108004	Outside Spigot	EPA 200.8	439863		

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10365108

Section A
 Required Client Information:
 Company: Hannibal CSD
 Address: 928 Cayuga St
 Hannibal, NY 13074
 Email To: nthenner@hannibalcsd.org
 Phone: _____
 Requested Due Date/TAT: _____

Section B
 Required Project Information:
 Report To: _____
 Copy To: _____
 Purchase Order No.: _____
 Project Name: **Field Elementary**
FIELD HOUSE
 Project Manager: _____
 Project Number: _____

Section C
 Invoices Information:
 Attention: _____
 Company Name: _____
 Address: _____
 Pace Quote Reference: _____
 Pace Project Manager: _____
 Pace Profile #: _____

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER _____

SITE
 GA IL IN MI NC
 OH SC WI OTHER_NY _____

LOCATION
 Filtered (Y/N) _____
 Requested _____
 Ane _____
 Requested/Chrome (Y/N) _____
 Pace Project No. Lab ID: _____

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX DRINKING WATER WATER WASTE WATER SOLID OIL WEE OTHER TISSUE	MATRIX CODE	SAMPLE TYPE	G-RAB C-COMP	COLLECTED		# OF CONTAINERS	PRESERVATIVES	Temp in °C	Received on Ice	Custody Sealed	Samples Intact
						COMPOSITE START	COMPOSITE END/GRAB						
1	STORAGE SIDE SINK		DW G			9/26	10:21	1	H2SO4 HNO3 HCl NaOH Na2O2 Methanol Na2SO4	10:15	Y/N	Y/N	Y/N
2	MENS ROOM SINK		DW G			10/16	17:00	1		10:15	Y/N	Y/N	Y/N
3	LADIES ROOM SINK		DW G			10/16	17:00	1		10:15	Y/N	Y/N	Y/N
4	OUTSIDE SIEGOT		DW G			10/16	17:00	1		10:15	Y/N	Y/N	Y/N
5			DW G					1					
6			DW G					1					
7			DW G					1					
8			DW G					1					
9			DW G					1					
10			DW G					1					
11			DW G					1					
12			DW G					1					

ADDITIONAL COMMENTS
 JAMMY PACE 10/16/10 17:00
 PA The Ray

RELINQUISHED BY / AFFILIATION
 JAMMY PACE

ACCEPTED BY / AFFILIATION
 PA The Ray

DATE
 10/16/14

TIME
 10:15

SAMPLER NAME AND SIGNATURE
 James Murphy - PACE Analytical
 SIGNATURE OF SAMPLER: *JAMMY PACE*
 DATE SIGNED (MM/DD/YY): 9/26/14

Sample Condition Upon Receipt

Client Name: NY Schools

Project #: WO#: 10365108



10365108

Courier: Fed Ex UPS USPS Client
 Commercial Pace SpeeDee Other: _____
Tracking Number: SEE EXCEPTION

Custody Seal on Cooler/Box Present? Yes No **Seals Intact?** Yes No **Optional:** Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags None Other: _____ **Temp Blank?** Yes No

Thermometer Used: 151401163 151401164 B88A912167504 B88A0143310098 **Type of Ice:** Wet Blue None Samples on ice, cooling process has begun

Cooler-Temp Read (°C): _____ **Cooler-Temp Corrected (°C):** SEE EXCEPTION **Biological Tissue Frozen?** Yes No N/A
Temp should be above freezing to 6°C **Correction Factor:** +0.2 **Date and Initials of Person Examining Contents:** BM 10/6/16

USDA Regulated Soil (N/A, water sample)
Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? Yes No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	
All containers needing acid/base preservation have been checked? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sample # <u>1/1</u> <u>01-04</u>
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____	

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____ **Date:** 10/07/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).



SCUR Exceptions: Tracking Temp °C Workorder #:

Issue	Sample ID	Container Type/#
7774 0281 2710	18.2	
11 0214 3092	18.8	
11 11 2643	18.3	
11 11 2702	18.3	
11 11 2253	18.2	
11 11 2231	18.6	
11 11 2530	18.1	

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH Upon Receipt	Date Preservation Adjusted	Time Preservation Adjusted	Amount of Additional Preservative Added	Lot # of Preservative Added	pH After Adjustment	Initials