



September 09, 2021

Jarrett Butchino Hannibal CSD 928 Cayuga St Hannibal, NY 13074

RE: Project: 08214433

Pace Project No.: 70185205

Dear Jarrett Butchino:

Enclosed are the analytical results for sample(s) received by the laboratory on August 25, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Minneapolis

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

Sincerely,

Elizabeth Harrison

Elizabeth Harrison betty.harrison@pacelabs.com (631)694-3040 Project Manager

Enclosures

cc: Nancy Henner, Hannibal CSD







CERTIFICATIONS

Project: 08214433
Pace Project No.: 70185205

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

A2LA Certification #: 2926.01*

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air

Lab

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009*

Alaska DW Certification #: MN00064 Arizona Certification #: AZ0014* Arkansas DW Certification #: MN00064 Arkansas WW Certification #: 88-0680 California Certification #: 2929 Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW

Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: Al-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909

Minnesota Certification #: 027-053-137*

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240* Mississippi Certification #: MN00064 Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*

Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*

West Virginia DW Certification #: 9952 C Wisconsin Certification #: 999407970

West Virginia DEP Certification #: 382

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

*Please Note: Applicable air certifications are denoted with

an asterisk (*).

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SAMPLE ANALYTE COUNT

Project: 08214433
Pace Project No.: 70185205

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70185205001	HMS 31	EPA 200.8	PW1	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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ANALYTICAL RESULTS

Project: 08214433
Pace Project No.: 70185205

Date: 09/09/2021 05:45 PM

Sample: HMS 31	Lab ID: 701	85205001	Collected: 08/20/2	21 10:58	Received: 08	8/25/21 10:45	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 20 Pace Analytical Services -								
Lead	92.6	ug/L	0.10	1		09/07/21 20:2	1 7439-92-1	



Lead

Date: 09/09/2021 05:45 PM

QUALITY CONTROL DATA

Project: 08214433 Pace Project No.: 70185205 QC Batch: 768430 Analysis Method: EPA 200.8 QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, Drinking Water Laboratory: Pace Analytical Services - Minneapolis Associated Lab Samples: 70185205001 METHOD BLANK: Matrix: Water Associated Lab Samples: 70185205001 Blank Reporting Parameter Units Result Limit Analyzed Qualifiers Lead < 0.10 0.10 09/07/21 20:07 ug/L LABORATORY CONTROL SAMPLE: 4095831 Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units Lead 100 106 106 85-115 ug/L MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4095833 4095834 MSD MS 70184469001 Spike Spike MS MSD MS MSD % Rec Parameter Units % Rec Limits **RPD** Qual Result Conc. Conc. Result Result % Rec 0.48 100 5 Lead ug/L 100 118 112 118 111 70-130 MATRIX SPIKE SAMPLE: 4095835 70185206007 % Rec MS MS Spike Parameter Units Result Conc. Result % Rec Limits Qualifiers

274

100

ug/L

371

97

70-130

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.



QUALIFIERS

Project: 08214433
Pace Project No.: 70185205

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.

TNTC - Too Numerous To Count

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 08214433
Pace Project No.: 70185205

Date: 09/09/2021 05:45 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70185205001	HMS 31	EPA 200.8	768430		

ntacl こととと Samples (N/A) SAMPLE CONDITIONS Cooler ŏ 2 sealed Custody Regulatory Agency State / Location (N/A) 90 2 Received on ķ 73.4 Residual Chlorine (Y/N) Page: TEMP in C **nt** sted accurately. 10.46 8.44 0800 TIME Requested Analysis Filtered (Y/N) V/astall DATE Signed: 8/23 DATE WO#: 70185205 300 ACCEPTED BY / AFFILIATION op by EPA 200.8 Analyses Test N/A Other Methanol Na2S2O3 Preservatives **Chris Putzer** ИаОН Pace Quote: Pace Project Manager: HCI Company Name: In EONH Pace Profile #: H2SO4 (950 TIME 3 Address: Unpreserved SAMPLER NAME AND SIGNATURE OF CONTAINERS PRINT Name of SAMPLER: SIGNATURE of SAMPLER: 8/22 SAMPLE TEMP AT COLLECTION CHAIN-OF The Chain-of-Ci 8.व्य DATE TIME END DATE COLLECTED RELINQUISHED BY / AFFILIATION TIME 82018 0×21413 STAHT DATE Required Project Information: SAMPLE TYPE (G=GRAB C=COMP) DW G DW G D W G DWG DW G DW G DW G DW G DW G DW G G いっこ urchase Order #: MATRIX CODE (see valid codes to left) DW Project Name: Section B Copy To: CODE DWW WWY SL OL WP AR OT Project #: MATRIX
Drinking Water
Water
Waster
Waste Water
Product
SolySolid
Oil
Wipe
Air
Other
Tissue ADDITIONAL COMMENTS One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique Fax: SAMPLE ID Required Client Information: Email: www.pace.com つめいいか C/O PACE とろく Requested Due Date: Page 8 of 9 Address:

M3TI

	Sa	mple C	Conditio	n Upon	Receint	JO# : 70	195205
Face Analytical *	Oli - + N		\$13		Project	NOTT ! U	100200
accAnalytical	Client Na				r roject P	M: EMH	Due Date: 09/09/21
	Comm	+MS	ooo FlOthe	nr	C	LIENT: HAN	•
Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client	Commi	ercial EP	ace Doug	51			
Tracking #: 7746 A*Custody Seal on Cooler/Box Present: \(\sigma\)Ye	89 No.	1720	act. 🗆 Ve	att No	-	Temperature Blank	Present: YesV No
Custody Seal on Cooler/Box Present: Tyee Packing Material: Bubble Wrap Bubble	S NU	Zinlac (None 🗀 Nt	her		Type of Ice: Wet	
Packing Material: Bubble Wrap Bouble	Correcti	on Factor:	**************************************	0			ing process has begun
Thermometer Used: TH091			re Correct				its placed in freeze <u>r</u>
Cooler Temperature(°C):	COOLEL	emperata	16 0011001				A 5074 A 557
Temp should be above freezing to 6.0° C USDA Regulated Soil (\square N/A, water sample)			Date and	Initials of pers	son examining cont	tents: 5 V 8/25/21
Did samples originate in a quarantine zone wi	thin the U	Inited State	s: AL, AR, CA		A MS NC	Did samples orionati	e from a foreign source
THE THE OWNER OF THE THE TANK (about mont)?	1 1 V o	e I INn				including Hawaii and	l Puerto Rico)? ☐ Yes\ No
If Yes to either question, fill out a Regulation	ed Soil Ch	necklist [F-	-LI-C-010) a	and include	with SCUR/CC	C paperwork.	
If Yes to either question, in our a regular	2 0011 01	100111101				COMMENTS:	
Chain of Custody Present:	Yes	□No		1.			
Chain of Custody Filled Out:	Yes	□No		2.			
Chain of Custody Relinquished:	□ Yes	□No		3.			
Sampler Name & Signature on COC:	™Yes	□No	□N/A	4.			
Samples Arrived within Hold Time:	™ Yes	□No		5.			
Short Hold Time Analysis (<72hr):	□Yes	₫No		6.			
Rush Turn Around Time Requested:	□Yes	₫No		7.			
Sufficient Volume: (Triple volume provided fo	r ⊡ Yes	□No		8.			
Correct Containers Used:	₩Yes	□No		9.		8	¥6
-Pace Containers Used:	₫yes	□No					
Containers Intact:	□Yes	□No	1	10.		and the state of the state of	dispolared container
Filtered volume received for Dissolved tests	□Yes	□No	□N/A	11.	Note if sedim	ent is visible in the o	JISSOIVED CONTAINET.
Sample Labels match COC:	☑Yes	\square No		12.			
-Includes date/time/ID, Matrix: SL WT	OIL			4.7	C IINO	□H ₂ SO ₄ □NaO	OH □ HCI
All containers needing preservation have been	en 🗆 Yes	□No	□N/A	13.	□ HNO³	□H ₂ SO ₄ □NaO	JII LI 1101
checked? pH paper Lot # H C 1485 94				İ			
	d to bo			Sample #			
All containers needing preservation are foun	າໃ						
in compliance with method recommendation	Yes	□No	□N/A				
(HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide,	100						
NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and	Grease						
DRO/8015 (water).	0100001			Initial wh	en completed:	Lot # of added	Date/Time preservative
Per Method, VOA pH is checked after analysi	is					preservative:	added:
Samples checked for dechlorination:	□Yes	□No	₩/A	14.			
KI starch test strips Lot #							
Residual chlorine strips Lot #			77		Positive for Re	s. Chlorine? Y N	
SM 4500 CN samples checked for sulfide?	□Yes	□No	₫N/A	15.			
Lead Acetate Strips Lot #							
Headspace in VOA Vials (>6mm):	□Yes	□No	ΦN/A	16.			
Trip Blank Present:	□Yes	□No	□N/A	17.			
Trip Blank Custody Seals Present	□Yes	□No	□N/A				
Pace Trip Blank Lot # (if applicable):				PT 115	D 1 10	Υ /	M
Client Notification/Resolution:				Field Dat	a Required?		
Person Contacted:					Date/Time:		
Comments/ Resolution:							

^{*} PM (Project Manager) review is documented electronically in LIMS.