Pace Analytical Services, LLC 1700 Elm Street Minneapolis, MN 55414 (612)607-1700



April 17, 2023

Mat Stang City of Monticello 909 Golf Course Rd Monticello, MN 55362

RE: Project: Tritium EPA 906.0

Pace Project No.: 10646915

Dear Mat Stang:

Enclosed are the analytical results for sample(s) received by the laboratory on March 24, 2023. 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:

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

Sincerely,

Piper Gibbs piper.gibbs@pacelabs.com (612)607-1700

Juper Likles

Project Manager

Enclosures





SAMPLE SUMMARY

Project: Tritium EPA 906.0

Pace Project No.: 10646915

Lab ID	Sample ID	Matrix	Date Collected	Date Received	
10646915001	Well #1	Water	03/23/23 11:55	03/24/23 08:50	
10646915002	Well #2	Water	03/23/23 12:01	03/24/23 08:50	
10646915003	Well #5	Water	03/23/23 12:11	03/24/23 08:50	
10646915004	Well #4	Water	03/23/23 12:20	03/24/23 08:50	

REPORT OF LABORATORY ANALYSIS

CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

ŏ 80 g 003 507 Received on Residual Chlorine (Y/N) Page: TEMP in C 05:810xc1 piper.gibbs@pacelabs.com 0.809 multin X ¥ N/X Ta teeT eeevienA Methanol Preservatives Na2S2O3 ИаОН Pace Project Manager: Pace Profile #: TBD HCI Invoice Information коин Company Name: H2SO4 Pace Quote Section C Attention: Address: Unpreserved SAMPLER NAME AND SIGNATURE # OF CONTAINERS PRINT Name of SAMPLER: SAMPLE TEMP AT COLLECTION 0861 020 1961 130 E る コゼ EŊ. DATE 1452412 6 1/1 1218 NOT COLLECTED 3 203 ×°°2 13/K 15) 153 TIME Tritium EPA 906.0 START 6 4 m 1 67/m 164/21 10 1/2 -642 DATE Required Project Information Report To: Stang, Mat 15 (G=GRAB C=COMP) SAMPLE TYPE Purchase Order #: MATRIX CODE (see valid codes to left) 43 49 Project Name: Section B Copy To: Project #: CODE DW WT WF OL OL OL OT TS MATRIX
Drinking Water
Water
Waste Water
Product
Product
SoulSoild
Oil
Wipe
Air
Other
Tissue MO#: 10646915 One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique SAMPLE ID Email: mat.stang@ci.monticello.mn.us 909 Golf Course Road Monticello, city of (763)271-3274 Well #] Well #2 Required Client Information: well a Del#5 7 130 Sell# 2001 F# 8 Weil#4 Analyzed at Pace National 10646915 Monticello, MN 55362 Requested Due Date Company: Address: 10 # MƏTI

ntact (Y/V) Samples (N/X) Cooler

Sealed

(N/Y)

DATE Signed:

SIGNATURE of SAMPLER:

Pace Container Order #1082478

	e Container Order #10824/	8
Addresses Order By: Company Monticello, city of Contact Stang, Mat Email mat.stang@ci.monticello.mn.us Address 909 Golf Course Road Address 2 City Monticello State MN Zip 55362 Phone (763) 271-3274	Ship To: Company Monticello, city of Contact Stang, Mat Email mat.stang@ci.monticello.mn.us Address 909 Golf Course Road Address 2 City Monticello State MN Zip 55362 Phone (763) 271-3274	Return To: Company Pace Analytical Minnesota Contact Gibbs, Piper Email piper.gibbs@pacelabs.com Address 1700 Elm Street Address 2 Suite 200 City Minneapolis State MN Zip 55414 Phone (612)607-1700
Project Name Tritium EPA 906.0 Project Manager Gibbs, Piper	Due Date 03/22/2023 Profile TBD Return Date Carrier Overnig	Quote Standard ght Location MN
Trip Blanks Include Trip Blanks	Bottle Labels Blank Pre-Printed No Sample IDs Pre-Printed With Sample IDs	Bottles Boxed Cases Individually Wrapped X Grouped By Sample ID/Matrix
Return Shipping Labels No Shipper With Shipper COC Options Number of Blanks X Pre-Printed 1	Misc X Sampling Instructions X Custody Seal X Temp. Blanks X Coolers Syringes	Extra Bubble Wrap X Short Hold/Rush Stickers DI Water Liter(s) USDA Regulated Soils
# of Samples Matrix Test 4 WT Tritlum 906.0	Container Total # of 2-250mL amber glass unpres 8 0	Lot # Notes 082222-1GK
	RETURN W/ SAMPLES	
*Sample receiving hours are Mon-Fri 7:30am-7:00pm a with your project manager. *Pace Analytical reserves the right to return hazardous *Pace Analytical reserves the right to charge for unuse *Payment term are net 30 days. *Please include the proposal number on the chain of control of the same and the same are same and the same are s	and Sat 9:00am-1:00pm unless special arrangements s, toxic, or radioactive samples to you. d bottles, as well as cost associated with sample stor	Prepared By: PC
Sample RUSH Analyzed at Pace National		CLIENT USE (Optional): Date Rec'd: Received By: Verified By:

F-ALL-C-009-rev.00, 19Dec2016

Page 1 of 1

Page 4 of 19

DC#_Title: Excel Form Template

Effective Date:

Sample Condition Client Name: Project #:	WO#: 10646915
Upon Receipt City of Montacello	
Courier: FedEx UPS USPS Client Pace SpeeDee Commercial	CLIENT: MONTICELLO
Tracking Number: <u>592371448652</u> See Exceptions ENV-FRM-MIN4-0142	
Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes	No Biological Tissue Frozen? Yes No N/A
Packing Material: Bubble Wrap Bubble Bags None	Other Temp Blank? Yes No
	(0178) Type of Ice: W Wet Blue Dry None 339252/1710 Melted
	All Container Temps Taken? Yes No N/A
Temp should be above freezing to 6 °C Cooler temp Read w/Temp Blank: 2,2 °C	Average Corrected Temp
Correction Factor: Cooler Temp Corrected w/temp blank:°C	(no temp blank only): °C See Exceptions ENV-FRM-MIN4-0142 1 Container
USDA Regulated Soil: (N/A, wate) sample/other:)	Date/Initials of Person Examining Contents: EC3-24-23
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)?	Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?
If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-F	, ht ht
Location (Check one): Duluth Minneapolis Virginia	COMMENTS
Chain of Custody Present and Filled Out?	1.
Chain of Custody Relinquished?	2.
Sampler Name and/or Signature on COC? Yes No	N/A 3.
Samples Arrived within Hold Time? Yes No	4. If fecal: < 8 hrs > 8 hr, < 24 No
Short Hold Time Analysis (<72 hr)?	5. Fecal Coliform HPC Total Coliform/E.coli
	BOD/cBOD Hex Chrom Turbidity Nitrate
	Nitrite Orthophos Other
Rush Turn Around Time Requested?	6.
Sufficient Sample Volume? Yes No	7.
	N/A 8.
-Pace Containers Used?	
Containers Intact? Yes No	9.
	147.1 20. is additional visible in the dissolved container: 165 140
Is sufficient information available to reconcile the samples to the Yes No	11. If no, write ID/Date/Time of container below:
	See Exceptions
	ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been Yes No Months No Yes No Yes No Months No	N/A 12. Sample #
All containers needing preservation are found to be in Yes No	N/A NaOH THNO3
compliance with EPA recommendation?	H2SO4 Zinc Acetate
(HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 Yes No Water) and Dioxins/PFAS	N/A Positive for Residual Yes See Exceptions
(*If adding preservative to a container, it must be added to	Chlorine? No ENV-FRM-MIN4-0142
associated field and equipment blanks—verify with PM first,)	pH Paper Lot #
associated field and equipment blanksverily with PIVI first.)	Residual Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Headspace in Methyl Mercury Container? Yes No V	N/A 12
Headspace in Methyl Mercury Container? Extra labels present on soil VOA or WIDRO containers? Yes No V	N/A 13. N/A 14. See Exceptions
	N/A 14. See Exceptions N/A ENV-FRM-MIN4-0142
	M/A 15.
	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: 3/24/23
NOTE: Whenever there is a discrepancy affecting North Cirolina compliance sample, 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).	$\bigcirc \bigcirc $
	Labeled By: Line: 5



Pace Analytical® ANALYTICAL REPORT

April 14, 2023

Pace Analytical - Minnesota

L1598459 Sample Delivery Group:

Samples Received: 03/25/2023

Project Number: 10646915

Tritium EPA 906.0 Description:

Site: 001

Report To: Piper Gibbs

1700 Elm Street Suite 200

Minneapolis, MN 55414

















Entire Report Reviewed By:

Donna Eidson

Project Manager Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received. Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

PAGE:

1 of 14

DATE/TIME:

04/14/23 15:10

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WELL #5 L1598459-03	7					
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GI: Glossary of Terms						
Al: Accreditations & Locations						
Sc: Sample Chain of Custody						



















SAMPLE SUMMARY

			Collected by	Collected date/time	Received da	ite/time	
WELL #1 L1598459-01 Non-Potable Water				03/23/23 11:55	03/25/23 09	00:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Radiochemistry by Method 906	WG2036867	1	04/07/23 11:21	04/13/23 04:41	SNR	Mt. Juliet, TN	
WELL #2 L1598459-02 Non-Potable Water			Collected by	Collected date/time 03/23/23 12:01	Received da 03/25/23 09		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Radiochemistry by Method 906	WG2036867	1	04/07/23 11:21	04/13/23 06:23	SNR	Mt. Juliet, TN	
WELL #5 L1598459-03 Non-Potable Water			Collected by	Collected date/time 03/23/23 12:11		Received date/time 03/25/23 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Radiochemistry by Method 906	WG2036867	1	04/07/23 11:21	04/13/23 08:05	SNR	Mt. Juliet, TN	
WELL #4 L1598459-04 Non-Potable Water			Collected by	Collected date/time 03/23/23 12:20	Received da 03/25/23 09		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	

WG2036867

04/07/23 11:21

04/13/23 09:47

SNR

Mt. Juliet, TN



















CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



















Donna Eidson Project Manager

SAMPLE RESULTS - 01

Collected date/time: 03/23/23 11:55

L1598459

	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch	
Analyte	pCi/L		+/-	pCi/L	date / time		
TRITIUM	209	J	213	356	04/13/2023 04:41	WG2036867	



















SAMPLE RESULTS - 02

Collected date/time: 03/23/23 12:01

L1598459

	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch	
Analyte	pCi/L		+/-	pCi/L	date / time		
TRITIUM	134	U	214	360	04/13/2023 06:23	WG2036867	



















SAMPLE RESULTS - 03

Collected date/time: 03/23/23 12:11

	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch	
Analyte	pCi/L		+ / -	pCi/L	date / time		
TRITIUM	136	U	213	359	04/13/2023 08:05	WG2036867	



















SAMPLE RESULTS - 04 L1598459

Collected date/time: 03/23/23 12:20

	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch	
Analyte	pCi/L		+ / -	pCi/L	date / time		
TRITIUM	33.9	U	211	358	04/13/2023 09:47	WG2036867	



















WG2036867

QUALITY CONTROL SUMMARY

Radiochemistry by Method 906

L1598459-01,02,03,04

Method Blank (MB)

TRITIUM

(MB) R3913210-1 04/12/23 12:41										
	MB Result	MB Qualifier	MB Uncertainty	MB MDA						
Analyte	pCi/L		+ / -	pCi/L						

213

361





³Ss

L1597560-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1597560-02 04/12/23 23:36 • (DUP) R3913210-4 04/12/23 20:13

64.4

(66) 2:637 338 32 3 17:272	Original Result	•			DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
Analyte	pCi/L	+/-	pCi/L	pCi/L	+ / -	pCi/L		%			%	
TRITIUM	72.0	212	359	194	216	359	1	91.5	0.401	J	20	3





⁶Ос

Laboratory Control Sample (LCS)

(LCS) R3913210-2 04/12/23 14:23





L1597560-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1597560-02 04/12/23 23:36 • (MS) R3913210-3 04/12/23 18:31

(,		Original Result		MS Rec.	Dilution	Rec. Limits
Analyte	pCi/L	pCi/L	pCi/L	%		%
TRITIUM	10900	72.0	10500	95.7	1	75.0-125

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

ADDIC VIGILOTIS GIT	d Definitions
MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

	5.55 (6.55)
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

¹Cp

²Tc















ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky 16	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 1 4	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234



^{*} Not all certifications held by the laboratory are applicable to the results reported in the attached report.

TN00003

EPA-Crypto



















^{*} Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

ep	ort To			Subcontrac	t To								R	Requeste	d Analy	sis			
ac 700 Inn	Elm St neapolis	ical Minnesota		12065 Mt. Ju	National Lebanon Rd liet, TN 37122 (615) 758-585	8	AG3	_	ed Con	tainers	Tritium 906.0								
em	Sample	∍ ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Unpreserved		Tax									LAB	JSE ONLY
	Well #1		PS	3/23/2023 11:55	10646915001	Water	2				Х							-0)
_	Well #2		PS	3/23/2023 12:01	10646915002	Water	2				Х							-0	2
	Well #3	9	PS	3/23/2023 12:11	10646915003	Water	2		\perp	\perp	X							-0	5
_	Well #4		PS	3/23/2023 12:20	10646915004	Water	2	_	\perp	1	X	\vdash	\perp				\vdash	c	ч
																Comn	nents		
ın	sfers	Released By	ice,	Date/Time 3-24-231	Received E	3y	2		8)	Date/T		700							
_	ler Ter	nperature on Rece	ipt _	°C Cus	stody Seal	or N	N	Т	Rec	eived o	on Ice	(V)	or N			Sam	ples Inta	ict Y or	N

• •		
		·\$ [†]
		598459
Tracking	Temperature	
80		
	2.7	
18 35 81 11	0.6	
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
and call		

3/25-NCF-L1598459 PACEMN

R5

Done	Hailen Melson	Donna Eidson	Client labels Say Well #5, PACE WO: label says Well #3. Time and date on the client label match the information for PACE ID: Well #3	Comments	Client Contact:	PM initials:	Date/Time:	Client informed by Voicemail	Client informed by Email	Client informed by call	If no COC: Carrier:	If no COC: Temp./Cont.Rec./pH:	If no COC: Date/Time:	If no COC: Received by:	Chain of Custody is missing	Client did not "X" analysis	Received additional samples not listed on COC	Please specify TCLP requested	Please specify Metals requested	Chain of custody is incomplete	Login Clarification needed	Due on 29 March 2023 8:00 AM for target Done	Hailey Melson (responsible) 😝 Donna Eidson	Members
29 March 2023 8:16 AM		28 March 2023 1:16 PM	25 March 2023 4:42 PM e and date on the client label match			way																		