

May 10, 2023

Randy Evans  
Wellington Operating Company  
328 South Overland Trail  
Fort Collins, CO 80521

RE: Project: PA-WELL 35-4  
Pace Project No.: 10650976

Dear Randy Evans:

Enclosed are the analytical results for sample(s) received by the laboratory on April 27, 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:

- Pace National - Mt. Juliet
- Pace Analytical Services - Minneapolis

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

Sincerely,



Yeng Ozawa  
yeng.ozawa@pacelabs.com  
(612)607-1700  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: PA-WELL 35-4

Pace Project No.: 10650976

### Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

A2LA Certification #: 2926.01

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

GMP+ Certification #: GMP050884

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 #: AI-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 (A2LA) #: R-036

North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Vermont Certification #: VT-027053137

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

### Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122

Alabama Certification #: 40660

Alaska Certification 17-026

Arizona Certification #: AZ0612

Arkansas Certification #: 88-0469

California Certification #: 2932

Canada Certification #: 1461.01

Colorado Certification #: TN00003

Connecticut Certification #: PH-0197

DOD Certification: #1461.01

EPA# TN00003

Florida Certification #: E87487

Georgia DW Certification #: 923

Georgia Certification: NELAP

Idaho Certification #: TN00003

Illinois Certification #: 200008

Indiana Certification #: C-TN-01

Iowa Certification #: 364

Kansas Certification #: E-10277

Kentucky UST Certification #: 16

Kentucky Certification #: 90010

Louisiana Certification #: AI30792

Louisiana DW Certification #: LA180010

Maine Certification #: TN0002

Maryland Certification #: 324

Massachusetts Certification #: M-TN003

Michigan Certification #: 9958

Minnesota Certification #: 047-999-395

Mississippi Certification #: TN00003

Missouri Certification #: 340

Montana Certification #: CERT0086

Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34

New Hampshire Certification #: 2975

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## CERTIFICATIONS

Project: PA-WELL 35-4

Pace Project No.: 10650976

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### **Pace Analytical Services National**

New Jersey Certification #: TN002  
New Mexico DW Certification  
New York Certification #: 11742  
North Carolina Aquatic Toxicity Certification #: 41  
North Carolina Drinking Water Certification #: 21704  
North Carolina Environmental Certificate #: 375  
North Dakota Certification #: R-140  
Ohio VAP Certification #: CL0069  
Oklahoma Certification #: 9915  
Oregon Certification #: TN200002  
Pennsylvania Certification #: 68-02979  
Rhode Island Certification #: LAO00356  
South Carolina Certification #: 84004  
South Dakota Certification  
Tennessee DW/Chem/Micro Certification #: 2006

Texas Certification #: T 104704245-17-14  
Texas Mold Certification #: LAB0152  
USDA Soil Permit #: P330-15-00234  
Utah Certification #: TN00003  
Vermont Dept. of Health: ID# VT-2006  
Virginia Certification #: VT2006  
Virginia Certification #: 460132  
Washington Certification #: C847  
West Virginia Certification #: 233  
Wisconsin Certification #: 998093910  
Wyoming UST Certification #: via A2LA 2926.01  
A2LA-ISO 17025 Certification #: 1461.01  
A2LA-ISO 17025 Certification #: 1461.02  
AIHA-LAP/LLC EMLAP Certification #:100789

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## SAMPLE ANALYTE COUNT

Project: PA-WELL 35-4

Pace Project No.: 10650976

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10650976001	Well 35-4 F.L.Cap.	EPA 8015D Modified	EB3	4	PASI-M
		EPA 8015D	TM2	2	PASI-M
		6010B-NE493 Ch 2	SPL	1	PAN
		EPA 6010D	DM	9	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	KJ3	17	PASI-M
		EPA 8260D	SB2	9	PASI-M
		SM 2540G	CMK	1	PAN
		EPA 7199	SET	1	PAN
		EPA 9045D	KAD	1	PAN
		EPA 9050	NTG	1	PAN
		Calculated	SPL	1	PAN

PAN = Pace National - Mt. Juliet

PASI-M = Pace Analytical Services - Minneapolis

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: PA-WELL 35-4

Pace Project No.: 10650976

**Sample: Well 35-4 F.L.Cap. Lab ID: 10650976001** Collected: 04/26/23 11:30 Received: 04/27/23 08:50 Matrix: Solid

**Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015D GCS THC-Diesel</b>								
Analytical Method: EPA 8015D Modified Preparation Method: EPA 3550 Sonication								
Pace Analytical Services - Minneapolis								
Motor Oil Range (C24-C36)	ND	mg/kg	11.3	1	05/01/23 13:19	05/02/23 20:21		N2
TPH-DRO (C10-C28)	ND	mg/kg	11.3	1	05/01/23 13:19	05/02/23 20:21		
<b>Surrogates</b>								
o-Terphenyl (S)	86	%.	30-150	1	05/01/23 13:19	05/02/23 20:21	84-15-1	
n-Triacontane (S)	77	%.	30-150	1	05/01/23 13:19	05/02/23 20:21		
<b>8015D GCV GRO</b>								
Analytical Method: EPA 8015D Preparation Method: EPA 5030								
Pace Analytical Services - Minneapolis								
Gasoline Range Organics	ND	mg/kg	3.4	1	05/03/23 13:43	05/03/23 22:09		
<b>Surrogates</b>								
a,a,a-Trifluorotoluene (S)	113	%.	75-125	1	05/03/23 13:43	05/03/23 22:09	98-08-8	
<b>Metals (ICP) 6010B-NE493 Ch 2</b>								
Analytical Method: 6010B-NE493 Ch 2 Preparation Method: HWS Boron								
Pace National - Mt. Juliet								
Boron, Hot Water Soluble	ND	ug/L	1000	5	05/02/23 14:37	05/03/23 12:30	7440-42-8H	
<b>6010D MET ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Pace Analytical Services - Minneapolis								
Arsenic	5.8	mg/kg	1.1	1	05/04/23 08:40	05/08/23 14:37	7440-38-2	
Barium	124	mg/kg	0.55	1	05/04/23 08:40	05/08/23 14:37	7440-39-3	
Cadmium	0.68	mg/kg	0.16	1	05/04/23 08:40	05/08/23 14:37	7440-43-9	
Copper	12.6	mg/kg	0.55	1	05/04/23 08:40	05/08/23 14:37	7440-50-8	
Lead	9.4	mg/kg	0.55	1	05/04/23 08:40	05/08/23 14:37	7439-92-1	
Nickel	14.2	mg/kg	1.1	1	05/04/23 08:40	05/08/23 14:37	7440-02-0	
Selenium	ND	mg/kg	1.1	1	05/04/23 08:40	05/08/23 14:37	7782-49-2	
Silver	ND	mg/kg	0.55	1	05/04/23 08:40	05/08/23 14:37	7440-22-4	
Zinc	44.7	mg/kg	2.2	1	05/04/23 08:40	05/08/23 14:37	7440-66-6	
<b>Dry Weight / %M by ASTM D2974</b>								
Analytical Method: ASTM D2974								
Pace Analytical Services - Minneapolis								
Percent Moisture	12.4	%	0.10	1		04/28/23 12:05		N2
<b>8270E MSSV PAH by SIM</b>								
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546								
Pace Analytical Services - Minneapolis								
Acenaphthene	ND	ug/kg	11.3	1	05/02/23 10:22	05/04/23 00:35	83-32-9	
Anthracene	ND	ug/kg	11.3	1	05/02/23 10:22	05/04/23 00:35	120-12-7	
Benzo(a)anthracene	ND	ug/kg	11.3	1	05/02/23 10:22	05/04/23 00:35	56-55-3	
Benzo(a)pyrene	ND	ug/kg	11.3	1	05/02/23 10:22	05/04/23 00:35	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	11.3	1	05/02/23 10:22	05/04/23 00:35	205-99-2	
Benzo(k)fluoranthene	ND	ug/kg	11.3	1	05/02/23 10:22	05/04/23 00:35	207-08-9	
Chrysene	ND	ug/kg	11.3	1	05/02/23 10:22	05/04/23 00:35	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.3	1	05/02/23 10:22	05/04/23 00:35	53-70-3	
Fluoranthene	ND	ug/kg	11.3	1	05/02/23 10:22	05/04/23 00:35	206-44-0	
Fluorene	ND	ug/kg	11.3	1	05/02/23 10:22	05/04/23 00:35	86-73-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: PA-WELL 35-4

Pace Project No.: 10650976

**Sample: Well 35-4 F.L.Cap. Lab ID: 10650976001** Collected: 04/26/23 11:30 Received: 04/27/23 08:50 Matrix: Solid

**Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV PAH by SIM</b>								
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546								
Pace Analytical Services - Minneapolis								
Indeno(1,2,3-cd)pyrene	ND	ug/kg	11.3	1	05/02/23 10:22	05/04/23 00:35	193-39-5	
1-Methylnaphthalene	ND	ug/kg	11.3	1	05/02/23 10:22	05/04/23 00:35	90-12-0	
2-Methylnaphthalene	ND	ug/kg	11.3	1	05/02/23 10:22	05/04/23 00:35	91-57-6	
Naphthalene	ND	ug/kg	11.3	1	05/02/23 10:22	05/04/23 00:35	91-20-3	
Pyrene	ND	ug/kg	11.3	1	05/02/23 10:22	05/04/23 00:35	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	65	%.	54-125	1	05/02/23 10:22	05/04/23 00:35	321-60-8	
p-Terphenyl-d14 (S)	107	%.	60-125	1	05/02/23 10:22	05/04/23 00:35	1718-51-0	
<b>8260D MSV UST</b>								
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B								
Pace Analytical Services - Minneapolis								
Benzene	ND	ug/kg	12.9	1	04/28/23 10:23	05/02/23 01:23	71-43-2	
Ethylbenzene	ND	ug/kg	32.3	1	04/28/23 10:23	05/02/23 01:23	100-41-4	
Toluene	ND	ug/kg	32.3	1	04/28/23 10:23	05/02/23 01:23	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/kg	32.3	1	04/28/23 10:23	05/02/23 01:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	32.3	1	04/28/23 10:23	05/02/23 01:23	108-67-8	
Xylene (Total)	ND	ug/kg	96.9	1	04/28/23 10:23	05/02/23 01:23	1330-20-7	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	103	%.	75-125	1	04/28/23 10:23	05/02/23 01:23	460-00-4	
Toluene-d8 (S)	122	%.	75-125	1	04/28/23 10:23	05/02/23 01:23	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	97	%.	75-125	1	04/28/23 10:23	05/02/23 01:23	2199-69-1	
<b>Total Solids 2540 G-2011</b>								
Analytical Method: SM 2540G Preparation Method: SM 2540 G								
Pace National - Mt. Juliet								
Total Solids	86.4	%		1	05/02/23 10:53	05/02/23 11:07		
<b>Wet Chemistry 7199</b>								
Analytical Method: EPA 7199 Preparation Method: 3060A								
Pace National - Mt. Juliet								
Chromium, Hexavalent	ND	mg/kg	1.16	1	05/03/23 00:02	05/03/23 14:34		
<b>Wet Chemistry 9045D</b>								
Analytical Method: EPA 9045D Preparation Method: 9045C/9045D								
Pace National - Mt. Juliet								
pH	7.95	Std. Units		1	05/02/23 21:00	05/02/23 23:05		H3
<b>Wet Chemistry 9050AMod</b>								
Analytical Method: EPA 9050 Preparation Method: 9050A								
Pace National - Mt. Juliet								
Specific Conductance	461	umhos/cm	10.0	1	05/03/23 13:20	05/03/23 14:36		
<b>Calculated Results</b>								
Analytical Method: Calculated Preparation Method: Calc								
Pace National - Mt. Juliet								
Sodium Adsorption Ratio	0.100			1	05/04/23 18:57	05/04/23 18:57		

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: PA-WELL 35-4

Pace Project No.: 10650976

QC Batch: 879071

Analysis Method: EPA 8015D

QC Batch Method: EPA 5030

Analysis Description: 8015D GCV GRO Solid

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10650976001

METHOD BLANK: 4633514

Matrix: Solid

Associated Lab Samples: 10650976001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	5.0	05/03/23 16:46	
a,a,a-Trifluorotoluene (S)	%.	117	75-125	05/03/23 16:46	

LABORATORY CONTROL SAMPLE: 4633515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	50	53.4	107	75-125	
a,a,a-Trifluorotoluene (S)	%.			122	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4633516 4633517

Parameter	Units	10650976001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Gasoline Range Organics	mg/kg	ND	37.3	37.3	38.2	39.1	100	103	31-149	2	
a,a,a-Trifluorotoluene (S)	%.						116	114	75-125		

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## QUALITY CONTROL DATA

Project: PA-WELL 35-4

Pace Project No.: 10650976

QC Batch: 2051800

Analysis Method: 6010B-NE493 Ch 2

QC Batch Method: HWS Boron

Analysis Description: Metals (ICP) 6010B-NE493 Ch 2

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 10650976001

METHOD BLANK: R3920527-1

Matrix: Solid

Associated Lab Samples: 10650976001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Hot Water Soluble	ug/L	ND	200	05/03/23 12:13	

LABORATORY CONTROL SAMPLE & LCSD: R3920527-2

R3920527-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Boron, Hot Water Soluble	ug/L	1000	1080	1070	108	107	80.0-120	0.787	20	

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## QUALITY CONTROL DATA

Project: PA-WELL 35-4

Pace Project No.: 10650976

QC Batch: 878362

QC Batch Method: EPA 3050B

Analysis Method: EPA 6010D

Analysis Description: 6010D Solids

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10650976001

METHOD BLANK: 4630971

Matrix: Solid

Associated Lab Samples: 10650976001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.98	05/08/23 14:34	
Barium	mg/kg	ND	0.49	05/08/23 14:34	
Cadmium	mg/kg	ND	0.15	05/08/23 14:34	
Copper	mg/kg	ND	0.49	05/08/23 14:34	
Lead	mg/kg	ND	0.49	05/08/23 14:34	
Nickel	mg/kg	ND	0.98	05/08/23 14:34	
Selenium	mg/kg	ND	0.98	05/08/23 14:34	
Silver	mg/kg	ND	0.49	05/08/23 14:34	
Zinc	mg/kg	ND	2.0	05/08/23 14:34	

LABORATORY CONTROL SAMPLE: 4630972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	48	47.9	100	80-120	
Barium	mg/kg	48	51.7	108	80-120	
Cadmium	mg/kg	48	51.0	106	80-120	
Copper	mg/kg	48	49.9	104	80-120	
Lead	mg/kg	48	50.2	105	80-120	
Nickel	mg/kg	48	50.5	105	80-120	
Selenium	mg/kg	48	47.2	98	80-120	
Silver	mg/kg	24	24.3	101	80-120	
Zinc	mg/kg	48	49.9	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4630973

4630974

Parameter	Units	10650976001		MS		MSD		MS		MSD		MS		MSD		% Rec		RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	% Rec	Limits		
Arsenic	mg/kg	5.8	53.9	54.1	49.8	49.1	82	80	75-125	1									
Barium	mg/kg	124	53.9	54.1	174	169	93	84	75-125	3									
Cadmium	mg/kg	0.68	53.9	54.1	43.5	43.4	79	79	75-125	0									
Copper	mg/kg	12.6	53.9	54.1	59.6	59.6	87	87	75-125	0									
Lead	mg/kg	9.4	53.9	54.1	50.3	50.4	76	76	75-125	0									
Nickel	mg/kg	14.2	53.9	54.1	57.5	56.1	80	78	75-125	2									
Selenium	mg/kg	ND	53.9	54.1	43.5	42.3	80	77	75-125	3									
Silver	mg/kg	ND	26.9	27	23.2	23.1	86	85	75-125	0									
Zinc	mg/kg	44.7	53.9	54.1	88.6	85.9	82	76	75-125	3									

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## QUALITY CONTROL DATA

Project: PA-WELL 35-4

Pace Project No.: 10650976

QC Batch: 878097

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight / %M by ASTM D2974

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10650976001

SAMPLE DUPLICATE: 4629958

Parameter	Units	10649448001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	15.5	14.6	6	N2

SAMPLE DUPLICATE: 4629959

Parameter	Units	10651062001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	41.1	41.6	1	N2

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## QUALITY CONTROL DATA

Project: PA-WELL 35-4

Pace Project No.: 10650976

QC Batch: 878126

Analysis Method: EPA 8260D

QC Batch Method: EPA 5035/5030B

Analysis Description: 8260D MSV UST

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10650976001

METHOD BLANK: 4629731

Matrix: Solid

Associated Lab Samples: 10650976001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	05/02/23 00:06	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	05/02/23 00:06	
Benzene	ug/kg	ND	20.0	05/02/23 00:06	
Ethylbenzene	ug/kg	ND	50.0	05/02/23 00:06	
Toluene	ug/kg	ND	50.0	05/02/23 00:06	
Xylene (Total)	ug/kg	ND	150	05/02/23 00:06	
1,2-Dichlorobenzene-d4 (S)	%.	96	75-125	05/02/23 00:06	
4-Bromofluorobenzene (S)	%.	103	75-125	05/02/23 00:06	
Toluene-d8 (S)	%.	104	75-125	05/02/23 00:06	

LABORATORY CONTROL SAMPLE & LCSD: 4629732

4629733

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	951	827	95	83	75-134	14	20	
1,3,5-Trimethylbenzene	ug/kg	1000	940	823	94	82	75-132	13	20	
Benzene	ug/kg	1000	983	938	98	94	72-125	5	20	
Ethylbenzene	ug/kg	1000	890	829	89	83	75-130	7	20	
Toluene	ug/kg	1000	933	898	93	90	75-125	4	20	
Xylene (Total)	ug/kg	3000	2670	2500	89	83	75-126	7	20	
1,2-Dichlorobenzene-d4 (S)	%.				104	103	75-125			
4-Bromofluorobenzene (S)	%.				98	100	75-125			
Toluene-d8 (S)	%.				98	99	75-125			

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: PA-WELL 35-4

Pace Project No.: 10650976

QC Batch:	878495	Analysis Method:	EPA 8015D Modified
QC Batch Method:	EPA 3550 Sonication	Analysis Description:	8015D Solid GCSV
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	10650976001		

METHOD BLANK: 4631332

Matrix: Solid

Associated Lab Samples: 10650976001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Motor Oil Range (C24-C36)	mg/kg	ND	10.0	05/02/23 15:51	N2
TPH-DRO (C10-C28)	mg/kg	ND	10.0	05/02/23 15:51	
n-Triacontane (S)	%	74	30-150	05/02/23 15:51	
o-Terphenyl (S)	%	93	30-150	05/02/23 15:51	

LABORATORY CONTROL SAMPLE: 4631333

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Motor Oil Range (C24-C36)	mg/kg	50	48.1	96	74-125	N2
TPH-DRO (C10-C28)	mg/kg	50	43.1	86	60-125	
n-Triacontane (S)	%			74	30-150	
o-Terphenyl (S)	%			88	30-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4631334 4631335

Parameter	Units	10651135017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Motor Oil Range (C24-C36)	mg/kg	17.3	60.7	60.2	76.4	69.5	97	87	36-150	9	N2
TPH-DRO (C10-C28)	mg/kg	ND	60.7	60.2	60.9	56.2	92	85	41-125	8	
n-Triacontane (S)	%						78	76	30-150		
o-Terphenyl (S)	%						86	88	30-150		

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: PA-WELL 35-4

Pace Project No.: 10650976

QC Batch: 878711

Analysis Method: EPA 8270E by SIM

QC Batch Method: EPA 3546

Analysis Description: 8270E Solid PAH by SIM MSSV

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10650976001

METHOD BLANK: 4631996

Matrix: Solid

Associated Lab Samples: 10650976001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	10.0	05/03/23 15:24	
2-Methylnaphthalene	ug/kg	ND	10.0	05/03/23 15:24	
Acenaphthene	ug/kg	ND	10.0	05/03/23 15:24	
Anthracene	ug/kg	ND	10.0	05/03/23 15:24	
Benzo(a)anthracene	ug/kg	ND	10.0	05/03/23 15:24	
Benzo(a)pyrene	ug/kg	ND	10.0	05/03/23 15:24	
Benzo(b)fluoranthene	ug/kg	ND	10.0	05/03/23 15:24	
Benzo(k)fluoranthene	ug/kg	ND	10.0	05/03/23 15:24	
Chrysene	ug/kg	ND	10.0	05/03/23 15:24	
Dibenz(a,h)anthracene	ug/kg	ND	10.0	05/03/23 15:24	
Fluoranthene	ug/kg	ND	10.0	05/03/23 15:24	
Fluorene	ug/kg	ND	10.0	05/03/23 15:24	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	10.0	05/03/23 15:24	
Naphthalene	ug/kg	ND	10.0	05/03/23 15:24	
Pyrene	ug/kg	ND	10.0	05/03/23 15:24	
2-Fluorobiphenyl (S)	%	50	54-125	05/03/23 15:24	S0
p-Terphenyl-d14 (S)	%	96	60-125	05/03/23 15:24	

LABORATORY CONTROL SAMPLE: 4631997

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	100	58.5	59	41-125	
2-Methylnaphthalene	ug/kg	100	60.1	60	45-125	
Acenaphthene	ug/kg	100	64.4	64	56-125	
Anthracene	ug/kg	100	86.8	87	59-125	
Benzo(a)anthracene	ug/kg	100	85.7	86	55-125	
Benzo(a)pyrene	ug/kg	100	85.7	86	69-125	
Benzo(b)fluoranthene	ug/kg	100	87.6	88	54-125	
Benzo(k)fluoranthene	ug/kg	100	91.3	91	65-125	
Chrysene	ug/kg	100	88.4	88	62-125	
Dibenz(a,h)anthracene	ug/kg	100	88.5	88	64-125	
Fluoranthene	ug/kg	100	88.7	89	69-125	
Fluorene	ug/kg	100	74.0	74	61-125	
Indeno(1,2,3-cd)pyrene	ug/kg	100	86.6	87	54-125	
Naphthalene	ug/kg	100	57.8	58	49-125	
Pyrene	ug/kg	100	91.2	91	69-125	
2-Fluorobiphenyl (S)	%			66	54-125	
p-Terphenyl-d14 (S)	%			95	60-125	

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## QUALITY CONTROL DATA

Project: PA-WELL 35-4

Pace Project No.: 10650976

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4631998 4631999											
Parameter	Units	10650403028		MS	MSD	MS		MSD	% Rec		Qual
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	
1-Methylnaphthalene	ug/kg	ND	134	133	115	114	77	76	30-125	1	
2-Methylnaphthalene	ug/kg	18.3	134	133	115	114	72	72	30-150	1	
Acenaphthene	ug/kg	ND	134	133	145	129	109	96	51-125	12	
Anthracene	ug/kg	49.8	134	133	230	176	135	95	39-136	27	
Benzo(a)anthracene	ug/kg	174	134	133	448	327	204	114	30-131	31	M1,R1
Benzo(a)pyrene	ug/kg	225	134	133	519	372	219	110	30-150	33	M1,R1
Benzo(b)fluoranthene	ug/kg	317	134	133	647	465	246	111	30-150	33	M1,R1
Benzo(k)fluoranthene	ug/kg	119	134	133	358	262	178	107	41-130	31	M1,R1
Chrysene	ug/kg	238	134	133	547	387	230	111	30-135	34	M1,R1
Dibenz(a,h)anthracene	ug/kg	40.6	134	133	183	160	107	89	50-129	14	
Fluoranthene	ug/kg	462	134	133	973	674	381	159	30-150	36	M1,R1
Fluorene	ug/kg	15.5	134	133	166	145	112	97	56-125	13	
Indeno(1,2,3-cd)pyrene	ug/kg	167	134	133	405	301	178	101	30-148	29	M1
Naphthalene	ug/kg	14.3	134	133	105	101	68	65	30-125	4	
Pyrene	ug/kg	369	134	133	784	558	310	142	30-150	34	M1,R1
2-Fluorobiphenyl (S)	%.						83	86	54-125		
p-Terphenyl-d14 (S)	%.						91	94	60-125		

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## QUALITY CONTROL DATA

Project: PA-WELL 35-4

Pace Project No.: 10650976

QC Batch: 2051115

QC Batch Method: SM 2540 G

Analysis Method: SM 2540G

Analysis Description: Total Solids 2540 G-2011

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 10650976001

METHOD BLANK: R3920156-1

Matrix: Solid

Associated Lab Samples: 10650976001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	0.00200		05/02/23 11:07	

LABORATORY CONTROL SAMPLE: R3920156-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	50.0	100	85.0-115	

SAMPLE DUPLICATE: R3920156-3

Parameter	Units	L1610291-06 Result	Dup Result	RPD	Qualifiers
Total Solids	%	76.9	75.7	1.50	

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## QUALITY CONTROL DATA

Project: PA-WELL 35-4

Pace Project No.: 10650976

QC Batch: 2052143

QC Batch Method: 3060A

Analysis Method: EPA 7199

Analysis Description: Wet Chemistry 7199

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 10650976001

METHOD BLANK: R3920566-1

Matrix: Solid

Associated Lab Samples: 10650976001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	ND	1.00	05/03/23 14:21	

LABORATORY CONTROL SAMPLE: R3920566-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	10.0	9.04	90.4	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3920566-4 R3920566-5

Parameter	Units	L1610597-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chromium, Hexavalent	mg/kg	ND	20.0	20.0	17.6	18.8	88.1	94.2	75.0-125	6.65	

MATRIX SPIKE SAMPLE: R3920566-6

Parameter	Units	L1610597-01 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	ND	651	769	118	75.0-125	

SAMPLE DUPLICATE: R3920566-3

Parameter	Units	L1610593-01 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/kg	ND	ND	0.00	

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## QUALITY CONTROL DATA

Project: PA-WELL 35-4

Pace Project No.: 10650976

QC Batch: 2052795

QC Batch Method: 9045C/9045D

Analysis Method: EPA 9045D

Analysis Description: Wet Chemistry 9045D

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 10650976001

LABORATORY CONTROL SAMPLE: R3920112-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH	Std. Units	10.0	10.0	100	99.0-101	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: PA-WELL 35-4

Pace Project No.: 10650976

QC Batch: 2051237

QC Batch Method: 9050A

Analysis Method: EPA 9050

Analysis Description: Wet Chemistry 9050AMod

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 10650976001

METHOD BLANK: R3920455-1

Matrix: Solid

Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	05/03/23 14:36	

LABORATORY CONTROL SAMPLE: R3920455-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1120	1170	104	85.0-115	

SAMPLE DUPLICATE: R3920455-3

Parameter	Units	L1610421-02 Result	Dup Result	RPD	Qualifiers
Specific Conductance	umhos/cm	117	117	0.171	

SAMPLE DUPLICATE: R3920455-4

Parameter	Units	L1610593-03 Result	Dup Result	RPD	Qualifiers
Specific Conductance	umhos/cm	189	190	0.158	

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## QUALITY CONTROL DATA

Project: PA-WELL 35-4

Pace Project No.: 10650976

QC Batch: 2051237

QC Batch Method: EPA 9050

Analysis Method: EPA 9050

Analysis Description: Wet Chemistry 9050AMod

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 10650976001

METHOD BLANK: R3920455-1

Matrix: Solid

Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	05/03/23 14:36	

LABORATORY CONTROL SAMPLE: R3920455-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1120	1170	104	85.0-115	

SAMPLE DUPLICATE: R3920455-3

Parameter	Units	L1610421-02 Result	Dup Result	RPD	Qualifiers
Specific Conductance	umhos/cm	117	117	0.171	

SAMPLE DUPLICATE: R3920455-4

Parameter	Units	L1610593-03 Result	Dup Result	RPD	Qualifiers
Specific Conductance	umhos/cm	189	190	0.158	

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## QUALIFIERS

Project: PA-WELL 35-4

Pace Project No.: 10650976

### 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.

### WORKORDER QUALIFIERS

WO: 10650976

[1] The samples were received outside of required temperature range. Analysis was completed upon client approval.

### SAMPLE QUALIFIERS

Sample: 10650976001

[1] Wet Chemistry by Method 9045D - 7.95 at 20.1C

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: R3920112-1

[1] Wet Chemistry by Method 9045D - 10 at 19.1C

Sample: R3920455-1

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: R3920455-2

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: R3920455-3

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: R3920455-4

[1] Wet Chemistry by Method 9050AMod - at 25C

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## QUALIFIERS

Project: PA-WELL 35-4

Pace Project No.: 10650976

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### SAMPLE QUALIFIERS

Sample: L1610421-02

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: L1610593-03

[1] Wet Chemistry by Method 9050AMod - at 25C

### BATCH QUALIFIERS

Batch: 878692

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

### ANALYTE QUALIFIERS

H3	Sample was received or analysis requested beyond the recognized method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PA-WELL 35-4

Pace Project No.: 10650976

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10650976001	Well 35-4 F.L.Cap.	EPA 3550 Sonication	878495	EPA 8015D Modified	878684
10650976001	Well 35-4 F.L.Cap.	EPA 5030	879071	EPA 8015D	879080
10650976001	Well 35-4 F.L.Cap.	HWS Boron	2051800	6010B-NE493 Ch 2	2051800
10650976001	Well 35-4 F.L.Cap.	EPA 3050B	878362	EPA 6010D	879283
10650976001	Well 35-4 F.L.Cap.	ASTM D2974	878097		
10650976001	Well 35-4 F.L.Cap.	EPA 3546	878711	EPA 8270E by SIM	878973
10650976001	Well 35-4 F.L.Cap.	EPA 5035/5030B	878126	EPA 8260D	878692
10650976001	Well 35-4 F.L.Cap.	SM 2540 G	2051115	SM 2540G	2051115
10650976001	Well 35-4 F.L.Cap.	3060A	2052143	EPA 7199	2052143
10650976001	Well 35-4 F.L.Cap.	9045C/9045D	2052795	EPA 9045D	2052795
10650976001	Well 35-4 F.L.Cap.	9050A	2051237	EPA 9050	2051237
10650976001	Well 35-4 F.L.Cap.	Calc	2051798	Calculated	2051798

## REPORT OF LABORATORY ANALYSIS

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Effective Date: 4/14/2023

<b>Sample Condition Upon Receipt</b>	<b>Client Name:</b> <u>Wellington Operating Co.</u>	<b>Project #:</b>	<b>WO#: 10650976</b> <b>PM: Y01</b> <b>Due Date: 05/11/23</b> <b>CLIENT: Wellington</b>
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Courier: ☒ FedEx ☐ UPS ☐ USPS ☐ Client  
☐ Pace ☐ SpeedDee ☐ Commercial

Tracking Number: 5405 1824 8713 ☐ 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  
Thermometer: ☐ T1 (0461) ☒ T2 (0436) ☐ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) Type of Ice: ☒ Wet ☐ Blue ☐ Dry ☐ None  
☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☐ 01339252/1710 ☐ Melted

Did Samples Originate in West Virginia? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Were All Container Temps Taken? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Temp should be above freezing to 6 °C Cooler temp Read w/Temp Blank: <u>7.2</u> °C	Average Corrected Temp (no temp blank only): _____ °C
Correction Factor: <u>True</u> Cooler Temp Corrected w/temp blank: <u>7.2</u> °C	<input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142 <input type="checkbox"/> 1 Container

USDA Regulated Soil: ☐ N/A, water sample/other: \_\_\_\_\_

Date/Initials of Person Examining Contents: BG2 4/27/23

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)? ☐ 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 (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

Location (Check one): <input type="checkbox"/> Duluth <input checked="" type="checkbox"/> Minneapolis <input type="checkbox"/> Virginia	COMMENTS
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 1.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 3.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 4. If fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 <input type="checkbox"/> No
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E.coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrom <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 6. <u>5 Day</u>
Sufficient Sample Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 7.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 8.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 9.
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is sufficient information available to reconcile the samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 11. If no, write ID/Date/Time of container below: <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
Matrix: <input type="checkbox"/> Water <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other	
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 12. Sample # <input type="checkbox"/> NaOH <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Exceptions: <input checked="" type="checkbox"/> VOA Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Positive for Residual Chlorine? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
	pH Paper Lot # Residual Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Headspace in Methyl Mercury Container?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 13.
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 14. <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
3 Trip Blanks Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A 15. <u>No trip Blanks</u> Pace Trip Blank Lot # (if purchased): _____
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A

## CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐ Yes ☐ No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Comments/Resolution: PN can only do 7-10 turn, client wants report sent when all samples are complete.

Project Manager Review: Yeng Ozawa

Date: 4/27/23

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).

Labeled By: BG2

Line: 6



**Table 915-1  
CLEANUP CONCENTRATIONS**

Contaminant of Concern	Concentrations
Soil TPH (total volatile [C <sub>6</sub> -C <sub>10</sub> ] and extractable [C <sub>10</sub> -C <sub>36</sub> ] hydrocarbons)	500mg/kg
Soils and Groundwater - liquid hydrocarbons including condensate and oil	below visual detection limits
<b>Soil Suitability for Reclamation</b>	
Electrical conductivity (EC) (by saturated paste method) <sup>1,2</sup>	<4mmhos/cm
Sodium adsorption ratio (SAR) (by saturated paste method) <sup>1,2,3</sup>	<6
pH (by saturated paste method) <sup>1,2</sup>	6-8.3
boron (hot water soluble soil extract) <sup>1,2,3</sup>	2mg/l
<b>Organic Compounds in Groundwater<sup>4</sup></b>	
benzene	5µg/l
toluene <sup>5</sup>	560 to 1,000µg/l
ethylbenzene	700µg/l
xlenes (sum of o-, m- and p- isomers = total xlenes) <sup>5</sup>	1,400 to 10,000µg/l
naphthalene	140µg/l
1,2,4-trimethylbenzene	67µg/l
1,3,5-trimethylbenzene	67µg/l
<b>Groundwater Inorganic Parameters<sup>4</sup></b>	
total dissolved solids (TDS) <sup>1</sup>	<1.25 X local background
chloride ion <sup>1</sup>	250mg/l or <1.25 X local background
sulfate ion <sup>1</sup>	250mg/l or <1.25 X local background

Table 915-1 (continued)

Contaminant of Concern	Concentrations	
	Residential Soil Screening Level Concentrations (mg/kg) <sup>7</sup>	Protection of Groundwater Soil Screening Level Concentrations (mg/kg) Risk Based (R) and MCL Based (M) <sup>7,8</sup>
<b>Organic Compounds in Soils<sup>6, 9, 10</sup></b>		
benzene	1.2	0.0026 (M)
toluene	490	0.69 (M)
ethylbenzene	5.8	0.78 (M)
xylene (sum of o-, m- and p- isomers = total xylenes)	58	9.9 (M)
1,2,4-trimethylbenzene	30	0.0081 (R)
1,3,5-trimethylbenzene	27	0.0087 (R)
acenaphthene	360	0.55 (R)
anthracene	1800	5.8 (R)
benz(a)anthracene	1.1	0.011 (R)
benzo(b)fluoranthene	1.1	0.3 (R)
benzo(k)fluoranthene	11	2.9 (R)
benzo(a)pyrene	0.11	0.24 (M)
chrysene	110	9 (R)
dibenzo(a,h)anthracene	0.11	0.096 (R)
fluoranthene	240	8.9 (R)
fluorene	240	0.54 (R)
indeno(1,2,3-cd)pyrene	1.1	0.98 (R)
1-methylnaphthalene	18	0.006 (R)
2-methylnaphthalene	24	0.019 (R)
naphthalene	2	0.0038 (R)
pyrene	180	1.3 (R)
<b>Metals in Soils<sup>1, 6, 9, 10, 11</sup></b>		
arsenic	0.68	0.29 (M)
barium	15000	82 (M)
cadmium	71	0.38 (M)
chromium (VI)	0.3	0.00067 (R)
copper	3100	46 (M)
lead	400	14 (M)
nickel	1500	26 (R)
selenium	390	0.26 (M)
silver	390	0.8 (R)
zinc	23000	370 (R)

## Internal Transfer Chain of Custody



☐ Samples Pre-Logged into eCOC.

**State Of Origin:** CO

**Cert. Needed:** ☐ Yes

☐ No

**Workorder: 10650976**

**Workorder Name:** PA-WELL 35-4

Owner Received Date:

4/27/2023

Results Requested By: 5/11/2023

[illegible]

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

*This chain of custody is considered complete as is since this information is available in the owner laboratory.*

Sample Receipt Checklist

COC Seal Present/Intact:	<u>Y</u>	N	
COC Signed/Accurate:	<u>Y</u>	N	If Applicable
Bottles arrive intact:	<u>Y</u>	N	VOA Zero Headspace: <u>Y</u> N
Correct bottles used:	<u>Y</u>	N	Pres. Correct/Check: <u>Y</u> N
Sufficient volume sent:	<u>Y</u>	N	
RAD Screen <0.5 mR/hr:	<u>Y</u>	N	

NSA 7 2.840 - 2.9  
6476 5637 5375

## Pace Analytical - Minnesota

Sample Delivery Group: L1610297  
Samples Received: 04/28/2023  
Project Number: 10650976  
Description: PA-WELL 35-4  
Site: 001  
Report To: Yeng Ozawa  
1700 Elm Street Suite 200  
Minneapolis, MN 55414

Entire Report Reviewed By:



Nancy McLain  
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](http://www.pacenational.com)

Page 28 of 39

# TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
WELL 35-4 F.L CAP. L1610297-01	5
Qc: Quality Control Summary	6
Total Solids by Method 2540 G-2011	6
Wet Chemistry by Method 7199	7
Wet Chemistry by Method 9045D	8
Wet Chemistry by Method 9050AMod	9
Metals (ICP) by Method 6010B-NE493 Ch 2	10
Gl: Glossary of Terms	11
Al: Accreditations & Locations	12
Sc: Sample Chain of Custody	13

<sup>1</sup> Cp
<sup>2</sup> Tc
<sup>3</sup> Ss
<sup>4</sup> Cn
<sup>5</sup> Sr
<sup>6</sup> Qc
<sup>7</sup> Gl
<sup>8</sup> Al
<sup>9</sup> Sc

# SAMPLE SUMMARY

WELL 35-4 F.L CAP. L1610297-01 Solid

Collected by

Collected date/time

Received date/time

04/26/23 11:30

04/28/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2051798	1	05/04/23 18:57	05/04/23 18:57	SPL	Mt. Juliet, TN
Total Solids by Method 2540 G-2011	WG2051115	1	05/02/23 10:53	05/02/23 11:07	CMK	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2052143	1	05/03/23 00:02	05/03/23 14:34	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2052795	1	05/02/23 21:00	05/02/23 23:05	KAD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2051237	1	05/03/23 13:20	05/03/23 14:36	NTG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2051800	5	05/02/23 14:37	05/03/23 12:30	SPL	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

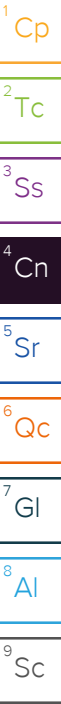
<sup>9</sup>Sc

# 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 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.



Nancy McLain  
Project Manager



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.100		1	05/04/2023 18:57	WG2051798

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.4		1	05/02/2023 11:07	<a href="#">WG2051115</a>

## Wet Chemistry by Method 7199

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Hexavalent Chromium	mg/kg		mg/kg	mg/kg			
Hexavalent Chromium	U		0.295	1.16	1	05/03/2023 14:34	<a href="#">WG2052143</a>

## Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	su				
pH	7.95	<a href="#">T8</a>	1	05/02/2023 23:05	<a href="#">WG2052795</a>

## Sample Narrative:

L1610297-01 WG2052795: 7.95 at 20.1C

## Wet Chemistry by Method 9050AMod

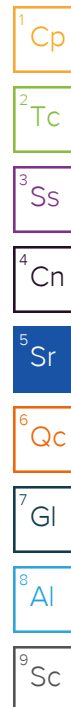
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	umhos/cm		umhos/cm			
Specific Conductance	461		10.0	1	05/03/2023 14:36	<a href="#">WG2051237</a>

## Sample Narrative:

L1610297-01 WG2051237: at 25C

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ug/l		ug/l	ug/l			
Hot Water Sol. Boron	940	<a href="#">J</a>	83.5	1000	5	05/03/2023 12:30	<a href="#">WG2051800</a>





Method Blank (MB)

(MB) R3920156-1 05/02/23 11:07

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00200			

L1610291-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1610291-06 05/02/23 11:07 • (DUP) R3920156-3 05/02/23 11:07

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	76.9	75.7	1	1.50		10

Laboratory Control Sample (LCS)

(LCS) R3920156-2 05/02/23 11:07

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3920566-1 05/03/23 14:21

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Hexavalent Chromium	U		0.255	1.00

L1610593-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1610593-01 05/03/23 14:49 • (DUP) R3920566-3 05/03/23 14:54

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3920566-2 05/03/23 14:28

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	9.04	90.4	80.0-120	

L1610597-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1610597-01 05/03/23 15:26 • (MS) R3920566-4 05/03/23 15:31 • (MSD) R3920566-5 05/03/23 15:36

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	U	17.6	18.8	88.1	94.2	1	75.0-125			6.65	20

L1610597-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1610597-01 05/03/23 15:26 • (MS) R3920566-6 05/03/23 15:41

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	651	U	769	118	50	75.0-125	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3920112-1 05/02/23 23:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10 at 19.1C

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3920455-1 05/03/23 14:36

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1610421-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1610421-02 05/03/23 14:36 • (DUP) R3920455-3 05/03/23 14:36

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	117	117	1	0.171		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1610593-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1610593-03 05/03/23 14:36 • (DUP) R3920455-4 05/03/23 14:36

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	189	190	1	0.158		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3920455-2 05/03/23 14:36

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	1120	1170	104	85.0-115	

Sample Narrative:

LCS: at 25C

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3920527-1 05/03/23 12:13

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hot Water Sol. Boron	U		16.7	200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3920527-2 05/03/23 12:16 • (LCSD) R3920527-3 05/03/23 12:19

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1000	1080	1070	108	107	80.0-120			0.787	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

# 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.

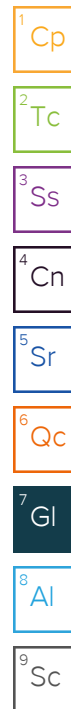
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

## Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
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

J	The identification of the analyte is acceptable; the reported value is an estimate.
T8	Sample(s) received past/too close to holding time expiration.



# 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 <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

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

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

