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

January 03, 2024

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

RE: Project: 281818 WPWT
Pace Project No.: 10679675

Dear Randy Evans:

Enclosed are the analytical results for sample(s) received by the laboratory on December 21, 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

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

CERTIFICATIONS

Project: 281818 WPWT
Pace Project No.: 10679675

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: 281818 WPWT
Pace Project No.: 10679675

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: 281818 WPWT
Pace Project No.: 10679675

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10679675001	**Well 35-4 Background**	EPA 8015D Modified	TT2	4	PASI-M
		EPA 8015D	TM2	2	PASI-M
		6010B-NE493 Ch 2	JTM	1	PAN
		EPA 6010D	SMB	9	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	JLR	17	PASI-M
		EPA 8260D	SB2	9	PASI-M
		EPA 7199	SET	1	PAN
		EPA 9045D	KRB	1	PAN
		EPA 9050	NTG	1	PAN
		Calculated	JTM	1	PAN
10679675002	**Well 35-4 Flowline End**	EPA 8015D Modified	TT2	4	PASI-M
		EPA 8015D	TM2	2	PASI-M
		6010B-NE493 Ch 2	JTM	1	PAN
		EPA 6010D	SMB	9	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	JLR	17	PASI-M
		EPA 8260D	SB2	9	PASI-M
		EPA 7199	SET	1	PAN
		EPA 9045D	KRB	1	PAN
		EPA 9050	NTG	1	PAN
		Calculated	JTM	1	PAN
10679675003	**Well 35-4 WH @ 7'**	EPA 8015D Modified	TT2	4	PASI-M
		EPA 8015D	TM2	2	PASI-M
		6010B-NE493 Ch 2	JTM	1	PAN
		EPA 6010D	SMB	9	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	JLR	17	PASI-M
		EPA 8260D	SB2	9	PASI-M
		EPA 7199	SET	1	PAN
		EPA 9045D	KRB	1	PAN
		EPA 9050	NTG	1	PAN
		Calculated	JTM	1	PAN
10679675004	**Well 35-4 Stockpile**	EPA 8015D Modified	TT2	4	PASI-M
		EPA 8015D	TM2	2	PASI-M
		6010B-NE493 Ch 2	JTM	1	PAN
		EPA 6010D	SMB	9	PASI-M

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SAMPLE ANALYTE COUNT

Project: 281818 WPWT
Pace Project No.: 10679675

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	JLR	17	PASI-M
		EPA 8260D	SB2	9	PASI-M
		EPA 7199	SET	1	PAN
		EPA 9045D	KRB	1	PAN
		EPA 9050	NTG	1	PAN
		Calculated	JTM	1	PAN

PAN = Pace National - Mt. Juliet
PASI-M = Pace Analytical Services - Minneapolis

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ANALYTICAL RESULTS

Project: 281818 WPWT
Pace Project No.: 10679675

Sample: Well 35-4 Background **Lab ID: 10679675001** Collected: 12/19/23 14:00 Received: 12/21/23 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
8015D GCS THC-Diesel Microwave	Analytical Method: EPA 8015D Modified Preparation Method: EPA 3546 Microwave Pace Analytical Services - Minneapolis							
Motor Oil Range (C24-C36)	**54.5**	mg/kg	10.5	1	12/22/23 12:14	12/26/23 20:23		M1,N2
TPH-DRO (C10-C28)	**14.3**	mg/kg	10.5	1	12/22/23 12:14	12/26/23 20:23		
Surrogates								
o-Terphenyl (S)	100	%.	70-130	1	12/22/23 12:14	12/26/23 20:23	84-15-1	
n-Triacontane (S)	111	%.	70-130	1	12/22/23 12:14	12/26/23 20:23		
8015D GCV GRO	Analytical Method: EPA 8015D Preparation Method: EPA 5030 Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	mg/kg	2.6	1	12/22/23 17:07	12/22/23 19:20		
Surrogates								
a,a,a-Trifluorotoluene (S)	118	%.	75-125	1	12/22/23 17:07	12/22/23 19:20	98-08-8	
Metals (ICP) 6010B-NE493 Ch 2	Analytical Method: 6010B-NE493 Ch 2 Preparation Method: HWS Boron Pace National - Mt. Juliet							
Boron, Hot Water Soluble	**486**	ug/L	200	1	12/28/23 10:41	12/28/23 21:34	7440-42-8H	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**5.3**	mg/kg	0.96	1	12/27/23 11:09	12/29/23 11:56	7440-38-2	
Barium	**123**	mg/kg	0.48	1	12/27/23 11:09	12/29/23 11:56	7440-39-3	M1
Cadmium	**0.76**	mg/kg	0.14	1	12/27/23 11:09	12/29/23 11:56	7440-43-9	
Copper	**12.9**	mg/kg	0.48	1	12/27/23 11:09	12/29/23 11:56	7440-50-8	
Lead	**10.4**	mg/kg	0.48	1	12/27/23 11:09	12/29/23 11:56	7439-92-1	
Nickel	**13.7**	mg/kg	0.96	1	12/27/23 11:09	12/29/23 11:56	7440-02-0	
Selenium	ND	mg/kg	0.96	1	12/27/23 11:09	12/29/23 11:56	7782-49-2	
Silver	ND	mg/kg	0.48	1	12/27/23 11:09	12/29/23 11:56	7440-22-4	
Zinc	**44.7**	mg/kg	1.9	1	12/27/23 11:09	12/29/23 11:56	7440-66-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**5.1**	%	0.10	1		12/26/23 09:55		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Minneapolis							
Acenaphthene	ND	ug/kg	10.5	1	12/22/23 13:35	12/28/23 20:05	83-32-9	
Anthracene	ND	ug/kg	10.5	1	12/22/23 13:35	12/28/23 20:05	120-12-7	
Benzo(a)anthracene	ND	ug/kg	10.5	1	12/22/23 13:35	12/28/23 20:05	56-55-3	
Benzo(a)pyrene	ND	ug/kg	10.5	1	12/22/23 13:35	12/28/23 20:05	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	10.5	1	12/22/23 13:35	12/28/23 20:05	205-99-2	
Benzo(k)fluoranthene	ND	ug/kg	10.5	1	12/22/23 13:35	12/28/23 20:05	207-08-9	
Chrysene	ND	ug/kg	10.5	1	12/22/23 13:35	12/28/23 20:05	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	10.5	1	12/22/23 13:35	12/28/23 20:05	53-70-3	
Fluoranthene	ND	ug/kg	10.5	1	12/22/23 13:35	12/28/23 20:05	206-44-0	
Fluorene	ND	ug/kg	10.5	1	12/22/23 13:35	12/28/23 20:05	86-73-7	

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ANALYTICAL RESULTS

Project: 281818 WPWT
Pace Project No.: 10679675

Sample: Well 35-4 Background **Lab ID: 10679675001** Collected: 12/19/23 14:00 Received: 12/21/23 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
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546							
	Pace Analytical Services - Minneapolis							
Indeno(1,2,3-cd)pyrene	ND	ug/kg	10.5	1	12/22/23 13:35	12/28/23 20:05	193-39-5	
1-Methylnaphthalene	ND	ug/kg	10.5	1	12/22/23 13:35	12/28/23 20:05	90-12-0	
2-Methylnaphthalene	ND	ug/kg	10.5	1	12/22/23 13:35	12/28/23 20:05	91-57-6	
Naphthalene	ND	ug/kg	10.5	1	12/22/23 13:35	12/28/23 20:05	91-20-3	
Pyrene	ND	ug/kg	10.5	1	12/22/23 13:35	12/28/23 20:05	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	73	%.	54-125	1	12/22/23 13:35	12/28/23 20:05	321-60-8	
p-Terphenyl-d14 (S)	91	%.	60-125	1	12/22/23 13:35	12/28/23 20:05	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B							
	Pace Analytical Services - Minneapolis							
Benzene	ND	ug/kg	10.1	1	12/26/23 11:03	12/26/23 21:00	71-43-2	
Ethylbenzene	ND	ug/kg	25.3	1	12/26/23 11:03	12/26/23 21:00	100-41-4	
Toluene	ND	ug/kg	25.3	1	12/26/23 11:03	12/26/23 21:00	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/kg	25.3	1	12/26/23 11:03	12/26/23 21:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	25.3	1	12/26/23 11:03	12/26/23 21:00	108-67-8	
Xylene (Total)	ND	ug/kg	75.8	1	12/26/23 11:03	12/26/23 21:00	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%.	75-125	1	12/26/23 11:03	12/26/23 21:00	460-00-4	
Toluene-d8 (S)	101	%.	75-125	1	12/26/23 11:03	12/26/23 21:00	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1	12/26/23 11:03	12/26/23 21:00	2199-69-1	
Wet Chemistry 7199	Analytical Method: EPA 7199 Preparation Method: 3060A							
	Pace National - Mt. Juliet							
Chromium, Hexavalent	ND	mg/kg	1.00	1	12/28/23 01:34	12/28/23 15:25		
Wet Chemistry 9045D	Analytical Method: EPA 9045D Preparation Method: 9045C/9045D							
	Pace National - Mt. Juliet							
pH	**7.56**	Std. Units		1	12/30/23 14:00	12/30/23 17:00		H3
Wet Chemistry 9050AMod	Analytical Method: EPA 9050 Preparation Method: 9050A							
	Pace National - Mt. Juliet							
Specific Conductance	**1520**	umhos/cm	10.0	1	12/28/23 12:30	12/29/23 18:23		
Calculated Results	Analytical Method: Calculated Preparation Method: Calc							
	Pace National - Mt. Juliet							
Sodium Adsorption Ratio	**0.103**			1	12/29/23 23:18	12/29/23 23:18		

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ANALYTICAL RESULTS

Project: 281818 WPWT
Pace Project No.: 10679675

Sample: Well 35-4 Flowline End **Lab ID: 10679675002** Collected: 12/19/23 14:10 Received: 12/21/23 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
8015D GCS THC-Diesel Microwave	Analytical Method: EPA 8015D Modified Preparation Method: EPA 3546 Microwave Pace Analytical Services - Minneapolis							
Motor Oil Range (C24-C36)	**44.9**	mg/kg	11.3	1	12/22/23 12:14	12/26/23 20:56		N2
TPH-DRO (C10-C28)	**14.1**	mg/kg	11.3	1	12/22/23 12:14	12/26/23 20:56		
Surrogates								
o-Terphenyl (S)	100	%.	70-130	1	12/22/23 12:14	12/26/23 20:56	84-15-1	
n-Triacontane (S)	103	%.	70-130	1	12/22/23 12:14	12/26/23 20:56		
8015D GCV GRO	Analytical Method: EPA 8015D Preparation Method: EPA 5030 Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	mg/kg	2.8	1	12/22/23 17:07	12/22/23 20:24		
Surrogates								
a,a,a-Trifluorotoluene (S)	115	%.	75-125	1	12/22/23 17:07	12/22/23 20:24	98-08-8	
Metals (ICP) 6010B-NE493 Ch 2	Analytical Method: 6010B-NE493 Ch 2 Preparation Method: HWS Boron Pace National - Mt. Juliet							
Boron, Hot Water Soluble	**436**	ug/L	200	1	12/28/23 10:41	12/28/23 21:37	7440-42-8H	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**5.5**	mg/kg	1.1	1	12/27/23 11:09	12/29/23 12:08	7440-38-2	
Barium	**125**	mg/kg	0.54	1	12/27/23 11:09	12/29/23 12:08	7440-39-3	
Cadmium	**0.73**	mg/kg	0.16	1	12/27/23 11:09	12/29/23 12:08	7440-43-9	
Copper	**12.4**	mg/kg	0.54	1	12/27/23 11:09	12/29/23 12:08	7440-50-8	
Lead	**11.1**	mg/kg	0.54	1	12/27/23 11:09	12/29/23 12:08	7439-92-1	
Nickel	**13.7**	mg/kg	1.1	1	12/27/23 11:09	12/29/23 12:08	7440-02-0	
Selenium	ND	mg/kg	1.1	1	12/27/23 11:09	12/29/23 12:08	7782-49-2	
Silver	ND	mg/kg	0.54	1	12/27/23 11:09	12/29/23 12:08	7440-22-4	
Zinc	**43.7**	mg/kg	2.2	1	12/27/23 11:09	12/29/23 12:08	7440-66-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**13.4**	%	0.10	1		12/26/23 09:56		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Minneapolis							
Acenaphthene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:09	83-32-9	
Anthracene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:09	120-12-7	
Benzo(a)anthracene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:09	56-55-3	
Benzo(a)pyrene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:09	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:09	205-99-2	
Benzo(k)fluoranthene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:09	207-08-9	
Chrysene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:09	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:09	53-70-3	
Fluoranthene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:09	206-44-0	
Fluorene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:09	86-73-7	

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ANALYTICAL RESULTS

Project: 281818 WPWT
Pace Project No.: 10679675

Sample: Well 35-4 Flowline End **Lab ID: 10679675002** Collected: 12/19/23 14:10 Received: 12/21/23 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
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546							
	Pace Analytical Services - Minneapolis							
Indeno(1,2,3-cd)pyrene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:09	193-39-5	
1-Methylnaphthalene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:09	90-12-0	
2-Methylnaphthalene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:09	91-57-6	
Naphthalene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:09	91-20-3	
Pyrene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:09	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	74	%.	54-125	1	12/22/23 13:35	12/28/23 21:09	321-60-8	
p-Terphenyl-d14 (S)	87	%.	60-125	1	12/22/23 13:35	12/28/23 21:09	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B							
	Pace Analytical Services - Minneapolis							
Benzene	ND	ug/kg	13.1	1	12/26/23 11:03	12/26/23 22:39	71-43-2	
Ethylbenzene	ND	ug/kg	32.8	1	12/26/23 11:03	12/26/23 22:39	100-41-4	
Toluene	ND	ug/kg	32.8	1	12/26/23 11:03	12/26/23 22:39	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/kg	32.8	1	12/26/23 11:03	12/26/23 22:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	32.8	1	12/26/23 11:03	12/26/23 22:39	108-67-8	
Xylene (Total)	ND	ug/kg	98.4	1	12/26/23 11:03	12/26/23 22:39	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%.	75-125	1	12/26/23 11:03	12/26/23 22:39	460-00-4	
Toluene-d8 (S)	100	%.	75-125	1	12/26/23 11:03	12/26/23 22:39	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1	12/26/23 11:03	12/26/23 22:39	2199-69-1	
Wet Chemistry 7199	Analytical Method: EPA 7199 Preparation Method: 3060A							
	Pace National - Mt. Juliet							
Chromium, Hexavalent	ND	mg/kg	1.00	1	12/28/23 01:34	12/28/23 15:31		
Wet Chemistry 9045D	Analytical Method: EPA 9045D Preparation Method: 9045C/9045D							
	Pace National - Mt. Juliet							
pH	**7.82**	Std. Units		1	12/30/23 14:00	12/30/23 17:00		H3
Wet Chemistry 9050AMod	Analytical Method: EPA 9050 Preparation Method: 9050A							
	Pace National - Mt. Juliet							
Specific Conductance	**294**	umhos/cm	10.0	1	12/28/23 12:30	12/29/23 18:23		
Calculated Results	Analytical Method: Calculated Preparation Method: Calc							
	Pace National - Mt. Juliet							
Sodium Adsorption Ratio	**0.396**			1	12/29/23 22:58	12/29/23 22:58		

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ANALYTICAL RESULTS

Project: 281818 WPWT
Pace Project No.: 10679675

Sample: Well 35-4 WH @ 7' **Lab ID: 10679675003** Collected: 12/19/23 14:20 Received: 12/21/23 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
8015D GCS THC-Diesel Microwave	Analytical Method: EPA 8015D Modified Preparation Method: EPA 3546 Microwave Pace Analytical Services - Minneapolis							
Motor Oil Range (C24-C36)	ND	mg/kg	11.6	1	12/22/23 12:14	12/26/23 21:07		N2
TPH-DRO (C10-C28)	ND	mg/kg	11.6	1	12/22/23 12:14	12/26/23 21:07		
Surrogates								
o-Terphenyl (S)	97	%.	70-130	1	12/22/23 12:14	12/26/23 21:07	84-15-1	
n-Triacontane (S)	107	%.	70-130	1	12/22/23 12:14	12/26/23 21:07		
8015D GCV GRO	Analytical Method: EPA 8015D Preparation Method: EPA 5030 Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	mg/kg	3.0	1	12/22/23 17:07	12/22/23 20:40		
Surrogates								
a,a,a-Trifluorotoluene (S)	113	%.	75-125	1	12/22/23 17:07	12/22/23 20:40	98-08-8	
Metals (ICP) 6010B-NE493 Ch 2	Analytical Method: 6010B-NE493 Ch 2 Preparation Method: HWS Boron Pace National - Mt. Juliet							
Boron, Hot Water Soluble	**509**	ug/L	200	1	12/28/23 10:41	12/28/23 21:40	7440-42-8H	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**4.8**	mg/kg	1.1	1	12/27/23 11:09	12/29/23 12:10	7440-38-2	
Barium	**150**	mg/kg	0.56	1	12/27/23 11:09	12/29/23 12:10	7440-39-3	
Cadmium	**0.26**	mg/kg	0.17	1	12/27/23 11:09	12/29/23 12:10	7440-43-9	
Copper	**9.0**	mg/kg	0.56	1	12/27/23 11:09	12/29/23 12:10	7440-50-8	
Lead	**6.4**	mg/kg	0.56	1	12/27/23 11:09	12/29/23 12:10	7439-92-1	
Nickel	**10.9**	mg/kg	1.1	1	12/27/23 11:09	12/29/23 12:10	7440-02-0	
Selenium	ND	mg/kg	1.1	1	12/27/23 11:09	12/29/23 12:10	7782-49-2	
Silver	ND	mg/kg	0.56	1	12/27/23 11:09	12/29/23 12:10	7440-22-4	
Zinc	**28.6**	mg/kg	2.2	1	12/27/23 11:09	12/29/23 12:10	7440-66-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.4**	%	0.10	1		12/26/23 09:56		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Minneapolis							
Acenaphthene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:31	83-32-9	
Anthracene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:31	120-12-7	
Benzo(a)anthracene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:31	56-55-3	
Benzo(a)pyrene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:31	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:31	205-99-2	
Benzo(k)fluoranthene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:31	207-08-9	
Chrysene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:31	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:31	53-70-3	
Fluoranthene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:31	206-44-0	
Fluorene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:31	86-73-7	

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(612)607-1700

ANALYTICAL RESULTS

Project: 281818 WPWT
Pace Project No.: 10679675

Sample: Well 35-4 WH @ 7' **Lab ID: 10679675003** Collected: 12/19/23 14:20 Received: 12/21/23 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
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546							
	Pace Analytical Services - Minneapolis							
Indeno(1,2,3-cd)pyrene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:31	193-39-5	
1-Methylnaphthalene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:31	90-12-0	
2-Methylnaphthalene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:31	91-57-6	
Naphthalene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:31	91-20-3	
Pyrene	ND	ug/kg	11.5	1	12/22/23 13:35	12/28/23 21:31	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	78	%.	54-125	1	12/22/23 13:35	12/28/23 21:31	321-60-8	
p-Terphenyl-d14 (S)	90	%.	60-125	1	12/22/23 13:35	12/28/23 21:31	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B							
	Pace Analytical Services - Minneapolis							
Benzene	ND	ug/kg	10.6	1	12/26/23 11:03	12/26/23 22:55	71-43-2	
Ethylbenzene	ND	ug/kg	26.6	1	12/26/23 11:03	12/26/23 22:55	100-41-4	
Toluene	ND	ug/kg	26.6	1	12/26/23 11:03	12/26/23 22:55	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/kg	26.6	1	12/26/23 11:03	12/26/23 22:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	26.6	1	12/26/23 11:03	12/26/23 22:55	108-67-8	
Xylene (Total)	ND	ug/kg	79.8	1	12/26/23 11:03	12/26/23 22:55	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%.	75-125	1	12/26/23 11:03	12/26/23 22:55	460-00-4	
Toluene-d8 (S)	101	%.	75-125	1	12/26/23 11:03	12/26/23 22:55	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1	12/26/23 11:03	12/26/23 22:55	2199-69-1	
Wet Chemistry 7199	Analytical Method: EPA 7199 Preparation Method: 3060A							
	Pace National - Mt. Juliet							
Chromium, Hexavalent	ND	mg/kg	1.00	1	12/28/23 01:34	12/28/23 15:50		
Wet Chemistry 9045D	Analytical Method: EPA 9045D Preparation Method: 9045C/9045D							
	Pace National - Mt. Juliet							
pH	**7.87**	Std. Units		1	12/30/23 14:00	12/30/23 17:00		H3
Wet Chemistry 9050AMod	Analytical Method: EPA 9050 Preparation Method: 9050A							
	Pace National - Mt. Juliet							
Specific Conductance	**760**	umhos/cm	10.0	1	12/28/23 12:30	12/29/23 18:23		
Calculated Results	Analytical Method: Calculated Preparation Method: Calc							
	Pace National - Mt. Juliet							
Sodium Adsorption Ratio	**1.05**			1	12/29/23 23:10	12/29/23 23:10		

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ANALYTICAL RESULTS

Project: 281818 WPWT
Pace Project No.: 10679675

Sample: Well 35-4 Stockpile **Lab ID: 10679675004** Collected: 12/19/23 14:30 Received: 12/21/23 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
8015D GCS THC-Diesel Microwave	Analytical Method: EPA 8015D Modified Preparation Method: EPA 3546 Microwave Pace Analytical Services - Minneapolis							
Motor Oil Range (C24-C36)	**229**	mg/kg	11.3	1	12/22/23 12:14	12/26/23 20:12		N2
TPH-DRO (C10-C28)	**66.7**	mg/kg	11.3	1	12/22/23 12:14	12/26/23 20:12		
Surrogates								
o-Terphenyl (S)	100	%.	70-130	1	12/22/23 12:14	12/26/23 20:12	84-15-1	
n-Triacontane (S)	104	%.	70-130	1	12/22/23 12:14	12/26/23 20:12		
8015D GCV GRO	Analytical Method: EPA 8015D Preparation Method: EPA 5030 Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	mg/kg	2.8	1	12/22/23 17:07	12/22/23 20:56		
Surrogates								
a,a,a-Trifluorotoluene (S)	114	%.	75-125	1	12/22/23 17:07	12/22/23 20:56	98-08-8	
Metals (ICP) 6010B-NE493 Ch 2	Analytical Method: 6010B-NE493 Ch 2 Preparation Method: HWS Boron Pace National - Mt. Juliet							
Boron, Hot Water Soluble	**524**	ug/L	200	1	12/28/23 10:41	12/28/23 21:42	7440-42-8H	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**4.8**	mg/kg	1.1	1	12/27/23 11:09	12/29/23 12:11	7440-38-2	
Barium	**124**	mg/kg	0.54	1	12/27/23 11:09	12/29/23 12:11	7440-39-3	
Cadmium	**0.63**	mg/kg	0.16	1	12/27/23 11:09	12/29/23 12:11	7440-43-9	
Copper	**11.8**	mg/kg	0.54	1	12/27/23 11:09	12/29/23 12:11	7440-50-8	
Lead	**11.2**	mg/kg	0.54	1	12/27/23 11:09	12/29/23 12:11	7439-92-1	
Nickel	**12.2**	mg/kg	1.1	1	12/27/23 11:09	12/29/23 12:11	7440-02-0	
Selenium	ND	mg/kg	1.1	1	12/27/23 11:09	12/29/23 12:11	7782-49-2	
Silver	ND	mg/kg	0.54	1	12/27/23 11:09	12/29/23 12:11	7440-22-4	
Zinc	**41.4**	mg/kg	2.2	1	12/27/23 11:09	12/29/23 12:11	7440-66-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.6**	%	0.10	1		12/26/23 09:56		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Minneapolis							
Acenaphthene	ND	ug/kg	11.3	1	12/22/23 13:35	12/28/23 21:52	83-32-9	
Anthracene	ND	ug/kg	11.3	1	12/22/23 13:35	12/28/23 21:52	120-12-7	
Benzo(a)anthracene	ND	ug/kg	11.3	1	12/22/23 13:35	12/28/23 21:52	56-55-3	
Benzo(a)pyrene	ND	ug/kg	11.3	1	12/22/23 13:35	12/28/23 21:52	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	11.3	1	12/22/23 13:35	12/28/23 21:52	205-99-2	
Benzo(k)fluoranthene	ND	ug/kg	11.3	1	12/22/23 13:35	12/28/23 21:52	207-08-9	
Chrysene	ND	ug/kg	11.3	1	12/22/23 13:35	12/28/23 21:52	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.3	1	12/22/23 13:35	12/28/23 21:52	53-70-3	
Fluoranthene	ND	ug/kg	11.3	1	12/22/23 13:35	12/28/23 21:52	206-44-0	
Fluorene	ND	ug/kg	11.3	1	12/22/23 13:35	12/28/23 21:52	86-73-7	

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ANALYTICAL RESULTS

Project: 281818 WPWT
Pace Project No.: 10679675

Sample: Well 35-4 Stockpile **Lab ID: 10679675004** Collected: 12/19/23 14:30 Received: 12/21/23 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
8270E MSSV PAH by SIM	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	12/22/23 13:35	12/28/23 21:52	193-39-5	
1-Methylnaphthalene	ND	ug/kg	11.3	1	12/22/23 13:35	12/28/23 21:52	90-12-0	
2-Methylnaphthalene	ND	ug/kg	11.3	1	12/22/23 13:35	12/28/23 21:52	91-57-6	
Naphthalene	ND	ug/kg	11.3	1	12/22/23 13:35	12/28/23 21:52	91-20-3	
Pyrene	ND	ug/kg	11.3	1	12/22/23 13:35	12/28/23 21:52	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	80	%.	54-125	1	12/22/23 13:35	12/28/23 21:52	321-60-8	
p-Terphenyl-d14 (S)	90	%.	60-125	1	12/22/23 13:35	12/28/23 21:52	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B							
	Pace Analytical Services - Minneapolis							
Benzene	ND	ug/kg	10.4	1	12/26/23 11:03	12/26/23 22:06	71-43-2	
Ethylbenzene	ND	ug/kg	25.9	1	12/26/23 11:03	12/26/23 22:06	100-41-4	
Toluene	ND	ug/kg	25.9	1	12/26/23 11:03	12/26/23 22:06	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/kg	25.9	1	12/26/23 11:03	12/26/23 22:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	25.9	1	12/26/23 11:03	12/26/23 22:06	108-67-8	
Xylene (Total)	ND	ug/kg	77.7	1	12/26/23 11:03	12/26/23 22:06	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%.	75-125	1	12/26/23 11:03	12/26/23 22:06	460-00-4	
Toluene-d8 (S)	100	%.	75-125	1	12/26/23 11:03	12/26/23 22:06	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1	12/26/23 11:03	12/26/23 22:06	2199-69-1	
Wet Chemistry 7199	Analytical Method: EPA 7199 Preparation Method: 3060A							
	Pace National - Mt. Juliet							
Chromium, Hexavalent	ND	mg/kg	1.00	1	12/28/23 01:34	12/28/23 15:56		
Wet Chemistry 9045D	Analytical Method: EPA 9045D Preparation Method: 9045C/9045D							
	Pace National - Mt. Juliet							
pH	**7.76**	Std. Units		1	12/30/23 14:00	12/30/23 17:00		H3
Wet Chemistry 9050AMod	Analytical Method: EPA 9050 Preparation Method: 9050A							
	Pace National - Mt. Juliet							
Specific Conductance	**570**	umhos/cm	10.0	1	12/28/23 12:30	12/29/23 18:23		
Calculated Results	Analytical Method: Calculated Preparation Method: Calc							
	Pace National - Mt. Juliet							
Sodium Adsorption Ratio	**0.390**			1	12/29/23 22:55	12/29/23 22:55		

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QUALITY CONTROL DATA

Project: 281818 WPWT
Pace Project No.: 10679675

QC Batch: 924946
QC Batch Method: EPA 5030
Analysis Method: EPA 8015D
Analysis Description: 8015D GCV GRO Solid
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10679675001, 10679675002, 10679675003, 10679675004

METHOD BLANK: 4858333 Matrix: Solid
Associated Lab Samples: 10679675001, 10679675002, 10679675003, 10679675004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	5.0	12/22/23 19:04	
a,a,a-Trifluorotoluene (S)	%.	119	75-125	12/22/23 19:04	

LABORATORY CONTROL SAMPLE: 4858334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	50	49.5	99	75-125	
a,a,a-Trifluorotoluene (S)	%.			123	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4858335 4858336

Parameter	Units	10679675001 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	26.4	26.4	26.5	26.0	100	98	31-149	2	
a,a,a-Trifluorotoluene (S)	%.						121	119	75-125		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 281818 WPWT
Pace Project No.: 10679675

QC Batch: 2196689
QC Batch Method: HWS Boron
Analysis Method: 6010B-NE493 Ch 2
Analysis Description: Metals (ICP) 6010B-NE493 Ch 2
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10679675001, 10679675002, 10679675003, 10679675004

METHOD BLANK: R4018017-1
Matrix: Solid
Associated Lab Samples: 10679675001, 10679675002, 10679675003, 10679675004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Hot Water Soluble	ug/L	ND	200	12/28/23 21:26	

LABORATORY CONTROL SAMPLE & LCSD: R4018017-2 R4018017-3

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	1180	1170	118	117	80.0-120	0.974	20	

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QUALITY CONTROL DATA

Project: 281818 WPWT
Pace Project No.: 10679675

QC Batch: 924989
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10679675001, 10679675002, 10679675003, 10679675004

METHOD BLANK: 4858780 Matrix: Solid
Associated Lab Samples: 10679675001, 10679675002, 10679675003, 10679675004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.95	12/29/23 11:53	
Barium	mg/kg	ND	0.48	12/29/23 11:53	
Cadmium	mg/kg	ND	0.14	12/29/23 11:53	
Copper	mg/kg	ND	0.48	12/29/23 11:53	
Lead	mg/kg	ND	0.48	12/29/23 11:53	
Nickel	mg/kg	ND	0.95	12/29/23 11:53	
Selenium	mg/kg	ND	0.95	12/29/23 11:53	
Silver	mg/kg	ND	0.48	12/29/23 11:53	
Zinc	mg/kg	ND	1.9	12/29/23 11:53	

LABORATORY CONTROL SAMPLE: 4858781

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	47.6	45.7	96	80-120	
Barium	mg/kg	47.6	49.5	104	80-120	
Cadmium	mg/kg	47.6	50.0	105	80-120	
Copper	mg/kg	47.6	48.7	102	80-120	
Lead	mg/kg	47.6	48.9	103	80-120	
Nickel	mg/kg	47.6	48.4	102	80-120	
Selenium	mg/kg	47.6	44.7	94	80-120	
Silver	mg/kg	23.8	23.2	97	80-120	
Zinc	mg/kg	47.6	48.5	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4858782 4858783

Parameter	Units	10679675001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Arsenic	mg/kg	5.3	49.1	48.2	47.3	46.2	85	85	75-125	2	
Barium	mg/kg	123	49.1	48.2	180	192	116	142	75-125	6	M1
Cadmium	mg/kg	0.76	49.1	48.2	42.9	41.6	86	85	75-125	3	
Copper	mg/kg	12.9	49.1	48.2	60.9	59.7	98	97	75-125	2	
Lead	mg/kg	10.4	49.1	48.2	53.8	50.9	89	84	75-125	6	
Nickel	mg/kg	13.7	49.1	48.2	55.5	54.5	85	85	75-125	2	
Selenium	mg/kg	ND	49.1	48.2	41.6	40.7	84	84	75-125	2	
Silver	mg/kg	ND	24.6	24	22.9	22.2	93	92	75-125	3	
Zinc	mg/kg	44.7	49.1	48.2	88.6	86.4	89	87	75-125	2	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 281818 WPWT
Pace Project No.: 10679675

QC Batch: 925004
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10679675001, 10679675002, 10679675003, 10679675004

SAMPLE DUPLICATE: 4858831

Parameter	Units	10679629001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	14.5	14.8	2	N2

SAMPLE DUPLICATE: 4858832

Parameter	Units	10679640010 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	13.4	13.7	2	N2

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QUALITY CONTROL DATA

Project: 281818 WPWT
Pace Project No.: 10679675

QC Batch: 925055
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV UST
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10679675001, 10679675002, 10679675003, 10679675004

METHOD BLANK: 4858973 Matrix: Solid
Associated Lab Samples: 10679675001, 10679675002, 10679675003, 10679675004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	12/26/23 17:10	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	12/26/23 17:10	
Benzene	ug/kg	ND	20.0	12/26/23 17:10	
Ethylbenzene	ug/kg	ND	50.0	12/26/23 17:10	
Toluene	ug/kg	ND	50.0	12/26/23 17:10	
Xylene (Total)	ug/kg	ND	150	12/26/23 17:10	
1,2-Dichlorobenzene-d4 (S)	%.	100	75-125	12/26/23 17:10	
4-Bromofluorobenzene (S)	%.	100	75-125	12/26/23 17:10	
Toluene-d8 (S)	%.	100	75-125	12/26/23 17:10	

LABORATORY CONTROL SAMPLE & LCSD: 4858974 4858975

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	993	960	99	96	75-134	3	20	
1,3,5-Trimethylbenzene	ug/kg	1000	997	948	100	95	75-132	5	20	
Benzene	ug/kg	1000	945	926	94	93	72-125	2	20	
Ethylbenzene	ug/kg	1000	922	882	92	88	75-130	5	20	
Toluene	ug/kg	1000	948	909	95	91	75-125	4	20	
Xylene (Total)	ug/kg	3000	2860	2780	95	93	75-126	3	20	
1,2-Dichlorobenzene-d4 (S)	%.				100	100	75-125			
4-Bromofluorobenzene (S)	%.				100	100	75-125			
Toluene-d8 (S)	%.				99	100	75-125			

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QUALITY CONTROL DATA

Project: 281818 WPWT
Pace Project No.: 10679675

QC Batch: 924837
QC Batch Method: EPA 3546 Microwave
Analysis Method: EPA 8015D Modified
Analysis Description: 8015D Solid GCSV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10679675001, 10679675002, 10679675003, 10679675004

METHOD BLANK: 4857799 Matrix: Solid
Associated Lab Samples: 10679675001, 10679675002, 10679675003, 10679675004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Motor Oil Range (C24-C36)	mg/kg	ND	10.0	12/26/23 19:50	N2
TPH-DRO (C10-C28)	mg/kg	ND	10.0	12/26/23 19:50	
n-Triacontane (S)	%.	112	70-130	12/26/23 19:50	
o-Terphenyl (S)	%.	102	70-130	12/26/23 19:50	

LABORATORY CONTROL SAMPLE: 4857800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Motor Oil Range (C24-C36)	mg/kg	50	56.1	112	70-130	N2
TPH-DRO (C10-C28)	mg/kg	50	55.7	111	70-130	
n-Triacontane (S)	%.			115	70-130	
o-Terphenyl (S)	%.			106	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4857801 4857802

Parameter	Units	10679675001 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	54.5	52.1	52	129	101	143	90	70-130	24	M1,N2
TPH-DRO (C10-C28)	mg/kg	14.3	52.1	52	70.3	60.8	108	90	70-130	14	
n-Triacontane (S)	%.						106	98	70-130		
o-Terphenyl (S)	%.						104	103	70-130		

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QUALITY CONTROL DATA

Project: 281818 WPWT
Pace Project No.: 10679675

QC Batch: 924842
QC Batch Method: EPA 3546
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E Solid PAH by SIM MSSV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10679675001, 10679675002, 10679675003, 10679675004

METHOD BLANK: 4857813
Matrix: Solid
Associated Lab Samples: 10679675001, 10679675002, 10679675003, 10679675004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	10.0	12/28/23 19:01	
2-Methylnaphthalene	ug/kg	ND	10.0	12/28/23 19:01	
Acenaphthene	ug/kg	ND	10.0	12/28/23 19:01	
Anthracene	ug/kg	ND	10.0	12/28/23 19:01	
Benzo(a)anthracene	ug/kg	ND	10.0	12/28/23 19:01	
Benzo(a)pyrene	ug/kg	ND	10.0	12/28/23 19:01	
Benzo(b)fluoranthene	ug/kg	ND	10.0	12/28/23 19:01	
Benzo(k)fluoranthene	ug/kg	ND	10.0	12/28/23 19:01	
Chrysene	ug/kg	ND	10.0	12/28/23 19:01	
Dibenz(a,h)anthracene	ug/kg	ND	10.0	12/28/23 19:01	
Fluoranthene	ug/kg	ND	10.0	12/28/23 19:01	
Fluorene	ug/kg	ND	10.0	12/28/23 19:01	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	10.0	12/28/23 19:01	
Naphthalene	ug/kg	ND	10.0	12/28/23 19:01	
Pyrene	ug/kg	ND	10.0	12/28/23 19:01	
2-Fluorobiphenyl (S)	%.	78	54-125	12/28/23 19:01	
p-Terphenyl-d14 (S)	%.	92	60-125	12/28/23 19:01	

LABORATORY CONTROL SAMPLE: 4857814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	100	74.5	74	41-125	
2-Methylnaphthalene	ug/kg	100	73.3	73	45-125	
Acenaphthene	ug/kg	100	74.0	74	56-125	
Anthracene	ug/kg	100	83.1	83	59-125	
Benzo(a)anthracene	ug/kg	100	95.7	96	55-125	
Benzo(a)pyrene	ug/kg	100	96.0	96	69-125	
Benzo(b)fluoranthene	ug/kg	100	101	101	54-125	
Benzo(k)fluoranthene	ug/kg	100	94.4	94	65-125	
Chrysene	ug/kg	100	91.9	92	62-125	
Dibenz(a,h)anthracene	ug/kg	100	90.2	90	64-125	
Fluoranthene	ug/kg	100	96.4	96	69-125	
Fluorene	ug/kg	100	82.8	83	61-125	
Indeno(1,2,3-cd)pyrene	ug/kg	100	89.5	90	54-125	
Naphthalene	ug/kg	100	73.2	73	49-125	
Pyrene	ug/kg	100	92.8	93	69-125	
2-Fluorobiphenyl (S)	%.			70	54-125	
p-Terphenyl-d14 (S)	%.			94	60-125	

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QUALITY CONTROL DATA

Project: 281818 WPWT
Pace Project No.: 10679675

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4857815 4857816

Parameter	Units	10679675001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1-Methylnaphthalene	ug/kg	ND	103	104	67.2	70.1	65	68	30-125	4	
2-Methylnaphthalene	ug/kg	ND	103	104	65.6	70.5	64	68	30-150	7	
Acenaphthene	ug/kg	ND	103	104	77.1	77.9	75	75	51-125	1	
Anthracene	ug/kg	ND	103	104	86.2	85.7	84	83	39-136	1	
Benzo(a)anthracene	ug/kg	ND	103	104	93.9	93.2	91	90	30-131	1	
Benzo(a)pyrene	ug/kg	ND	103	104	96.3	96.1	93	93	30-150	0	
Benzo(b)fluoranthene	ug/kg	ND	103	104	100	100	97	97	30-150	0	
Benzo(k)fluoranthene	ug/kg	ND	103	104	93.4	93.0	91	90	41-130	0	
Chrysene	ug/kg	ND	103	104	91.0	89.8	88	87	30-135	1	
Dibenz(a,h)anthracene	ug/kg	ND	103	104	89.0	89.5	86	86	50-129	1	
Fluoranthene	ug/kg	ND	103	104	99.4	100	96	97	30-150	1	
Fluorene	ug/kg	ND	103	104	88.1	85.8	85	83	56-125	3	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	103	104	90.6	89.6	88	86	30-148	1	
Naphthalene	ug/kg	ND	103	104	59.4	67.5	58	65	30-125	13	
Pyrene	ug/kg	ND	103	104	91.3	93.7	89	90	30-150	3	
2-Fluorobiphenyl (S)	%.						66	70	54-125		
p-Terphenyl-d14 (S)	%.						90	90	60-125		

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QUALITY CONTROL DATA

Project: 281818 WPWT
Pace Project No.: 10679675

QC Batch: 2196923
QC Batch Method: 3060A
Analysis Method: EPA 7199
Analysis Description: Wet Chemistry 7199
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10679675001, 10679675002, 10679675003, 10679675004

METHOD BLANK: R4017800-1 Matrix: Solid
Associated Lab Samples: 10679675001, 10679675002, 10679675003, 10679675004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	ND	1.00	12/28/23 13:19	

LABORATORY CONTROL SAMPLE: R4017800-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	10.0	10.9	109	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4017800-3 R4017800-4

Parameter	Units	L1690035-09 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chromium, Hexavalent	mg/kg	3.72	20.0	20.0	23.8	24.8	100	105	75.0-125	4.21	

MATRIX SPIKE SAMPLE: R4017800-5

Parameter	Units	L1690035-09 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	3.72	643	728	113	75.0-125	

SAMPLE DUPLICATE: R4017800-7

Parameter	Units	L1691050-03 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/kg	ND	ND	0.00	

SAMPLE DUPLICATE: R4017800-8

Parameter	Units	L1691465-01 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/kg	0.720	ND	16.4	

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QUALITY CONTROL DATA

Project: 281818 WPWT
Pace Project No.: 10679675

QC Batch: 2198695
QC Batch Method: 9045C/9045D
Analysis Method: EPA 9045D
Analysis Description: Wet Chemistry 9045D
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10679675001, 10679675002, 10679675003, 10679675004

LABORATORY CONTROL SAMPLE: R4018503-1

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

SAMPLE DUPLICATE: R4018503-2

Parameter	Units	L1691214-02 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.72	7.72	0.00	

SAMPLE DUPLICATE: R4018503-3

Parameter	Units	10679675003 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.87	7.87	0.00	

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QUALITY CONTROL DATA

Project: 281818 WPWT
Pace Project No.: 10679675

QC Batch: 2197382
QC Batch Method: 9050A
Analysis Method: EPA 9050
Analysis Description: Wet Chemistry 9050AMod
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10679675001, 10679675002, 10679675003, 10679675004

METHOD BLANK: R4018337-1 Matrix: Solid
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	12/29/23 18:23	

LABORATORY CONTROL SAMPLE: R4018337-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	327	329	101	85.0-115	

SAMPLE DUPLICATE: R4018337-3

Parameter	Units	L1691057-01 Result	Dup Result	RPD	Qualifiers
Specific Conductance	umhos/cm	456	450	1.32	

SAMPLE DUPLICATE: R4018337-4

Parameter	Units	10679675004 Result	Dup Result	RPD	Qualifiers
Specific Conductance	umhos/cm	570	584	2.43	

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QUALITY CONTROL DATA

Project: 281818 WPWT
Pace Project No.: 10679675

QC Batch: 2197382
QC Batch Method: EPA 9050
Analysis Method: EPA 9050
Analysis Description: Wet Chemistry 9050AMod
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10679675001, 10679675002, 10679675003, 10679675004

METHOD BLANK: R4018337-1 Matrix: Solid
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	12/29/23 18:23	

LABORATORY CONTROL SAMPLE: R4018337-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	327	329	101	85.0-115	

SAMPLE DUPLICATE: R4018337-3

Parameter	Units	L1691057-01 Result	Dup Result	RPD	Qualifiers
Specific Conductance	umhos/cm	456	450	1.32	

SAMPLE DUPLICATE: R4018337-4

Parameter	Units	10679675004 Result	Dup Result	RPD	Qualifiers
Specific Conductance	umhos/cm	570	584	2.43	

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QUALIFIERS

Project: 281818 WPWT
Pace Project No.: 10679675

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.

SAMPLE QUALIFIERS

Sample: 10679675001

[1] Wet Chemistry by Method 9045D - 7.56 at 19.5C

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

Sample: 10679675002

[1] Wet Chemistry by Method 9045D - 7.82 at 19.5C

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

Sample: 10679675003

[1] Wet Chemistry by Method 9045D - 7.87 at 19.5C

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

Sample: 10679675004

[1] Wet Chemistry by Method 9045D - 7.76 at 19.3C

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

Sample: R4018337-1

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

Sample: R4018337-2

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

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QUALIFIERS

Project: 281818 WPWT
Pace Project No.: 10679675

SAMPLE QUALIFIERS

Sample: R4018337-3
[1] Wet Chemistry by Method 9050AMod - at 25C
Sample: R4018337-4
[1] Wet Chemistry by Method 9050AMod - at 25C
Sample: R4018503-1
[1] Wet Chemistry by Method 9045D - 10 at 19.9C
Sample: R4018503-2
[1] Wet Chemistry by Method 9045D - 7.72 at 19.9C
Sample: R4018503-3
[1] Wet Chemistry by Method 9045D - 7.87 at 19.5C
Sample: L1691057-01
[1] Wet Chemistry by Method 9050AMod - at 25C
Sample: L1691214-02
[1] Wet Chemistry by Method 9045D - 7.72 at 20C

BATCH QUALIFIERS

Batch: 925257
[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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 281818 WPWT
Pace Project No.: 10679675

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10679675001	**Well 35-4 Background**	EPA 3546 Microwave	924837	EPA 8015D Modified	925182
10679675002	**Well 35-4 Flowline End**	EPA 3546 Microwave	924837	EPA 8015D Modified	925182
10679675003	**Well 35-4 WH @ 7'**	EPA 3546 Microwave	924837	EPA 8015D Modified	925182
10679675004	**Well 35-4 Stockpile**	EPA 3546 Microwave	924837	EPA 8015D Modified	925182
10679675001	**Well 35-4 Background**	EPA 5030	924946	EPA 8015D	924953
10679675002	**Well 35-4 Flowline End**	EPA 5030	924946	EPA 8015D	924953
10679675003	**Well 35-4 WH @ 7'**	EPA 5030	924946	EPA 8015D	924953
10679675004	**Well 35-4 Stockpile**	EPA 5030	924946	EPA 8015D	924953
10679675001	**Well 35-4 Background**	HWS Boron	2196689	6010B-NE493 Ch 2	2196689
10679675002	**Well 35-4 Flowline End**	HWS Boron	2196689	6010B-NE493 Ch 2	2196689
10679675003	**Well 35-4 WH @ 7'**	HWS Boron	2196689	6010B-NE493 Ch 2	2196689
10679675004	**Well 35-4 Stockpile**	HWS Boron	2196689	6010B-NE493 Ch 2	2196689
10679675001	**Well 35-4 Background**	EPA 3050B	924989	EPA 6010D	925583
10679675002	**Well 35-4 Flowline End**	EPA 3050B	924989	EPA 6010D	925583
10679675003	**Well 35-4 WH @ 7'**	EPA 3050B	924989	EPA 6010D	925583
10679675004	**Well 35-4 Stockpile**	EPA 3050B	924989	EPA 6010D	925583
10679675001	**Well 35-4 Background**	ASTM D2974	925004		
10679675002	**Well 35-4 Flowline End**	ASTM D2974	925004		
10679675003	**Well 35-4 WH @ 7'**	ASTM D2974	925004		
10679675004	**Well 35-4 Stockpile**	ASTM D2974	925004		
10679675001	**Well 35-4 Background**	EPA 3546	924842	EPA 8270E by SIM	925533
10679675002	**Well 35-4 Flowline End**	EPA 3546	924842	EPA 8270E by SIM	925533
10679675003	**Well 35-4 WH @ 7'**	EPA 3546	924842	EPA 8270E by SIM	925533
10679675004	**Well 35-4 Stockpile**	EPA 3546	924842	EPA 8270E by SIM	925533
10679675001	**Well 35-4 Background**	EPA 5035/5030B	925055	EPA 8260D	925257
10679675002	**Well 35-4 Flowline End**	EPA 5035/5030B	925055	EPA 8260D	925257
10679675003	**Well 35-4 WH @ 7'**	EPA 5035/5030B	925055	EPA 8260D	925257
10679675004	**Well 35-4 Stockpile**	EPA 5035/5030B	925055	EPA 8260D	925257
10679675001	**Well 35-4 Background**	3060A	2196923	EPA 7199	2196923
10679675002	**Well 35-4 Flowline End**	3060A	2196923	EPA 7199	2196923
10679675003	**Well 35-4 WH @ 7'**	3060A	2196923	EPA 7199	2196923
10679675004	**Well 35-4 Stockpile**	3060A	2196923	EPA 7199	2196923
10679675001	**Well 35-4 Background**	9045C/9045D	2198695	EPA 9045D	2198695
10679675002	**Well 35-4 Flowline End**	9045C/9045D	2198695	EPA 9045D	2198695
10679675003	**Well 35-4 WH @ 7'**	9045C/9045D	2198695	EPA 9045D	2198695
10679675004	**Well 35-4 Stockpile**	9045C/9045D	2198695	EPA 9045D	2198695
10679675001	**Well 35-4 Background**	9050A	2197382	EPA 9050	2197382
10679675002	**Well 35-4 Flowline End**	9050A	2197382	EPA 9050	2197382
10679675003	**Well 35-4 WH @ 7'**	9050A	2197382	EPA 9050	2197382
10679675004	**Well 35-4 Stockpile**	9050A	2197382	EPA 9050	2197382
10679675001	**Well 35-4 Background**	Calc	2196682	Calculated	2196682
10679675002	**Well 35-4 Flowline End**	Calc	2196682	Calculated	2196682
10679675003	**Well 35-4 WH @ 7'**	Calc	2196682	Calculated	2196682
10679675004	**Well 35-4 Stockpile**	Calc	2196682	Calculated	2196682

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 281818 WPWT
Pace Project No.: 10679675

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical

Section A Required Client Information:

Company:	Wellington Operating Company
Address:	1590 East County Road 70
	Wellington, CO 80549
Email To:	rgrevans477@gmail.com
Phone: 970-402-0418	Fax: 214-420-3001
Requested Due Date/TAT:	1/15/2024

Section B Required Project Information:

Report To:	Randy Evans
Copy To:	
Purchase Order No.:	WOC-RE-125
Project Name:	WPWT
Project Number:	281818

Section C Invoice Information:

Attention:	ap@Kingoperating.com
Company Name:	AP Wellington Operating Co (WELOP)
Address:	15301 Dalls PKWY; #900 Addison Tx 75001
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ CRA ☐ OTHER COGCC/ECMC

Site Location STATE: Colorado

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to le	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Soil TPH (C6 - C10)	Soil TPH (C10 - C36)	Soil Suitability for Reclamation See Attached List	Organic Compounds in soil See Attached List	Metals in soil See Attached List	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Well 35-4 Background	SL	G			12/19/23	14:00		8	4						4			X	X	X	X	X		001
2	Well 35-4 Flowline End	SL	G			12/19/23	14:10		8	4						4			X	X	X	X	X		002
3	Well 35-4 WH @ 7'	SL	G			12/19/23	14:20		8	4						4			X	X	X	X	X		003
4	Well 35-4 Stockpile	SL	G			12/19/23	14:30		8	4						4			X	X	X	X	X		004
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	WOC/Randy Evans	12/20/23	16:00	FedEX	12/20/23	16:00	5.1 Y Y Y
				Gary Mark 12/21/2	8:30		

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: RANDY EVANS

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/20/23

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

WO#: 10679675

10679675

Sample Condition Upon Receipt

Client Name: Wellington Operating Company

Project #:

WO#: 10679675

PM: Y01 **Due Date: 01/08/24**
CLIENT: Wellington

Courier: [x] FedEx [ ] UPS [ ] USPS [ ] Client [ ] Pace [ ] SpeeDee [ ] Commercial

Tracking Number: 5923 7146 8702 [ ] See Exceptions ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? [x] Yes [ ] No **Seals Intact?** [x] Yes [ ] No **Biological Tissue Frozen?** [ ] Yes [ ] No [x] N/A

Packing Material: [x] Bubble Wrap [ ] Bubble Bags [ ] None [ ] Other **Temp Blank?** [x] Yes [ ] No

Thermometer: [ ] T1 (0461) [ ] T2 (0436) [x] T3 (0459) [ ] T4 (0402) [ ] T5 (0178) [ ] T6 (0235) [ ] T7 (0042) [ ] T8 (0775) [ ] T9(0727) [ ] 01339252/1710

Type of Ice: [x] Wet [ ] Blue [ ] Dry [ ] None [ ] Melted

Did Samples Originate in West Virginia? [ ] Yes [x] No **Were All Container Temps Taken?** [ ] Yes [ ] No [x] N/A

Temp should be above freezing to 6 °C **Cooler temp Read w/Temp Blank:** 4.9 °C

Correction Factor: +0.2 **Cooler Temp Corrected w/temp blank:** 5.1 °C

Average Corrected Temp (no temp blank only): _____ °C
[ ] See Exceptions ENV-FRM-MIN4-0142 [ ] 1 Container

USDA Regulated Soil: ([ ] N/A, water sample/other: _____)

Date/Initials of Person Examining Contents: CRL 12/21/23

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 [x] No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? [ ] Yes [x] 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): [ ] Duluth [x] Minneapolis [ ] Virginia

				COMMENTS
Chain of Custody Present and Filled Out?	[x] Yes	[ ] No		1.
Chain of Custody Relinquished?	[x] Yes	[ ] No		2.
Sampler Name and/or Signature on COC?	[x] Yes	[ ] No	[ ] N/A	3.
Samples Arrived within Hold Time?	[x] Yes	[ ] No		4. If fecal: [ ] <8 hrs [ ] >8 hr, <24 [ ] No
Short Hold Time Analysis (<72 hr)?	[ ] Yes	[x] No		5. [ ] Fecal Coliform [ ] HPC [ ] Total Coliform/E.coli [ ] BOD/cBOD [ ] Hex Chrom [ ] Turbidity [ ] Nitrate [ ] Nitrite [ ] Orthophos [ ] Other _____
Rush Turn Around Time Requested?	[ ] Yes	[x] No		6.
Sufficient Sample Volume?	[x] Yes	[ ] No		7.
Correct Containers Used?	[x] Yes	[ ] No	[ ] N/A	8.
-Pace Containers Used?	[x] Yes	[ ] No		
Containers Intact?	[x] Yes	[ ] No		9.
Field Filtered Volume Received for Dissolved Tests?	[ ] Yes	[ ] No	[x] N/A	10. Is sediment visible in the dissolved container? [ ] Yes [ ] No
Is sufficient information available to reconcile the samples to the COC? Matrix: [ ] Water [x] Soil [ ] Oil [ ] Other	[x] 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 checked?	[ ] Yes	[ ] No	[x] N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	[ ] Yes	[ ] No	[x] N/A	[ ] NaOH [ ] HNO3 [ ] H2SO4 [ ] Zinc Acetate
Exceptions: 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.)	[x] Yes	[ ] No	[ ] N/A	Positive for Residual Chlorine? [ ] Yes [ ] No [ ] 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?	[ ] Yes	[ ] No	[x] N/A	13.
Extra labels present on soil VOA or WIDRO containers?	[ ] Yes	[x] No	[ ] N/A	14. [ ] See Exceptions ENV-FRM-MIN4-0142
Headspace in VOA Vials (greater than 6mm)?	[ ] Yes	[x] No	[ ] N/A	
3 Trip Blanks Present?	[ ] Yes	[ ] No	[x] N/A	15.
Trip Blank Custody Seals Present?	[ ] Yes	[ ] No	[x] 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: Yeng Ozawa **Date:** 12/22/23

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: CRL **Line:** 7

Table 915-1
CLEANUP CONCENTRATIONS

Contaminant of Concern	Concentrations
Soil TPH (total volatile [C_6- C_{10}] and extractable [C_{10} -C_{36}] hydrocarbons)	500mg/kg
Soils and Groundwater - liquid hydrocarbons including condensate and oil	below visual detection limits
Soil Suitability for Reclamation	
Electrical conductivity (EC) (by saturated paste method)[1,2]	<4mmhos/cm
Sodium adsorption ratio (SAR) (by saturated paste method)[1,2,3]	<6
pH (by saturated paste method)[1,2]	6–8.3
boron (hot water soluble soil extract)[1,2,3]	2mg/l
Organic Compounds in Groundwater[4]	
benzene	5µg/l
toluene[5]	560 to 1,000µg/l
ethylbenzene	700µg/l
xylenes (sum of o-, m- and p-isomers = total xylenes)[5]	1,400 to 10,000µg/l
naphthalene	140µg/l
1,2,4-trimethylbenzene	67µg/l
1,3,5-trimethylbenzene	67µg/l
Groundwater Inorganic Parameters[4]	
total dissolved solids (TDS)[1]	<1.25 X local background
chloride ion[1]	250mg/l or <1.25 X local background
sulfate ion[1]	250mg/l or <1.25 X local background

Table 915-1 (continued)

Contaminant of Concern	Concentrations	
	Residential Soil Screening Level Concentrations (mg/kg)[7]	Protection of Groundwater Soil Screening Level Concentrations (mg/kg) Risk Based (R) and MCL Based (M)[7,8]
Organic Compounds in Soils[6,9,10]		
benzene	1.2	0.0026 (M)
toluene	490	0.69 (M)
ethylbenzene	5.8	0.78 (M)
xylenes (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)
Metals in Soils[1,6,9,10,11]		
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

G067

Pace

☐ Rush Multiplier_____X
☐ Samples Pre-Logged into eCOC

State Of Origin: CO
Cert. Needed: ☐ Yes ☐ No

Workorder: 10679675 **Workorder Name:** 281818 WPWT
Owner Received Date: 12/21/2023 **Results Requested By:** 1/8/2024

Report To

Yeng Ozawa
Pace Analytical Minnesota
1700 Elm Street
Minneapolis, MN 55414
Phone (612)607-1700

Subcontract To

Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615) 758-5858

1xJGFU
1xJGCU

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						EC/SAR/pH/HWS Boron	Hex Chrome (VI)											LAB USE ONLY
1	Well 35-4 Background	PS	12/19/2023 14:00	10679675001	Solid	2						X	X											01
2	Well 35-4 Flowline End	PS	12/19/2023 14:10	10679675002	Solid	2						X	X											02
3	Well 35-4 WH @ 7'	PS	12/19/2023 14:20	10679675003	Solid	2						X	X											03
4	Well 35-4 Stockpile	PS	12/19/2023 14:30	10679675004	Solid	2						X	X											04
5																								

L1691269

Transfers	Released By	Date/Time	Received By	Date/Time
1	Grant / Pace 12/22/23	1545	Eri Dawn 17	12-23-23/1000
2				
3				

Comments

Please send JGCU's to Pace National.

Cooler Temperature on Receipt _____ °C | **Custody Seal** Y or N | **Received on Ice** Y or N | **Samples Intact** Y or N

***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: ✓Y__N
COC Signed/Accurate: ✓Y__N
Bottles arrive intact: ✓Y__N
Correct bottles used: ✓Y__N
Sufficient volume sent: ✓Y__N
RA Screen <0.5 mR/hr: ✓Y__N

If Applicable
VOA Zero Headspace: ✓Y__N
Pres. Correct/Check: ✓Y__N

DPAB 3.3+0=3.3
6476 5641 5306