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

January 29, 2024

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

RE: Project: Well 20-3 Closure-Revised Report
Pace Project No.: 10680987

Dear Randy Evans:

Enclosed are the analytical results for sample(s) received by the laboratory on January 11, 2024. 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

This report was revised on January 29, 2024, to include electrical conductivity, sodium adsorption ratio, pH, hot water soluble Boron, hexavalent chromium and metals by 6010D.

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: Well 20-3 Closure-Revised Report
Pace Project No.: 10680987

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: Well 20-3 Closure-Revised Report
Pace Project No.: 10680987

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 Mold Certification #: LAB0152
Texas Certification #: T 104704245-17-14
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: Well 20-3 Closure-Revised Report
Pace Project No.: 10680987

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10680987001	**Well 20-3 Test**	EPA 8015D Modified	TT2	4	PASI-M
		EPA 8015D	TM2	2	PASI-M
		6010B-NE493 Ch 2	DJS	1	PAN
		EPA 6010D	IP	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	VSS	1	PAN
		EPA 9045D	KRB	1	PAN
		EPA 9050	BJM	1	PAN
		Calculated	DJS	1	PAN

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

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ANALYTICAL RESULTS

Project: Well 20-3 Closure-Revised Report
Pace Project No.: 10680987

Sample: Well 20-3 Test **Lab ID: 10680987001** Collected: 01/04/24 14:00 Received: 01/11/24 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)	**98.4**	mg/kg	11.4	1	01/11/24 10:57	01/17/24 12:08		M1,N2, R1
TPH-DRO (C10-C28)	**94.6**	mg/kg	11.4	1	01/11/24 10:57	01/17/24 12:08		M1,R1
Surrogates								
o-Terphenyl (S)	90	%.	30-150	1	01/11/24 10:57	01/17/24 12:08	84-15-1	
n-Triacontane (S)	75	%.	30-150	1	01/11/24 10:57	01/17/24 12:08		
8015D GCV GRO	Analytical Method: EPA 8015D Preparation Method: EPA 5030 Pace Analytical Services - Minneapolis							
Gasoline Range Organics	**3.2**	mg/kg	2.9	1	01/11/24 14:47	01/11/24 16:54		M1
Surrogates								
a,a,a-Trifluorotoluene (S)	119	%.	71-135	1	01/11/24 14:47	01/11/24 16:54	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	**237**	ug/L	200	1	01/27/24 09:50	01/27/24 14:27	7440-42-8H	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**3.0**	mg/kg	1.1	1	01/22/24 13:27	01/23/24 11:32	7440-38-2	
Barium	**56.3**	mg/kg	0.53	1	01/22/24 13:27	01/23/24 11:32	7440-39-3	
Cadmium	ND	mg/kg	0.16	1	01/22/24 13:27	01/23/24 11:32	7440-43-9	
Copper	**5.7**	mg/kg	0.53	1	01/22/24 13:27	01/23/24 11:32	7440-50-8	
Lead	**7.1**	mg/kg	0.53	1	01/22/24 13:27	01/23/24 11:32	7439-92-1	
Nickel	**9.8**	mg/kg	1.1	1	01/22/24 13:27	01/23/24 11:32	7440-02-0	
Selenium	ND	mg/kg	1.1	1	01/22/24 13:27	01/23/24 11:32	7782-49-2	
Silver	ND	mg/kg	0.53	1	01/22/24 13:27	01/23/24 11:32	7440-22-4	
Zinc	**41.7**	mg/kg	2.1	1	01/22/24 13:27	01/23/24 11:32	7440-66-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.6**	%	0.10	1		01/11/24 11:24		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Minneapolis							
Acenaphthene	ND	ug/kg	11.4	1	01/11/24 14:04	01/12/24 16:01	83-32-9	
Anthracene	ND	ug/kg	11.4	1	01/11/24 14:04	01/12/24 16:01	120-12-7	
Benzo(a)anthracene	ND	ug/kg	11.4	1	01/11/24 14:04	01/12/24 16:01	56-55-3	
Benzo(a)pyrene	ND	ug/kg	11.4	1	01/11/24 14:04	01/12/24 16:01	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	11.4	1	01/11/24 14:04	01/12/24 16:01	205-99-2	
Benzo(k)fluoranthene	ND	ug/kg	11.4	1	01/11/24 14:04	01/12/24 16:01	207-08-9	
Chrysene	ND	ug/kg	11.4	1	01/11/24 14:04	01/12/24 16:01	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.4	1	01/11/24 14:04	01/12/24 16:01	53-70-3	
Fluoranthene	ND	ug/kg	11.4	1	01/11/24 14:04	01/12/24 16:01	206-44-0	
Fluorene	**20.8**	ug/kg	11.4	1	01/11/24 14:04	01/12/24 16:01	86-73-7	

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ANALYTICAL RESULTS

Project: Well 20-3 Closure-Revised Report
Pace Project No.: 10680987

Sample: Well 20-3 Test **Lab ID: 10680987001** Collected: 01/04/24 14:00 Received: 01/11/24 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	11.4	1	01/11/24 14:04	01/12/24 16:01	193-39-5	
1-Methylnaphthalene	ND	ug/kg	11.4	1	01/11/24 14:04	01/12/24 16:01	90-12-0	
2-Methylnaphthalene	ND	ug/kg	11.4	1	01/11/24 14:04	01/12/24 16:01	91-57-6	
Naphthalene	ND	ug/kg	11.4	1	01/11/24 14:04	01/12/24 16:01	91-20-3	
Pyrene	ND	ug/kg	11.4	1	01/11/24 14:04	01/12/24 16:01	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	57	%.	48-125	1	01/11/24 14:04	01/12/24 16:01	321-60-8	
p-Terphenyl-d14 (S)	58	%.	51-139	1	01/11/24 14:04	01/12/24 16:01	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B							
	Pace Analytical Services - Minneapolis							
Benzene	ND	ug/kg	13.3	1	01/12/24 12:58	01/12/24 16:26	71-43-2	
Ethylbenzene	ND	ug/kg	33.2	1	01/12/24 12:58	01/12/24 16:26	100-41-4	
Toluene	ND	ug/kg	33.2	1	01/12/24 12:58	01/12/24 16:26	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/kg	33.2	1	01/12/24 12:58	01/12/24 16:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	33.2	1	01/12/24 12:58	01/12/24 16:26	108-67-8	
Xylene (Total)	ND	ug/kg	99.6	1	01/12/24 12:58	01/12/24 16:26	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%.	75-125	1	01/12/24 12:58	01/12/24 16:26	460-00-4	
Toluene-d8 (S)	100	%.	75-125	1	01/12/24 12:58	01/12/24 16:26	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	102	%.	75-125	1	01/12/24 12:58	01/12/24 16:26	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	01/22/24 16:58	01/24/24 02:33		
Wet Chemistry 9045D	Analytical Method: EPA 9045D Preparation Method: 9045C/9045D							
	Pace National - Mt. Juliet							
pH	**8.69**	Std. Units		1	01/23/24 12:22	01/23/24 15:20		H3
Wet Chemistry 9050AMod	Analytical Method: EPA 9050 Preparation Method: 9050A							
	Pace National - Mt. Juliet							
Specific Conductance	**153**	umhos/cm	10.0	1	01/23/24 09:54	01/23/24 15:04		
Calculated Results	Analytical Method: Calculated Preparation Method: Calc							
	Pace National - Mt. Juliet							
Sodium Adsorption Ratio	**2.74**			1	01/28/24 11:51	01/28/24 11:51		

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QUALITY CONTROL DATA

Project: Well 20-3 Closure-Revised Report
Pace Project No.: 10680987

QC Batch: 927188
QC Batch Method: EPA 5030
Analysis Method: EPA 8015D
Analysis Description: 8015D GCV GRO Solid
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10680987001

METHOD BLANK: 4866816 Matrix: Solid
Associated Lab Samples: 10680987001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	5.0	01/11/24 16:38	
a,a,a-Trifluorotoluene (S)	%.	124	71-135	01/11/24 16:38	

LABORATORY CONTROL SAMPLE: 4866817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	50	47.4	95	74-125	
a,a,a-Trifluorotoluene (S)	%.			123	71-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4866818 4866819

Parameter	Units	10680987001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Gasoline Range Organics	mg/kg	3.2	38.3	38.3	54.3	53.4	133	131	42-132	2	M1
a,a,a-Trifluorotoluene (S)	%.						124	123	71-135		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Well 20-3 Closure-Revised Report
Pace Project No.: 10680987

QC Batch: 2213341
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: 10680987001

METHOD BLANK: R4026966-1
Matrix: Solid
Associated Lab Samples: 10680987001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Hot Water Soluble	ug/L	ND	200	01/27/24 14:19	

LABORATORY CONTROL SAMPLE & LCSD: R4026966-2 R4026966-3

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	1020	1060	102	106	80.0-120	4.17	20	

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QUALITY CONTROL DATA

Project: Well 20-3 Closure-Revised Report
Pace Project No.: 10680987

QC Batch: 928280
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10680987001

METHOD BLANK: 4872384
Matrix: Solid
Associated Lab Samples: 10680987001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	01/23/24 11:28	
Barium	mg/kg	ND	0.50	01/23/24 11:28	
Cadmium	mg/kg	ND	0.15	01/23/24 11:28	
Copper	mg/kg	ND	0.50	01/23/24 11:28	
Lead	mg/kg	ND	0.50	01/23/24 11:28	
Nickel	mg/kg	ND	1.0	01/23/24 11:28	
Selenium	mg/kg	ND	1.0	01/23/24 11:28	
Silver	mg/kg	ND	0.50	01/23/24 11:28	
Zinc	mg/kg	ND	2.0	01/23/24 11:28	

LABORATORY CONTROL SAMPLE: 4872385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	48.7	45.7	94	80-120	
Barium	mg/kg	48.7	50.0	103	80-120	
Cadmium	mg/kg	48.7	48.9	100	80-120	
Copper	mg/kg	48.7	47.8	98	80-120	
Lead	mg/kg	48.7	48.3	99	80-120	
Nickel	mg/kg	48.7	48.4	99	80-120	
Selenium	mg/kg	48.7	44.8	92	80-120	
Silver	mg/kg	24.4	23.4	96	80-120	
Zinc	mg/kg	48.7	47.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4872386 4872387

Parameter	Units	10680987001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Arsenic	mg/kg	3.0	55.6	54.9	48.3	47.3	81	81	75-125	2	
Barium	mg/kg	56.3	55.6	54.9	104	104	85	88	75-125	1	
Cadmium	mg/kg	ND	55.6	54.9	47.1	46.3	85	84	75-125	2	
Copper	mg/kg	5.7	55.6	54.9	55.7	54.4	90	89	75-125	2	
Lead	mg/kg	7.1	55.6	54.9	53.4	52.4	83	83	75-125	2	
Nickel	mg/kg	9.8	55.6	54.9	55.9	54.7	83	82	75-125	2	
Selenium	mg/kg	ND	55.6	54.9	44.9	43.7	81	80	75-125	3	
Silver	mg/kg	ND	27.8	27.5	24.1	23.6	87	86	75-125	2	
Zinc	mg/kg	41.7	55.6	54.9	87.2	85.3	82	79	75-125	2	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Well 20-3 Closure-Revised Report
Pace Project No.: 10680987

QC Batch: 927120
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: 10680987001

SAMPLE DUPLICATE: 4866462

Parameter	Units	10680987001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	12.6	12.5	1	N2

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QUALITY CONTROL DATA

Project: Well 20-3 Closure-Revised Report
Pace Project No.: 10680987

QC Batch: 927321
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV UST
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10680987001

METHOD BLANK: 4867630 Matrix: Solid
Associated Lab Samples: 10680987001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	01/12/24 16:09	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	01/12/24 16:09	
Benzene	ug/kg	ND	20.0	01/12/24 16:09	
Ethylbenzene	ug/kg	ND	50.0	01/12/24 16:09	
Toluene	ug/kg	ND	50.0	01/12/24 16:09	
Xylene (Total)	ug/kg	ND	150	01/12/24 16:09	
1,2-Dichlorobenzene-d4 (S)	%.	101	75-125	01/12/24 16:09	
4-Bromofluorobenzene (S)	%.	99	75-125	01/12/24 16:09	
Toluene-d8 (S)	%.	100	75-125	01/12/24 16:09	

LABORATORY CONTROL SAMPLE & LCSD: 4867631 4867632

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	1010	971	101	97	66-129	4	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1050	979	105	98	66-129	7	20	
Benzene	ug/kg	1000	1010	984	101	98	75-125	3	20	
Ethylbenzene	ug/kg	1000	973	928	97	93	70-125	5	20	
Toluene	ug/kg	1000	1020	967	102	97	72-125	5	20	
Xylene (Total)	ug/kg	3000	3040	2940	101	98	70-125	3	20	
1,2-Dichlorobenzene-d4 (S)	%.				99	101	75-125			
4-Bromofluorobenzene (S)	%.				100	99	75-125			
Toluene-d8 (S)	%.				101	101	75-125			

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Well 20-3 Closure-Revised Report
Pace Project No.: 10680987

QC Batch: 927119
QC Batch Method: EPA 3546 Microwave
Analysis Method: EPA 8015D Modified
Analysis Description: 8015D Solid GCSV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10680987001

METHOD BLANK: 4866457 Matrix: Solid
Associated Lab Samples: 10680987001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Motor Oil Range (C24-C36)	mg/kg	ND	10.0	01/17/24 11:45	N2
TPH-DRO (C10-C28)	mg/kg	ND	10.0	01/17/24 11:45	
n-Triacontane (S)	%.	93	30-150	01/17/24 11:45	
o-Terphenyl (S)	%.	85	30-150	01/17/24 11:45	

LABORATORY CONTROL SAMPLE: 4866458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Motor Oil Range (C24-C36)	mg/kg	50	49.8	100	73-125	N2
TPH-DRO (C10-C28)	mg/kg	50	46.4	93	66-125	
n-Triacontane (S)	%.			98	30-150	
o-Terphenyl (S)	%.			91	30-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4866459 4866460

Parameter	Units	10680987001 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	98.4	56.6	55.6	253	144	273	81	30-150	55	M1,N2,R1
TPH-DRO (C10-C28)	mg/kg	94.6	56.6	55.6	250	138	274	78	30-150	58	M1,R1
n-Triacontane (S)	%.						77	76	30-150		
o-Terphenyl (S)	%.						100	92	30-150		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Well 20-3 Closure-Revised Report
Pace Project No.: 10680987

QC Batch: 927114
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: 10680987001

METHOD BLANK: 4866432
Matrix: Solid
Associated Lab Samples: 10680987001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	10.0	01/12/24 13:11	
2-Methylnaphthalene	ug/kg	ND	10.0	01/12/24 13:11	
Acenaphthene	ug/kg	ND	10.0	01/12/24 13:11	
Anthracene	ug/kg	ND	10.0	01/12/24 13:11	
Benzo(a)anthracene	ug/kg	ND	10.0	01/12/24 13:11	
Benzo(a)pyrene	ug/kg	ND	10.0	01/12/24 13:11	
Benzo(b)fluoranthene	ug/kg	ND	10.0	01/12/24 13:11	
Benzo(k)fluoranthene	ug/kg	ND	10.0	01/12/24 13:11	
Chrysene	ug/kg	ND	10.0	01/12/24 13:11	
Dibenz(a,h)anthracene	ug/kg	ND	10.0	01/12/24 13:11	
Fluoranthene	ug/kg	ND	10.0	01/12/24 13:11	
Fluorene	ug/kg	ND	10.0	01/12/24 13:11	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	10.0	01/12/24 13:11	
Naphthalene	ug/kg	ND	10.0	01/12/24 13:11	
Pyrene	ug/kg	ND	10.0	01/12/24 13:11	
2-Fluorobiphenyl (S)	%.	76	48-125	01/12/24 13:11	
p-Terphenyl-d14 (S)	%.	82	51-139	01/12/24 13:11	

LABORATORY CONTROL SAMPLE: 4866433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	100	78.3	78	36-125	
2-Methylnaphthalene	ug/kg	100	77.0	77	33-125	
Acenaphthene	ug/kg	100	78.5	78	45-125	
Anthracene	ug/kg	100	83.8	84	59-125	
Benzo(a)anthracene	ug/kg	100	87.5	87	66-125	
Benzo(a)pyrene	ug/kg	100	84.8	85	65-125	
Benzo(b)fluoranthene	ug/kg	100	88.3	88	61-125	
Benzo(k)fluoranthene	ug/kg	100	82.1	82	65-125	
Chrysene	ug/kg	100	79.6	80	63-125	
Dibenz(a,h)anthracene	ug/kg	100	84.1	84	63-125	
Fluoranthene	ug/kg	100	80.2	80	62-125	
Fluorene	ug/kg	100	79.3	79	51-125	
Indeno(1,2,3-cd)pyrene	ug/kg	100	86.9	87	61-125	
Naphthalene	ug/kg	100	77.1	77	37-125	
Pyrene	ug/kg	100	90.1	90	65-125	
2-Fluorobiphenyl (S)	%.			76	48-125	
p-Terphenyl-d14 (S)	%.			85	51-139	

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QUALITY CONTROL DATA

Project: Well 20-3 Closure-Revised Report
Pace Project No.: 10680987

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4866434 4866435

Parameter	Units	10680923002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1-Methylnaphthalene	ug/kg	ND	108	108	82.2	82.4	76	76	30-125	0	
2-Methylnaphthalene	ug/kg	ND	108	108	80.9	80.5	75	75	30-125	0	
Acenaphthene	ug/kg	ND	108	108	88.4	85.2	82	79	30-131	4	
Anthracene	ug/kg	ND	108	108	95.9	97.9	89	91	35-131	2	
Benzo(a)anthracene	ug/kg	16.6	108	108	126	122	102	98	30-150	3	
Benzo(a)pyrene	ug/kg	19.2	108	108	128	123	101	96	30-148	4	
Benzo(b)fluoranthene	ug/kg	24.7	108	108	143	132	110	100	30-150	8	
Benzo(k)fluoranthene	ug/kg	ND	108	108	103	101	95	93	30-150	2	
Chrysene	ug/kg	24.2	108	108	125	120	93	89	30-150	4	
Dibenz(a,h)anthracene	ug/kg	ND	108	108	97.7	95.2	90	88	50-125	3	
Fluoranthene	ug/kg	29.9	108	108	151	148	112	110	30-150	2	
Fluorene	ug/kg	ND	108	108	87.0	85.5	81	79	35-128	2	
Indeno(1,2,3-cd)pyrene	ug/kg	14.6	108	108	128	123	105	100	30-150	4	
Naphthalene	ug/kg	ND	108	108	80.4	81.0	74	75	30-125	1	
Pyrene	ug/kg	31.4	108	108	159	155	118	115	30-150	2	
2-Fluorobiphenyl (S)	%.						77	76	48-125		
p-Terphenyl-d14 (S)	%.						80	80	51-139		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Well 20-3 Closure-Revised Report
Pace Project No.: 10680987

QC Batch: 2209357
QC Batch Method: 3060A
Analysis Method: EPA 7199
Analysis Description: Wet Chemistry 7199
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10680987001

METHOD BLANK: R4025556-1 Matrix: Solid
Associated Lab Samples: 10680987001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	ND	1.00	01/23/24 22:42	

LABORATORY CONTROL SAMPLE: R4025556-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	10.0	11.0	110	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4025556-4 R4025556-5

Parameter	Units	L1696462-03 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	2.35	1.52	11.8	7.58	75.0-125	43.3	ML,R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4025556-10 R4025556-11

Parameter	Units	L1697312-01 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	20.6	16.1	103	80.3	75.0-125	24.8	R1

MATRIX SPIKE SAMPLE: R4025556-6

Parameter	Units	L1696462-03 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	ND	636	521	81.9	75.0-125	

MATRIX SPIKE SAMPLE: R4025556-12

Parameter	Units	L1697312-01 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	ND	641	558	87.0	75.0-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Well 20-3 Closure-Revised Report
Pace Project No.: 10680987

SAMPLE DUPLICATE: R4025556-7

Parameter	Units	L1696949-01 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/kg	ND	ND	0.00	

SAMPLE DUPLICATE: R4025556-8

Parameter	Units	L1697092-01 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/kg	ND	ND	0.00	

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QUALITY CONTROL DATA

Project: Well 20-3 Closure-Revised Report
Pace Project No.: 10680987

QC Batch: 2211208
QC Batch Method: 9045C/9045D
Analysis Method: EPA 9045D
Analysis Description: Wet Chemistry 9045D
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 10680987001

LABORATORY CONTROL SAMPLE: R4025452-1

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

SAMPLE DUPLICATE: R4025452-2

Parameter	Units	L1694638-02 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	5.91	5.88	0.509	

SAMPLE DUPLICATE: R4025452-3

Parameter	Units	L1697291-04 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	8.49	8.47	0.236	

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QUALITY CONTROL DATA

Project: Well 20-3 Closure-Revised Report
Pace Project No.: 10680987

QC Batch: 2210054
QC Batch Method: 9050A
Analysis Method: EPA 9050
Analysis Description: Wet Chemistry 9050AMod
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10680987001

METHOD BLANK: R4025430-1 Matrix: Solid
Associated Lab Samples: 10680987001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	01/23/24 15:04	

LABORATORY CONTROL SAMPLE: R4025430-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	327	336	103	85.0-115	

SAMPLE DUPLICATE: R4025430-3

Parameter	Units	L1696372-05 Result	Dup Result	RPD	Qualifiers
Specific Conductance	umhos/cm	266	268	0.824	

SAMPLE DUPLICATE: R4025430-4

Parameter	Units	L1697291-04 Result	Dup Result	RPD	Qualifiers
Specific Conductance	umhos/cm	311	312	0.321	

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QUALIFIERS

Project: Well 20-3 Closure-Revised Report
Pace Project No.: 10680987

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: 10680987

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

SAMPLE QUALIFIERS

Sample: 10680987001

[1] Wet Chemistry by Method 9045D - 8.69 at 21.2C

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

Sample: R4025430-1

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

Sample: R4025430-2

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

Sample: R4025430-3

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

Sample: R4025430-4

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

Sample: R4025452-1

[1] Wet Chemistry by Method 9045D - 10.01 at 19.7C

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QUALIFIERS

Project: Well 20-3 Closure-Revised Report
Pace Project No.: 10680987

SAMPLE QUALIFIERS

Sample: R4025452-2
[1] Wet Chemistry by Method 9045D - 5.88 at 21.3C
Sample: R4025452-3
[1] Wet Chemistry by Method 9045D - 8.47 at 21.2C
Sample: L1694638-02
[1] Wet Chemistry by Method 9045D - 5.91 at 21.5C
Sample: L1696372-05
[1] Wet Chemistry by Method 9050AMod - at 25C
Sample: L1697291-04
[1] Wet Chemistry by Method 9045D - 8.49 at 21.3C
[1] Wet Chemistry by Method 9050AMod - at 25C

BATCH QUALIFIERS

Batch: 927449
[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.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Well 20-3 Closure-Revised Report
Pace Project No.: 10680987

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10680987001	**Well 20-3 Test**	EPA 3546 Microwave	927119	EPA 8015D Modified	927860
10680987001	**Well 20-3 Test**	EPA 5030	927188	EPA 8015D	927201
10680987001	**Well 20-3 Test**	HWS Boron	2213341	6010B-NE493 Ch 2	2213341
10680987001	**Well 20-3 Test**	EPA 3050B	928280	EPA 6010D	928555
10680987001	**Well 20-3 Test**	ASTM D2974	927120		
10680987001	**Well 20-3 Test**	EPA 3546	927114	EPA 8270E by SIM	927333
10680987001	**Well 20-3 Test**	EPA 5035/5030B	927321	EPA 8260D	927449
10680987001	**Well 20-3 Test**	3060A	2209357	EPA 7199	2209357
10680987001	**Well 20-3 Test**	9045C/9045D	2211208	EPA 9045D	2211208
10680987001	**Well 20-3 Test**	9050A	2210054	EPA 9050	2210054
10680987001	**Well 20-3 Test**	Calc	2213334	Calculated	2213334

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Pace® Location Requested (City/State):

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 10680987

10680987

Company Name:	Wellington Operating Company	Contact/Report To:	Randy Evans
Street Address:	1590 East County Road 70 Wellington Colorado 80549	Phone #:	970-402-0418
		E-Mail:	rgrevans477@gmail.com
		Cc E-Mail:	
Customer Project #:	Well 20-3 Closure		
Project Name:	Well 20-3 Closure	Invoice To:	Accounts Payable
		Invoice E-Mail:	AP@Kingoperating.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WOC-RE-130
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [X] MT [ ] CT [ ] ET

County / State origin of sample(s): Larimer/Colorado

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: COGCC/ECMC

Reportable [X] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [X] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: 3 | 4 | 6

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

Identify Container Preservative Type***: 1 | 1 | 10

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: / AcctNum / Client ID: / Table #: / Profile / Template: / Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Soil TPH (C6 - C10)	Soil TPH (C10 - C36)	Organic Compounds in soil See Attached List	Sample Comment	Preservation non-conformance identified for sample.
Well 20-3 Test	Soil	Grab			1/4/2024	14:00	8			X	X	X		

Additional Instructions from Pace®:

Collected By: (Printed Name) Randy Evans

Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
1	T2	10.5	+3 10.6	+3	Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Randy Evans/WOC	1/10/2024 16:00	FedEx	1/10/2024 16:00
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature) Pace	Date/Time: 1/12/24 850
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [✓] FedEx [ ] UPS [ ] Other

Page: 1 of 1

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Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

DC#_Title: ENV-FRM-MIN4-0150 v13_Sample Condition Upon Receipt (SCUR)
Effective Date: 4/14/2023

Sample Condition Upon Receipt

Client Name: Wellington Operating Co

Project #: WO#: 10680987
PM: Y01 Due Date: 01/25/24
CLIENT: Wellington

Courier: ☑ FedEx ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial

Tracking Number: 5405 1824 8757 ☐ 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) ☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ T9(0727) ☐ 01339252/1710

Type of Ice: ☑ Wet ☐ Blue ☐ Dry ☐ None ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☑ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6 °C **Cooler temp Read w/Temp Blank:** 16.3 °C

Correction Factor: +13 **Cooler Temp Corrected w/temp blank:** 10.6 °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:** 11/24.MS

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): ☐ Duluth ☑ Minneapolis ☐ Virginia

				COMMENTS
Chain of Custody Present and Filled Out?	☑ Yes	☐ No		1.
Chain of Custody Relinquished?	☑ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	3.
Samples Arrived within Hold Time?	☑ Yes	☐ No		4. If fecal: ☐ <8 hrs ☐ >8 hr, <24 ☐ No
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E.coli ☐ BOD/cBOD ☐ Hex Chrom ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☑ Yes	☐ No		6. 2 day
Sufficient Sample Volume?	☑ Yes	☐ No		7.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	8.
-Pace Containers Used?	☑ Yes	☐ No		
Containers Intact?	☑ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ 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 ☑ Soil ☐ Oil ☐ Other	☑ 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	☑ 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	☑ 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.)	☐ 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	☑ N/A	13.
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☑ No	☐ N/A	14. ☐ See Exceptions ENV-FRM-MIN4-0142
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☑ N/A	
3 Trip Blanks Present?	☐ Yes	☑ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: Notified client on OOT samples. Additional tests added EC/SAR/pH/HWS Boron, Hex Chrome VI and 6010 on 1/19/24-table attached (okay to proceed out of hold).

Project Manager Review: Yeng Ozawa **Date:** 1/11/24

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: MS **Line:** 11

Pace ANALYTICAL SERVICES	**DC#_Title: ENV-FRM-MIN4-0142 v02_Sample Condition Upon Receipt (SCUR) Exception Form**
	Effective Date: 09/22/2022

Workorder #: _____

No Temp Blank		
Read Temp	**Corrected Temp**	**Average temp**

PM Notified of Out of Temp Cooler? ☑ Yes ☐ No

If yes, indicate who was contacted, date and time.
If no, indicate reason why.

Y01 11/24 931

Multiple Cooler Project? ☐ Yes ☑ No

If anything is OVER 6.0° C, you MUST document containers in this section HERE

Tracking Number	Temperature

Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition?		Initials
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	

Comments:

_____

_____

_____

Table 915-1 (continued)

Contaminant of Concern	Concentrations	
	Residential Soil Screening Level Concentrations (mg/kg)	Protection of Groundwater Soil Screening Level Concentrations (mg/kg) Risk Based (R) and MCL Based (M) [8]
Organic Compounds in Soils [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 [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)

Additional Tests to be added 1/19/24. YO1 1/19/24

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	
Metals in Soils[1,6,9,10,12]		
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

☐ Rush Multiplier_____X
☐ Samples Pre-Logged into eCOC

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

Workorder: 10680987 **Workorder Name:** Well 20-3 Closure
Owner Received Date: 1/11/2024 **Results Requested By:** 1/17/2024

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

Requested Analysis

JGCU + JGFU

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 20-3 Test	PS	1/4/2024 14:00	10680987001	Solid	2						X	X											0000 -01
2																								
3																								
4																								
5																								

Transfers	Released By	Date/Time	Received By	Date/Time
1	Bri Cook / PACE	1/19/24 15:00	Dan Hoan	1/19/24 1700
2				
3				

Comments

Please send both the JGFU and JGCU 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

TLA8 0.5 + 0 = 0.5
6476 5641 8967