

BONNELL ALUMINUM, INC.

POST CLOSURE CARE PERMIT RENEWAL APPLICATION

MARCH 29, 2024

APPENDIX 4-K

**NON-SWMU RELATED LABORATORY ANALYTICAL REPORTS
(2014-2023)**

January 11, 2023

Janette Courtney
Bonnell Aluminum
25 Bonnell Street
Newnan, GA 30263

RE: Project: Soil Investigation
Pace Project No.: 92644526

Dear Janette Courtney:

Enclosed are the analytical results for sample(s) received by the laboratory on December 30, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Charlotte

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

Sincerely,



Nikita Kuruganty
nikita.kuruganty@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Tony Englund, Wood E&I Solutions, Inc. - Kennesaw
Michael LaPrade, WOOD E&I
Ronishia Moncrief, Bonnell Aluminum Inc
Greg Wrenn, WOOD E&I



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Soil Investigation

Pace Project No.: 92644526

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Soil Investigation

Pace Project No.: 92644526

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92644526001	SB2-1222-10'-21'	Solid	12/28/22 14:30	12/30/22 10:05
92644526002	SB2-1222-20'-22'	Solid	12/28/22 14:35	12/30/22 10:05
92644526003	SB3-1222-13'-15'	Solid	12/28/22 15:25	12/30/22 10:05
92644526004	SB3-1222-21'-23'	Solid	12/28/22 15:35	12/30/22 10:05
92644526005	SB4-1222-8'-10'	Solid	12/28/22 16:20	12/30/22 10:05
92644526006	SB4-1222-13'-15'	Solid	12/28/22 16:30	12/30/22 10:05
92644526007	SB5-1222-10'-12'	Solid	12/28/22 17:10	12/30/22 10:05
92644526008	SB5-1222-16'-18'	Solid	12/28/22 17:20	12/30/22 10:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Soil Investigation

Pace Project No.: 92644526

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92644526001	SB2-1222-10'-21'	EPA 8015C	HH	2
		EPA 8270E	SEM	21
		SW-846	KDF	1
92644526002	SB2-1222-20'-22'	EPA 8015C	HH	2
		EPA 8270E	SEM	21
		SW-846	KDF	1
92644526003	SB3-1222-13'-15'	EPA 8015C	HH	2
		EPA 8270E	SEM	21
		SW-846	KDF	1
92644526004	SB3-1222-21'-23'	EPA 8015C	HH	2
		EPA 8270E	SEM	21
		SW-846	KDF	1
92644526005	SB4-1222-8'-10'	EPA 8015C	HH	2
		EPA 8270E	SEM	21
		SW-846	KDF	1
92644526006	SB4-1222-13'-15'	EPA 8015C	HH	2
		EPA 8270E	SEM	21
		SW-846	KDF	1
92644526007	SB5-1222-10'-12'	EPA 8015C	HH	2
		EPA 8270E	SEM	21
		SW-846	KDF	1
92644526008	SB5-1222-16'-18'	EPA 8015C	HH	2
		EPA 8270E	SEM	21
		SW-846	KDF	1

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Soil Investigation

Pace Project No.: 92644526

Sample: SB2-1222-10'-21' **Lab ID:** 92644526001 **Collected:** 12/28/22 14:30 **Received:** 12/30/22 10:05 **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
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	5.8	1	01/03/23 13:23	01/04/23 12:54		
Surrogates								
n-Pentacosane (S)	82	%	10-130	1	01/03/23 13:23	01/04/23 12:54	629-99-2	
8270E MSSV PAH Microwave								
Analytical Method: EPA 8270E Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Acenaphthene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 13:16	83-32-9	
Acenaphthylene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 13:16	208-96-8	
Anthracene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 13:16	120-12-7	
Benzo(a)anthracene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 13:16	56-55-3	
Benzo(a)pyrene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 13:16	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 13:16	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 13:16	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 13:16	207-08-9	
Chrysene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 13:16	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 13:16	53-70-3	
Fluoranthene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 13:16	206-44-0	
Fluorene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 13:16	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 13:16	193-39-5	
1-Methylnaphthalene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 13:16	90-12-0	
2-Methylnaphthalene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 13:16	91-57-6	
Naphthalene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 13:16	91-20-3	
Phenanthrene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 13:16	85-01-8	
Pyrene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 13:16	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	47	%	10-130	1	01/03/23 13:15	01/05/23 13:16	4165-60-0	
2-Fluorobiphenyl (S)	42	%	10-130	1	01/03/23 13:15	01/05/23 13:16	321-60-8	
Terphenyl-d14 (S)	61	%	10-130	1	01/03/23 13:15	01/05/23 13:16	1718-51-0	
Percent Moisture								
Analytical Method: SW-846								
Pace Analytical Services - Charlotte								
Percent Moisture	13.0	%	0.10	1		01/03/23 13:37		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Soil Investigation

Pace Project No.: 92644526

Sample: SB2-1222-20'-22' **Lab ID:** 92644526002 **Collected:** 12/28/22 14:35 **Received:** 12/30/22 10:05 **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
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.2	1	01/03/23 13:23	01/04/23 13:11		
Surrogates								
n-Pentacosane (S)	65	%	10-130	1	01/03/23 13:23	01/04/23 13:11	629-99-2	
8270E MSSV PAH Microwave								
Analytical Method: EPA 8270E Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Acenaphthene	ND	ug/kg	419	1	01/03/23 13:15	01/05/23 13:43	83-32-9	
Acenaphthylene	ND	ug/kg	419	1	01/03/23 13:15	01/05/23 13:43	208-96-8	
Anthracene	ND	ug/kg	419	1	01/03/23 13:15	01/05/23 13:43	120-12-7	
Benzo(a)anthracene	ND	ug/kg	419	1	01/03/23 13:15	01/05/23 13:43	56-55-3	
Benzo(a)pyrene	ND	ug/kg	419	1	01/03/23 13:15	01/05/23 13:43	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	419	1	01/03/23 13:15	01/05/23 13:43	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	419	1	01/03/23 13:15	01/05/23 13:43	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	419	1	01/03/23 13:15	01/05/23 13:43	207-08-9	
Chrysene	ND	ug/kg	419	1	01/03/23 13:15	01/05/23 13:43	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	419	1	01/03/23 13:15	01/05/23 13:43	53-70-3	
Fluoranthene	ND	ug/kg	419	1	01/03/23 13:15	01/05/23 13:43	206-44-0	
Fluorene	ND	ug/kg	419	1	01/03/23 13:15	01/05/23 13:43	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	419	1	01/03/23 13:15	01/05/23 13:43	193-39-5	
1-Methylnaphthalene	ND	ug/kg	419	1	01/03/23 13:15	01/05/23 13:43	90-12-0	
2-Methylnaphthalene	ND	ug/kg	419	1	01/03/23 13:15	01/05/23 13:43	91-57-6	
Naphthalene	ND	ug/kg	419	1	01/03/23 13:15	01/05/23 13:43	91-20-3	
Phenanthrene	ND	ug/kg	419	1	01/03/23 13:15	01/05/23 13:43	85-01-8	
Pyrene	ND	ug/kg	419	1	01/03/23 13:15	01/05/23 13:43	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	57	%	10-130	1	01/03/23 13:15	01/05/23 13:43	4165-60-0	
2-Fluorobiphenyl (S)	52	%	10-130	1	01/03/23 13:15	01/05/23 13:43	321-60-8	
Terphenyl-d14 (S)	65	%	10-130	1	01/03/23 13:15	01/05/23 13:43	1718-51-0	
Percent Moisture								
Analytical Method: SW-846								
Pace Analytical Services - Charlotte								
Percent Moisture	20.5	%	0.10	1		01/03/23 13:37		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Soil Investigation
Pace Project No.: 92644526

Sample: SB3-1222-13'-15' **Lab ID: 92644526003** Collected: 12/28/22 15:25 Received: 12/30/22 10:05 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
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	5.8	1	01/03/23 13:23	01/04/23 13:11		
Surrogates								
n-Pentacosane (S)	74	%	10-130	1	01/03/23 13:23	01/04/23 13:11	629-99-2	
8270E MSSV PAH Microwave								
Analytical Method: EPA 8270E Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Acenaphthene	ND	ug/kg	377	1	01/03/23 13:15	01/05/23 14:11	83-32-9	
Acenaphthylene	ND	ug/kg	377	1	01/03/23 13:15	01/05/23 14:11	208-96-8	
Anthracene	ND	ug/kg	377	1	01/03/23 13:15	01/05/23 14:11	120-12-7	
Benzo(a)anthracene	ND	ug/kg	377	1	01/03/23 13:15	01/05/23 14:11	56-55-3	
Benzo(a)pyrene	ND	ug/kg	377	1	01/03/23 13:15	01/05/23 14:11	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	377	1	01/03/23 13:15	01/05/23 14:11	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	377	1	01/03/23 13:15	01/05/23 14:11	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	377	1	01/03/23 13:15	01/05/23 14:11	207-08-9	
Chrysene	ND	ug/kg	377	1	01/03/23 13:15	01/05/23 14:11	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	377	1	01/03/23 13:15	01/05/23 14:11	53-70-3	
Fluoranthene	ND	ug/kg	377	1	01/03/23 13:15	01/05/23 14:11	206-44-0	
Fluorene	ND	ug/kg	377	1	01/03/23 13:15	01/05/23 14:11	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	377	1	01/03/23 13:15	01/05/23 14:11	193-39-5	
1-Methylnaphthalene	ND	ug/kg	377	1	01/03/23 13:15	01/05/23 14:11	90-12-0	
2-Methylnaphthalene	ND	ug/kg	377	1	01/03/23 13:15	01/05/23 14:11	91-57-6	
Naphthalene	ND	ug/kg	377	1	01/03/23 13:15	01/05/23 14:11	91-20-3	
Phenanthrene	ND	ug/kg	377	1	01/03/23 13:15	01/05/23 14:11	85-01-8	
Pyrene	ND	ug/kg	377	1	01/03/23 13:15	01/05/23 14:11	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	49	%	10-130	1	01/03/23 13:15	01/05/23 14:11	4165-60-0	
2-Fluorobiphenyl (S)	44	%	10-130	1	01/03/23 13:15	01/05/23 14:11	321-60-8	
Terphenyl-d14 (S)	53	%	10-130	1	01/03/23 13:15	01/05/23 14:11	1718-51-0	
Percent Moisture								
Analytical Method: SW-846								
Pace Analytical Services - Charlotte								
Percent Moisture	12.2	%	0.10	1		01/03/23 13:38		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Soil Investigation
Pace Project No.: 92644526

Sample: SB3-1222-21'-23' **Lab ID: 92644526004** Collected: 12/28/22 15:35 Received: 12/30/22 10:05 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
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.6	1	01/03/23 13:23	01/04/23 13:27		
Surrogates								
n-Pentacosane (S)	78	%	10-130	1	01/03/23 13:23	01/04/23 13:27	629-99-2	
8270E MSSV PAH Microwave								
Analytical Method: EPA 8270E Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Acenaphthene	ND	ug/kg	438	1	01/03/23 13:15	01/05/23 14:38	83-32-9	
Acenaphthylene	ND	ug/kg	438	1	01/03/23 13:15	01/05/23 14:38	208-96-8	
Anthracene	ND	ug/kg	438	1	01/03/23 13:15	01/05/23 14:38	120-12-7	
Benzo(a)anthracene	ND	ug/kg	438	1	01/03/23 13:15	01/05/23 14:38	56-55-3	
Benzo(a)pyrene	ND	ug/kg	438	1	01/03/23 13:15	01/05/23 14:38	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	438	1	01/03/23 13:15	01/05/23 14:38	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	438	1	01/03/23 13:15	01/05/23 14:38	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	438	1	01/03/23 13:15	01/05/23 14:38	207-08-9	
Chrysene	ND	ug/kg	438	1	01/03/23 13:15	01/05/23 14:38	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	438	1	01/03/23 13:15	01/05/23 14:38	53-70-3	
Fluoranthene	ND	ug/kg	438	1	01/03/23 13:15	01/05/23 14:38	206-44-0	
Fluorene	ND	ug/kg	438	1	01/03/23 13:15	01/05/23 14:38	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	438	1	01/03/23 13:15	01/05/23 14:38	193-39-5	
1-Methylnaphthalene	ND	ug/kg	438	1	01/03/23 13:15	01/05/23 14:38	90-12-0	
2-Methylnaphthalene	ND	ug/kg	438	1	01/03/23 13:15	01/05/23 14:38	91-57-6	
Naphthalene	ND	ug/kg	438	1	01/03/23 13:15	01/05/23 14:38	91-20-3	
Phenanthrene	ND	ug/kg	438	1	01/03/23 13:15	01/05/23 14:38	85-01-8	
Pyrene	ND	ug/kg	438	1	01/03/23 13:15	01/05/23 14:38	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	54	%	10-130	1	01/03/23 13:15	01/05/23 14:38	4165-60-0	
2-Fluorobiphenyl (S)	48	%	10-130	1	01/03/23 13:15	01/05/23 14:38	321-60-8	
Terphenyl-d14 (S)	60	%	10-130	1	01/03/23 13:15	01/05/23 14:38	1718-51-0	
Percent Moisture								
Analytical Method: SW-846								
Pace Analytical Services - Charlotte								
Percent Moisture	23.6	%	0.10	1		01/03/23 13:38		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Soil Investigation
Pace Project No.: 92644526

Sample: SB4-1222-8'-10' **Lab ID: 92644526005** Collected: 12/28/22 16:20 Received: 12/30/22 10:05 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
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	5.7	1	01/03/23 13:23	01/04/23 13:44		
Surrogates								
n-Pentacosane (S)	84	%	10-130	1	01/03/23 13:23	01/04/23 13:44	629-99-2	
8270E MSSV PAH Microwave								
Analytical Method: EPA 8270E Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Acenaphthene	ND	ug/kg	368	1	01/03/23 13:15	01/05/23 15:06	83-32-9	
Acenaphthylene	ND	ug/kg	368	1	01/03/23 13:15	01/05/23 15:06	208-96-8	
Anthracene	ND	ug/kg	368	1	01/03/23 13:15	01/05/23 15:06	120-12-7	
Benzo(a)anthracene	ND	ug/kg	368	1	01/03/23 13:15	01/05/23 15:06	56-55-3	
Benzo(a)pyrene	ND	ug/kg	368	1	01/03/23 13:15	01/05/23 15:06	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	368	1	01/03/23 13:15	01/05/23 15:06	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	368	1	01/03/23 13:15	01/05/23 15:06	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	368	1	01/03/23 13:15	01/05/23 15:06	207-08-9	
Chrysene	ND	ug/kg	368	1	01/03/23 13:15	01/05/23 15:06	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	368	1	01/03/23 13:15	01/05/23 15:06	53-70-3	
Fluoranthene	ND	ug/kg	368	1	01/03/23 13:15	01/05/23 15:06	206-44-0	
Fluorene	ND	ug/kg	368	1	01/03/23 13:15	01/05/23 15:06	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	368	1	01/03/23 13:15	01/05/23 15:06	193-39-5	
1-Methylnaphthalene	ND	ug/kg	368	1	01/03/23 13:15	01/05/23 15:06	90-12-0	
2-Methylnaphthalene	ND	ug/kg	368	1	01/03/23 13:15	01/05/23 15:06	91-57-6	
Naphthalene	ND	ug/kg	368	1	01/03/23 13:15	01/05/23 15:06	91-20-3	
Phenanthrene	ND	ug/kg	368	1	01/03/23 13:15	01/05/23 15:06	85-01-8	
Pyrene	ND	ug/kg	368	1	01/03/23 13:15	01/05/23 15:06	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	50	%	10-130	1	01/03/23 13:15	01/05/23 15:06	4165-60-0	
2-Fluorobiphenyl (S)	45	%	10-130	1	01/03/23 13:15	01/05/23 15:06	321-60-8	
Terphenyl-d14 (S)	59	%	10-130	1	01/03/23 13:15	01/05/23 15:06	1718-51-0	
Percent Moisture								
Analytical Method: SW-846								
Pace Analytical Services - Charlotte								
Percent Moisture	11.3	%	0.10	1		01/03/23 13:38		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Soil Investigation
Pace Project No.: 92644526

Sample: SB4-1222-13'-15' **Lab ID: 92644526006** Collected: 12/28/22 16:30 Received: 12/30/22 10:05 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
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	5.6	1	01/03/23 13:23	01/04/23 13:44		
Surrogates								
n-Pentacosane (S)	75	%	10-130	1	01/03/23 13:23	01/04/23 13:44	629-99-2	
8270E MSSV PAH Microwave								
Analytical Method: EPA 8270E Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Acenaphthene	ND	ug/kg	374	1	01/03/23 13:15	01/05/23 15:33	83-32-9	
Acenaphthylene	ND	ug/kg	374	1	01/03/23 13:15	01/05/23 15:33	208-96-8	
Anthracene	ND	ug/kg	374	1	01/03/23 13:15	01/05/23 15:33	120-12-7	
Benzo(a)anthracene	ND	ug/kg	374	1	01/03/23 13:15	01/05/23 15:33	56-55-3	
Benzo(a)pyrene	ND	ug/kg	374	1	01/03/23 13:15	01/05/23 15:33	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	374	1	01/03/23 13:15	01/05/23 15:33	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	374	1	01/03/23 13:15	01/05/23 15:33	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	374	1	01/03/23 13:15	01/05/23 15:33	207-08-9	
Chrysene	ND	ug/kg	374	1	01/03/23 13:15	01/05/23 15:33	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	374	1	01/03/23 13:15	01/05/23 15:33	53-70-3	
Fluoranthene	ND	ug/kg	374	1	01/03/23 13:15	01/05/23 15:33	206-44-0	
Fluorene	ND	ug/kg	374	1	01/03/23 13:15	01/05/23 15:33	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	374	1	01/03/23 13:15	01/05/23 15:33	193-39-5	
1-Methylnaphthalene	ND	ug/kg	374	1	01/03/23 13:15	01/05/23 15:33	90-12-0	
2-Methylnaphthalene	ND	ug/kg	374	1	01/03/23 13:15	01/05/23 15:33	91-57-6	
Naphthalene	ND	ug/kg	374	1	01/03/23 13:15	01/05/23 15:33	91-20-3	
Phenanthrene	ND	ug/kg	374	1	01/03/23 13:15	01/05/23 15:33	85-01-8	
Pyrene	ND	ug/kg	374	1	01/03/23 13:15	01/05/23 15:33	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	37	%	10-130	1	01/03/23 13:15	01/05/23 15:33	4165-60-0	
2-Fluorobiphenyl (S)	33	%	10-130	1	01/03/23 13:15	01/05/23 15:33	321-60-8	
Terphenyl-d14 (S)	54	%	10-130	1	01/03/23 13:15	01/05/23 15:33	1718-51-0	
Percent Moisture								
Analytical Method: SW-846								
Pace Analytical Services - Charlotte								
Percent Moisture	12.4	%	0.10	1		01/03/23 13:38		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Soil Investigation
Pace Project No.: 92644526

Sample: SB5-1222-10'-12' **Lab ID: 92644526007** Collected: 12/28/22 17:10 Received: 12/30/22 10:05 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
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	7.8	1	01/03/23 13:23	01/04/23 14:00		
Surrogates								
n-Pentacosane (S)	86	%	10-130	1	01/03/23 13:23	01/04/23 14:00	629-99-2	
8270E MSSV PAH Microwave								
Analytical Method: EPA 8270E Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Acenaphthene	ND	ug/kg	513	1	01/03/23 13:15	01/05/23 16:01	83-32-9	
Acenaphthylene	ND	ug/kg	513	1	01/03/23 13:15	01/05/23 16:01	208-96-8	
Anthracene	ND	ug/kg	513	1	01/03/23 13:15	01/05/23 16:01	120-12-7	
Benzo(a)anthracene	ND	ug/kg	513	1	01/03/23 13:15	01/05/23 16:01	56-55-3	
Benzo(a)pyrene	ND	ug/kg	513	1	01/03/23 13:15	01/05/23 16:01	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	513	1	01/03/23 13:15	01/05/23 16:01	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	513	1	01/03/23 13:15	01/05/23 16:01	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	513	1	01/03/23 13:15	01/05/23 16:01	207-08-9	
Chrysene	ND	ug/kg	513	1	01/03/23 13:15	01/05/23 16:01	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	513	1	01/03/23 13:15	01/05/23 16:01	53-70-3	
Fluoranthene	ND	ug/kg	513	1	01/03/23 13:15	01/05/23 16:01	206-44-0	
Fluorene	ND	ug/kg	513	1	01/03/23 13:15	01/05/23 16:01	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	513	1	01/03/23 13:15	01/05/23 16:01	193-39-5	
1-Methylnaphthalene	ND	ug/kg	513	1	01/03/23 13:15	01/05/23 16:01	90-12-0	
2-Methylnaphthalene	ND	ug/kg	513	1	01/03/23 13:15	01/05/23 16:01	91-57-6	
Naphthalene	ND	ug/kg	513	1	01/03/23 13:15	01/05/23 16:01	91-20-3	
Phenanthrene	ND	ug/kg	513	1	01/03/23 13:15	01/05/23 16:01	85-01-8	
Pyrene	ND	ug/kg	513	1	01/03/23 13:15	01/05/23 16:01	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	45	%	10-130	1	01/03/23 13:15	01/05/23 16:01	4165-60-0	
2-Fluorobiphenyl (S)	40	%	10-130	1	01/03/23 13:15	01/05/23 16:01	321-60-8	
Terphenyl-d14 (S)	58	%	10-130	1	01/03/23 13:15	01/05/23 16:01	1718-51-0	
Percent Moisture								
Analytical Method: SW-846								
Pace Analytical Services - Charlotte								
Percent Moisture	36.4	%	0.10	1		01/03/23 13:38		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Soil Investigation
Pace Project No.: 92644526

Sample: SB5-1222-16'-18' **Lab ID: 92644526008** Collected: 12/28/22 17:20 Received: 12/30/22 10:05 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
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	5.7	1	01/03/23 13:23	01/04/23 14:00		
Surrogates								
n-Pentacosane (S)	77	%	10-130	1	01/03/23 13:23	01/04/23 14:00	629-99-2	
8270E MSSV PAH Microwave								
Analytical Method: EPA 8270E Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Acenaphthene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 16:28	83-32-9	
Acenaphthylene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 16:28	208-96-8	
Anthracene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 16:28	120-12-7	
Benzo(a)anthracene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 16:28	56-55-3	
Benzo(a)pyrene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 16:28	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 16:28	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 16:28	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 16:28	207-08-9	
Chrysene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 16:28	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 16:28	53-70-3	
Fluoranthene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 16:28	206-44-0	
Fluorene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 16:28	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 16:28	193-39-5	
1-Methylnaphthalene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 16:28	90-12-0	
2-Methylnaphthalene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 16:28	91-57-6	
Naphthalene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 16:28	91-20-3	
Phenanthrene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 16:28	85-01-8	
Pyrene	ND	ug/kg	385	1	01/03/23 13:15	01/05/23 16:28	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	53	%	10-130	1	01/03/23 13:15	01/05/23 16:28	4165-60-0	
2-Fluorobiphenyl (S)	44	%	10-130	1	01/03/23 13:15	01/05/23 16:28	321-60-8	
Terphenyl-d14 (S)	59	%	10-130	1	01/03/23 13:15	01/05/23 16:28	1718-51-0	
Percent Moisture								
Analytical Method: SW-846								
Pace Analytical Services - Charlotte								
Percent Moisture	12.8	%	0.10	1		01/03/23 13:38		N2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Soil Investigation

Pace Project No.: 92644526

QC Batch:	746967	Analysis Method:	EPA 8015C
QC Batch Method:	EPA 3546	Analysis Description:	8015 Solid GCSV
		Laboratory:	Pace Analytical Services - Charlotte
Associated Lab Samples:	92644526001, 92644526002, 92644526003, 92644526004, 92644526005, 92644526006, 92644526007, 92644526008		

METHOD BLANK: 3883758

Matrix: Solid

Associated Lab Samples: 92644526001, 92644526002, 92644526003, 92644526004, 92644526005, 92644526006, 92644526007, 92644526008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	5.0	01/04/23 12:38	
n-Pentacosane (S)	%	99	10-130	01/04/23 12:38	

LABORATORY CONTROL SAMPLE: 3883759

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	65.6	56.6	86	44-130	
n-Pentacosane (S)	%			79	10-130	

MATRIX SPIKE SAMPLE: 3883760

Parameter	Units	92644526001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	78	63.9	78	10-130	
n-Pentacosane (S)	%				71	10-130	

SAMPLE DUPLICATE: 3883761

Parameter	Units	92644526003 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	4.7J		30	
n-Pentacosane (S)	%	74	89			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Soil Investigation
Pace Project No.: 92644526

QC Batch:	746969	Analysis Method:	EPA 8270E
QC Batch Method:	EPA 3546	Analysis Description:	8270E Solid MSSV Microwave PAH
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92644526001, 92644526002, 92644526003, 92644526004, 92644526005, 92644526006, 92644526007, 92644526008

METHOD BLANK: 3883763 Matrix: Solid
Associated Lab Samples: 92644526001, 92644526002, 92644526003, 92644526004, 92644526005, 92644526006, 92644526007, 92644526008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	326	01/05/23 07:46	
2-Methylnaphthalene	ug/kg	ND	326	01/05/23 07:46	
Acenaphthene	ug/kg	ND	326	01/05/23 07:46	
Acenaphthylene	ug/kg	ND	326	01/05/23 07:46	
Anthracene	ug/kg	ND	326	01/05/23 07:46	
Benzo(a)anthracene	ug/kg	ND	326	01/05/23 07:46	
Benzo(a)pyrene	ug/kg	ND	326	01/05/23 07:46	
Benzo(b)fluoranthene	ug/kg	ND	326	01/05/23 07:46	
Benzo(g,h,i)perylene	ug/kg	ND	326	01/05/23 07:46	
Benzo(k)fluoranthene	ug/kg	ND	326	01/05/23 07:46	
Chrysene	ug/kg	ND	326	01/05/23 07:46	
Dibenz(a,h)anthracene	ug/kg	ND	326	01/05/23 07:46	
Fluoranthene	ug/kg	ND	326	01/05/23 07:46	
Fluorene	ug/kg	ND	326	01/05/23 07:46	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	326	01/05/23 07:46	
Naphthalene	ug/kg	ND	326	01/05/23 07:46	
Phenanthrene	ug/kg	ND	326	01/05/23 07:46	
Pyrene	ug/kg	ND	326	01/05/23 07:46	
2-Fluorobiphenyl (S)	%	50	10-130	01/05/23 07:46	
Nitrobenzene-d5 (S)	%	53	10-130	01/05/23 07:46	
Terphenyl-d14 (S)	%	62	10-130	01/05/23 07:46	

LABORATORY CONTROL SAMPLE: 3883764

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	1660	1350	82	47-130	
2-Methylnaphthalene	ug/kg	1660	1290	78	47-130	
Acenaphthene	ug/kg	1660	1400	85	49-130	
Acenaphthylene	ug/kg	1660	1400	85	50-130	
Anthracene	ug/kg	1660	1460	88	49-130	
Benzo(a)anthracene	ug/kg	1660	1530	92	51-130	
Benzo(a)pyrene	ug/kg	1660	1560	94	51-130	
Benzo(b)fluoranthene	ug/kg	1660	1610	97	49-130	
Benzo(g,h,i)perylene	ug/kg	1660	1470	89	48-140	
Benzo(k)fluoranthene	ug/kg	1660	1600	97	51-130	
Chrysene	ug/kg	1660	1480	90	51-130	
Dibenz(a,h)anthracene	ug/kg	1660	1440	87	48-130	

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QUALITY CONTROL DATA

Project: Soil Investigation

Pace Project No.: 92644526

LABORATORY CONTROL SAMPLE: 3883764

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoranthene	ug/kg	1660	1630	98	48-130	
Fluorene	ug/kg	1660	1450	88	48-130	
Indeno(1,2,3-cd)pyrene	ug/kg	1660	1510	91	50-130	
Naphthalene	ug/kg	1660	1230	74	46-130	
Phenanthrene	ug/kg	1660	1570	95	50-130	
Pyrene	ug/kg	1660	1530	93	50-130	
2-Fluorobiphenyl (S)	%			64	10-130	
Nitrobenzene-d5 (S)	%			64	10-130	
Terphenyl-d14 (S)	%			74	10-130	

MATRIX SPIKE SAMPLE: 3883765

Parameter	Units	92643882001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	ND	1980	1200	61	19-130	
2-Methylnaphthalene	ug/kg	ND	1980	1150	58	18-130	
Acenaphthene	ug/kg	ND	1980	1390	70	20-130	
Acenaphthylene	ug/kg	ND	1980	1350	68	21-130	
Anthracene	ug/kg	ND	1980	1720	87	19-130	
Benzo(a)anthracene	ug/kg	ND	1980	1860	94	17-130	
Benzo(a)pyrene	ug/kg	ND	1980	1730	87	14-130	
Benzo(b)fluoranthene	ug/kg	ND	1980	1860	94	11-134	
Benzo(g,h,i)perylene	ug/kg	ND	1980	1540	78	12-130	
Benzo(k)fluoranthene	ug/kg	ND	1980	1850	93	15-130	
Chrysene	ug/kg	ND	1980	1770	89	17-130	
Dibenz(a,h)anthracene	ug/kg	ND	1980	1610	82	13-130	
Fluoranthene	ug/kg	ND	1980	2060	104	14-130	
Fluorene	ug/kg	ND	1980	1660	84	19-130	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	1980	1590	80	13-130	
Naphthalene	ug/kg	ND	1980	1080	55	18-130	
Phenanthrene	ug/kg	ND	1980	1870	95	17-130	
Pyrene	ug/kg	ND	1980	1680	85	31-130	
2-Fluorobiphenyl (S)	%				44	10-130	
Nitrobenzene-d5 (S)	%				49	10-130	
Terphenyl-d14 (S)	%				72	10-130	

SAMPLE DUPLICATE: 3883766

Parameter	Units	92643882002 Result	Dup Result	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/kg	ND	ND		30	
2-Methylnaphthalene	ug/kg	ND	ND		30	
Acenaphthene	ug/kg	ND	ND		30	
Acenaphthylene	ug/kg	ND	ND		30	
Anthracene	ug/kg	ND	ND		30	
Benzo(a)anthracene	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: Soil Investigation

Pace Project No.: 92644526

SAMPLE DUPLICATE: 3883766

Parameter	Units	92643882002 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzo(a)pyrene	ug/kg	ND	ND		30	
Benzo(b)fluoranthene	ug/kg	ND	ND		30	
Benzo(g,h,i)perylene	ug/kg	ND	ND		30	
Benzo(k)fluoranthene	ug/kg	ND	ND		30	
Chrysene	ug/kg	ND	ND		30	
Dibenz(a,h)anthracene	ug/kg	ND	ND		30	
Fluoranthene	ug/kg	ND	ND		30	
Fluorene	ug/kg	ND	ND		30	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	ND		30	
Phenanthrene	ug/kg	ND	ND		30	
Pyrene	ug/kg	ND	ND		30	
2-Fluorobiphenyl (S)	%	55	59			
Nitrobenzene-d5 (S)	%	61	66			
Terphenyl-d14 (S)	%	80	93			

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QUALITY CONTROL DATA

Project: Soil Investigation

Pace Project No.: 92644526

QC Batch: 747051

Analysis Method: SW-846

QC Batch Method: SW-846

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92644526001, 92644526002, 92644526003, 92644526004, 92644526005, 92644526006, 92644526007, 92644526008

SAMPLE DUPLICATE: 3884127

Parameter	Units	92643867001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.0	19.2	18	25	N2

SAMPLE DUPLICATE: 3884128

Parameter	Units	92644532003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.7	12.0	3	25	N2

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Soil Investigation

Pace Project No.: 92644526

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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.

ANALYTE QUALIFIERS

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Soil Investigation

Pace Project No.: 92644526

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92644526001	SB2-1222-10'-21'	EPA 3546	746967	EPA 8015C	747240
92644526002	SB2-1222-20'-22'	EPA 3546	746967	EPA 8015C	747240
92644526003	SB3-1222-13'-15'	EPA 3546	746967	EPA 8015C	747240
92644526004	SB3-1222-21'-23'	EPA 3546	746967	EPA 8015C	747240
92644526005	SB4-1222-8'-10'	EPA 3546	746967	EPA 8015C	747240
92644526006	SB4-1222-13'-15'	EPA 3546	746967	EPA 8015C	747240
92644526007	SB5-1222-10'-12'	EPA 3546	746967	EPA 8015C	747240
92644526008	SB5-1222-16'-18'	EPA 3546	746967	EPA 8015C	747240
92644526001	SB2-1222-10'-21'	EPA 3546	746969	EPA 8270E	747446
92644526002	SB2-1222-20'-22'	EPA 3546	746969	EPA 8270E	747446
92644526003	SB3-1222-13'-15'	EPA 3546	746969	EPA 8270E	747446
92644526004	SB3-1222-21'-23'	EPA 3546	746969	EPA 8270E	747446
92644526005	SB4-1222-8'-10'	EPA 3546	746969	EPA 8270E	747446
92644526006	SB4-1222-13'-15'	EPA 3546	746969	EPA 8270E	747446
92644526007	SB5-1222-10'-12'	EPA 3546	746969	EPA 8270E	747446
92644526008	SB5-1222-16'-18'	EPA 3546	746969	EPA 8270E	747446
92644526001	SB2-1222-10'-21'	SW-846	747051		
92644526002	SB2-1222-20'-22'	SW-846	747051		
92644526003	SB3-1222-13'-15'	SW-846	747051		
92644526004	SB3-1222-21'-23'	SW-846	747051		
92644526005	SB4-1222-8'-10'	SW-846	747051		
92644526006	SB4-1222-13'-15'	SW-846	747051		
92644526007	SB5-1222-10'-12'	SW-846	747051		
92644526008	SB5-1222-16'-18'	SW-846	747051		

REPORT OF LABORATORY ANALYSIS

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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 and acceptance of the Pace Terms and Conditions found at <https://info.paceelabs.com/submit/consent>

Section A

Required Client Information:

Required Project Information

Invoice Information:

Company: Bonnell Aluminum Inc.

Report To: Janetta Caudrey

Attention:

Page: 1 of 1

25 Bonnell Street

Copy To: Teddy England

Company Name

Email: janelle.courtney@bornellalumni.com

Purchase Order #:

Pace Quote

Phone:	678-552-0652	Fax:
--------	--------------	------

Project Name: Soil Investigation

Project Manager: nikita.kumar@prosciella.com

INVESTIGACIÓN EN LA UNIB

Project #:

Pace Profile #: 12521-7

MO#: 92644526

92644526

[illegible]

Client needs 1,4-Dioxane and Ethylene Oxide by 8260

held analyses for 1,4-dioxans, ethylene oxide and propylene oxide, pending TCH results

RELINQUISHED BY / AFFILIATION	DATE
<i>Mark D. [Signature]</i>	12/30/12

DATE	TIME	ACCEPTED BY / A
12/30/22	10:08	M. S. Simmons

DATE	11/23/12
TIME	10:05

SAMPLE CONDITIONS	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: _____

TEMP in C
Received on ice (Y/N)
Custody Sealed Cooler (Y/N)
Samples Intact (Y/N)

DLD and y's requested
no OLD and y's.



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐Sample Condition
Upon Receipt

Client Name:

Bonnell Aluminum

Project #:

WO#: 92644526

PM: NJK

Due Date: 01/09/23

CLIENT: GA-Bonnell AL

Courier:

☐ Commercial☐ Fed Ex☐ Pace☐ UPS☐ USPS☐ Other: _____☒ Client

Custody Seal Present?

☐ Yes☒ No

Seals Intact?

☐ Yes☐ No

Packing Material:

☐ Bubble Wrap☒ Bubble Bags☐ None☒ Other

Thermometer:

☒ IR Gun ID: 214

Type of Ice:

☒ Wet☐ Blue☐ None

Cooler Temp:

5-8

Correction Factor:

Add/Subtract (°C)

0.0

Cooler Temp Corrected (°C):

USDA Regulated Soil (☐ N/A, water sample)Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☒ NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

Comments/Discrepancy:

Chain of Custody Present?	☒ Yes ☐ No ☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes ☐ No ☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes ☒ No ☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes ☒ No ☐ N/A	4.
Sufficient Volume?	☒ Yes ☐ No ☐ N/A	5.
Correct Containers Used?	☒ Yes ☐ No ☐ N/A	6.
-Pace Containers Used?	☒ Yes ☐ No ☐ N/A	
Containers Intact?	☒ Yes ☐ No ☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes ☐ No ☒ N/A	8.
Sample Labels Match COC?	☒ Yes ☐ No ☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: SL		
Headspace in VOA Vials (>5-6mm)?	☐ Yes ☐ No ☒ N/A	10.
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☒ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO# : 92644526

PM: NJK

Due Date: 01/09/23

CLIENT: GA-BonnellAL

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1									2																		
2									2																		
3									2																		
4									2																		
5									2																		
6									2																		
7									2																		
8									2																		
9																											
10																											
11																											
12																											

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

January 12, 2023

Janette Courtney
Bonnell Aluminum
25 Bonnell Street
Newnan, GA 30263

RE: Project: Soil Investigation
Pace Project No.: 92644532

Dear Janette Courtney:

Enclosed are the analytical results for sample(s) received by the laboratory on December 30, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Charlotte

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

Sincerely,



Nikita Kuruganty
nikita.kuruganty@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Tony Englund, Wood E&I Solutions, Inc. - Kennesaw
Michael LaPrade, WOOD E&I
Ronishia Moncrief, Bonnell Aluminum Inc
Greg Wrenn, WOOD E&I



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Soil Investigation

Pace Project No.: 92644532

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Soil Investigation

Pace Project No.: 92644532

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92644532001	SB13-1222-13'-15'	Solid	12/29/22 10:15	12/30/22 10:05
92644532002	SB13-1222-21'-23'	Solid	12/29/22 10:25	12/30/22 10:05
92644532003	SB14-1222-8'-10'	Solid	12/29/22 11:15	12/30/22 10:05
92644532004	SB14-1222-20'-25'	Solid	12/29/22 11:25	12/30/22 10:05
92644532005	SB8-1222-6'-8'	Solid	12/29/22 13:35	12/30/22 10:05
92644532006	SB8-1222-18'-20'	Solid	12/29/22 13:50	12/30/22 10:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Soil Investigation

Pace Project No.: 92644532

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92644532001	SB13-1222-13'-15'	EPA 8015C	HH	2
		EPA 8270E	SEM	21
		SW-846	KDF	1
92644532002	SB13-1222-21'-23'	EPA 8015C	HH	2
		EPA 8270E	SEM	21
		SW-846	KDF	1
92644532003	SB14-1222-8'-10'	EPA 8015C	HH	2
		EPA 8270E	SEM	21
		SW-846	KDF	1
92644532004	SB14-1222-20'-25'	EPA 8015C	HH	2
		EPA 8270E	SEM	21
		SW-846	KDF	1
92644532005	SB8-1222-6'-8'	EPA 8015C	HH	2
		EPA 8270E	SEM	21
		EPA 8260D Mod.	LMB	3
		EPA 8260 Modified	SAS	1
		SW-846	KDF	1
92644532006	SB8-1222-18'-20'	EPA 8015C	HH	2
		EPA 8270E	SEM	21
		SW-846	KDF	1

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Soil Investigation

Pace Project No.: 92644532

Sample: SB13-1222-13'-15' **Lab ID:** 92644532001 **Collected:** 12/29/22 10:15 **Received:** 12/30/22 10:05 **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
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.1	1	01/03/23 13:23	01/04/23 14:17		
Surrogates								
n-Pentacosane (S)	85	%	10-130	1	01/03/23 13:23	01/04/23 14:17	629-99-2	
8270E MSSV PAH Microwave								
Analytical Method: EPA 8270E Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Acenaphthene	ND	ug/kg	400	1	01/03/23 13:15	01/05/23 15:15	83-32-9	
Acenaphthylene	ND	ug/kg	400	1	01/03/23 13:15	01/05/23 15:15	208-96-8	
Anthracene	ND	ug/kg	400	1	01/03/23 13:15	01/05/23 15:15	120-12-7	
Benzo(a)anthracene	ND	ug/kg	400	1	01/03/23 13:15	01/05/23 15:15	56-55-3	
Benzo(a)pyrene	ND	ug/kg	400	1	01/03/23 13:15	01/05/23 15:15	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	400	1	01/03/23 13:15	01/05/23 15:15	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	400	1	01/03/23 13:15	01/05/23 15:15	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	400	1	01/03/23 13:15	01/05/23 15:15	207-08-9	
Chrysene	ND	ug/kg	400	1	01/03/23 13:15	01/05/23 15:15	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	400	1	01/03/23 13:15	01/05/23 15:15	53-70-3	
Fluoranthene	ND	ug/kg	400	1	01/03/23 13:15	01/05/23 15:15	206-44-0	
Fluorene	ND	ug/kg	400	1	01/03/23 13:15	01/05/23 15:15	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	400	1	01/03/23 13:15	01/05/23 15:15	193-39-5	
1-Methylnaphthalene	ND	ug/kg	400	1	01/03/23 13:15	01/05/23 15:15	90-12-0	
2-Methylnaphthalene	ND	ug/kg	400	1	01/03/23 13:15	01/05/23 15:15	91-57-6	
Naphthalene	ND	ug/kg	400	1	01/03/23 13:15	01/05/23 15:15	91-20-3	
Phenanthrene	ND	ug/kg	400	1	01/03/23 13:15	01/05/23 15:15	85-01-8	
Pyrene	ND	ug/kg	400	1	01/03/23 13:15	01/05/23 15:15	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	63	%	10-130	1	01/03/23 13:15	01/05/23 15:15	4165-60-0	
2-Fluorobiphenyl (S)	56	%	10-130	1	01/03/23 13:15	01/05/23 15:15	321-60-8	
Terphenyl-d14 (S)	78	%	10-130	1	01/03/23 13:15	01/05/23 15:15	1718-51-0	
Percent Moisture								
Analytical Method: SW-846								
Pace Analytical Services - Charlotte								
Percent Moisture	17.0	%	0.10	1		01/03/23 13:38		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Soil Investigation
Pace Project No.: 92644532

Sample: SB13-1222-21'-23' **Lab ID:** 92644532002 **Collected:** 12/29/22 10:25 **Received:** 12/30/22 10:05 **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
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	5.7	1	01/03/23 13:23	01/04/23 14:17		
Surrogates								
n-Pentacosane (S)	78	%	10-130	1	01/03/23 13:23	01/04/23 14:17	629-99-2	
8270E MSSV PAH Microwave								
Analytical Method: EPA 8270E Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Acenaphthene	ND	ug/kg	379	1	01/03/23 13:15	01/05/23 15:43	83-32-9	
Acenaphthylene	ND	ug/kg	379	1	01/03/23 13:15	01/05/23 15:43	208-96-8	
Anthracene	ND	ug/kg	379	1	01/03/23 13:15	01/05/23 15:43	120-12-7	
Benzo(a)anthracene	ND	ug/kg	379	1	01/03/23 13:15	01/05/23 15:43	56-55-3	
Benzo(a)pyrene	ND	ug/kg	379	1	01/03/23 13:15	01/05/23 15:43	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	379	1	01/03/23 13:15	01/05/23 15:43	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	379	1	01/03/23 13:15	01/05/23 15:43	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	379	1	01/03/23 13:15	01/05/23 15:43	207-08-9	
Chrysene	ND	ug/kg	379	1	01/03/23 13:15	01/05/23 15:43	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	379	1	01/03/23 13:15	01/05/23 15:43	53-70-3	
Fluoranthene	ND	ug/kg	379	1	01/03/23 13:15	01/05/23 15:43	206-44-0	
Fluorene	ND	ug/kg	379	1	01/03/23 13:15	01/05/23 15:43	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	379	1	01/03/23 13:15	01/05/23 15:43	193-39-5	
1-Methylnaphthalene	ND	ug/kg	379	1	01/03/23 13:15	01/05/23 15:43	90-12-0	
2-Methylnaphthalene	ND	ug/kg	379	1	01/03/23 13:15	01/05/23 15:43	91-57-6	
Naphthalene	ND	ug/kg	379	1	01/03/23 13:15	01/05/23 15:43	91-20-3	
Phenanthrene	ND	ug/kg	379	1	01/03/23 13:15	01/05/23 15:43	85-01-8	
Pyrene	ND	ug/kg	379	1	01/03/23 13:15	01/05/23 15:43	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	57	%	10-130	1	01/03/23 13:15	01/05/23 15:43	4165-60-0	
2-Fluorobiphenyl (S)	50	%	10-130	1	01/03/23 13:15	01/05/23 15:43	321-60-8	
Terphenyl-d14 (S)	72	%	10-130	1	01/03/23 13:15	01/05/23 15:43	1718-51-0	
Percent Moisture								
Analytical Method: SW-846								
Pace Analytical Services - Charlotte								
Percent Moisture	12.5	%	0.10	1		01/03/23 13:38		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Soil Investigation
Pace Project No.: 92644532

Sample: SB14-1222-8'-10' **Lab ID: 92644532003** Collected: 12/29/22 11:15 Received: 12/30/22 10:05 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
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	5.6	1	01/03/23 13:23	01/04/23 14:33		
Surrogates								
n-Pentacosane (S)	83	%	10-130	1	01/03/23 13:23	01/04/23 14:33	629-99-2	
8270E MSSV PAH Microwave								
Analytical Method: EPA 8270E Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Acenaphthene	ND	ug/kg	370	1	01/03/23 13:15	01/05/23 16:11	83-32-9	
Acenaphthylene	ND	ug/kg	370	1	01/03/23 13:15	01/05/23 16:11	208-96-8	
Anthracene	ND	ug/kg	370	1	01/03/23 13:15	01/05/23 16:11	120-12-7	
Benzo(a)anthracene	ND	ug/kg	370	1	01/03/23 13:15	01/05/23 16:11	56-55-3	
Benzo(a)pyrene	ND	ug/kg	370	1	01/03/23 13:15	01/05/23 16:11	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	370	1	01/03/23 13:15	01/05/23 16:11	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	370	1	01/03/23 13:15	01/05/23 16:11	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	370	1	01/03/23 13:15	01/05/23 16:11	207-08-9	
Chrysene	ND	ug/kg	370	1	01/03/23 13:15	01/05/23 16:11	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	370	1	01/03/23 13:15	01/05/23 16:11	53-70-3	
Fluoranthene	ND	ug/kg	370	1	01/03/23 13:15	01/05/23 16:11	206-44-0	
Fluorene	ND	ug/kg	370	1	01/03/23 13:15	01/05/23 16:11	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	370	1	01/03/23 13:15	01/05/23 16:11	193-39-5	
1-Methylnaphthalene	ND	ug/kg	370	1	01/03/23 13:15	01/05/23 16:11	90-12-0	
2-Methylnaphthalene	ND	ug/kg	370	1	01/03/23 13:15	01/05/23 16:11	91-57-6	
Naphthalene	ND	ug/kg	370	1	01/03/23 13:15	01/05/23 16:11	91-20-3	
Phenanthrene	ND	ug/kg	370	1	01/03/23 13:15	01/05/23 16:11	85-01-8	
Pyrene	ND	ug/kg	370	1	01/03/23 13:15	01/05/23 16:11	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	60	%	10-130	1	01/03/23 13:15	01/05/23 16:11	4165-60-0	
2-Fluorobiphenyl (S)	52	%	10-130	1	01/03/23 13:15	01/05/23 16:11	321-60-8	
Terphenyl-d14 (S)	77	%	10-130	1	01/03/23 13:15	01/05/23 16:11	1718-51-0	
Percent Moisture								
Analytical Method: SW-846								
Pace Analytical Services - Charlotte								
Percent Moisture	11.7	%	0.10	1		01/03/23 13:38		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Soil Investigation
Pace Project No.: 92644532

Sample: SB14-1222-20'-25' **Lab ID:** 92644532004 Collected: 12/29/22 11:25 Received: 12/30/22 10:05 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
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	5.9	1	01/03/23 13:23	01/04/23 14:33		
Surrogates								
n-Pentacosane (S)	83	%	10-130	1	01/03/23 13:23	01/04/23 14:33	629-99-2	
8270E MSSV PAH Microwave								
Analytical Method: EPA 8270E Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Acenaphthene	ND	ug/kg	395	1	01/03/23 13:15	01/05/23 16:39	83-32-9	
Acenaphthylene	ND	ug/kg	395	1	01/03/23 13:15	01/05/23 16:39	208-96-8	
Anthracene	ND	ug/kg	395	1	01/03/23 13:15	01/05/23 16:39	120-12-7	
Benzo(a)anthracene	ND	ug/kg	395	1	01/03/23 13:15	01/05/23 16:39	56-55-3	
Benzo(a)pyrene	ND	ug/kg	395	1	01/03/23 13:15	01/05/23 16:39	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	395	1	01/03/23 13:15	01/05/23 16:39	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	395	1	01/03/23 13:15	01/05/23 16:39	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	395	1	01/03/23 13:15	01/05/23 16:39	207-08-9	
Chrysene	ND	ug/kg	395	1	01/03/23 13:15	01/05/23 16:39	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	395	1	01/03/23 13:15	01/05/23 16:39	53-70-3	
Fluoranthene	ND	ug/kg	395	1	01/03/23 13:15	01/05/23 16:39	206-44-0	
Fluorene	ND	ug/kg	395	1	01/03/23 13:15	01/05/23 16:39	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	395	1	01/03/23 13:15	01/05/23 16:39	193-39-5	
1-Methylnaphthalene	ND	ug/kg	395	1	01/03/23 13:15	01/05/23 16:39	90-12-0	
2-Methylnaphthalene	ND	ug/kg	395	1	01/03/23 13:15	01/05/23 16:39	91-57-6	
Naphthalene	ND	ug/kg	395	1	01/03/23 13:15	01/05/23 16:39	91-20-3	
Phenanthrene	ND	ug/kg	395	1	01/03/23 13:15	01/05/23 16:39	85-01-8	
Pyrene	ND	ug/kg	395	1	01/03/23 13:15	01/05/23 16:39	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	63	%	10-130	1	01/03/23 13:15	01/05/23 16:39	4165-60-0	
2-Fluorobiphenyl (S)	53	%	10-130	1	01/03/23 13:15	01/05/23 16:39	321-60-8	
Terphenyl-d14 (S)	68	%	10-130	1	01/03/23 13:15	01/05/23 16:39	1718-51-0	
Percent Moisture								
Analytical Method: SW-846								
Pace Analytical Services - Charlotte								
Percent Moisture	15.9	%	0.10	1		01/03/23 13:57		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Soil Investigation
Pace Project No.: 92644532

Sample: SB8-1222-6'-8' **Lab ID: 92644532005** Collected: 12/29/22 13:35 Received: 12/30/22 10:05 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
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	687	mg/kg	23.8	4	01/03/23 13:23	01/04/23 16:49		
Surrogates								
n-Pentacosane (S)	124	%	10-130	4	01/03/23 13:23	01/04/23 16:49	629-99-2	
8270E MSSV PAH Microwave								
Analytical Method: EPA 8270E Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Acenaphthene	ND	ug/kg	401	1	01/03/23 13:15	01/05/23 17:07	83-32-9	
Acenaphthylene	ND	ug/kg	401	1	01/03/23 13:15	01/05/23 17:07	208-96-8	
Anthracene	ND	ug/kg	401	1	01/03/23 13:15	01/05/23 17:07	120-12-7	
Benzo(a)anthracene	ND	ug/kg	401	1	01/03/23 13:15	01/05/23 17:07	56-55-3	
Benzo(a)pyrene	ND	ug/kg	401	1	01/03/23 13:15	01/05/23 17:07	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	401	1	01/03/23 13:15	01/05/23 17:07	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	401	1	01/03/23 13:15	01/05/23 17:07	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	401	1	01/03/23 13:15	01/05/23 17:07	207-08-9	
Chrysene	ND	ug/kg	401	1	01/03/23 13:15	01/05/23 17:07	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	401	1	01/03/23 13:15	01/05/23 17:07	53-70-3	
Fluoranthene	ND	ug/kg	401	1	01/03/23 13:15	01/05/23 17:07	206-44-0	
Fluorene	ND	ug/kg	401	1	01/03/23 13:15	01/05/23 17:07	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	401	1	01/03/23 13:15	01/05/23 17:07	193-39-5	
1-Methylnaphthalene	ND	ug/kg	401	1	01/03/23 13:15	01/05/23 17:07	90-12-0	
2-Methylnaphthalene	ND	ug/kg	401	1	01/03/23 13:15	01/05/23 17:07	91-57-6	
Naphthalene	ND	ug/kg	401	1	01/03/23 13:15	01/05/23 17:07	91-20-3	
Phenanthrene	ND	ug/kg	401	1	01/03/23 13:15	01/05/23 17:07	85-01-8	
Pyrene	ND	ug/kg	401	1	01/03/23 13:15	01/05/23 17:07	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	45	%	10-130	1	01/03/23 13:15	01/05/23 17:07	4165-60-0	
2-Fluorobiphenyl (S)	43	%	10-130	1	01/03/23 13:15	01/05/23 17:07	321-60-8	
Terphenyl-d14 (S)	49	%	10-130	1	01/03/23 13:15	01/05/23 17:07	1718-51-0	
8260D MSV SIM Soil								
Analytical Method: EPA 8260D Mod. Preparation Method: EPA 8260D Mod.								
Pace Analytical Services - Charlotte								
1,4-Dioxane (p-Dioxane)	ND	ug/kg	12.0	1	01/10/23 11:59	01/10/23 15:48	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	138	%	70-141	1	01/10/23 11:59	01/10/23 15:48	17060-07-0	IO,u8
Toluene-d8 (S)	82	%	70-130	1	01/10/23 11:59	01/10/23 15:48	2037-26-5	
8260 SCREEN EO								
Analytical Method: EPA 8260 Modified								
Pace Analytical Services - Charlotte								
Ethylene oxide	ND	ug/kg	60.0	1		01/12/23 11:58	75-21-8	1g
Percent Moisture								
Analytical Method: SW-846								
Pace Analytical Services - Charlotte								
Percent Moisture	16.7	%	0.10	1		01/03/23 13:58		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Soil Investigation
Pace Project No.: 92644532

Sample: SB8-1222-18'-20' **Lab ID: 92644532006** Collected: 12/29/22 13:50 Received: 12/30/22 10:05 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
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.0	1	01/03/23 13:23	01/04/23 14:50		
Surrogates								
n-Pentacosane (S)	83	%	10-130	1	01/03/23 13:23	01/04/23 14:50	629-99-2	
8270E MSSV PAH Microwave								
Analytical Method: EPA 8270E Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Acenaphthene	ND	ug/kg	399	1	01/03/23 13:15	01/05/23 17:34	83-32-9	
Acenaphthylene	ND	ug/kg	399	1	01/03/23 13:15	01/05/23 17:34	208-96-8	
Anthracene	ND	ug/kg	399	1	01/03/23 13:15	01/05/23 17:34	120-12-7	
Benzo(a)anthracene	ND	ug/kg	399	1	01/03/23 13:15	01/05/23 17:34	56-55-3	
Benzo(a)pyrene	ND	ug/kg	399	1	01/03/23 13:15	01/05/23 17:34	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	399	1	01/03/23 13:15	01/05/23 17:34	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	399	1	01/03/23 13:15	01/05/23 17:34	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	399	1	01/03/23 13:15	01/05/23 17:34	207-08-9	
Chrysene	ND	ug/kg	399	1	01/03/23 13:15	01/05/23 17:34	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	399	1	01/03/23 13:15	01/05/23 17:34	53-70-3	
Fluoranthene	ND	ug/kg	399	1	01/03/23 13:15	01/05/23 17:34	206-44-0	
Fluorene	ND	ug/kg	399	1	01/03/23 13:15	01/05/23 17:34	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	399	1	01/03/23 13:15	01/05/23 17:34	193-39-5	
1-Methylnaphthalene	ND	ug/kg	399	1	01/03/23 13:15	01/05/23 17:34	90-12-0	
2-Methylnaphthalene	ND	ug/kg	399	1	01/03/23 13:15	01/05/23 17:34	91-57-6	
Naphthalene	ND	ug/kg	399	1	01/03/23 13:15	01/05/23 17:34	91-20-3	
Phenanthrene	ND	ug/kg	399	1	01/03/23 13:15	01/05/23 17:34	85-01-8	
Pyrene	ND	ug/kg	399	1	01/03/23 13:15	01/05/23 17:34	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	54	%	10-130	1	01/03/23 13:15	01/05/23 17:34	4165-60-0	
2-Fluorobiphenyl (S)	53	%	10-130	1	01/03/23 13:15	01/05/23 17:34	321-60-8	
Terphenyl-d14 (S)	75	%	10-130	1	01/03/23 13:15	01/05/23 17:34	1718-51-0	
Percent Moisture								
Analytical Method: SW-846								
Pace Analytical Services - Charlotte								
Percent Moisture	16.7	%	0.10	1		01/03/23 13:58		N2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Soil Investigation

Pace Project No.: 92644532

QC Batch: 748429

Analysis Method: EPA 8260D Mod.

QC Batch Method: EPA 8260D Mod.

Analysis Description: 8260D MSV Soil SIM

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92644532005

METHOD BLANK: 3890710

Matrix: Solid

Associated Lab Samples: 92644532005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/kg	ND	10.0	01/10/23 12:57	
1,2-Dichloroethane-d4 (S)	%	84	70-141	01/10/23 12:57	
Toluene-d8 (S)	%	88	70-130	01/10/23 12:57	

LABORATORY CONTROL SAMPLE: 3890711

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/kg	40	37.4	93	70-130	
1,2-Dichloroethane-d4 (S)	%			84	70-141	
Toluene-d8 (S)	%			89	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3890712 3890713

Parameter	Units	92644532005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/kg	ND	48	48	49.8	45.9	104	96	63-147	8	30	
1,2-Dichloroethane-d4 (S)	%						135	133	70-141		30	
Toluene-d8 (S)	%						79	83	70-130		30	

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QUALITY CONTROL DATA

Project: Soil Investigation
Pace Project No.: 92644532

QC Batch: 746967 Analysis Method: EPA 8015C
QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92644532001, 92644532002, 92644532003, 92644532004, 92644532005, 92644532006

METHOD BLANK: 3883758 Matrix: Solid
Associated Lab Samples: 92644532001, 92644532002, 92644532003, 92644532004, 92644532005, 92644532006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	5.0	01/04/23 12:38	
n-Pentacosane (S)	%	99	10-130	01/04/23 12:38	

LABORATORY CONTROL SAMPLE: 3883759

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	65.6	56.6	86	44-130	
n-Pentacosane (S)	%			79	10-130	

MATRIX SPIKE SAMPLE: 3883760

Parameter	Units	92644526001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	78	63.9	78	10-130	
n-Pentacosane (S)	%				71	10-130	

SAMPLE DUPLICATE: 3883761

Parameter	Units	92644526003 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	4.7J		30	
n-Pentacosane (S)	%	74	89			

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QUALITY CONTROL DATA

Project: Soil Investigation
Pace Project No.: 92644532

QC Batch: 746969 Analysis Method: EPA 8270E
QC Batch Method: EPA 3546 Analysis Description: 8270E Solid MSSV Microwave PAH
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92644532001, 92644532002, 92644532003, 92644532004, 92644532005, 92644532006

METHOD BLANK: 3883763

Matrix: Solid

Associated Lab Samples: 92644532001, 92644532002, 92644532003, 92644532004, 92644532005, 92644532006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	326	01/05/23 07:46	
2-Methylnaphthalene	ug/kg	ND	326	01/05/23 07:46	
Acenaphthene	ug/kg	ND	326	01/05/23 07:46	
Acenaphthylene	ug/kg	ND	326	01/05/23 07:46	
Anthracene	ug/kg	ND	326	01/05/23 07:46	
Benzo(a)anthracene	ug/kg	ND	326	01/05/23 07:46	
Benzo(a)pyrene	ug/kg	ND	326	01/05/23 07:46	
Benzo(b)fluoranthene	ug/kg	ND	326	01/05/23 07:46	
Benzo(g,h,i)perylene	ug/kg	ND	326	01/05/23 07:46	
Benzo(k)fluoranthene	ug/kg	ND	326	01/05/23 07:46	
Chrysene	ug/kg	ND	326	01/05/23 07:46	
Dibenz(a,h)anthracene	ug/kg	ND	326	01/05/23 07:46	
Fluoranthene	ug/kg	ND	326	01/05/23 07:46	
Fluorene	ug/kg	ND	326	01/05/23 07:46	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	326	01/05/23 07:46	
Naphthalene	ug/kg	ND	326	01/05/23 07:46	
Phenanthrene	ug/kg	ND	326	01/05/23 07:46	
Pyrene	ug/kg	ND	326	01/05/23 07:46	
2-Fluorobiphenyl (S)	%	50	10-130	01/05/23 07:46	
Nitrobenzene-d5 (S)	%	53	10-130	01/05/23 07:46	
Terphenyl-d14 (S)	%	62	10-130	01/05/23 07:46	

LABORATORY CONTROL SAMPLE: 3883764

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	1660	1350	82	47-130	
2-Methylnaphthalene	ug/kg	1660	1290	78	47-130	
Acenaphthene	ug/kg	1660	1400	85	49-130	
Acenaphthylene	ug/kg	1660	1400	85	50-130	
Anthracene	ug/kg	1660	1460	88	49-130	
Benzo(a)anthracene	ug/kg	1660	1530	92	51-130	
Benzo(a)pyrene	ug/kg	1660	1560	94	51-130	
Benzo(b)fluoranthene	ug/kg	1660	1610	97	49-130	
Benzo(g,h,i)perylene	ug/kg	1660	1470	89	48-140	
Benzo(k)fluoranthene	ug/kg	1660	1600	97	51-130	
Chrysene	ug/kg	1660	1480	90	51-130	
Dibenz(a,h)anthracene	ug/kg	1660	1440	87	48-130	
Fluoranthene	ug/kg	1660	1630	98	48-130	
Fluorene	ug/kg	1660	1450	88	48-130	

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QUALITY CONTROL DATA

Project: Soil Investigation

Pace Project No.: 92644532

LABORATORY CONTROL SAMPLE: 3883764

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/kg	1660	1510	91	50-130	
Naphthalene	ug/kg	1660	1230	74	46-130	
Phenanthrene	ug/kg	1660	1570	95	50-130	
Pyrene	ug/kg	1660	1530	93	50-130	
2-Fluorobiphenyl (S)	%			64	10-130	
Nitrobenzene-d5 (S)	%			64	10-130	
Terphenyl-d14 (S)	%			74	10-130	

MATRIX SPIKE SAMPLE: 3883765

Parameter	Units	92643882001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	ND	1980	1200	61	19-130	
2-Methylnaphthalene	ug/kg	ND	1980	1150	58	18-130	
Acenaphthene	ug/kg	ND	1980	1390	70	20-130	
Acenaphthylene	ug/kg	ND	1980	1350	68	21-130	
Anthracene	ug/kg	ND	1980	1720	87	19-130	
Benzo(a)anthracene	ug/kg	ND	1980	1860	94	17-130	
Benzo(a)pyrene	ug/kg	ND	1980	1730	87	14-130	
Benzo(b)fluoranthene	ug/kg	ND	1980	1860	94	11-134	
Benzo(g,h,i)perylene	ug/kg	ND	1980	1540	78	12-130	
Benzo(k)fluoranthene	ug/kg	ND	1980	1850	93	15-130	
Chrysene	ug/kg	ND	1980	1770	89	17-130	
Dibenz(a,h)anthracene	ug/kg	ND	1980	1610	82	13-130	
Fluoranthene	ug/kg	ND	1980	2060	104	14-130	
Fluorene	ug/kg	ND	1980	1660	84	19-130	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	1980	1590	80	13-130	
Naphthalene	ug/kg	ND	1980	1080	55	18-130	
Phenanthrene	ug/kg	ND	1980	1870	95	17-130	
Pyrene	ug/kg	ND	1980	1680	85	31-130	
2-Fluorobiphenyl (S)	%				44	10-130	
Nitrobenzene-d5 (S)	%				49	10-130	
Terphenyl-d14 (S)	%				72	10-130	

SAMPLE DUPLICATE: 3883766

Parameter	Units	92643882002 Result	Dup Result	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/kg	ND	ND		30	
2-Methylnaphthalene	ug/kg	ND	ND		30	
Acenaphthene	ug/kg	ND	ND		30	
Acenaphthylene	ug/kg	ND	ND		30	
Anthracene	ug/kg	ND	ND		30	
Benzo(a)anthracene	ug/kg	ND	ND		30	
Benzo(a)pyrene	ug/kg	ND	ND		30	
Benzo(b)fluoranthene	ug/kg	ND	ND		30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Soil Investigation

Pace Project No.: 92644532

SAMPLE DUPLICATE: 3883766

Parameter	Units	92643882002 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzo(g,h,i)perylene	ug/kg	ND	ND		30	
Benzo(k)fluoranthene	ug/kg	ND	ND		30	
Chrysene	ug/kg	ND	ND		30	
Dibenz(a,h)anthracene	ug/kg	ND	ND		30	
Fluoranthene	ug/kg	ND	ND		30	
Fluorene	ug/kg	ND	ND		30	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	ND		30	
Phenanthrene	ug/kg	ND	ND		30	
Pyrene	ug/kg	ND	ND		30	
2-Fluorobiphenyl (S)	%	55	59			
Nitrobenzene-d5 (S)	%	61	66			
Terphenyl-d14 (S)	%	80	93			

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QUALITY CONTROL DATA

Project: Soil Investigation

Pace Project No.: 92644532

QC Batch: 747051

Analysis Method: SW-846

QC Batch Method: SW-846

Analysis Description: Dry Weight/Percent Moisture

Laboratory:

Pace Analytical Services - Charlotte

Associated Lab Samples: 92644532001, 92644532002, 92644532003

SAMPLE DUPLICATE: 3884127

Parameter	Units	92643867001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.0	19.2	18	25	N2

SAMPLE DUPLICATE: 3884128

Parameter	Units	92644532003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.7	12.0	3	25	N2

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QUALITY CONTROL DATA

Project: Soil Investigation

Pace Project No.: 92644532

QC Batch: 747053

Analysis Method: SW-846

QC Batch Method: SW-846

Analysis Description: Dry Weight/Percent Moisture

Laboratory:

Pace Analytical Services - Charlotte

Associated Lab Samples: 92644532004, 92644532005, 92644532006

SAMPLE DUPLICATE: 3884144

Parameter	Units	92644532004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.9	13.7	15	25	N2

SAMPLE DUPLICATE: 3884145

Parameter	Units	92644579030 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	29.6	28.7	3	25	N2

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QUALIFIERS

Project: Soil Investigation
Pace Project No.: 92644532

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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.

ANALYTE QUALIFIERS

1g	ND results for this compound supported by MRL check standard. Result does not meet EPA Method 8260 calibration requirements
IO	The internal standard response was outside the laboratory acceptance limits confirmed by reanalysis. The results reported are from the most QC compliant analysis.
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.
u8	Data does not meet all conditions for compliance monitoring due to use of soil jars.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Soil Investigation

Pace Project No.: 92644532

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92644532001	SB13-1222-13'-15'	EPA 3546	746967	EPA 8015C	747240
92644532002	SB13-1222-21'-23'	EPA 3546	746967	EPA 8015C	747240
92644532003	SB14-1222-8'-10'	EPA 3546	746967	EPA 8015C	747240
92644532004	SB14-1222-20'-25'	EPA 3546	746967	EPA 8015C	747240
92644532005	SB8-1222-6'-8'	EPA 3546	746967	EPA 8015C	747240
92644532006	SB8-1222-18'-20'	EPA 3546	746967	EPA 8015C	747240
92644532001	SB13-1222-13'-15'	EPA 3546	746969	EPA 8270E	747446
92644532002	SB13-1222-21'-23'	EPA 3546	746969	EPA 8270E	747446
92644532003	SB14-1222-8'-10'	EPA 3546	746969	EPA 8270E	747446
92644532004	SB14-1222-20'-25'	EPA 3546	746969	EPA 8270E	747446
92644532005	SB8-1222-6'-8'	EPA 3546	746969	EPA 8270E	747446
92644532006	SB8-1222-18'-20'	EPA 3546	746969	EPA 8270E	747446
92644532005	SB8-1222-6'-8'	EPA 8260D Mod.	748429	EPA 8260D Mod.	748439
92644532005	SB8-1222-6'-8'	EPA 8260 Modified	748831		
92644532001	SB13-1222-13'-15'	SW-846	747051		
92644532002	SB13-1222-21'-23'	SW-846	747051		
92644532003	SB14-1222-8'-10'	SW-846	747051		
92644532004	SB14-1222-20'-25'	SW-846	747053		
92644532005	SB8-1222-6'-8'	SW-846	747053		
92644532006	SB8-1222-18'-20'	SW-846	747053		

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Section A

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacealabs.com/submit/pace-standard-terms.pdf>

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 Of 1

Required Client Information:		Required Project Information:		Invoice Information:	
Company:	Bornell Aluminum Inc	Report To:	Janelle Courtney	Attention:	
Address:	25 Bornell Street	Copy To:	<i>Michael LePore</i>	Company Name:	
Neuman GA 30263		Purchase Order #:		Address:	
Email:	janelle.courtney@bornellaluminum.com	Project Name:	Soil Investigation	Place Quote:	
Phone:	678-552-0652	Fax:		Place Project Manager:	nikita.muruganthy@psalabs.com
Requested Due Date:		Project #:		Place Profile #:	12521-7

W0#: 92644532

[illegible]



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐Sample Condition
Upon Receipt

Client Name:

Bonnell Aluminium

Project #:

WO#: 92644532

Courier:

☐ Commercial☐ Fed Ex☐ UPS☐ USPS☐ Other:☒ Client

PM: NJK

Due Date: 01/09/23

CLIENT: GA-BonnellAL

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☐ NoPacking Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other

Thermometer:

☒ IR Gun ID:

230

Type of Ice:

☒ Wet☐ Blue☐ None

Cooler Temp:

5.3

Correction Factor:

Add/Subtract (°C)

0.0

Date/Initials Person Examining Contents: 12/30/22

Biological Tissue Frozen?

☐ Yes ☐ No ☐ N/A

Cooler Temp Corrected (°C):

5.3

USDA Regulated Soil (☐ N/A, water sample)Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

			Comments/Discrepancy:
Chain of Custody Present?	☒ Yes ☐ No ☐ N/A	1.	
Samples Arrived within Hold Time?	☒ Yes ☐ No ☐ N/A	2.	
Short Hold Time Analysis (<72 hr.)?	☐ Yes ☒ No ☐ N/A	3.	
Rush Turn Around Time Requested?	☐ Yes ☒ No ☐ N/A	4.	
Sufficient Volume?	☒ Yes ☐ No ☐ N/A	5.	
Correct Containers Used?	☒ Yes ☐ No ☐ N/A	6.	
-Pace Containers Used?	☒ Yes ☐ No ☐ N/A		
Containers Intact?	☒ Yes ☐ No ☐ N/A	7.	
Dissolved analysis: Samples Field Filtered?	☐ Yes ☐ No ☒ N/A	8.	
Sample Labels Match COC?	☒ Yes ☐ No ☐ N/A	9.	
-Includes Date/Time/ID/Analysis Matrix:	SL		
Headspace in VOA Vials (>5-6mm)?	☐ Yes ☐ No ☒ N/A	10.	
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	11.	
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92644532

PM: NJK

Due Date: 01/09/23

CLIENT: GA-Bonneillal

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1									2																			
2									2																			
3									2																			
4									2																			
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6									2																			
7									2																			
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10																												
11																												
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.