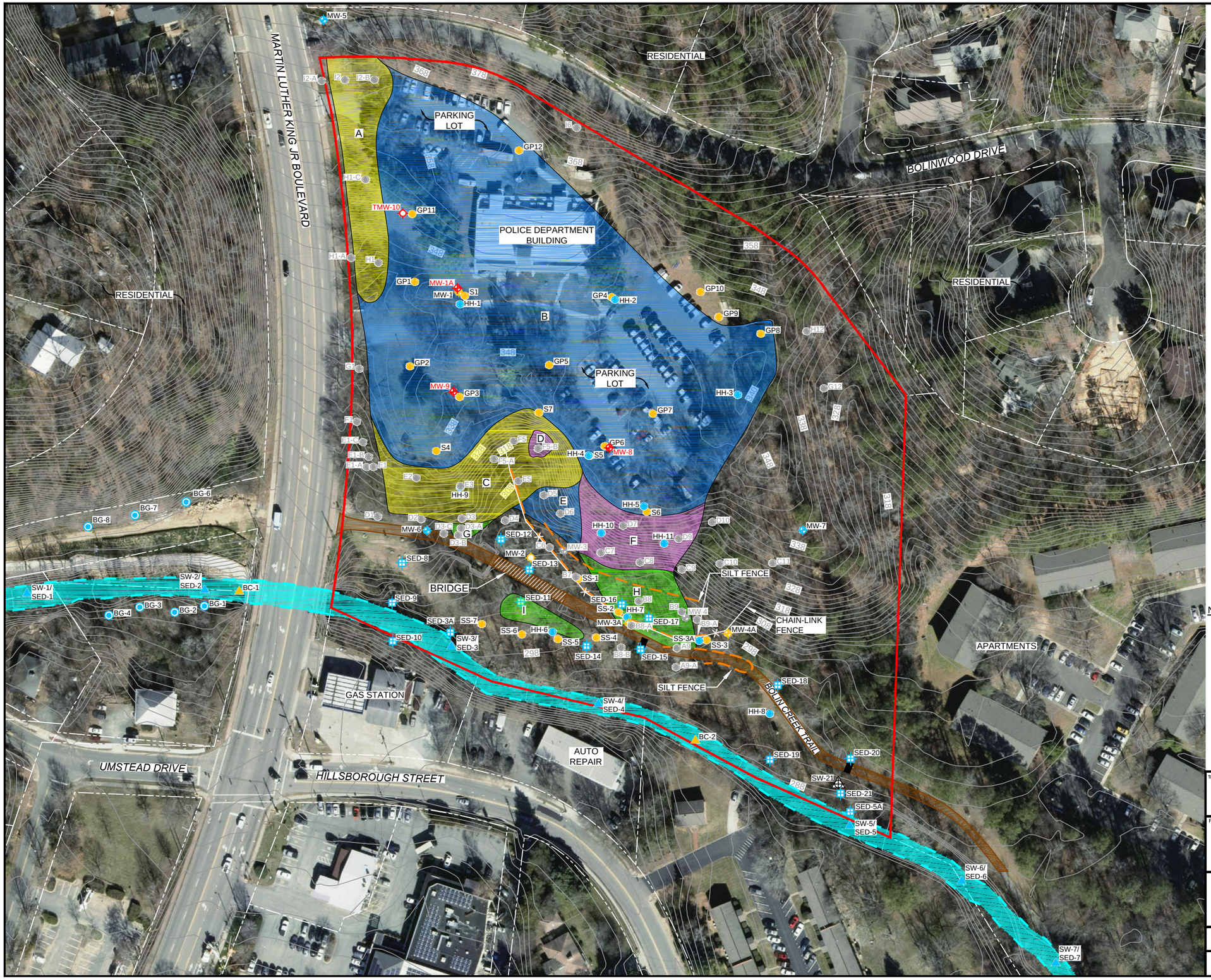


LEGEND

- SITE PROPERTY BOUNDARY
- BOLIN CREEK
- —101— TOPOGRAPHIC CONTOUR ELEVATION (FT MSL)
- MONITORING WELL LOCATION (FALCON ENGINEERING)
- TEMPORARY MONITORING WELL LOCATION (FALCON ENGINEERING)
- SOIL BORING LOCATION (FALCON ENGINEERING)
- SURFACE WATER SAMPLE LOCATION (FALCON ENGINEERING)
- ABANDONED MONITORING WELL LOCATION
- MONITORING WELL LOCATION (H&H)
- SOIL BORING LOCATION (H&H)
- BACKGROUND SOIL BORING LOCATION (H&H)
- SURFACE WATER/SEDIMENT SAMPLE LOCATION (H&H)
- DRAINAGE PATHWAY SOIL SAMPLE LOCATION (H&H)
- DRAINAGE PATHWAY SURFACE WATER SAMPLE LOCATION (H&H)
- COVER EVALUATION BORING LOCATION
- CCP UNDER > 2 FT COVER
- CCP UNDER < 2 FT COVER
- CCP EXPOSED AT GROUND SURFACE
- CCP DEPOSITIONAL LAYER
- STORMWATER CULVERT
- PROPOSED TEMPORARY MONITORING WELL
- PROPOSED MONITORING WELL

NOTES:

1. EXISTING MONITORING WELLS & OCTOBER/ NOVEMBER 2016 SAMPLING LOCATIONS SURVEYED BY CE GROUP ON DECEMBER 8, 9, & 20, 2016.

N

APPROXIMATE
0 115 230
SCALE IN FEET

TITLE

SAMPLE LOCATION MAP

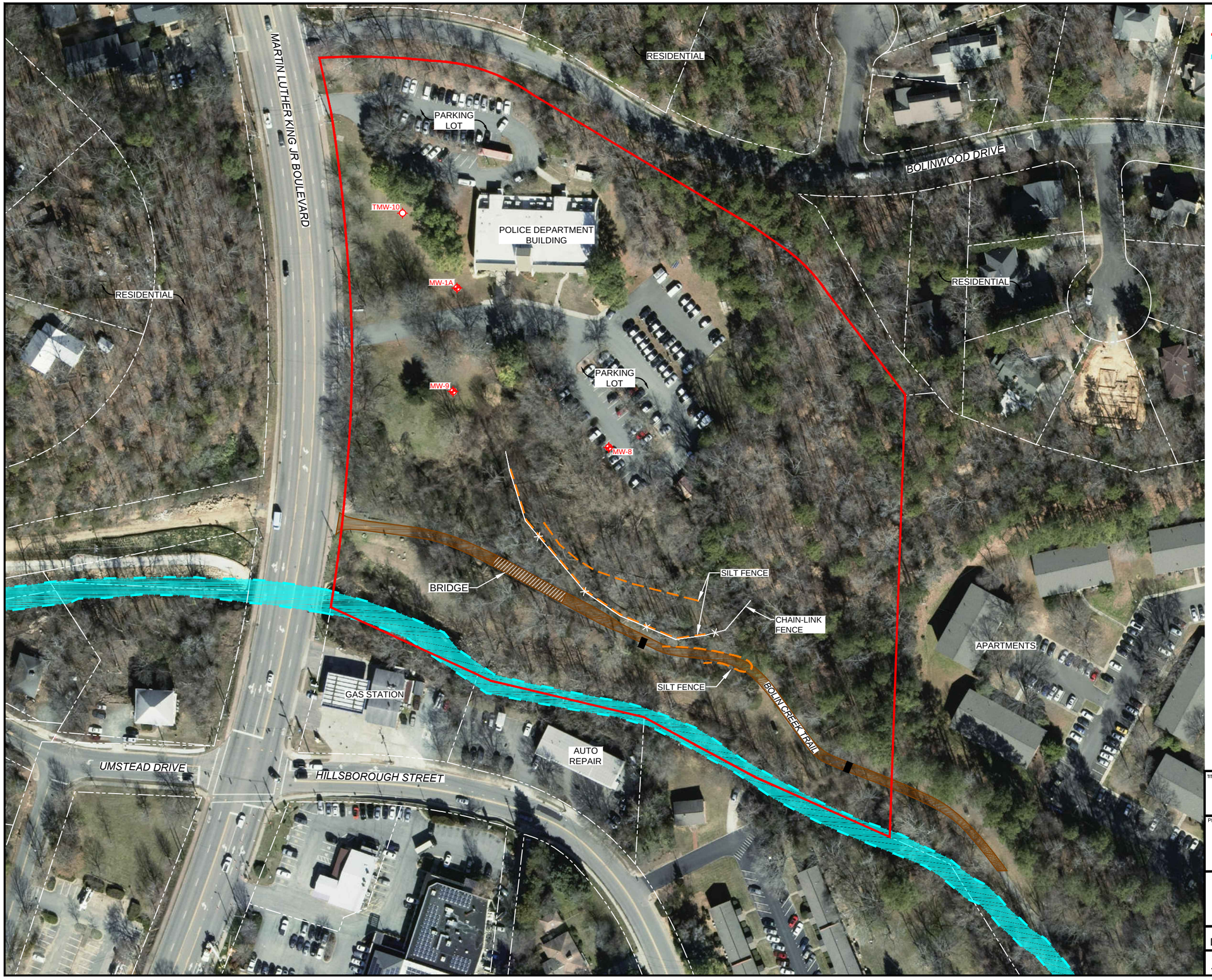
PROJECT

TOWN OF CHAPEL HILL
828 MARTIN LUTHER KING JR. BOULEVARD
CHAPEL HILL, NORTH CAROLINA

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 8-30-19 | REVISION NO. 0

JOB NO. TCH-009 | FIGURE NO. 1



LEGEND

- SITE PROPERTY BOUNDARY
- BOLIN CREEK
- STORMWATER CULVERT
- PROPOSED TEMPORARY MONITORING WELL
- PROPOSED MONITORING WELL

N

APPROXIMATE
0 115 230
SCALE IN FEET

TITLE

PROPOSED WELL LOCATION MAP

PROJECT

TOWN OF CHAPEL HILL
828 MARTIN LUTHER KING JR. BOULEVARD
CHAPEL HILL, NORTH CAROLINA

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 8-30-19	REVISION NO. 0
JOB NO. TCH-009	FIGURE NO. 2

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 09, 2019

Justin Ballard
Hart & Hickman
3921 Sunset Ridge Rd.
Suite 301
Raleigh, NC 27607

RE: Project: TCH-009
Pace Project No.: 92443252

Dear Justin Ballard:
Enclosed are the analytical results for sample(s) received by the laboratory on August 28, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
1(704)875-9092
Project Manager

Enclosures

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: TCH-009
Pace Project No.: 92443252

Pace Analytical National Certification IDs

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
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 9980939910
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

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: TCH-009
Pace Project No.: 92443252

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92443252001	**SED-17**	Solid	08/27/19 11:00	08/28/19 13:09
92443252002	**SED-15**	Solid	08/27/19 11:10	08/28/19 13:09
92443252003	**SED-16**	Solid	08/27/19 11:25	08/28/19 13:09
92443252004	**SED-11**	Solid	08/27/19 11:35	08/28/19 13:09
92443252005	**SED-13**	Solid	08/27/19 11:30	08/28/19 13:09
92443252006	**SED-12**	Solid	08/27/19 11:40	08/28/19 13:09
92443252007	**SS-3A**	Solid	08/27/19 11:55	08/28/19 13:09
92443252008	**EB-1**	Water	08/27/19 12:10	08/28/19 13:09

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: TCH-009
Pace Project No.: 92443252

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92443252001	**SED-17**	EPA 6010D	SH1	1	PASI-A
		EPA 6020B	JDG	10	PAN
		EPA 7471B	SOO	1	PASI-A
		ASTM D2974-87	KDF	1	PASI-C
		SM 2540G	KBC	1	PAN
		EPA 7199	GB	1	PAN
92443252002	**SED-15**	EPA 6010D	SH1	1	PASI-A
		EPA 6020B	JDG	10	PAN
		EPA 7471B	SOO	1	PASI-A
		ASTM D2974-87	KDF	1	PASI-C
		SM 2540G	KBC	1	PAN
		EPA 7199	GB	1	PAN
92443252003	**SED-16**	EPA 6010D	SH1	1	PASI-A
		EPA 6020B	JDG	10	PAN
		EPA 7471B	SOO	1	PASI-A
		ASTM D2974-87	KDF	1	PASI-C
		SM 2540G	KBC	1	PAN
		EPA 7199	GB	1	PAN
92443252004	**SED-11**	EPA 6010D	SH1	1	PASI-A
		EPA 6020B	JDG	10	PAN
		EPA 7471B	SOO	1	PASI-A
		ASTM D2974-87	KDF	1	PASI-C
		SM 2540G	KBC	1	PAN
		EPA 7199	GB	1	PAN
92443252005	**SED-13**	EPA 6010D	SH1	1	PASI-A
		EPA 6020B	JDG	10	PAN
		EPA 7471B	SOO	1	PASI-A
		ASTM D2974-87	KDF	1	PASI-C
		SM 2540G	KBC	1	PAN
		EPA 7199	GB	1	PAN
92443252006	**SED-12**	EPA 6010D	SH1	1	PASI-A
		EPA 6020B	JDG	10	PAN
		EPA 7471B	SOO	1	PASI-A
		ASTM D2974-87	KDF	1	PASI-C
		SM 2540G	KBC	1	PAN
		EPA 7199	GB	1	PAN
92443252007	**SS-3A**	EPA 6010D	SH1	1	PASI-A

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: TCH-009
Pace Project No.: 92443252

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020B	JDG	10	PAN
		EPA 7471B	SOO	1	PASI-A
		ASTM D2974-87	KDF	1	PASI-C
		SM 2540G	KBC	1	PAN
		EPA 7199	GB	1	PAN
92443252008	**EB-1**	EPA 6020B	JOR	11	PASI-A
		EPA 7470A	SOO	1	PASI-A

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: TCH-009
Pace Project No.: 92443252

Sample: SED-17 **Lab ID: 92443252001** Collected: 08/27/19 11:00 Received: 08/28/19 13:09 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	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Strontium	**198**	mg/kg	0.60	0.30	1	09/03/19 11:46	09/04/19 02:09	7440-24-6	
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3050B								
Arsenic	**33.8**	mg/kg	0.975	0.244	5	08/30/19 06:07	08/30/19 19:20	7440-38-2	
Barium	**1420**	mg/kg	1.95	0.312	5	08/30/19 06:07	08/30/19 19:20	7440-39-3	
Beryllium	**4.18**	mg/kg	0.975	0.117	5	08/30/19 06:07	08/30/19 19:20	7440-41-7	
Cadmium	**0.336J**	mg/kg	0.975	0.156	5	08/30/19 06:07	08/30/19 19:20	7440-43-9	J
Chromium	**17.3**	mg/kg	1.95	0.526	5	08/30/19 06:07	08/30/19 19:20	7440-47-3	
Cobalt	**10.3**	mg/kg	0.975	0.253	5	08/30/19 06:07	08/30/19 19:20	7440-48-4	
Copper	**53.1**	mg/kg	1.95	0.507	5	08/30/19 06:07	08/30/19 19:20	7440-50-8	
Manganese	**296**	mg/kg	1.95	0.244	5	08/30/19 06:07	08/30/19 19:20	7439-96-5	
Nickel	**16.2**	mg/kg	0.975	0.341	5	08/30/19 06:07	08/30/19 19:20	7440-02-0	
Selenium	**6.84**	mg/kg	0.975	0.370	5	08/30/19 06:07	08/30/19 19:20	7782-49-2	
7471 Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**0.24**	mg/kg	0.023	0.011	5	08/30/19 15:10	09/03/19 16:08	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**25.5**	%	0.10	0.10	1		08/29/19 16:58		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
Total Solids	**51.3**	%			1	09/04/19 19:37	09/04/19 19:45		
Wet Chemistry 7199	Analytical Method: EPA 7199 Preparation Method: 3060A								
Chromium, Hexavalent	ND	mg/kg	1.95	0.497	1	09/04/19 11:11	09/04/19 15:55	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: TCH-009
Pace Project No.: 92443252

Sample: SED-15 **Lab ID: 92443252002** Collected: 08/27/19 11:10 Received: 08/28/19 13:09 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	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Strontium	**58.0**	mg/kg	0.50	0.25	1	09/03/19 11:46	09/04/19 02:21	7440-24-6	
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3050B								
Arsenic	**3.89**	mg/kg	0.842	0.211	5	08/30/19 06:09	08/30/19 15:24	7440-38-2	
Barium	**251**	mg/kg	1.68	0.270	5	08/30/19 06:09	08/30/19 15:24	7440-39-3	
Beryllium	**0.759J**	mg/kg	0.842	0.101	5	08/30/19 06:09	08/30/19 15:24	7440-41-7	J
Cadmium	**0.328J**	mg/kg	0.842	0.135	5	08/30/19 06:09	08/30/19 15:24	7440-43-9	J
Chromium	**19.2**	mg/kg	1.68	0.455	5	08/30/19 06:09	08/30/19 15:24	7440-47-3	
Cobalt	**9.08**	mg/kg	0.842	0.219	5	08/30/19 06:09	08/30/19 15:24	7440-48-4	
Copper	**24.0**	mg/kg	1.68	0.438	5	08/30/19 06:09	08/30/19 15:24	7440-50-8	
Manganese	**549**	mg/kg	1.68	0.211	5	08/30/19 06:09	08/30/19 15:24	7439-96-5	ML
Nickel	**9.64**	mg/kg	0.842	0.295	5	08/30/19 06:09	08/30/19 15:24	7440-02-0	
Selenium	**1.46**	mg/kg	0.842	0.320	5	08/30/19 06:09	08/30/19 15:24	7782-49-2	
7471 Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**0.035**	mg/kg	0.0035	0.0018	1	08/30/19 15:10	09/03/19 16:11	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.8**	%	0.10	0.10	1		08/29/19 16:58		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
Total Solids	**59.4**	%			1	09/04/19 19:37	09/04/19 19:45		
Wet Chemistry 7199	Analytical Method: EPA 7199 Preparation Method: 3060A								
Chromium, Hexavalent	**0.458J**	mg/kg	1.68	0.430	1	09/04/19 11:11	09/04/19 16:08	18540-29-9	J

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: TCH-009
Pace Project No.: 92443252

Sample: SED-16 **Lab ID: 92443252003** Collected: 08/27/19 11:25 Received: 08/28/19 13:09 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	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Strontium	**133**	mg/kg	0.42	0.21	1	09/03/19 11:46	09/04/19 02:31	7440-24-6	
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3050B								
Arsenic	**21.0**	mg/kg	0.801	0.200	5	08/30/19 06:09	08/30/19 15:47	7440-38-2	
Barium	**739**	mg/kg	1.60	0.256	5	08/30/19 06:09	08/30/19 15:47	7440-39-3	
Beryllium	**2.96**	mg/kg	0.801	0.0962	5	08/30/19 06:09	08/30/19 15:47	7440-41-7	
Cadmium	**0.414J**	mg/kg	0.801	0.128	5	08/30/19 06:09	08/30/19 15:47	7440-43-9	J
Chromium	**23.4**	mg/kg	1.60	0.433	5	08/30/19 06:09	08/30/19 15:47	7440-47-3	
Cobalt	**17.8**	mg/kg	0.801	0.208	5	08/30/19 06:09	08/30/19 15:47	7440-48-4	
Copper	**50.9**	mg/kg	1.60	0.417	5	08/30/19 06:09	08/30/19 15:47	7440-50-8	
Manganese	**1250**	mg/kg	1.60	0.200	5	08/30/19 06:09	08/30/19 15:47	7439-96-5	
Nickel	**18.3**	mg/kg	0.801	0.280	5	08/30/19 06:09	08/30/19 15:47	7440-02-0	
Selenium	**5.05**	mg/kg	0.801	0.304	5	08/30/19 06:09	08/30/19 15:47	7782-49-2	
7471 Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**0.11**	mg/kg	0.0043	0.0022	1	08/30/19 15:10	09/03/19 16:13	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**25.9**	%	0.10	0.10	1		08/29/19 16:58		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
Total Solids	**62.4**	%			1	09/04/19 19:37	09/04/19 19:45		
Wet Chemistry 7199	Analytical Method: EPA 7199 Preparation Method: 3060A								
Chromium, Hexavalent	ND	mg/kg	1.60	0.409	1	09/04/19 11:11	09/04/19 16:13	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: TCH-009
Pace Project No.: 92443252

Sample: SED-11 **Lab ID: 92443252004** Collected: 08/27/19 11:35 Received: 08/28/19 13:09 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	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Strontium	**49.4**	mg/kg	0.37	0.18	1	09/03/19 11:46	09/04/19 02:34	7440-24-6	
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3050B								
Arsenic	**6.08**	mg/kg	0.864	0.216	5	08/30/19 06:09	08/30/19 15:52	7440-38-2	
Barium	**317**	mg/kg	1.73	0.277	5	08/30/19 06:09	08/30/19 15:52	7440-39-3	
Beryllium	**1.19**	mg/kg	0.864	0.104	5	08/30/19 06:09	08/30/19 15:52	7440-41-7	
Cadmium	**0.235J**	mg/kg	0.864	0.138	5	08/30/19 06:09	08/30/19 15:52	7440-43-9	J
Chromium	**13.3**	mg/kg	1.73	0.467	5	08/30/19 06:09	08/30/19 15:52	7440-47-3	
Cobalt	**7.82**	mg/kg	0.864	0.225	5	08/30/19 06:09	08/30/19 15:52	7440-48-4	
Copper	**21.6**	mg/kg	1.73	0.449	5	08/30/19 06:09	08/30/19 15:52	7440-50-8	
Manganese	**351**	mg/kg	1.73	0.216	5	08/30/19 06:09	08/30/19 15:52	7439-96-5	
Nickel	**10.8**	mg/kg	0.864	0.302	5	08/30/19 06:09	08/30/19 15:52	7440-02-0	
Selenium	**1.71**	mg/kg	0.864	0.328	5	08/30/19 06:09	08/30/19 15:52	7782-49-2	
7471 Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**0.030**	mg/kg	0.0026	0.0013	1	08/30/19 15:10	09/03/19 16:15	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.8**	%	0.10	0.10	1		08/29/19 16:58		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
Total Solids	**57.9**	%			1	09/04/19 19:37	09/04/19 19:45		
Wet Chemistry 7199	Analytical Method: EPA 7199 Preparation Method: 3060A								
Chromium, Hexavalent	ND	mg/kg	1.73	0.441	1	09/04/19 11:11	09/04/19 16:18	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: TCH-009
Pace Project No.: 92443252

Sample: SED-13 **Lab ID: 92443252005** Collected: 08/27/19 11:30 Received: 08/28/19 13:09 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	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Strontium	**125**	mg/kg	0.56	0.28	1	09/03/19 11:46	09/04/19 02:37	7440-24-6	
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3050B								
Arsenic	**12.4**	mg/kg	1.01	0.253	5	08/30/19 06:09	08/30/19 16:06	7440-38-2	
Barium	**958**	mg/kg	2.03	0.324	5	08/30/19 06:09	08/30/19 16:06	7440-39-3	
Beryllium	**1.56**	mg/kg	1.01	0.122	5	08/30/19 06:09	08/30/19 16:06	7440-41-7	
Cadmium	**0.284J**	mg/kg	1.01	0.162	5	08/30/19 06:09	08/30/19 16:06	7440-43-9	J
Chromium	**29.4**	mg/kg	2.03	0.547	5	08/30/19 06:09	08/30/19 16:06	7440-47-3	
Cobalt	**13.9**	mg/kg	1.01	0.263	5	08/30/19 06:09	08/30/19 16:06	7440-48-4	
Copper	**38.9**	mg/kg	2.03	0.527	5	08/30/19 06:09	08/30/19 16:06	7440-50-8	
Manganese	**538**	mg/kg	2.03	0.253	5	08/30/19 06:09	08/30/19 16:06	7439-96-5	
Nickel	**19.2**	mg/kg	1.01	0.355	5	08/30/19 06:09	08/30/19 16:06	7440-02-0	
Selenium	**3.07**	mg/kg	1.01	0.385	5	08/30/19 06:09	08/30/19 16:06	7782-49-2	
7471 Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**0.12**	mg/kg	0.011	0.0057	2	09/06/19 11:25	09/06/19 14:53	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**36.4**	%	0.10	0.10	1		08/29/19 16:58		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
Total Solids	**49.4**	%			1	09/04/19 19:37	09/04/19 19:45		
Wet Chemistry 7199	Analytical Method: EPA 7199 Preparation Method: 3060A								
Chromium, Hexavalent	ND	mg/kg	2.03	0.517	1	09/04/19 11:11	09/04/19 16:23	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: TCH-009
Pace Project No.: 92443252

Sample: SED-12 **Lab ID: 92443252006** Collected: 08/27/19 11:40 Received: 08/28/19 13:09 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	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Strontium	**25.4**	mg/kg	0.55	0.28	1	09/03/19 11:46	09/04/19 02:40	7440-24-6	
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3050B								
Arsenic	**4.73**	mg/kg	0.842	0.210	5	08/30/19 06:09	08/30/19 16:10	7440-38-2	
Barium	**102**	mg/kg	1.68	0.269	5	08/30/19 06:09	08/30/19 16:10	7440-39-3	
Beryllium	**0.765J**	mg/kg	0.842	0.101	5	08/30/19 06:09	08/30/19 16:10	7440-41-7	J
Cadmium	**0.214J**	mg/kg	0.842	0.135	5	08/30/19 06:09	08/30/19 16:10	7440-43-9	J
Chromium	**27.6**	mg/kg	1.68	0.454	5	08/30/19 06:09	08/30/19 16:10	7440-47-3	
Cobalt	**6.17**	mg/kg	0.842	0.219	5	08/30/19 06:09	08/30/19 16:10	7440-48-4	
Copper	**23.1**	mg/kg	1.68	0.438	5	08/30/19 06:09	08/30/19 16:10	7440-50-8	
Manganese	**341**	mg/kg	1.68	0.210	5	08/30/19 06:09	08/30/19 16:10	7439-96-5	
Nickel	**7.69**	mg/kg	0.842	0.295	5	08/30/19 06:09	08/30/19 16:10	7440-02-0	
Selenium	**0.961**	mg/kg	0.842	0.320	5	08/30/19 06:09	08/30/19 16:10	7782-49-2	
7471 Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**0.042**	mg/kg	0.0033	0.0016	1	08/30/19 15:10	09/03/19 16:20	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**28.2**	%	0.10	0.10	1		08/29/19 16:58		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
Total Solids	**59.4**	%			1	09/04/19 19:37	09/04/19 19:45		
Wet Chemistry 7199	Analytical Method: EPA 7199 Preparation Method: 3060A								
Chromium, Hexavalent	ND	mg/kg	1.68	0.429	1	09/04/19 11:11	09/04/19 16:28	18540-29-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TCH-009
Pace Project No.: 92443252

Sample: SS-3A **Lab ID: 92443252007** Collected: 08/27/19 11:55 Received: 08/28/19 13:09 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	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Strontium	**119**	mg/kg	0.42	0.21	1	09/03/19 11:46	09/04/19 02:43	7440-24-6	
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3050B								
Arsenic	**23.4**	mg/kg	0.753	0.188	5	08/30/19 06:09	08/30/19 16:15	7440-38-2	
Barium	**1080**	mg/kg	1.51	0.241	5	08/30/19 06:09	08/30/19 16:15	7440-39-3	
Beryllium	**2.68**	mg/kg	0.753	0.0904	5	08/30/19 06:09	08/30/19 16:15	7440-41-7	
Cadmium	**0.226J**	mg/kg	0.753	0.121	5	08/30/19 06:09	08/30/19 16:15	7440-43-9	J
Chromium	**18.4**	mg/kg	1.51	0.407	5	08/30/19 06:09	08/30/19 16:15	7440-47-3	
Cobalt	**9.99**	mg/kg	0.753	0.196	5	08/30/19 06:09	08/30/19 16:15	7440-48-4	
Copper	**37.9**	mg/kg	1.51	0.392	5	08/30/19 06:09	08/30/19 16:15	7440-50-8	
Manganese	**463**	mg/kg	1.51	0.188	5	08/30/19 06:09	08/30/19 16:15	7439-96-5	
Nickel	**13.6**	mg/kg	0.753	0.264	5	08/30/19 06:09	08/30/19 16:15	7440-02-0	
Selenium	**3.79**	mg/kg	0.753	0.286	5	08/30/19 06:09	08/30/19 16:15	7782-49-2	
7471 Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**0.19**	mg/kg	0.016	0.0078	5	08/30/19 15:10	09/04/19 13:31	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**25.4**	%	0.10	0.10	1		08/29/19 16:58		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
Total Solids	**66.4**	%			1	09/04/19 19:37	09/04/19 19:45		
Wet Chemistry 7199	Analytical Method: EPA 7199 Preparation Method: 3060A								
Chromium, Hexavalent	ND	mg/kg	1.51	0.384	1	09/04/19 11:11	09/04/19 16:34	18540-29-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TCH-009
Pace Project No.: 92443252

Sample: EB-1 **Lab ID: 92443252008** Collected: 08/27/19 12:10 Received: 08/28/19 13:09 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A								
Arsenic	ND	ug/L	0.10	0.060	1	09/03/19 19:03	09/05/19 02:23	7440-38-2	
Barium	ND	ug/L	0.30	0.060	1	09/03/19 19:03	09/05/19 02:23	7440-39-3	
Beryllium	ND	ug/L	0.10	0.050	1	09/03/19 19:03	09/05/19 02:23	7440-41-7	
Cadmium	ND	ug/L	0.080	0.070	1	09/03/19 19:03	09/05/19 02:23	7440-43-9	
Chromium	ND	ug/L	0.50	0.42	1	09/03/19 19:03	09/05/19 02:23	7440-47-3	
Cobalt	ND	ug/L	0.10	0.050	1	09/03/19 19:03	09/05/19 02:23	7440-48-4	
Copper	ND	ug/L	0.50	0.23	1	09/03/19 19:03	09/05/19 02:23	7440-50-8	BC
Manganese	ND	ug/L	0.50	0.14	1	09/03/19 19:03	09/05/19 02:23	7439-96-5	
Nickel	ND	ug/L	0.50	0.11	1	09/03/19 19:03	09/05/19 02:23	7440-02-0	
Selenium	ND	ug/L	0.50	0.080	1	09/03/19 19:03	09/05/19 02:23	7782-49-2	
Strontium	ND	ug/L	0.50	0.060	1	09/03/19 19:03	09/05/19 02:23	7440-24-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	ug/L	0.20	0.10	1	09/03/19 14:35	09/04/19 16:31	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCH-009
Pace Project No.: 92443252

QC Batch: 1337397 Analysis Method: EPA 6020B
QC Batch Method: 3050B Analysis Description: Metals (ICPMS) 6020B
Associated Lab Samples: 92443252001

METHOD BLANK: R3446166-1 Matrix: Solid
Associated Lab Samples: 92443252001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.500	0.125	08/30/19 17:03	
Barium	mg/kg	ND	1.00	0.160	08/30/19 17:03	
Beryllium	mg/kg	ND	0.500	0.0600	08/30/19 17:03	
Cadmium	mg/kg	ND	0.500	0.0800	08/30/19 17:03	
Chromium	mg/kg	ND	1.00	0.270	08/30/19 17:03	
Cobalt	mg/kg	ND	0.500	0.130	08/30/19 17:03	
Copper	mg/kg	ND	1.00	0.260	08/30/19 17:03	
Manganese	mg/kg	ND	1.00	0.125	08/30/19 17:03	
Nickel	mg/kg	ND	0.500	0.175	08/30/19 17:03	
Selenium	mg/kg	ND	0.500	0.190	08/30/19 17:03	

LABORATORY CONTROL SAMPLE & LCSD: R3446166-2 R3446166-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Arsenic	mg/kg	100	93.1	92.6	93.1	92.6	80.0-120	0.598	20	
Barium	mg/kg	100	95.1	95.4	95.1	95.4	80.0-120	0.295	20	
Beryllium	mg/kg	100	91.5	92.1	91.5	92.1	80.0-120	0.665	20	
Cadmium	mg/kg	100	102	103	102	103	80.0-120	0.626	20	
Chromium	mg/kg	100	98.1	97.4	98.1	97.4	80.0-120	0.723	20	
Cobalt	mg/kg	100	101	99.5	101	99.5	80.0-120	1.72	20	
Copper	mg/kg	100	92.0	90.8	92.0	90.8	80.0-120	1.34	20	
Manganese	mg/kg	100	97.0	98.2	97.0	98.2	80.0-120	1.16	20	
Nickel	mg/kg	100	101	100	101	100	80.0-120	0.752	20	
Selenium	mg/kg	100	106	107	106	107	80.0-120	1.64	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3446166-6 R3446166-7

Parameter	Units	L1133715-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	5.02	23.7	23.7	109	107	87.9	85.6	75.0-125	2.60	20	
Barium	mg/kg	146	23.7	23.7	270	251	105	89.0	75.0-125	7.06	20	
Cadmium	mg/kg	0.333	23.7	23.7	131	125	111	105	75.0-125	4.72	20	
Chromium	mg/kg	50.3	23.7	23.7	142	140	77.3	75.8	75.0-125	1.20	20	
Copper	mg/kg	24.7	23.7	23.7	142	136	98.9	93.5	75.0-125	4.60	20	
Selenium	mg/kg	0.887	23.7	23.7	137	128	114	107	75.0-125	6.88	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCH-009
Pace Project No.: 92443252

QC Batch: 1337400 Analysis Method: EPA 6020B
QC Batch Method: 3050B Analysis Description: Metals (ICPMS) 6020B
Associated Lab Samples: 92443252002, 92443252003, 92443252004, 92443252005, 92443252006, 92443252007

METHOD BLANK: R3446129-1 Matrix: Solid
Associated Lab Samples: 92443252002, 92443252003, 92443252004, 92443252005, 92443252006, 92443252007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.500	0.125	08/30/19 15:11	
Barium	mg/kg	ND	1.00	0.160	08/30/19 15:11	
Beryllium	mg/kg	ND	0.500	0.0600	08/30/19 15:11	
Cadmium	mg/kg	ND	0.500	0.0800	08/30/19 15:11	
Chromium	mg/kg	ND	1.00	0.270	08/30/19 15:11	
Cobalt	mg/kg	ND	0.500	0.130	08/30/19 15:11	
Copper	mg/kg	ND	1.00	0.260	08/30/19 15:11	
Manganese	mg/kg	ND	1.00	0.125	08/30/19 15:11	
Nickel	mg/kg	ND	0.500	0.175	08/30/19 15:11	
Selenium	mg/kg	ND	0.500	0.190	08/30/19 15:11	

LABORATORY CONTROL SAMPLE & LCSD: R3446129-2 R3446129-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Arsenic	mg/kg	100	93.1	88.7	93.1	88.7	80.0-120	4.91	20	
Barium	mg/kg	100	92.8	92.1	92.8	92.1	80.0-120	0.813	20	
Beryllium	mg/kg	100	92.4	87.6	92.4	87.6	80.0-120	5.25	20	
Cadmium	mg/kg	100	101	99.1	101	99.1	80.0-120	2.35	20	
Chromium	mg/kg	100	99.0	92.9	99.0	92.9	80.0-120	6.42	20	
Cobalt	mg/kg	100	101	95.5	101	95.5	80.0-120	5.69	20	
Copper	mg/kg	100	90.6	84.9	90.6	84.9	80.0-120	6.57	20	
Manganese	mg/kg	100	100	93.3	100	93.3	80.0-120	7.04	20	
Nickel	mg/kg	100	101	95.5	101	95.5	80.0-120	5.86	20	
Selenium	mg/kg	100	105	101	105	101	80.0-120	4.05	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3446129-6 R3446129-7

Parameter	Units	92443252002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	3.89	33.7	33.7	158	149	91.5	86.0	75.0-125	6.11	20	
Barium	mg/kg	251	33.7	33.7	417	377	98.9	75.3	75.0-125	10.0	20	
Beryllium	mg/kg	0.759	33.7	33.7	158	151	93.5	89.1	75.0-125	4.78	20	
Cadmium	mg/kg	0.328	33.7	33.7	181	170	107	101	75.0-125	6.60	20	
Chromium	mg/kg	19.2	33.7	33.7	182	173	96.8	91.2	75.0-125	5.34	20	
Cobalt	mg/kg	9.08	33.7	33.7	181	170	102	95.3	75.0-125	6.64	20	
Copper	mg/kg	24.0	33.7	33.7	186	174	96.4	88.8	75.0-125	7.10	20	
Manganese	mg/kg	549	33.7	33.7	696	653	86.7	61.7	75.0-125	6.24	20	ML
Nickel	mg/kg	9.64	33.7	33.7	178	168	100	94.3	75.0-125	5.68	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCH-009
Pace Project No.: 92443252

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3446129-6 R3446129-7

Parameter	Units	92443252002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Selenium	mg/kg	1.46	33.7	33.7	189	173	111	102	75.0-125	8.54	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCH-009
Pace Project No.: 92443252

QC Batch: 495629 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 92443252008

METHOD BLANK: 2670079 Matrix: Water
Associated Lab Samples: 92443252008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.10	09/04/19 16:27	

LABORATORY CONTROL SAMPLE: 2670080

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.6	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2670081 2670082

Parameter	Units	92443193001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.3	2.5	90	97	75-125	7	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCH-009
Pace Project No.: 92443252

QC Batch: 495379 Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B Analysis Description: 7471 Mercury
Associated Lab Samples: 92443252001, 92443252002, 92443252003, 92443252004, 92443252006, 92443252007

METHOD BLANK: 2669054 Matrix: Solid
Associated Lab Samples: 92443252001, 92443252002, 92443252003, 92443252004, 92443252006, 92443252007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.0060	0.0030	09/03/19 14:20	

LABORATORY CONTROL SAMPLE: 2669055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.083	0.076	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2669056 2669057

Parameter	Units	92443374001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	0.076	0.078	0.038	0.042	46	49	75-125	9	20	H3,M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCH-009
Pace Project No.: 92443252

QC Batch: 496370 Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B Analysis Description: 7471 Mercury
Associated Lab Samples: 92443252005

METHOD BLANK: 2673342 Matrix: Solid
Associated Lab Samples: 92443252005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.0060	0.0030	09/06/19 14:37	

LABORATORY CONTROL SAMPLE: 2673343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.083	0.075	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2673344 2673345

Parameter	Units	92443382001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.18	0.033	0.032	0.19	0.20	45	63	75-125	3	20	H3,M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TCH-009
Pace Project No.: 92443252

QC Batch: 495641 Analysis Method: EPA 6010D
QC Batch Method: EPA 3050B Analysis Description: 6010 MET
Associated Lab Samples: 92443252001, 92443252002, 92443252003, 92443252004, 92443252005, 92443252006, 92443252007

METHOD BLANK: 2670155 Matrix: Solid
Associated Lab Samples: 92443252001, 92443252002, 92443252003, 92443252004, 92443252005, 92443252006, 92443252007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Strontium	mg/kg	ND	0.50	0.25	09/04/19 02:03	

LABORATORY CONTROL SAMPLE: 2670156

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Strontium	mg/kg	50	49.0	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2670157 2670158

Parameter	Units	92443252001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Strontium	mg/kg	198	58.9	58.9	261	260	108	105	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: TCH-009
Pace Project No.: 92443252

QC Batch: 495760 Analysis Method: EPA 6020B
QC Batch Method: EPA 3010A Analysis Description: 6020 MET
Associated Lab Samples: 92443252008

METHOD BLANK: 2670881 Matrix: Water
Associated Lab Samples: 92443252008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	ND	0.10	0.060	09/05/19 00:49	
Barium	ug/L	ND	0.30	0.060	09/05/19 00:49	
Beryllium	ug/L	ND	0.10	0.050	09/05/19 00:49	
Cadmium	ug/L	ND	0.080	0.070	09/05/19 00:49	
Chromium	ug/L	ND	0.50	0.42	09/05/19 00:49	
Cobalt	ug/L	ND	0.10	0.050	09/05/19 00:49	
Copper	ug/L	0.25J	0.50	0.23	09/05/19 00:49	BC
Manganese	ug/L	ND	0.50	0.14	09/05/19 00:49	
Nickel	ug/L	ND	0.50	0.11	09/05/19 00:49	
Selenium	ug/L	ND	0.50	0.080	09/05/19 00:49	
Strontium	ug/L	ND	0.50	0.060	09/05/19 00:49	

LABORATORY CONTROL SAMPLE: 2670882

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	10	10.4	104	80-120	
Barium	ug/L	50	53.1	106	80-120	
Beryllium	ug/L	10	9.6	96	80-120	
Cadmium	ug/L	10	10.6	106	80-120	
Chromium	ug/L	50	53.3	107	80-120	
Cobalt	ug/L	10	10.6	106	80-120	
Copper	ug/L	50	56.1	112	80-120	BC
Manganese	ug/L	50	52.1	104	80-120	
Nickel	ug/L	50	52.8	106	80-120	
Selenium	ug/L	50	49.4	99	80-120	
Strontium	ug/L	50	53.2	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2670883 2670884

Parameter	Units	92442359001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	0.099J	10	10	10.3	10.1	102	100	75-125	1	20	
Barium	ug/L	34.8	50	50	87.8	86.2	106	103	75-125	2	20	
Beryllium	ug/L	ND	10	10	9.5	9.3	94	93	75-125	2	20	
Cadmium	ug/L	ND	10	10	10.5	10.3	105	103	75-125	2	20	
Chromium	ug/L	0.48J	50	50	53.4	52.4	106	104	75-125	2	20	
Cobalt	ug/L	0.54J	10	10	11.1	10.9	105	103	75-125	2	20	
Copper	ug/L	0.62	50	50	55.5	54.5	110	108	75-125	2	20	BC

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: TCH-009
Pace Project No.: 92443252

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2670883 2670884

Parameter	Units	92442359001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese	ug/L	99.1	50	50	152	151	107	103	75-125	1	20	
Nickel	ug/L	0.37J	50	50	52.3	51.8	104	103	75-125	1	20	
Selenium	ug/L	ND	50	50	47.2	46.7	94	93	75-125	1	20	
Strontium	ug/L	42.7	50	50	96.3	95.2	107	105	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: TCH-009
Pace Project No.: 92443252

QC Batch: 495215 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92443252001, 92443252002, 92443252003, 92443252004, 92443252005, 92443252006, 92443252007

SAMPLE DUPLICATE: 2668484

Parameter	Units	92443252001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	25.5	26.5	4	25	

SAMPLE DUPLICATE: 2668485

Parameter	Units	92443493004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	28.3	28.0	1	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: TCH-009
Pace Project No.: 92443252

QC Batch: 1339889 Analysis Method: SM 2540G
QC Batch Method: SM 2540 G Analysis Description: Total Solids 2540 G-2011
Associated Lab Samples: 92443252001, 92443252002, 92443252003, 92443252004, 92443252005, 92443252006, 92443252007

METHOD BLANK: R3447496-1 Matrix: Solid
Associated Lab Samples: 92443252001, 92443252002, 92443252003, 92443252004, 92443252005, 92443252006, 92443252007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Solids	%	0.00100			09/04/19 19:45	

LABORATORY CONTROL SAMPLE: R3447496-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	50.2	100	85.0-115	

SAMPLE DUPLICATE: R3447496-3

Parameter	Units	92443252003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	62.4	68.1	8.75	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: TCH-009
Pace Project No.: 92443252

QC Batch: 1338392 Analysis Method: EPA 7199
QC Batch Method: 3060A Analysis Description: Wet Chemistry 7199
Associated Lab Samples: 92443252001, 92443252002, 92443252003, 92443252004, 92443252005, 92443252006, 92443252007

METHOD BLANK: R3447284-1 Matrix: Solid
Associated Lab Samples: 92443252001, 92443252002, 92443252003, 92443252004, 92443252005, 92443252006, 92443252007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	ND	1.00	0.255	09/04/19 15:39	

LABORATORY CONTROL SAMPLE: R3447284-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	10.0	9.64	96.4	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3447284-4 R3447284-5

Parameter	Units	L1134612-03 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/kg	ND	25.4	25.4	17.7	19.3	69.8	75.9	75.0-125	8.42	20	ML

MATRIX SPIKE SAMPLE: R3447284-6

Parameter	Units	L1134612-03 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	ND	1020	932	91.5	75.0-125	

SAMPLE DUPLICATE: R3447284-3

Parameter	Units	92443252001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	ND	ND	0.00	20	

SAMPLE DUPLICATE: R3447284-8

Parameter	Units	L1134612-04 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	0.337	ND	200	20	D8

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: TCH-009
Pace Project No.: 92443252

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.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PAN	Pace Analytical National
PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

BC	The same analyte was detected in an associated blank at a concentration above 1/2 the reporting limit but below the laboratory reporting limit.
D8	The sample and duplicate results for this parameter are less than 5 times the reporting limit, the RPD may not be statistically valid.
H3	Sample was received or analysis requested beyond the recognized method holding time.
J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
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.

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TCH-009
Pace Project No.: 92443252

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92443252001	**SED-17**	EPA 3050B	495641	EPA 6010D	495789
92443252002	**SED-15**	EPA 3050B	495641	EPA 6010D	495789
92443252003	**SED-16**	EPA 3050B	495641	EPA 6010D	495789
92443252004	**SED-11**	EPA 3050B	495641	EPA 6010D	495789
92443252005	**SED-13**	EPA 3050B	495641	EPA 6010D	495789
92443252006	**SED-12**	EPA 3050B	495641	EPA 6010D	495789
92443252007	**SS-3A**	EPA 3050B	495641	EPA 6010D	495789
92443252008	**EB-1**	EPA 3010A	495760	EPA 6020B	495803
92443252001	**SED-17**	3050B	1337397	EPA 6020B	1337397
92443252002	**SED-15**	3050B	1337400	EPA 6020B	1337400
92443252003	**SED-16**	3050B	1337400	EPA 6020B	1337400
92443252004	**SED-11**	3050B	1337400	EPA 6020B	1337400
92443252005	**SED-13**	3050B	1337400	EPA 6020B	1337400
92443252006	**SED-12**	3050B	1337400	EPA 6020B	1337400
92443252007	**SS-3A**	3050B	1337400	EPA 6020B	1337400
92443252008	**EB-1**	EPA 7470A	495629	EPA 7470A	495735
92443252001	**SED-17**	EPA 7471B	495379	EPA 7471B	495489
92443252002	**SED-15**	EPA 7471B	495379	EPA 7471B	495489
92443252003	**SED-16**	EPA 7471B	495379	EPA 7471B	495489
92443252004	**SED-11**	EPA 7471B	495379	EPA 7471B	495489
92443252005	**SED-13**	EPA 7471B	496370	EPA 7471B	496488
92443252006	**SED-12**	EPA 7471B	495379	EPA 7471B	495489
92443252007	**SS-3A**	EPA 7471B	495379	EPA 7471B	495489
92443252001	**SED-17**	ASTM D2974-87	495215		
92443252002	**SED-15**	ASTM D2974-87	495215		
92443252003	**SED-16**	ASTM D2974-87	495215		
92443252004	**SED-11**	ASTM D2974-87	495215		
92443252005	**SED-13**	ASTM D2974-87	495215		
92443252006	**SED-12**	ASTM D2974-87	495215		
92443252007	**SS-3A**	ASTM D2974-87	495215		
92443252001	**SED-17**	SM 2540 G	1339889	SM 2540G	1339889
92443252002	**SED-15**	SM 2540 G	1339889	SM 2540G	1339889
92443252003	**SED-16**	SM 2540 G	1339889	SM 2540G	1339889
92443252004	**SED-11**	SM 2540 G	1339889	SM 2540G	1339889
92443252005	**SED-13**	SM 2540 G	1339889	SM 2540G	1339889
92443252006	**SED-12**	SM 2540 G	1339889	SM 2540G	1339889
92443252007	**SS-3A**	SM 2540 G	1339889	SM 2540G	1339889
92443252001	**SED-17**	3060A	1338392	EPA 7199	1338392
92443252002	**SED-15**	3060A	1338392	EPA 7199	1338392
92443252003	**SED-16**	3060A	1338392	EPA 7199	1338392
92443252004	**SED-11**	3060A	1338392	EPA 7199	1338392
92443252005	**SED-13**	3060A	1338392	EPA 7199	1338392
92443252006	**SED-12**	3060A	1338392	EPA 7199	1338392
92443252007	**SS-3A**	3060A	1338392	EPA 7199	1338392

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TCH-009
Pace Project No.: 92443252

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

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☒ Mechanicsville ☐

Sample Condition Upon Receipt

Client Name: Hart & Hickman

Project # WO#: 92443252

92443252

Courier: ☐ Commercial ☑ Pace ☐ Fed Ex ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: JWB 8/28/19

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 91T005 Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp (°C): 2.6 Correction Factor: Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 2.5

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

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 ☐ No

Did 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: JH Date: 8/28/19

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

*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 bottle

Project **WO# : 92443252**

PM: KRG Due Date: 09/05/19

CLIENT: 92-Hart_Ral

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)	BP4C-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)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (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)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation Vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1									3																				
2									3																				
3									3																				
4									3																				
5									3																				
6									3																				
7									3																				
8																													
9					1																								
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 DEHNR Certification Office (i.e.

Pace Analytical

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

Section A — Required Client Information:

Company:	Hart & Hickman
Address:	3921 Sunset Ridge Rd
Suite 301, Raleigh, NC 27607	
Email:	
Phone: (252)548-9191	Fax:
Requested Due Date:	Standard turn around

Section B — Required Project Information:

Report To:	Ballard, Justin JBallard@hartandhickman.com
Copy To:	Jeffrey Ollison JOllison@hartandhickman.com
Purchase Order #:	
Project Name:	TGH-009
Project #:	TGH-004

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	kevin.godwin@pacelabs.com,
Pace Profile #:	9481-1,2

Regulatory Agency: —

State / Location: NC

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): 6020	6010 (Si), 7471	7199 Hexavalent Chromium	6020, 7470	Residual Chlorine (Y/N)	92443252
1	SED-17	SL	G			8-27-19	1100		3	X									X	X	X			001
2	SED-15	SL	G				1110		1	1														002
3	SED-16	SL	G				1125																	003
4	SED-11	SL	G				1135																	004
5	SED-13	SL	G				1130																	005
6	SED-12A	SL	G		1140		~~1140~~ 1130 SA																	006
7	SS-3A	SL	G		1155		~~1146~~ SA ~~1155~~ SA		↓	↓														007
8																								
9	EB-1	WT	G				1210		1			X										X		008
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	H&H				8/28/19	1309				
	H&H	8/28/19	1338		8/28/19	1338	2.6	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jeffrey Ollison

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/27/19

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

Table 1 (page 1 of 2)
Summary of Soil Analytical Data
828 Martin Luther King, Jr. Blvd.
Chapel Hill, North Carolina
H&H Job No. TCH-009

Sample ID	Sample Date	Material Sampled (Soil or CCP)	Sample Depth	aluminum	antimony	arsenic	barium	beryllium	boron	cadmium	calcium	hexavalent chromium	trivalent chromium	total chromium	cobalt	copper	iron	lead	magnesium	manganese	mercury	molybdenum	nickel	potassium	selenium	silver	sodium	strontium	thallium	vanadium	zinc
S-4	4/29/2013	CCP	1 ft	23,000	ND	**14**	24	ND	NA	1.5	9,900	NA	NA	22	30	65	59,000	20	9,000	**1,500**	0.011	NA	43	680	ND	ND	150	NA	ND	21	120
S-5	1/31/2014	CCP	0-4 ft	NA	NA	**37**	**2,800**	NA	NA	ND	NA	1.3	19.7	21	NA	NA	NA	10	NA	NA	0.30	NA	NA	NA	**3.2**	ND	NA	NA	NA	NA	NA
S-6	1/31/2014	CCP	0-4 ft	NA	NA	**43**	**3,200**	NA	NA	ND	NA	2.7	19.3	22	NA	NA	NA	12	NA	NA	0.42	NA	NA	NA	**6.1**	ND	NA	NA	NA	NA	NA
S-7	1/31/2014	CCP	0-4 ft	NA	NA	**44**	**2,500**	NA	NA	ND	NA	1.4	27.6	29	NA	NA	NA	11	NA	NA	0.44	NA	NA	NA	**4.5**	ND	NA	NA	NA	NA	NA
GP-1	2/3/2014	CCP	8-12 ft	NA	NA	3.5	86	NA	NA	ND	NA	ND	8.8	8.8	NA	NA	NA	26	NA	NA	0.083	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA
GP-2	2/3/2014	CCP	26-28 ft	NA	NA	**41**	**1,100**	NA	NA	ND	NA	ND	19	19	NA	NA	NA	11	NA	NA	0.24	NA	NA	NA	**4.0**	ND	NA	NA	NA	NA	NA
GP-3	2/3/2014	CCP	10-12 ft	NA	NA	**48**	**1,200**	NA	NA	ND	NA	0.53	22.47	23	NA	NA	NA	39	NA	NA	0.42	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA
GP-4	2/4/2014	CCP	10-12 ft	NA	NA	**59**	**2,900**	NA	NA	ND	NA	ND	20	20	NA	NA	NA	11	NA	NA	0.51	NA	NA	NA	**5.8**	ND	NA	NA	NA	NA	NA
GP-5	2/4/2014	CCP	4-6 ft	NA	NA	**72**	**2,800**	NA	NA	ND	NA	ND	19	19	NA	NA	NA	9.5	NA	NA	0.33	NA	NA	NA	**2.6**	ND	NA	NA	NA	NA	NA
	4/3/2019	CCP	4-6 ft	NA	NA	**95.9**	**2,350**	5.46	NA	<0.956	NA	0.836 J	12.3	13.1	7.05	50.9	NA	NA	NA	34.7	**1.2**	NA	11.1	NA	**12.0**	NA	NA	325	NA	NA	NA
	4/3/2019[3]	CCP	4-6 ft	NA	NA	**95.9**	**2,630**	6.99	NA	<0.931	NA	0.712 J	16.2	16.9	10.3	62.5	NA	NA	NA	53.4	0.39	NA	17.1	NA	**13.0**	NA	NA	308	NA	NA	NA
GP-6	2/4/2014	CCP	9-11 ft	NA	NA	**55**	**850**	NA	NA	ND	NA	ND	19	19	NA	NA	NA	**27**	NA	NA	**11**	NA	NA	NA	**4.1**	ND	NA	NA	NA	NA	NA
	4/4/2019	CCP	9-10 ft	NA	NA	**6.73**	178	0.758	NA	0.118 J	NA	<1.11	10.0	10.0	5.18	11.0	NA	NA	NA	687	0.050	NA	6.24	NA	0.880	NA	NA	21.7	NA	NA	NA
GP-7	2/4/2014	CCP	10-12 ft	NA	NA	**55**	**1,700**	NA	NA	ND	NA	ND	19	19	NA	NA	NA	11	NA	NA	0.26	NA	NA	NA	**4.3**	ND	NA	NA	NA	NA	NA
GP-8	2/4/2014	CCP	11-15 ft	NA	NA	**54**	**4,100**	NA	NA	ND	NA	ND	20	20	NA	NA	NA	9.2	NA	NA	0.29	NA	NA	NA	**4.5**	ND	NA	NA	NA	NA	NA
GP-11	2/4/2014	CCP	4-6 ft	NA	NA	**16**	450	NA	NA	ND	NA	ND	16	16	NA	NA	NA	23	NA	NA	0.35	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA
GP-12	2/4/2014	CCP	2-4 ft	NA	NA	**52**	**2,000**	NA	NA	ND	NA	ND	19	19	NA	NA	NA	14	NA	NA	0.28	NA	NA	NA	2.1	ND	NA	NA	NA	NA	NA
SS1	2/18/2016	Soil/CCP	2-12 in	NA	ND	**6.7**	210	1.2	ND	ND	NA	NA	NA	28	25	47	NA	22	NA	2,400	0.052	ND	15	NA	ND	ND	NA	120	1.3	88	100
SS1-Dup [1]	2/18/2016	Soil/CCP	2-12 in	NA	ND	**8.5**	260	1.4	NA	ND	NA	NA	NA	31	28	56	NA	29	NA	3,300	0.059	ND	18	NA	ND	ND	NA	150	1.7	95	110
SS2	2/18/2016	Soil/CCP	2-12 in	NA	ND	**24**	**830**	3.5	ND	ND	NA	NA	NA	27	20	57	NA	39	NA	**1,700**	0.21	1.7	19	NA	**2.4**	ND	NA	190	1.2	81	110
SS3	2/18/2016	Soil	2-12 in	NA	ND	4.5	100	0.80	ND	ND	NA	NA	NA	13	6.8	22	NA	14	NA	240	0.048	ND	5.3	NA	ND	ND	NA	36	ND	41	28
SS-3A	8/27/2019	Soil	0-2 in	NA	NA	**23.4**	**1,080**	2.68	NA	0.226 J	NA	<1.51	18.4	18.4	9.99	37.9	NA	NA	NA	463	0.19	NA	13.6	NA	**3.79**	NA	NA	NA	NA	NA	NA
SS4	2/18/2016	Soil	2-12 in	NA	ND	**8.5**	380	1.2	ND	ND	NA	NA	NA	22	12	29	NA	25	NA	910	0.061	ND	12	NA	ND	ND	NA	51	ND	54	51
SS5	2/18/2016	Soil	2-12 in	NA	ND	4.8	130	0.89	ND	ND	NA	NA	NA	17	9.4	25	NA	27	NA	460	0.091	ND	7.9	NA	ND	ND	NA	43	ND	47	48
SS6	2/18/2016	Soil	2-12 in	NA	ND	3.1	82	0.70	ND	ND	NA	NA	NA	35	7.6	23	NA	17	NA	410	0.038	ND	6.5	NA	ND	ND	NA	25	ND	45	43
SS7	2/18/2016	Soil	2-12 in	NA	ND	3.1	84	0.60	ND	ND	NA	NA	NA	14	6.9	15	NA	13	NA	500	0.038	ND	5.9	NA	ND	ND	NA	31	ND	37	37
HH-1	11/3/2016	Soil	0-1 ft	NA	<0.29	**5.9**	120	1.00	NA	<0.29	NA	0.45	20.55	21	7.9	25	NA	27	NA	350	0.052	NA	8.8	NA	0.69	NA	NA	31	<0.58	48	50
	11/3/2016[1]	Soil	0-1 ft	NA	<0.35	3.4	110	0.79	NA	<0.35	NA	0.54	19.46	20	8.4	17	NA	18	NA	360 BH	0.067	NA	12	NA	<0.71	NA	NA	30	<0.71	41	35
HH-2	11/3/2016	Soil	0-1 ft	NA	<0.29	4.9	140	0.93	NA	<0.29	NA	0.43	13.57	14	12	21	NA	30	NA	260	0.085	NA	5.9	NA	1.0	NA	NA	25	<0.58	48	43
HH-3	11/3/2016	Soil	0-1 ft	NA	<0.33	**9.9**	200	1.30	NA	<0.33	NA	0.46 J	17.54	18	7.8	31	NA	24	NA	350	0.076	NA	8.9	NA	**2.4**	NA	NA	36	<0.65	53	100
HH-4	11/3/2016	Soil	0-1 ft	NA	<0.28	2.4	72	1.00	NA	<0.28	NA	0.50	44.5	45	16	37	NA	2.3	NA	630	<0.023	NA	33	NA	<0.56	NA	NA	42	0.60	73	70
HH-5	11/3/2016	Soil	0-1 ft	NA	<0.30	2.4	73	0.75	NA	<0.30	NA	<0.14	23	23	8.4	19	NA	9.3	NA	410	<0.025	NA	14	NA	1.2	NA	NA	23	<0.60	39	51
HH-6	10/27/2016	Soil	0-1 ft	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HH-7	10/27/2016	Soil	0-1 ft	NA	NA	NA	NA	NA	NA	NA	NA	<0.61	22	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HH-8	10/27/2016	Soil	0-1 ft	NA	<0.30	3.6	100	1.00	NA	<0.30	NA	<0.35	19	19	12	29	NA	18	NA	570	0.036	NA	9.0	NA	<0.60	NA	NA	28	<0.60	52	54
HH-9	4/3/2019	CCP	0-1 ft	NA	NA	3.37	131	0.398 J	NA	0.178 J	NA	<1.29	12.7	12.7	5.97	14.5	NA	NA	NA	260	0.31	NA	3.59	NA	0.722	NA	NA	33.2	NA	NA	NA
HH-10	4/3/2019	CCP	0-1 ft	NA	NA	**60.3**	**2,970**	5.14	NA	0.162 J	NA	<1.60	13.8	13.8	9.84	51.3	NA	NA	NA	73.3	0.22	NA	17.1	NA	5.04	NA	NA	269	NA	NA	NA
HH-11	4/3/2019	CCP	0-1 ft	NA	NA	**42.5**	**3,260**	5.90	NA	0.220 J	NA	0.467 J	18.7	19.2	13.4	55.3	NA	NA	NA	113	0.43	NA	23.5	NA	9.05	NA	NA	234	NA	NA	NA
MW-6	11/2/2016	Soil	0-1 ft	NA	<0.26	2.9	38	0.61	NA	<0.26	NA	0.21 J	9.79	10	9.5	23	NA	12	NA	570	0.082	NA	8.2	NA	1.0	NA	NA	22	0.81	31	77
MW-7	11/1/2016	Soil	0-1 ft	NA	<0.30	2.6	67	0.87	NA	<0.30	NA	0.89	9.11	10	3.9	180	NA	7.6	NA	100	0.030	NA	2.9	NA	<0.59	NA	NA	6.7	<0.59	61	46
SED-3A	4/5/2019	Soil	0-1 ft	NA	NA	3.45	33.9	0.418 J	NA	<0.582	NA	<1.16	17.4	17.4	16.5	6.97	NA	NA	NA	560	<0.0054	NA	5.82	NA	0.237 J	NA	NA	9.6	NA	NA	NA
SED-5A	4/4/2019	Soil	0-1 ft	NA	NA	1.25	13.5	0.156 J	NA	<0.571	NA	0.352 J	13.2	13.6	5.95	39.1	NA	NA	NA	243	0.0071	NA	4.38	NA	<0.571	NA	NA	10.9	NA	NA	NA
SED-8	4/5/2019	Drainage Pathway Soil	2-6 in	NA	NA	2.41	49.1	0.313 J	NA	0.122 J	NA	<1.25	12.0	12.0	7.01	14.3	NA	NA	NA	423	0.063	NA	4.66	NA	1.01	NA	NA	15.2	NA	NA	NA
SED-9	4/5/2019	Drainage Pathway Soil	2-6 in	NA	NA	1.16	33.8	0.199 J	NA	<0.660	NA	0.461 J	21.6	22.1	9.11	10.1	NA	NA	NA	431	0.013	NA	6.68	NA	<0.660	NA	NA	16.7	NA	NA	NA
SED-10	4/5/2019	Drainage Pathway Soil	2-6 in	NA	NA	1.29	24.4	0.118 J	NA	0.221 J	NA	0.418 J	12.0	12.4	4.43	10.8	NA	NA	NA	195	0.037	NA	4.03	NA	0.273 J	NA	NA	8.1	NA	NA	NA
SED-11	4/5/2019	Drainage Pathway Soil/CCP	2-6 in	NA	NA	**5.98**	285	0.768	NA	<0.753	NA	<1.51	9.72	9.72 B	6.61	15.1	NA	NA	NA	288	0.14	NA	7.03	NA	2.03	NA	NA	65.0	NA	NA	NA
	8/27/2019	Drainage Pathway Soil/CCP	0-2 in	NA	NA	**6.08**	317	1.19	NA	0.235 J	NA	<1.73	13.3	13.3	7.82	21.6	NA	NA	NA	351	0.030	NA	10.8	NA	1.71	NA	NA	NA	NA	NA	NA
SED-12	4/5/2019	Drainage Pathway Soil	2-6 in	NA	NA	3.97	122	0.499 J	NA	0.204 J	NA	<1.74	9.45	9.45 B	6.04	19.7	NA	NA	NA	319	0.077	NA	4.95	NA	1.36	NA	NA	32.8	NA	NA	NA
	8/27/2019	Drainage Pathway Soil	0-2 in	NA	NA	4.73	102	0.765 J	NA	0.214 J	NA	<1.68	27.6	27.6	6.17	23.1	NA	NA	NA	341	0.042	NA	7.69	NA	0.961	NA	NA	NA	NA	NA	NA
SED-13	4/5/2019	Drainage Pathway Soil	2-6 in	NA	NA	**14.5**	**724**	1.10	NA	0.171 J	NA	<1.58	14.0	14.0	7.58	27.1	NA	NA	NA	563	0.075	NA	8.73	NA	1.69	NA	NA	70.5	NA	NA	NA
	8/27/2019	Drainage Pathway Soil	0-2 in	NA	NA	**12.4**	**958**	1.56	NA	0.284 J	NA	<2.03	29.4	29.4	13.9	38.9	NA	NA	NA	538	0.12	NA	19.2	NA	**3.07**	NA	NA	NA	NA	NA	NA
SED-14	4/5/2019	Drainage Pathway Soil	2-6 in	NA	NA	1.86	18.9	0.152 J	NA	<0.611	NA	0.506 J	17.2	17.7	5.07	8.00	NA	NA	NA	231	0.012	NA	3.19	NA	<0.611	NA	NA	17.3	NA	NA	NA
SED-15	4/5/2019	Drainage Pathway Soil	2-6 in	NA	NA	5.33	98.1	0.641 J	NA	<0.746	NA	<1.49	15.2	15.2	8.84	19.4	NA	NA	NA	550	0.030	NA	8.24	NA	**2.36**	NA	NA	39.5	NA	NA	NA
	8/27/2019	Drainage Pathway Soil	0-2 in	NA	NA	3.89	251	0.759 J	NA	0.328 J	NA	0.458 J	18.7	19.2	9.08	24.0	NA	NA	NA	549	0.035	NA	9.64	NA	1.46	NA	NA	NA	NA	NA	NA
SED-16	4/5/2019	Drainage Pathway Soil/CCP	2-6 in	NA	NA	**28.3**	**758**	2.86	NA	0.238 J	NA	<2.03	22.8	22.8	13.7	48.8	NA	NA	NA	513	0.22	NA	17.7	NA	**5.42**	NA	NA	165	NA	NA	NA
	8/27/2019	Drainage Pathway Soil/CCP	0-2 in	NA	NA	**21.0**	**739**	2.96	NA	0.414 J	NA	<1.60	23.4	23.4	17.8	50.9	NA	NA	Na	**1,250**	0.11	NA	18.3	NA	**5.05**	NA	NA	NA	NA	NA	NA
SED-17	4/5/2019	Drainage Pathway Soil/CCP	2-6 in	NA	NA	**15.3**	565	1.98	NA	0.280 J	NA	<2.01	20.7	20.7	13.7	36.3	NA	NA	NA	452	0.14	NA	14.8	NA	**3.68**	NA	NA	179	NA	NA	NA
	8/27/2019	Drainage Pathway Soil/CCP	0-2 in	NA	NA	**33.8**	**1,420**	4.18	NA	0.336 J	NA	<1.95	17.3	17.3	10.3	53.1	NA	NA	NA	296	0.24	NA	16.2	NA	**6.84**	NA	NA	NA	NA	NA	NA
SED-18	4/5/2019	Drainage Pathway Soil	2-6 in	NA	NA	4.53	137	0.534 J	NA	<0.689	NA	<1.38	18.7	18.7	11.1	28.2	NA	NA	NA	464	0.051	NA	9.00	NA	1.85	NA	NA	32.6	NA	NA	NA
SED-19	4/5/2019	Drainage Pathway Soil	2-6 in	NA	NA	1.55	20.0	0.161 J	NA	<0.588	NA	0.435 J	21.7	22.1	7.98	8.38	NA	NA	NA	266	0.0073	NA	4.94	NA	0.334 J	NA	NA	15.0	NA	NA	NA
SED-20	4/5/2019	Drainage Pathway Soil	2-6 in	NA	NA	0.792	31.4	0.152 J	NA	<0.687	NA	<1.37	5.76	5.76 B	4.50	9.10	NA	NA	NA	360	0.012	NA	2.19	NA	0.263 J	NA	NA	11.5	NA	NA	NA
SED-21	4/5/2019	Drainage Pathway Soil	2-6 in	NA	NA	1.12	25.9	0.149 J	NA	<0.591	NA	<1.18	20.9	20.9	4.44	6.58	NA	NA	NA	221	0.011	NA	2.70	NA	0.286 J	NA	NA	12.8	NA	NA	NA
MW-5 (background)	11/2/2016	Soil	0-1 ft	NA	<0.30	2.1	76	0.99	NA	<0.30	NA	0.43 J	17.57	18	27	49	NA	4.0	NA	710	<0.023	NA	5.0	NA	<0.59	NA	NA	25	<0.59	190	47
	11/2/2016	Soil	6-7 ft	NA	<0.27	1.4	61	0.60	NA	<0.27	NA	0.81	38.19	39	19	18	NA	0.55	NA	940	<0.020	NA	20	NA	<0.53	NA	NA	29	2.3	67	75
BG-1 (background)	11/3/2016	Soil	0-1 ft	NA	<0.28	1.9	36	0.39	NA	<0.28	NA	0.87	17.13	18	6.3	16	NA	25	NA	310	0.033	NA	5.4	NA	1.6	NA	NA	15	<0.57	34	43
	11/3/2016	Soil	2-3 ft	NA	<0.29	2.3	45	0.48	NA	<0.29	NA	<0.12	19	19	7.3	18	NA	43	NA	440	0.280	NA	6.2	NA	1.6	NA	NA	15	<0.57	35	49
BG-2 (background)	11/3/2016	Soil	0-1 ft	NA	<0.28	1.9	45	0.50	NA	<0.28	NA	0.84	16.16	17	7.4	18	NA	32	NA	410	0.045	NA	4.9	NA	1.1	NA	NA	14	<0.56	35	44
	11/3/2016	Soil	2-3 ft	NA	<0.27	1.9	52	0.53	NA	<0.27	NA	0.70	23.3	24	7.5	20	NA	26	NA	450	0.038	NA	7.9	NA	1.7	NA	NA	19	<0.55	37	45
BG-3 (background)	11/3/2016	Soil	0-1 ft	NA	<0.30	1.7	44	0.43	NA	<0.30	NA	0.21 J	23.3	16	7.5	15	NA	25	NA	410	0.024	NA	5.1	NA	1.4	NA	NA	46	<0.60	37	40
	11/3/2016	Soil	2-3 ft	NA	<0.27	2.2	56	0.54	NA	<0.27	NA	0.88	21.12	22	7.5	18	NA	29	NA	410	0.040	NA	5.2	NA	1.2	NA	NA	19	<0.53	40	46
BG-4 (background)	11/3/2016	Soil	0-1 ft	NA	<0.29	1.7	50	0.50	NA	<0.29	NA	<0.13	19	19	9.5	16	NA	22	NA	450 BH	0.026	NA	6.0	NA	<0.59	NA	NA	16 A	<0.59	53	50
	11/3/2016	Soil	2-3 ft	NA	<0.33	2.0	53	0.52	NA	0.38	NA	0.50 J	22.5	23	11	23	NA	21	NA	460 BH	0.054	NA	8.5	NA	<0.65	NA	NA	19	<0.65	51	230
BG-6 (background)	4/3/2019	Soil	0-1 ft	NA	NA	2.05 O1	64.4	0.625	NA	0.177 J	NA	5.34	39.4	44.7	14.4	26.4	NA	NA	NA	448 J6	0.022	NA	12.8	NA	0.562 J	NA	NA	17.0	NA	NA	NA
	4/4/2019	Soil	2-3 ft	NA	NA	2.29	66.3	0.507 J	NA	0.139 J	NA	<1.19	22.9	22.9	14.7	32.3	NA	NA	NA	467	0.032	NA	7.78	NA	0.828	NA	NA	16.8	NA	NA	NA
BG-7 (background)	4/3/2019	Soil	0-1 ft	NA	NA	1.97	52.7	0.410 J	NA	0.136 J	NA	<1.16	70.2	70.2	18.9	36.4	NA	NA	NA	813	0.025	NA	12.8	NA	0.543 J	NA	NA	22.6	NA	NA	NA
	4/4/2019	Soil	2-3 ft	NA	NA	3.08	77.9	0.430 J	NA	0.108 J	NA	<1.16	27.0	27.0	16.3	32.5	NA	NA	NA	548	0.023	NA	6.20	NA	0.502 J	NA	NA	24.3	NA	NA	NA
BG-8 (background)	4/3/2019	Soil	0-1 ft	NA	NA	1.80	52.4	0.370 J	NA	0.0951 J	NA	<1.14	24.5	24.5	21.8	62.8	NA	NA	NA	759	0.0072	NA	9.04	NA	0.485 J	NA	NA	24.4	NA	NA	NA
	4/4/2019	Soil	2-3 ft	NA	NA	1.66	47.6	0.293 J	NA	0.0918 J	NA	<1.14	21.7	21.7	23.5	60.2	NA	NA	NA	732	<0.0067	NA	7.86	NA	0.306 J	NA	NA	25.1	NA	NA	NA
Site Specific Background Range					<0.27-<0.33	1.4-3.08	36-77.9	0.293 J-0.99		<0.27-0.38		<0.12-5.34	16.16-70.2	16-70.2	6.3-27	15-62.8		0.55-43		310-940	<0.0067-0.280		4.9-20		<0.59-1.7			14-46	<0.53-2.3	34-190	40-230
95% UCL of Site Specific Background Range[2]						2.1	58	0.58		0.18		2.19	28	25	15	27		30		591	0.114		10		1.2			29		84	147
North Carolina Background Range				7000 - >100,000	<1.0-8.8	1-18	50-1,000	ND-1.0	ND-100	1.0-10	100-280,000*	NS	NS	7-300	ND-50	2.0-20	100 - >100,000*	ND-50	50-50,000*	<2.0-7000*	0.03-0.52	<3-15*	ND	50-37,000*	<0.1-0.8	ND-5.0	<500-50,000*	ND-300	NS	15-300	11-59
PSRG - Protection of Groundwater				110,000	0.90	5.8	580	63	45	3.0	NS	3.8	360,000	3.8	0.90	700	150	270	NS	65	1.0	7.1	130	NS	2.1	3.4	NS	1,500	0.28	350	1,200
PSRG - Residential Health-based				16,000	6.3	0.68	3,100	31	3,100	14	NS	0.31	23,000	0.31	4.7	630	11,000	400	NS	2,200	2.3	78	310	NS	78	78	NS	9,400	0.16	78	4,700
PSRG - Industrial/Commercial Health-based				230,000	93	3.0	47,000	470	47,000	200	NS	6.5	350,000	6.5	70	9,300	160,000	800	NS	32,000	9.7	1,200	4,700	NS	1,200	1,200	NS	140,000	2.3	1,200	70,000

Table 1 (page 2 of 2)
Summary of Soil Analytical Data
828 Martin Luther King, Jr. Blvd.
Chapel Hill, North Carolina
H&H Job No. TCH-009

Notes:
Yellow highlighting indicates samples collected as part of April 2019 data gap sampling
Red highlighting indicates sample collected as part of August 2019 drainage pathway sampling
Soil concentrations are reported in milligrams per kilogram (mg/kg).
PSRG = North Carolina Department of Environmental Quality (DEQ) Preliminary Soil Remediation Goals (PSRGs) (May 2019); UCL = Upper Confidence Limit
95% UCL of site specific background ranges were calculated using EPA ProUCL 5.1
North Carolina Soil Background Range taken from *Elements in North American Soils, 2nd Edition* by James Dragun and Khaled Chekiri
*Not available for North Carolina. Used Eastern US Background Range
Bold denotes concentration above protection of groundwater PSRG and significantly above background.
Shading indicates concentration above residential PSRG and significantly above background.
Underlining indicates concentration above industrial PSRG and significantly above background.
ND = Not Detected; NA = Not Analyzed; NS = Not Specified; -- = statistical test not applicable to data set
J = Detected above method detection limit but below laboratory reporting limit; therefore, result is an estimated concentration
O1 = Analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.
BH = Method blank greater than one-half laboratory reporting limit, but sample concentration greater than 10x the method blank.
A = Continuing Calibration Verification standard recovery (82%) is less than the lower control limit (90%). Result has possible low bias.
[1] denotes duplicate sample taken
[2] 95% UCL of Site Specific Background Values were calculated using values from samples collected through the Phase II RI
Analytical Methods
Metals by EPA Method 6010C or 6020B
Hexavalent Chromium by EPA Method 7196 or 7199 (Phase II RI and April 2019 Data Gap Samples)
Mercury by EPA Method 7471B