North Carolina Department of Transportation

UST Closure Report
State Project: R-2307B
WBS Element: 37944.1.FR5
Iredell County

Parcel 170
RSD Food Restaurants Real Estate Holding #3100, LLC
558 NC 150 (River Highway)
Mooresville, North Carolina
April 7, 2022

Wood Environment & Infrastructure Solutions, Inc.
Project: 20478R2307

Derick Haydin, LG
Staff Geologist

Helen Corley, LG, BCES
Principal Hydrogeologist

A. SITE INFORMATION

1. Site Identification

Date of Report: April 7, 2022
Facility I.D.: 00-0-00000036164 **UST Incident Number:** N/A **Site Risk:** N/A
Site Name: Parcel 170 – RSD Food Restaurants Real Estate Holding #3100 LLC
Street Address: 558 NC 150 (River Highway)
City: Mooresville **Zip Code:** 28117 **County:** Iredell
Description of Geographical Data Point: Center of Former UST Basin
Location Method: Google Earth
Latitude: 35.595401" N **Longitude:** -80.868992" W

2. Information about Contacts Associated with the UST System

UST Owner: RSD Food Restaurants Real Estate Holding #3100 LLC
Address: 558 NC 150 (River Highway) Mooresville, NC 28117
Telephone: Unknown

UST Operator: RSD Food Restaurants Real Estate Holding #3100 LLC
Address: 558 NC 150 (River Highway)
Telephone: Unknown

Property Owner: RSD Food Restaurants Real Estate Holding #3100 LLC
Address: 558 NC 150 (River Highway) Mooresville, NC 28117
Telephone: Unknown

Property Occupant: Unoccupied
Address: N/A
Telephone: N/A

Consultant: Wood Environment & Infrastructure Solutions, Inc.
Address: 2801 Yorkmont Road, Suite 100, Charlotte, North Carolina 28208
Telephone: 704-357-8600

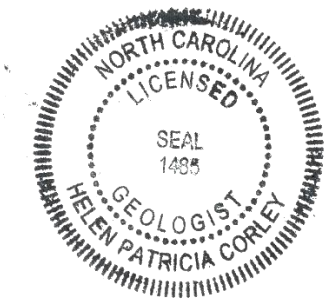
Analytical Laboratory: Pace Analytical **State Certification No.:** 37706
Address: 9800 Kincey Avenue #100, Huntersville, North Carolina 28078
Telephone: 704-875-9092

3. Information about Release

Date Discovered: N/A
Estimated Quantity of Release: N/A
Cause of Release: N/A
Source of Release: N/A
Sizes and Contents of Tanks or Other Containment from which Release Occurred: N/A

4. Certification

I, Helen P. Corley, a Licensed Professional Geologist for Wood Environment & Infrastructure Solutions, Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge.



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(Please affix Stamp and Signature)

Wood Environment & Infrastructure Solutions, Inc. is licensed to practice geology (C-2478) and engineering (F-1253) in North Carolina.

B. EXECUTIVE SUMMARY

In response to the North Carolina Department of Transportation (NCDOT) Request for Proposal (RFP), dated October 26, 2021, Wood Environment & Infrastructure Solutions, Inc. (Wood) has performed underground storage tank (UST) closure activities for Parcel 170 (Site). The activities were conducted in accordance with Wood's Technical and Cost proposals dated November 24, 2021 (Rev02), and February 14, 2022. NCDOT contracted Wood to perform the UST closure activities at the Site, within or near areas that will be affected by future road construction activities.

The Site is identified as Parcel 170, RSD Food Restaurants Real Estate Holding #3100, LLC, within the NCDOT MicroStation survey file and encompasses approximately 1.87 acres. Wood performed a Preliminary Site Assessment (PSA) in November 2018. Soil samples were taken within the area of investigation. Concentrations of Total Petroleum Hydrocarbons Gasoline Range Organics (TPH-GRO) and Diesel Range Organics (TPH-DRO) were not identified above their respective State Action Levels.

Wood personnel and our tank removal contractor Contaminant Control Inc., (CCI) mobilized to the Site on January 10, 2022, to remove USTs #1, #2A, #2B, and #3. Prior to removal, the tops of the four USTs were uncovered by removing overburden material from above the tanks. After the USTs were uncovered, each of the four USTs were observed to be nearly empty. The remaining liquid was removed from each UST by a vacuum truck. An approximate total of 63-gallons of petroleum-contact water was pumped from the four USTs into a vacuum truck for off-Site disposal. Following removal of the liquid, soils adjacent to the tanks were removed to free the USTs from the excavations. The interior of each UST was then purged of explosive vapors by washing with a pressure washer and using the vacuum truck to extract vapors and liquids. Then USTs were removed from the excavations and removed for off-Site disposal.

Following the removal of the USTs, closure soil samples were collected for TPH-GRO and TPH-DRO. Wood personnel collected UST closure soil samples from beneath the four USTs on January 10 and 11, 2022. Laboratory analytical results did not identify TPH-GRO or TPH-DRO concentrations which exceeded the State Action Levels in the closure samples collected beneath the centerline of the four USTs.

CCI excavated soil necessary to facilitate the removal of the USTs and no over-excavation was needed at this excavation. NCDOT requested that pea gravel be removed from the UST excavation to a depth of 12 feet below ground surface (ft bgs) and replaced with suitable soil backfill within the vicinity of the future utility pole. CCI removed 177.28 tons of pea gravel from the excavation and disposed off-Site. Following

the removal of the USTs, CCI backfilled the excavation. The excavation was compacted by CCI personnel using a ride-on soil compactor under the supervision of NCDOT personnel to meet the criteria for the AASHTO 95% Modified T-180 standard.

After UST removal activities, NCDOT retained Wood to remove the remaining UST product lines and spill buckets that remained onsite but mostly beyond the expanded right of way. Wood personnel and CCI mobilized to the Site to remove the remaining product lines and 11 spill buckets and collect closure samples from March 1 to 3, 2022. Prior to removal, CCI exposed product lines on each end of the UST system and utilized a vacuum truck to remove any remaining product. CCI removed 17-gallons of petroleum-contact water into the vacuum truck for off-Site disposal. The remainder of the product lines were uncovered by removing the concrete and overburden. Once product lines were exposed CCI removed them from the excavation and then disposed of them off-Site.

Following the removal of the product lines, UST closure samples were taken for TPH-GRO and TPH-DRO at every ten linear feet beneath the product lines and beneath every spill bucket location. Laboratory results did not identify TPH-GRO or TPH-DRO concentrations which exceeded the State Action Levels in the closure samples collected beneath the product lines or spill buckets. CCI backfilled the excavation with ABC stone and compacted with the excavator bucket.

No further action is recommended for the Site.

C. TABLE OF CONTENTS

D. SITE HISTORY AND CHARACTERIZATION

1. UST Owner/Operator Information

Ownership and operator information for the former USTs is provided in **Table 1**.

2. UST Information

Information regarding the UST details for the Site is provided in **Table 2**.

3. Description of the Release

A release was not identified during the January and March 2022 UST closure activities.

4. Description of Site Characteristics

The Site, encompassing approximately 1.87 acres, is in a commercial area of Mooresville, North Carolina, and is identified as Parcel 170, RSD Food Restaurants Holding #3100, LLC, within the NCDOT MicroStation survey file. A Topographic Map is included as **Figure 1** and a Site map depicting the location of the former USTs, dispensers and piping is shown on **Figure 2**.

The Site is located within the Charlotte Terrane of the Piedmont Physiographic Province of North Carolina. According to the 1985 State Geologic Map of North Carolina, the area is underlain by granitic rock of Permian/Pennsylvanian age.

At the time of field activities for this report, the Site was unoccupied, and the single-story building gas station canopy and dispensers had been removed. The Site's ground surface cover consisted of concrete, asphalt, gravel, or grass. The Site was formerly occupied by a gas station and a home furnishings retail business. The single-story building was reportedly constructed in 2000. Wood understands that the canopy and dispensers were removed by a NCDOT subcontractor, this subcontractor also removed one spill bucket from the Site during canopy and dispenser removal in early January 2022.

The 7.5-minute Mooresville, North Carolina, United States Geological Survey (USGS) quadrangle, published in 2019 was examined. Review of the available topographic data indicate that the Site slopes from approximately 890 to 895 feet above mean sea level (msl). Topography of the area is generally sloping to the south. Based on Wood's review of topographic maps and observations of the Site vicinity, the groundwater flow direction was inferred south or southeast.

5. Previous Reports

2012

One closed incident was identified on the NCDEQ Laserfiche website as Incident #40116 for the subject property. The incident stemmed from a downgradient property monitoring well identifying free product in 2012. As a result, NCDEQ directed the Parcel 170 owner to conduct a Site Check. They hired Geological Resources, Inc. (GRI) to perform tank tightness testing and the Premium dispenser sumps failed the tests. Subsequent collection and analysis of 13 soil samples were conducted at the dispensers and at the Premium sump. Four dispenser samples exceeded the TPH-DRO regulatory action level. NCDEQ issued a Notice of Regulatory Requirements (NORR) September 25, 2012. The subject property owner engaged Excel Civil & Environmental Associates, PLLC (Excel) who performed twenty-five soil borings on October 25, 2012. Twenty-seven soil samples were collected and measured for TPH-DRO and TPH-GRO by EPA Method 8015 Volatile Organic Compounds (VOCs) by EPA Methods 8260, Semi-Volatile Organic Compounds (SVOCs) by EPA Methods 8270 and Massachusetts Department of Environmental Protection (MADEP) extractable petroleum hydrocarbons (EPH) and volatile petroleum hydrocarbons (VPH). Laboratory analysis did not identify TPH-DRO & GRO concentrations above their respective reporting limits or VOC/SVOC concentrations which exceeded their respective Soil-to-Water Maximum Soil Contaminant Concentrations Levels (MSCCs).

Incident # 40116 also included a surface release which occurred in October 2012. Per the 24-Hour Release and UST Leak Reporting Form dated October 2012, a release occurred October 22, 2012. An individual reportedly drove away from a gasoline dispenser with the dispenser still located in the vehicle's fuel port. This damaged the dispenser's plumbing and caused a slow leak of approximately 20-27 gallons. The release was contained before it migrated to the onsite storm sewer system with oil absorbent material. Excel was retained by Circle K to perform an observation of the spill. Excel personnel visited the Site on October 24, 2012 and reported the release was contained and properly disposed. Excel observed the onsite storm sewer system for the presence of residual petroleum from the spill but reported no obvious signs of impact to the system. NCDEQ issued a Notice of No Further Action (NFA) on November 20, 2012.

2018

In response to a NCDOT RFP, dated September 17, 2018, Wood performed a Preliminary Site Assessment (PSA) for the parcel. NCDOT contracted Wood to perform the PSA at the parcel, within the area to be affected by future road construction activities, to identify potential impacts from the former use of the property. Wood mobilized to the Site on November 14, 2018 for the advancement of ten shallow soil borings. Thirteen soil samples were collected and analyzed onsite for TPH-GRO and TPH-DRO analyses, via onsite ultraviolet fluorescence (UVF). Results from the onsite UVF soil analyses did not indicate

elevated TPH values above the NCDEQ Action Limits of 50 milligrams per kilogram (mg/kg) for GRO or 100 mg/kg for DRO. Wood did identify fly ash in four of the ten borings to a maximum depth of seven ft bgs. It is reported that fly ash has been used as structural fill at Parcel 170.

E. CLOSURE PROCEDURE

January 2022

Prior to mobilization, Wood contacted the North Carolina underground utility location service (NC 811) for public utility location at the Site. In addition, Wood personnel and our private utility locator, Probe Utility Locating, mobilized to the Site on January 7, 2022, to perform Ground-Penetrating Radar (GPR) and Electromagnetic (EM) surveys to attempt to detect metallic objects such as pipes, and underground utility lines buried in the vicinity of the tanks. The purpose of this effort was to minimize the potential for digging into underground utilities buried at the property.

Wood personnel and our tank removal contractor CCI, mobilized to the Site to remove USTs #1, #2A, #2B, and #3 from January 10 to11, 2022. Prior to removal, the tops of the four USTs were uncovered by removing overburden material from above the tanks. The depth to the top of UST #3 was 3 feet bgs and the depth to the tops of USTs #1, #2A, and #2B were 5 feet bgs. After the USTs were uncovered, each of the four USTs were observed to be nearly empty. The remaining liquid was removed from each UST by a vacuum truck. An approximate total of 63-gallons of petroleum-contact water was pumped from the USTs into a vacuum truck for off-Site disposal at CCI's facility in Salisbury, North Carolina. Following removal of the liquid, soils adjacent to the tanks were removed to free the USTs from the excavation. The interior of each UST was then purged of explosive vapors by washing with a pressure washer and using the vacuum truck to extract vapors and water. Purging was considered complete when the vapor readings inside each UST were below 10% of the lower explosive limit (LEL). Once purging was complete, each UST was removed from the excavation and placed on a trailer for transport. The USTs were observed to be in good condition with no holes or pitting. Pea gravel was directly underneath the tanks with native soil approximately 6-12 inches beneath the pea gravel. USTs #1, #2A, and #2B were transported to L. Gordon Iron & Metal Co. in Statesville, North Carolina and UST #3 was transported to Foil's Inc. in Salisbury, NC for off-Site disposal. Certificates of disposal for the petroleum-contact water and the USTs are included in **Appendix A**. The dimensions for UST-1, UST-2 (combination of UST-2A and UST-2B), and UST-3 are 10.5 feet in diameter and 31 feet long, 10 feet in diameter and 30 feet long, and 5.3 feet in diameter and 18 feet long, respectively. Soils beneath and adjacent to the USTs were not stained and did not have an odor, no free product was observed. Pea gravel was observed throughout the excavation mixed with red silty clay overlaying a mix of pea gravel and white/tan/orange saprolite, the UST excavation log is included in **Appendix B**. Groundwater was not encountered in the excavation.

Following the removal of the USTs, CCI backfilled the UST basin with the existing pea gravel to a depth of 12 ft bgs, this was requested by NCDOT due to a future utility pole installation within the UST basin. The remaining excavation was backfilled with a tan, brown sand that was approved by NCDOT. CCI backfilled and compacted the excavation in prescribed lifts. Once the excavation reached a depth that was safe to enter, per Occupational Safety and Health Administration (OSHA) standards (4 feet below ground surface), NCDOT personnel performed in-place field density tests per American Society for Testing and Materials (ASTM) standards to determine the percent compaction achieved by CCI. Backfill placement and compaction testing continued to a depth of 4 inches then covered by ABC stone to the surface. Since NCDOT did not allow the remaining pea gravel from the excavation to be put back in the hole, CCI removed a total of 177.28 tons of pea gravel and brought in 177.28 tons of soil backfill. Photographs of the UST closure activities are included in **Appendix C.**

March 2022

After closure by removal of the USTs but prior to required reporting, NCDOT retained Wood to remove the remaining UST product lines and spill buckets. Prior to mobilization, Wood contacted the NC 811 for public utility location at the Site. In addition, Wood personnel and our private utility locator, Probe Utility Locating, mobilized to the Site on February 28, 2022, to perform GPR and EM surveys to attempt to detect the product lines, metallic objects such as pipes, and underground utility lines buried in the vicinity of the tanks. The purpose of this effort was to minimize the potential for digging into underground utilities buried at the property.

Wood directed CCI in removing the remaining product lines and spill buckets, and collected closure samples from March 1 to 3, 2022. Prior to removal, CCI exposed product lines on each end of the UST system and utilized a vacuum truck to remove any remaining product. CCI removed 17-gallons of petroleum-contact water. CCI then removed concrete and overburden material above the product lines and spill buckets. The top of the product lines and spill buckets were observed at approximately 2 feet and 1.5 ft bgs, respectively. CCI then removed the spill buckets and product lines. Pea gravel underlain the piping with native soil observed approximately 6 to 12 inches beneath the bottom of the product lines and spill buckets. Soils encountered beneath the product lines and spill buckets were a mix of red silty clay and gray fly ash backfill. Fly ash was observed but not disturbed or removed by CCI. The product line excavation log is included in Appendix B. No odor, staining, or free product was observed beneath the product lines or spill buckets. The removed piping and spill buckets appeared to be in favorable condition with good integrity. Approximately 380 feet of product lines and 11 spill buckets were removed and disposed of from the excavation. The pea gravel that was removed from the excavation was put back into

the piping trench and spill bucket excavations, then backfilled with 83.15 tons of ABC stone to surface. CCI compacted the gravel backfill with the excavator bucket. Certificate of disposal for the petroleum-contact water is included in Appendix A. The Site Investigation Report for Permanent Closure or Change-in-Service of Registered UST (Form UST-2A) is included in **Appendix D**.

F. SITE INVESTIGATION

CCI excavated soil necessary to facilitate the removal of the USTs and no over-excavation was performed for the tanks, piping or spill buckets. A Wood representative observed soil excavation and collected samples of soil from the excavator bucket and screened them in the field for VOCs using a RAE Systems *MiniRAE* 3000 equipped with a photoionization detector (PID). Soil samples were screened during UST closure activities with a PID. PID readings ranged from 5.1 parts per million (ppm) in sample UST 3-1 to 214.7 ppm in sample UST 1-2.

Wood personnel collected tank closure soil samples on January 10 and 11, 2022. Ten total soil samples were collected directly from the excavator bucket. To minimize the potential for cross-contamination, a new pair of nitrile gloves were donned for collection of each sample. The UST closure samples were taken directly beneath the USTs, the depth of closure samples were 16.5-17 ft bgs for samples beneath UST #1 and UST #2A/#2B, and at 8.5-9 ft bgs for UST #3. The locations of the UST closure soil samples are depicted on **Figure 3**. UST closure samples were placed directly into laboratory-provided containers, placed in a cooler on ice, and delivered under chain-of-custody protocol to Pace Analytical Services, LLC (Pace) for laboratory analysis of TPH-GRO for each sample and TPH-DRO samples from UST #2A and #2B by EPA Method 8015C.

Laboratory analytical results of the UST #1, #2A, #2B, and #3 closure samples collected beneath the centerline of the tank of the excavation did not identify TPH-GRO concentrations above the laboratory method detection limit. Laboratory analytical results of the UST #2A and #2B closure samples collected did not identify TPH-DRO concentrations above the State Action Level of 100 mg/kg for TPH-DRO. Closure sample UST 2-3 had an estimated concentration of 4.8 J mg/kg for TPH-DRO, and the other samples analyzed for TPH-DRO did not have detectable concentrations above the laboratory method detection limit. UST closure soil sample results are shown in **Table 3**. UST closure soil sample detections are shown on **Figure 4**. The laboratory report and chain-of-custody are included in **Appendix E**.

On March 1 to 3, 2022, after the removal of the product lines and spill buckets, Wood personnel collected soil samples beneath every ten linear feet of product lines and underneath every spill bucket location. Soil samples were screened during UST closure activities with a PID. PID readings ranged from 0.0 ppm to 5.6 ppm (PL-6). Forty soil samples were taken using a 2-inch stainless-steel hand auger. The locations of the UST product line and spill bucket soil samples are depicted on Figure 3. To minimize the potential for cross-contamination, a new pair of nitrile gloves were donned for collection of each sample. In addition, the hand auger was decontaminated between samples using a Liquinox® and distilled water rinse. The

hand auger was advanced to an approximate depth of 2.5 feet at each location to collect the product line and spill bucket samples from the native soil. UST product line and spill bucket closure samples were placed directly into laboratory-provided containers, placed in a cooler on ice, and delivered under chain-of-custody protocol to Pace for laboratory analysis of TPH-GRO and TPH-DRO by EPA Method 8015C.

Laboratory analytical results of the product line and spill bucket soil samples did not identify TPH-GRO or TPH-DRO concentrations above the State Action Levels. Closure samples SB-10, PL-23, and PL-27 had detected TPH-GRO concentrations of 15.3 J mg/kg, 9.1 J mg/kg, and 10.9 J mg/kg, respectively but did not exceed the TPH-GRO NC State Action Level of 50 mg/kg. Closure sample SB-11 had a detected TPH-DRO concentration of 17.6 mg/kg but did not exceed the TPH-DRO NC State Action Level of 100 mg/kg. TPH concentrations for most of the product line and spill bucket soil samples were not detected above their respective laboratory method detection limits. UST spill bucket and product line closure soil sample results are shown in **Tables 4** and **5**. UST closure sample detections are shown on Figure 4. The laboratory report and chain-of-custody are included in Appendix E.

G. CONCLUSIONS AND RECOMMENDATIONS

Wood has completed contracted activities for the closure of the UST system for four tanks by removal at Parcel 170 located at 558 River Highway in Mooresville, North Carolina. The following conclusions are based upon Wood's field observations and data evaluation from the field efforts performed in January and March 2022.

- One 20,000-gallon gasoline UST (UST #1), one 18,000-gallon dual compartment gasoline/diesel UST (UST #2A and #2B), and one 3,000-gallon gasoline UST (UST#3) were emptied, removed, and disposed during the January 2022 closure activities. The four USTs were observed to be in good condition with no holes observed.

- The UST excavation was backfilled using clean imported gravel and soil fill then overlayed with four inches of ABC stone. The excavation was compacted by CCI personnel using a ride-on soil compactor under the supervision of NCDOT personnel to meet the criteria for the AASHTO 95% Modified T-180 standard.

- Petroleum-impacted soil was not observed in the USTs' excavation. Laboratory analyses of the 10 closure soil samples from the USTs' excavation did not identify TPH-GRO and TPH-DRO concentrations above their respective State Action Levels in the ten closure samples from their excavation. A total of 177.28 tons of pea gravel was disposed off-Site at NCDOT's' request due to future utility pole installation within former UST basin. No over-excavation was performed for the four USTs.

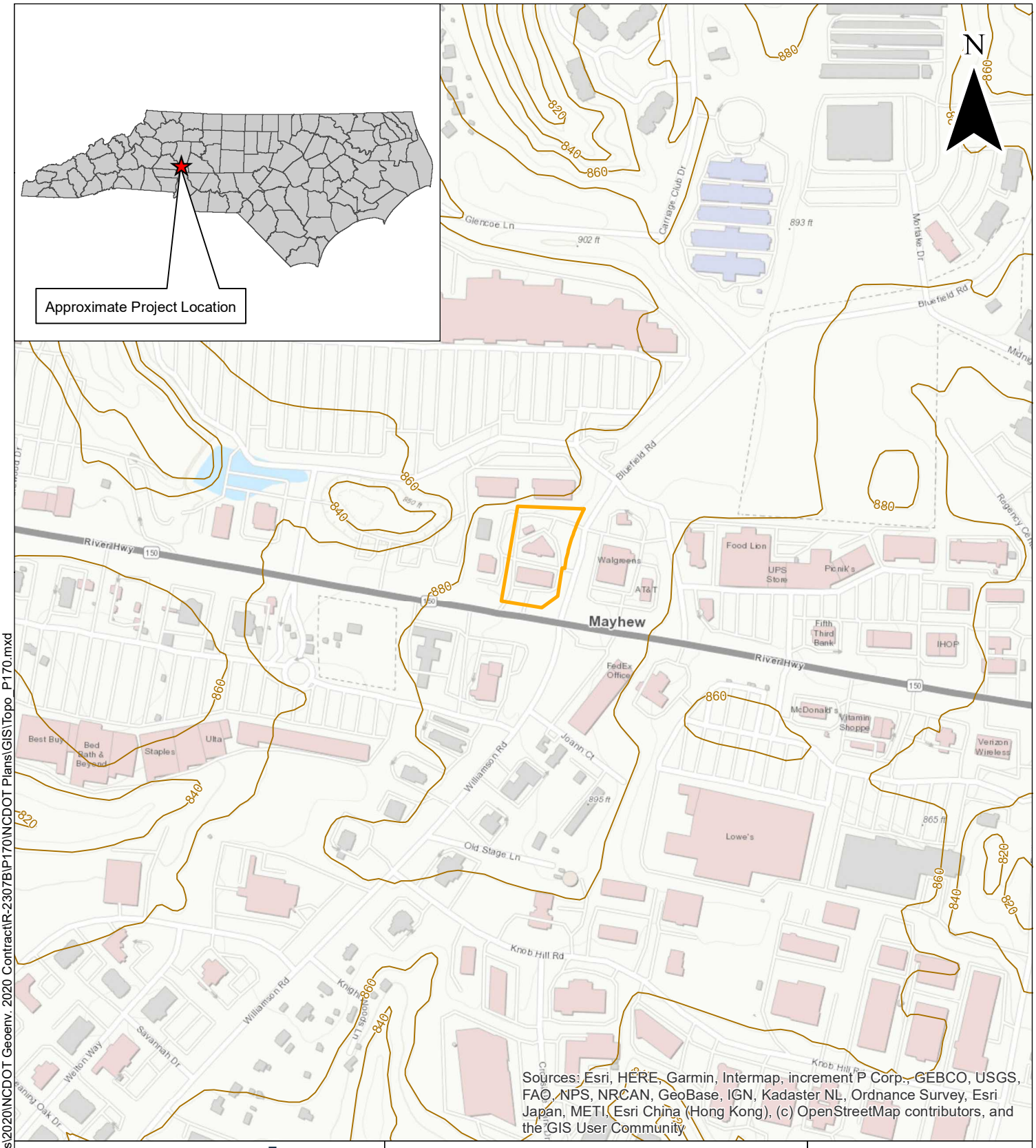
- Remaining UST spill buckets and product lines were emptied, removed, and disposed during March 2022 closure activities. CCI removed 11 spill buckets and approximately 380 feet of product lines. The product line trenches were backfilled with 83.15 tons of clean imported ABC stone. Compaction was performed by CCI personnel using the excavator bucket.

- Petroleum-impacted soil was not observed beneath the UST spill buckets or product lines during removal. Laboratory analyses of soil removed from beneath the UST spill buckets and product lines did not identify TPH-GRO and TPH-DRO concentrations above their respective State Action Levels in the 40 closure samples from their excavation.

- Free product was not identified within the UST excavation or the product line and spill bucket excavation.

- Groundwater was not observed in the UST excavation or the product line and spill bucket excavation.
- Fly ash was observed below the pea gravel in the product line and spill bucket excavation but was not removed from the excavation.
- No further action is recommended.

FIGURES



wood.
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VICINITY MAP
R2708B - PARCEL 170
558 NC 150 (RIVER HWY)
MOORESVILLE, NORTH CAROLINA

Legend

- Site Boundary
- 20ft Contours

0 500 1,000 Feet

PREPARED BY:	LMD
DATE:	3/24/2022
CHECKED BY:	DRH
DATE:	3/24/2022
PROJECT NO:	20478R2307
FIGURE:	1

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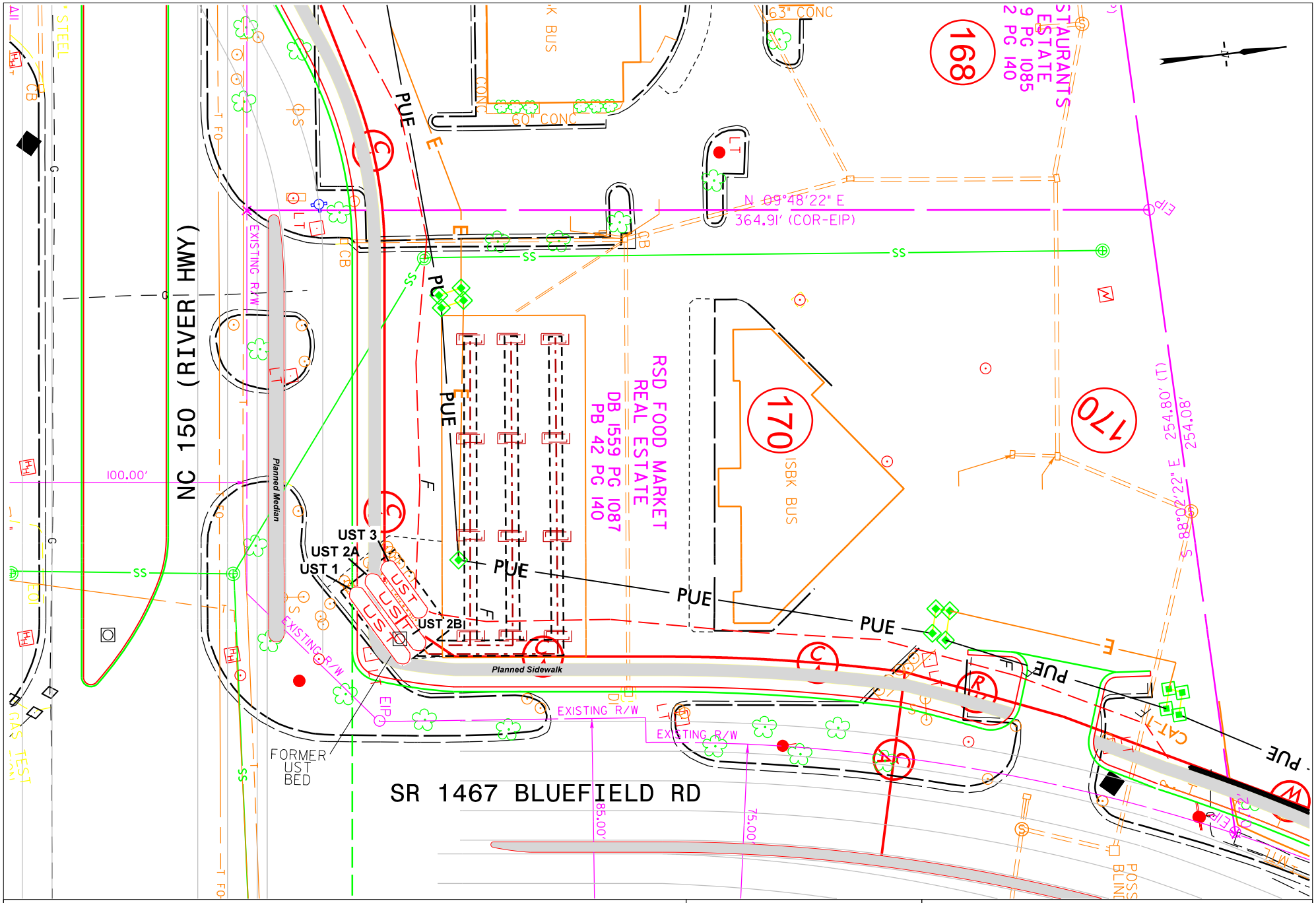


AREA OF INVESTIGATION
UST APPROXIMATE UST LOCATION
APPROXIMATE EXCAVATION LOCATION
APPROXIMATE PRODUCT LINE
APPROXIMATE PUMP ISLAND LOCATION

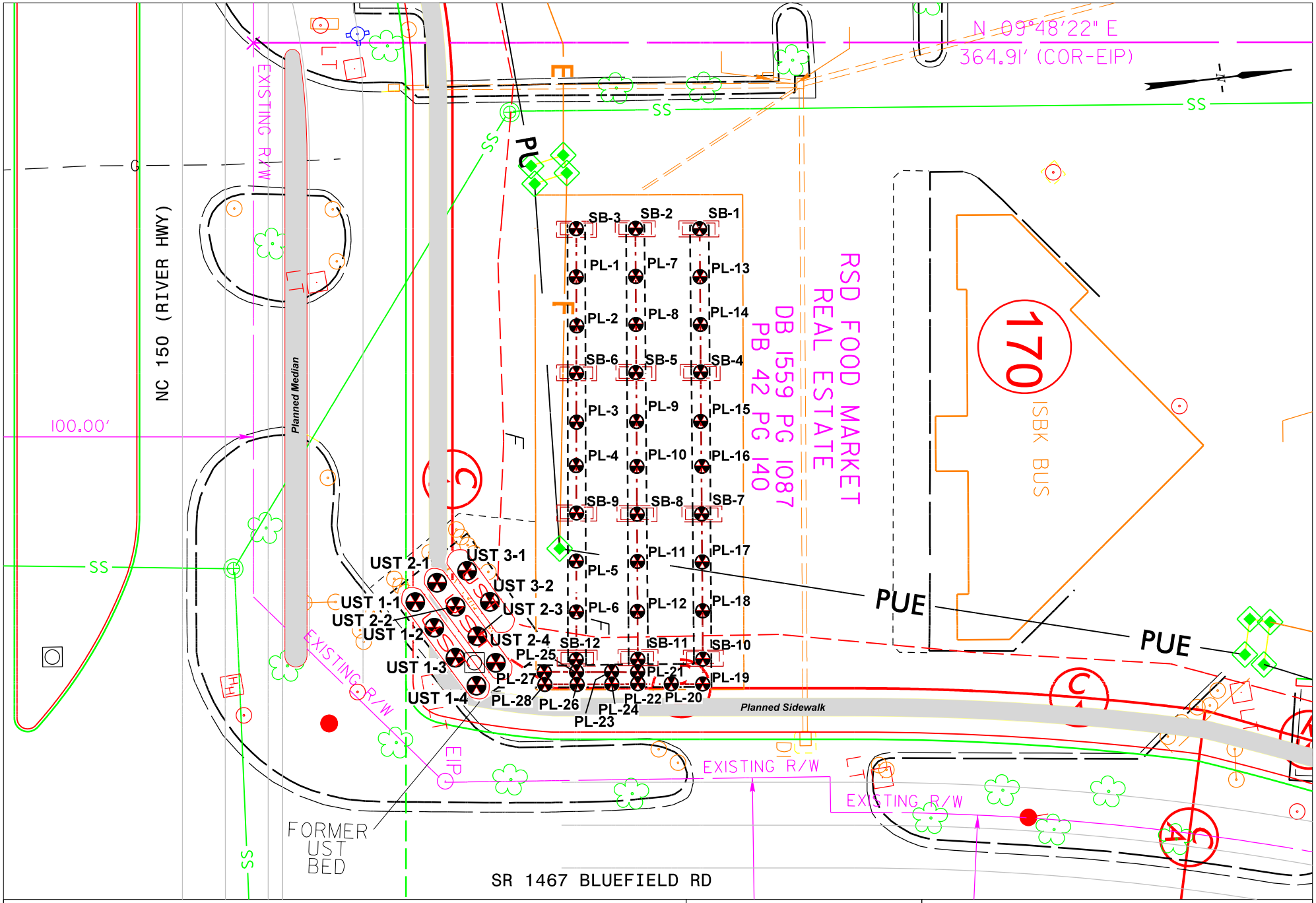
UST DIMENSIONS
UST 1: 10.5' x 31'
UST 2A: 12,000-gallon gasoline 10' x 20'
UST 2B: 6,000-gallon diesel 10' x 10'
UST 3: 5.3' x 18'

20' 0' 20' 50'
10'
(ENGLISH)

wood.

SITE MAP
R-2703B- PARCEL 170
558 NC 150 (RIVER HWY)
MOORESVILLE, NORTH CAROLINA

PREPARED BY:	DATE:	CHECKED BY:	DATE:	JOB NUMBER	FIGURE
LMM	3/24/22	HPC	3/24/22	20478R2703	2



APPROXIMATE EXCAVATION AREA
UST LOCATION
APPROXIMATE SAMPLE LOCATION
PRODUCT LINE

NOTE:
SB SAMPLES LOCATED AT FORMER DISPENSER ISLANDS

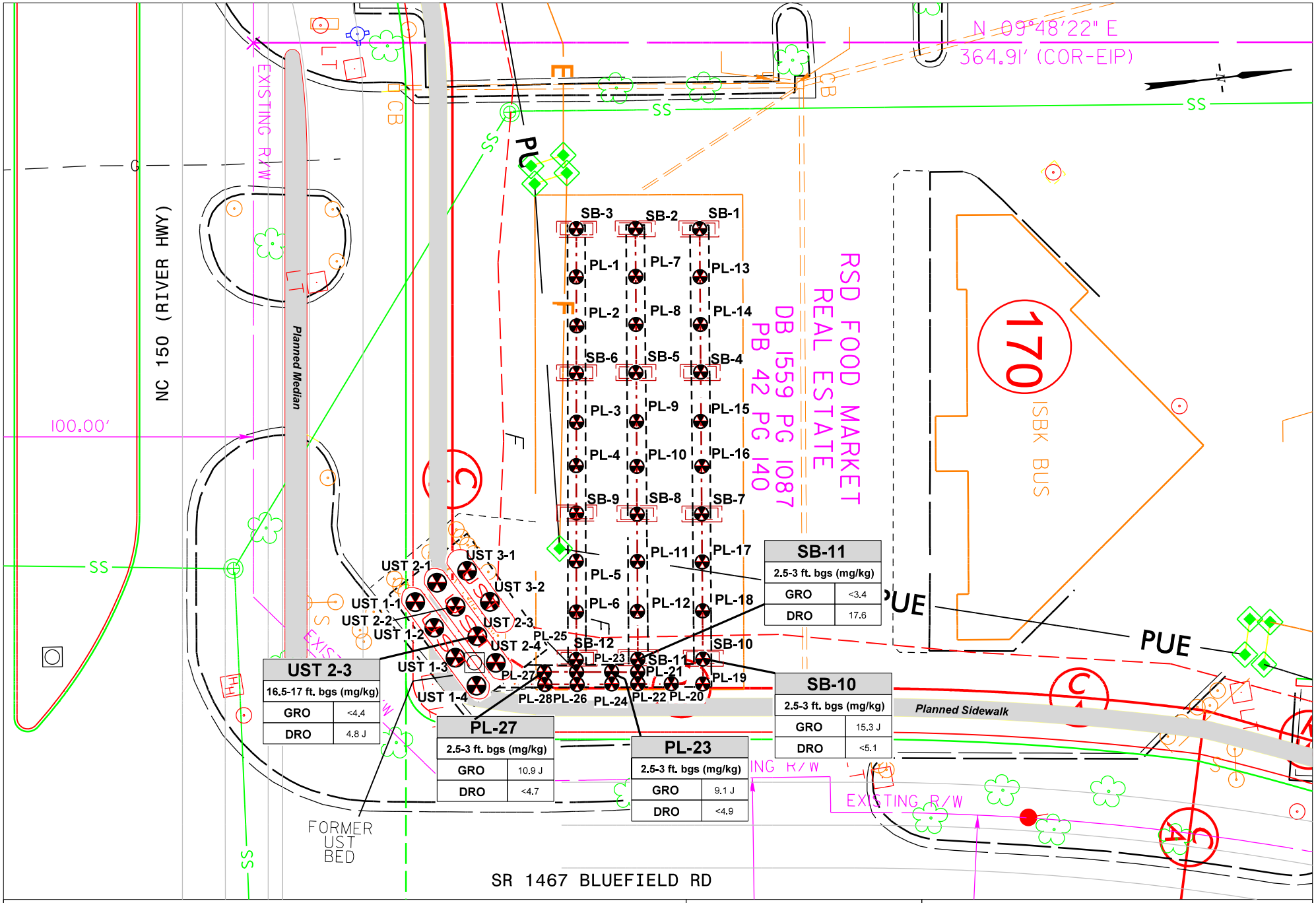
UST 1: 20,000-gallon gasoline
UST 2A: 12,000-gallon gasoline
UST-2B: 6,000-gallon diesel
UST 3: 3,000-gallon gasoline
UST Excavation: 40' X 28'

15' 0' 15' 30'
7.5'
(ENGLISH)

wood.

PREPARED BY:	DATE:	CHECKED BY:	DATE:	JOB NUMBER	FIGURE
LMD	3/28/22	HPC	3/28/22	20478R2703	3

SAMPLE LOCATION MAP
R-2703B- PARCEL 170
558 NC 150 (RIVER HWY)
MOORESVILLE, NORTH CAROLINA



UST 2-3	
16.5-17 ft. bgs (mg/kg)	
GRO	<4.4
DRO	4.8 J

PL-27	
2.5-3 ft. bgs (mg/kg)	
GRO	10.9 J
DRO	<4.7

PL-23	
2.5-3 ft. bgs (mg/kg)	
GRO	9.1 J
DRO	<4.9

SB-10	
2.5-3 ft. bgs (mg/kg)	
GRO	15.3 J
DRO	<5.1

SB-11	
2.5-3 ft. bgs (mg/kg)	
GRO	<3.4
DRO	17.6

APPROXIMATE EXCAVATION AREA
UST LOCATION
APPROXIMATE SAMPLE LOCATION
PRODUCT LINE

DEPTHS SHOWN IN FEET BELOW GROUND SURFACE
CONCENTRATIONS SHOWN IN MILLIGRAMS PER KILOGRAM (mg/kg)
GRO=GASOLINE RANGE ORGANICS
DRO=DIESEL RANGE ORGANICS
GRO STATE ACTION LEVEL = 50 mg/kg
DRO STATE ACTION LEVEL = 100 mg/kg

NOTE:
ONLY RESULTS DETECTED ABOVE THE METHOD DETECTION LIMIT ARE SHOWN

15' 0' 15' 30'
7.5'
(ENGLISH)

wood.

SOIL SAMPLE ANALYTICAL DETECTIONS
R-2703B- PARCEL 170
558 NC 150 (RIVER HWY)
MOORESVILLE, NORTH CAROLINA

PREPARED BY:	DATE:	CHECKED BY:	DATE:	JOB NUMBER	FIGURE
LMD	3/22/22	DRH	3/22/22	20478R2703	4

TABLES

Table 1: Site History – UST System Owner/Operator and Other Responsible Party Information

R-2307, Parcel 170, RSD Food Restaurants Real Estate Holding #3100, LLC

Wood Project: 20478R2307

Revision Date: 3/23/2022 Incident Number: N/A

UST ID Number	UST #1, #2A, #2B, #3	**Facility ID Number**	00-0-0000036164
Name of Landowner/UST Owner		**Dates of Ownership**	
RSD Food Restaurants Estate Holding #3100, LLC		2004 to present	
Street Address			
558 River Hwy (NC-150)			
City	**State**	**Zip**	**Telephone Number**
Mooresville	NC	28117	Unknown
Name of Operator		**Dates of Operation**	
RSD Food Restaurants Estate Holding #3100, LLC		Unknown	
Street Address			
558 River Hwy (NC-150)			
City	**State**	**Zip**	**Telephone Number**
Mooresville	NC	28117	Unknown
Other Incidents Onsite			
Incident Number	40116	Date Incident Occurred	8/18/12
Name of Responsible Party for Other Incident		Date Incident Reported	8/18/12
Unknown		Date Incident Closed *(i/a)*	11/20/2012
Street Address			
558 River Hwy (NC-150)			
City	State	Zip	Telephone Number
Mooresville	NC	28117	Unknown

Table 2: Site History – UST System and Release Information

R-2307B, Parcel 170, RSD Food Restaurants Real Estate Holding #3100, LLC

Wood Project: 20478R2307

Incident Number/Name: N/A /Parcel 170 – RSD Food Restaurants Real Estate Holding #3100, LLC

UST ID Number	Current/Last Contents	Previous Contents	Capacity (gallons)	Construction Details	Tank Dimensions (feet)	Description of Associated Piping and Pumps	Date Tank Installed	Status of UST	Was a release associated with the UST system?	NCDEQ Incident #
1	Gasoline	N/A	20,000	FRP Coated Steel	10.5 x 31	Flexible	05/15/2000	Removed, 1/11/22	No	N/A
2A	Gasoline	N/A	12,000	FRP Coated Steel	10 x 20	Flexible	05/15/2000	Removed, 1/11/22	No	N/A
2B	Diesel	N/A	6,000	FRP Coated Steel	10 x 10	Flexible	05/15/2000	Removed, 1/11/22	Yes (former)	40116 (now closed)
3	Gasoline	N/A	3,000	FRP Coated Steel	5.3 x 18	Flexible	05/15/2000	Removed, 1/10/22	No	N/A

Table 3: UST Closure Soil Sample Results
R-2703B, Parcel 170, RSD Food Restaurants Real Estate Holding #3100, LLC
Wood Project: 20478R2307

Incident Number/Name: N/A/ Parcel 170 – RSD Food Restaurants Real Estate Holding #3100, LLC

Analytical Method →						EPA Method 8015C (mg/kg)	
Contaminant of Concern →						TPH DRO	TPH GRO
Sample ID	**Date Collected**	**UST Area**	**Sample Depth (feet)**	**PID Reading (PPM)**	**Incident Phase**		
UST 1-1	1/11/22	UST #1	16.5-17	97.5	Closure	NA	<4.2
UST 1-2	1/11/22	UST #1	16.5-17	214.7	Closure	NA	<4.0
UST 1-3	1/11/22	UST #1	16.5-17	54.3	Closure	NA	<4.3
UST 1-4	1/11/22	UST #1	16.5-17	109.4	Closure	NA	<4.1
UST 2-1	1/10/22	UST #2	16.5-17	40.7	Closure	<4.8	<5.0
UST 2-2	1/10/22	UST #2	16.5-17	144.1	Closure	<4.2	<4.2
UST 2-3	1/11/22	UST #2	16.5-17	45.5	Closure	4.8 J	<4.4
UST 2-4	1/11/22	UST #2	16.5-17	163.7	Closure	<4.4	<3.9
UST 3-1	1/10/22	UST #3	8.5-9	5.1	Closure	NA	<2.3
UST 3-2	1/10/22	UST #3	8.5-9	20.1	Closure	NA	<2.6
State Action Level (mg/kg)						100	50

Notes:

1. Sample depths shown in feet below ground surface (bgs)
2. Concentrations are shown in milligrams per kilogram (mg/kg)
3. TPH = Total Petroleum Hydrocarbons
4. DRO = Diesel Range Organics
5. GRO = Gasoline Range Organics
6. NA = Not Analyzed
7. < = values below the laboratory method detection limit
8. J = J-Flag is an estimated value below the laboratory reporting limit but above the method detection limit
9. PPM = parts per million

Prepared By/Date: DRH 1/26/2022
Checked By/Date: KNS 3/22/2022

Table 4: UST Spill Bucket Closure Soil Sample Results
R-2703B, Parcel 170, RSD Food Restaurants Real Estate Holding #3100, LLC
Wood Project: 20478R2307

Incident Number/Name: N/A/ Parcel 170 – RSD Food Restaurants Real Estate Holding #3100, LLC

Analytical Method →						EPA Method 8015C (mg/kg)	
Contaminant of Concern →						TPH DRO	TPH GRO
Sample ID	**Date Collected**	**UST Area**	**Sample Depth (feet)**	**PID Reading (PPM)**	**Incident Phase**		
SB-1	3/1/22	Spill Bucket	2.5-3	0.0	Closure	<4.6	<5.3
SB-2	3/1/22	Spill Bucket	2.5-3	0.0	Closure	<4.5	<5.0
SB-3	3/1/22	Spill Bucket	2.5-3	1.9	Closure	<5.0	<5.5
SB-4	3/1/22	Spill Bucket	2.5-3	0.0	Closure	<4.7	<4.9
SB-5	3/1/22	Spill Bucket	2.5-3	0.0	Closure	<4.6	<5.1
SB-6	3/1/22	Spill Bucket	2.5-3	2.2	Closure	<5.0	<5.4
SB-7	3/1/22	Spill Bucket	2.5-3	2.1	Closure	<4.7	<10.6
SB-8	3/1/22	Spill Bucket	2.5-3	0.0	Closure	<5.0	<5.4
SB-9	3/1/22	Spill Bucket	2.5-3	0.1	Closure	<4.9	<5.0
SB-10	3/3/22	Spill Bucket	2.5-3	1.8	Closure	<5.1	15.3 J
SB-11	3/3/22	Spill Bucket	2.5-3	2.8	Closure	17.6	<3.4
SB-12	3/2/22	Spill Bucket	2.5-3	4.4	Closure	<4.8	<4.5
State Action Level (mg/kg)						100	50

Notes:

1. Sample depths shown in feet below ground surface (bgs)
2. Concentrations are shown in milligrams per kilogram (mg/kg)
3. TPH = Total Petroleum Hydrocarbons
4. DRO = Diesel Range Organics
5. GRO = Gasoline Range Organics
6. < = values below the laboratory method detection limit
7. J-Flag is an estimated value below the laboratory reporting limit but above the method detection limit.
8. PPM = parts per million

Prepared By/Date: DRH 3/18/2022
Checked By/Date: KNS 3/22/2022

Table 5: UST Product Line Closure Soil Sample Results
R-2703B, Parcel 170, RSD Food Restaurants Real Estate Holding #3100, LLC
Wood Project: 20478R2307

Incident Number/Name: N/A / Parcel 170 – RSD Food Restaurants Real Estate Holding #3100, LLC

Analytical Method →						EPA Method 8015C (mg/kg)	
Contaminant of Concern →						TPH DRO	TPH GRO
Sample ID	**Date Collected**	**UST Area**	**Sample Depth (feet)**	**PID Reading (PPM)**	**Incident Phase**		
PL-1	3/2/22	Product Line	2.5-3	1.1	Closure	<4.8	<4.9
PL-2	3/2/22	Product Line	2.5-3	1.4	Closure	<5.1	<5.2
PL-3	3/2/22	Product Line	2.5-3	3.7	Closure	<4.6	<4.8
PL-4	3/2/22	Product Line	2.5-3	3.1	Closure	<4.8	<5.0
PL-5	3/2/22	Product Line	2.5-3	1.4	Closure	<4.4	<3.8
PL-6	3/2/22	Product Line	2.5-3	5.6	Closure	<4.5	<3.6
PL-7	3/2/22	Product Line	2.5-3	1.2	Closure	<4.7	<6.3
PL-8	3/2/22	Product Line	2.5-3	1.3	Closure	<4.7	<5.3
PL-9	3/2/22	Product Line	2.5-3	4.2	Closure	<4.5	<5.0
PL-10	3/2/22	Product Line	2.5-3	1.6	Closure	<4.5	<29.8
PL-11	3/3/22	Product Line	2.5-3	1.0	Closure	<4.7	<8.1
PL-12	3/3/22	Product Line	2.5-3	2.2	Closure	<4.8	<5.6
PL-13	3/3/22	Product Line	2.5-3	0.8	Closure	<4.4	<5.1
PL-14	3/3/22	Product Line	2.5-3	1.4	Closure	<4.6	<6.4
PL-15	3/3/22	Product Line	2.5-3	3.2	Closure	<4.6	<5.2
PL-16	3/3/22	Product Line	2.5-3	0.9	Closure	<4.6	<8.3
PL-17	3/3/22	Product Line	2.5-3	1.0	Closure	<4.9	<5.6
PL-18	3/3/22	Product Line	2.5-3	1.2	Closure	<4.6	<5.5
PL-19	3/3/22	Product Line	2.5-3	1.8	Closure	<4.6	<4.9
PL-20	3/3/22	Product Line	2.5-3	3.2	Closure	<4.6	<3.5
PL-21	3/3/22	Product Line	2.5-3	1.2	Closure	<3.8	<2.9
PL-22	3/3/22	Product Line	2.5-3	1.4	Closure	<4.3	<3.6
PL-23	3/3/22	Product Line	2.5-3	0.4	Closure	<4.9	9.1 J
PL-24	3/3/22	Product Line	2.5-3	1.3	Closure	<4.4	<4.9
PL-25	3/3/22	Product Line	2.5-3	4.1	Closure	<4.4	<4.3
PL-26	3/3/22	Product Line	2.5-3	3.1	Closure	<4.4	<3.8
PL-27	3/3/22	Product Line	2.5-3	2.6	Closure	<4.7	10.9 J
PL-28	3/3/22	Product Line	2.5-3	1.7	Closure	<4.5	<4.5
State Action Level (mg/kg)						100	50

Notes:

1. Sample depths shown in feet below ground surface (bgs)
2. Concentrations are shown in milligrams per kilogram (mg/kg)
3. TPH = Total Petroleum Hydrocarbons
4. DRO = Diesel Range Organics
5. GRO = Gasoline Range Organics
6. < = values below the laboratory method detection limit
7. J-Flag is an estimated value below the laboratory reporting limit but above the method detection limit.
8. PPM = parts per million

Prepared By/Date: DRH 3/18/22
Checked By/Date: KNS 3/23/22

APPENDIX A

TANK AND LIQUID DISPOSAL CERTIFICATES

NON-HAZARDOUS WASTE MANIFEST (Continuation Sheet)

19. Generator ID Number	20. Page	21. Waste Tracking Number
		24609

22. Generator's Name: NC DOT
558 River Hwy
Mocksville NC

23. Transporter CCI Company Name — U.S. EPA ID Number

24. Transporter _____ Company Name — U.S. EPA ID Number

GENERATOR

	25. Waste Shipping Name and Description	26. Containers No.	26. Containers Type	27. Total Quantity	28. Unit Wt./Vol.	
	20,000 Gal Empty steel tank					

29. Special Handling Instructions and Additional Information

TRANSPORTER

30. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

31. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

32. Discrepancy

L. Gordon Iron & Metal

NON-HAZARDOUS WASTE MANIFEST (Continuation Sheet)	19. Generator ID Number	20. Page	21. Waste Tracking Number 24609

22. Generator's Name NC DOT
558 River Hwy
Mocksville NC

23. Transporter LCI Company Name | U.S. EPA ID Number

24. Transporter _____ Company Name | U.S. EPA ID Number

GENERATOR

	25. Waste Shipping Name and Description	26. Containers No.	26. Containers Type	27. Total Quantity	28. Unit Wt./Vol.	
	18,000 G Two Compartment Empty Steel TANK			1		

29. Special Handling Instructions and Additional Information

TRANSPORTER

30. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

31. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

32. Discrepancy

L. Gordon Iron + Metal

Tank manifest

NON-HAZARDOUS WASTE MANIFEST (Continuation Sheet)

19. Generator ID Number

20. Page

21. Waste Tracking Number 24609

22. Generator's Name NC DOT
558 River Hwy
Mooresville NC

23. Transporter LCI Company Name — U.S. EPA ID Number

24. Transporter _____ Company Name — U.S. EPA ID Number

	25. Waste Shipping Name and Description	26. Containers No.	26. Containers Type	27. Total Quantity	28. Unit Wt./Vol.	
	3000 Gal Empty steel tank	01	T.P	1		
	Billy an agent of NCDOT					

GENERATOR

29. Special Handling Instructions and Additional Information

TK# 7008

TRANSPORTER

30. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name: Allen Warren — Signature: Allen Wa — Month: 01 — Day: 10 — Year: 22

31. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

32. Discrepancy

Foils Recycling

NON-HAZARDOUS WASTE MANIFEST (Continuation Sheet)	19. Generator ID Number	20. Page	21. Waste Tracking Number 24609

22. Generator's Name NC DoT
558 River Hwy
Mooresville NC

23. Transporter CCI Company Name — U.S. EPA ID Number

24. Transporter _____ Company Name — U.S. EPA ID Number

	25. Waste Shipping Name and Description	26. Containers No.	26. Containers Type	27. Total Quantity	28. Unit Wt./Vol.	
	Non Hazardous liquids N.O.S water, Gas	1	TT	63	G	
	Allen as an agent of NCDOT					

GENERATOR

29. Special Handling Instructions and Additional Information

TRANSPORTER

30. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name Joseph Smith — Signature — Month 1 — Day 10 — Year 22

31. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

32. Discrepancy
Received @ CCI on 1-10-22 for Solidification

170-BLC-O 5 11978 (Rev. 8/06)

DESIGNATED FACILITY TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

Wood

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. 24801	2. Page 1 of

3. Generator's Name and Mailing Address

558 River Rd
Mooresville NC

4. Generator's Phone ( )

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
CCI		B. Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
		F. Facility's Phone

GENERATOR

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON Hazardous liquids N.O.S water, Gas, diesel	1	TT	17	G
b.				
c.				
d.				

G. Additonal Descriptions for Materials Listed Above	H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
As an agent of NCDOT Derrick Hoyle		3	1	22

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
VICTOR GARCIA	VICTOR GARCIA	3	1	22

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this maifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
Jason Tomp		3	1	22

NON-HAZARDOUS WASTE

Rev. 3/95

WEIGHMASTER CERTIFICATE
TRUCK SCALE

L. GORDON IRON & METAL COMPANY

L. Gordon Iron & Metal
PO Box 1192 ▲ Statesville, NC 28687
(704) 873-9004

** REPRINTED ON 01/11/22 **

Ticket #: TAWIDR

Purchased From: CCIE00 SHIP DATE: 01/11/22
CCI Environmental Services
281 Land Parkway
Salisbury, NC 28306

Gordon Iron & Metal
1300 Salisbury Rd.
Statesville, NC 28625

ISRI MEMBER

Veh # CCIENVIRO ID # CCIENVIRO

SHPMNT#	COMMODITY	GROSS	TARE	NET	ADJ REASON	PD WT
TAWIDR	Shear Crane	71440a	42760a	28680	0	28680

ALL WEIGHTS ARE REPORTED IN POUNDS UNLESS OTHERWISE INDICATED. ALL NON-POUND WEIGHTS ARE ASSUMED TO BE MANUAL WEIGHTS

TOTALS	28680	0	28680

Ticket Comment: OK ALAN

GRS Date 01/11/22	GROSS TONS
GRS Time 09:44	12.8036
TRE Date 01/11/22	
TRE Time 12:02	

WEIGHMASTER SIGNATURE _____
(Leslie Eggers)

a=SCALE 1 b=SCALE 2 c=SCALE 3 d=SCALE 4 m=MANUAL WEIGHT

Jason Jones
Job# 24609

I hereby affirm under penalty of prosecution that I am the rightful owner of the hereon described merchandise; or I am an authorized representative of the rightful owner and affirm that I have been given authority by the rightful owner to sell the hereon described merchandise.

CFC REMOVAL VERIFICATION

In consideration of purchase of this material, seller certifies that to the best of his knowledge, all refrigerant (Including but not limited to chlorofluorocarbons (CFCs) & hydrochlorofluorocarbons (HCFCs), as defined in Paragraph 608 of the Clean Air Act & 40 CFR Part 82) - [Check One]

☐ That had not leaked previously or has been recovered from the appliance/autos/AC units or shipment of appliances/autos/AC units delivered under this sale. The refrigerant has been removed by:

Name _____ Date of CFC Removal

Address _____ _____

☐ Has leaked previously from the appliance/autos/AC units or shipment of appliance/autos/AC units delivered under this sale

☐ Not applicable. The scrap delivered under this sale has never contained refrigerant of any kind.

_____ _____
SIGNATURE DATE

WEIGHMASTER CERTIFICATE
TRUCK SCALE

L. GORDON IRON & METAL COMPANY

L. Gordon Iron & Metal
PO Box 1192 ▲ Statesville, NC 28687
(704) 873-9004

** REPRINTED ON 01/11/22 **

Ticket #: TAWIGN

Purchased From: CCIEOO
CCI Environmental Services
281 Land Parkway
Salisbury, NC 28306

SHIP DATE: 01/11/22

Gordon Iron & Metal
1300 Salisbury Rd.
Statesville, NC 28625

ISRI MEMBER

Veh # CCI ENVIR ID # CCIENVIR

SHPMNT#	COMMODITY	GROSS	TARE	NET	ADJ	REASON	PD WT
TAWIGN	Shear Crane	72110a	42740a	29370	0		29370

ALL WEIGHTS ARE REPORTED IN POUNDS UNLESS OTHERWISE INDICATED. ALL NON-POUND WEIGHTS ARE ASSUMED TO BE MANUAL WEIGHTS

TOTALS	29370	0	29370

Ticket Comment: OK ALAN

GRS Date	01/11/22
GRS Time	11:45
TRE Date	01/11/22
TRE Time	12:02

GROSS TONS 13.1116

WEIGHMASTER SIGNATURE _____
(Leslie Eggers)

a=SCALE 1 b=SCALE 2 c=SCALE 3 d=SCALE 4 m=MANUAL WEIGHT

I hereby affirm under penalty of prosecution that I am the rightful owner of the hereon described merchandise; or I am an authorized representative of the rightful owner and affirm that I have been given authority by the rightful owner to sell the hereon described merchandise.

CFC REMOVAL VERIFICATION

In consideration of purchase of this material, seller certifies that to the best of his knowledge, all refrigerant (Including but not limited to chlorofluorocarbons (CFCs) & hydrochlorofluorocarbons (HCFCs), as defined in Paragraph 608 of the Clean Air Act & 40 CFR Part 82) - [Check One]

☐ That had not leaked previously or has been recovered from the appliance/autos/AC units or shipment of appliances/autos/AC units delivered under this sale. The refrigerant has been removed by:

Name _____ Date of CFC Removal

Address _____ _____

☐ Has leaked previously from the appliance/autos/AC units or shipment of appliance/autos/AC units delivered under this sale

☐ Not applicable. The scrap delivered under this sale has never contained refrigerant of any kind.

_____ SIGNATURE

_____ DATE

FOIL'S INCORPORATED
ROWAN RECEIVING
1039 KLUMAC ROAD
SALISBURY, NC 28146
704-633-1585

CASH CARD TRANSACTION

ACCT: CCIE1000
CCI ENVIRONMENTAL

PO BOX 64399
FAYETTEVILLE NC 28306

RECV DATE: 01/25/2022
RECEIVER #: R546131
CONTROL #: R546131

LIC PLATE: NM-8651 **ID:**
PAY BY: SCK 161962 **INIT:** NMV

COMMODITY	GROSS	TARE	NET	PRICE/	UM	AMOUNT
#2 HMS (LONG)	49,240	41,200	8,040		CW	
TOTALS:			**8,040**			

X _____

MATERIAL SOURCE

PO BOX 64399
FAYETTEVILLE NC 28306

PROCESS THIS TICKET IN:
BUS

HOURS OF OPERATION

Mon - Thur 8AM - 4:30PM
Fri 8:00 AM - Noon
Sat 8:00 AM - Noon

Price Info call 704-633-1585

New & Used Steel Sales 704-455-5134

New & Used Auto Parts 704-455-4300

Seller Warrants to Buyer it has good & marketable title to said property, full authortiy to sell & transfer said property, & that said property is soldfree of all liens, encumbrances, liabilities & adverse claims.

Seller further warrants it will fully defend, protect, indemnify & hold harmless the Buyer from any adverse claim made thereto by all persons whomever.

- I meet all legal requirements to sign this document.
- Buyer's weights, specs & grading govern.
- I attest the above wgts are correct & final.
- By accepting the amount above, merchandise sold to Foils's Inc. is considered PAID IN FULL.
- Seller acknowledges compliance with our "Environmental Policy" as posted on scales.

APPENDIX B

EXCAVATION LOGS

wood.

EXCAVATION NO: 1

EXCAVATION LOG: R-2307B - UST-1, UST-2, UST-3

PAGE 1 **OF** 1

LOCATION: 558 River Hwy, Mooresville NC 28117

DATE: 1/10/22-1/11/22

CONTRACTOR: CCI, Inc.

START: 8:30 (1/10/22)

WEATHER: Sunny, 34°F

FINISH: 11:00 (1/11/22)

EXCAVATION METHOD: Track Hoe

LOGGED BY: DRH

NOTES:
Groundwater was not encountered during the excavation

DEPTH TO ROCK: No bedrock was encountered

TOTAL DEPTH OF EXCAVATION: 17 feet

DEPTH IN FEET		MOISTURE	SOIL / BEDROCK DESCRIPTION	UVF - Maximum (ppm)
FROM	TO			
0	0.5	Dry	Concrete	No reading
0.5	13	Moist	Pea gravel/ red silty clay	20.1
13	17	Moist	Pea gravel/ white tan orange fine-grained sandy saprolite	214.7

wood.	**EXCAVATION NO: 2**
EXCAVATION LOG: R-2307B – Product Line Trenches	**PAGE** 1 **OF** 1
LOCATION: 558 River Hwy, Mooresville NC 28117	**DATE:** 3/1/22-3/3/22
CONTRACTOR: CCI, Inc.	**START:** 8:30 (3/1/22)
WEATHER: Sunny, 50°F	**FINISH:** 12:00 (3/3/22)
EXCAVATION METHOD: Track Hoe	**LOGGED BY:** DRH

NOTES:
Groundwater was not encountered during the excavation

DEPTH TO ROCK: No bedrock was encountered

TOTAL DEPTH OF EXCAVATION: 3 feet

DEPTH IN FEET		MOISTURE	SOIL / BEDROCK DESCRIPTION	UVF - Maximum (ppm)
FROM	TO			
0	0.5	Dry	Concrete	No reading
0.5	3	Dry	Pea gravel/ red silty clay/ gray fly ash	5.6

APPENDIX C

PHOTOGRAPHS

Photograph 1:
UST locations outlined in pink by private utility locator.

Photograph 2:
CCI removing concrete over USTs.

Photograph 3:
CCI using a LEL meter to check gas levels before removing.

Photograph 4:
UST-3 removed from UST basin.

Photograph 5:
USTs #1 (right) and #2 (left).

Photograph 6:
UST-1 removed from UST basin.

Photograph 7:
UST-2 removed from UST basin.

Photograph 8:
Open excavation after UST removal.

Photograph 9:
NCDOT performing compaction testing.

Photograph 10:
Excavation backfilled, compacted, and topped with ABC stone.

Photograph 11:
Product line trenches outlined by private utility locator.

Photograph 12:
CCI using a concrete saw to cut concrete and asphalt along product line trenches.

Photograph 13:
CCI removing a spill bucket.

Photograph 14:
CCI using a vacuum truck to remove any remaining liquid in the product lines.

Photograph 15: One product line trench exposed.

Photograph 16: Product line trench exposed.

Photograph 17:
Product line trenches backfilled and covered with ABC stone.

APPENDIX D

UST-2A FORM

UST-2A

Site Investigation Report for Permanent Closure or Change-in-Service of REGISTERED UST

Return completed form to:

NC DEQ / DWM / UST SECTION
1646 MAIL SERVICE CENTER
RALEIGH, NC 27699-1646
ATTN: REGISTRATION & PERMITTING

phone (919) 707-8171 fax (919) 715-1117 http://www.wastenotnc.org/

STATE USE ONLY:
Facility ID #

Date Received

INSTRUCTIONS (READ THIS FIRST)

1. UST permanent closure or change in service must be completed in accordance with the latest version of the *Guidelines for Site Checks, Tank Closure and Initial Response and Abatement*. The guidelines can be obtained at http://deq.nc.gov/about/divisions/waste-management/waste-management-permit-guidance/underground-storage-tanks-section.
2. Permanent closure: Complete all sections of this form.
3. Change-in-service: Where a UST system will be converted from storing a regulated substance to a non-regulated substance, complete sections I, II, III, IV, and VI
4. For more than 5 registered UST systems, attach additional forms as needed
5. **Tank Fee Refund: An annual tank fee may be refunded for a tank for which a tank fee was not required. An owner or operator must submit a written request and include: (1) contact information, (2) federal identification # or SSN, and (3) a copy of UST-2 form. The annual tank fee will be prorated based on the date of permanent closure.**
6. UNREGISTERED USTs use Form UST-2B

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity)
RSD Food Restaurants Real Estate Holding #3100 LLC

Street Address
558 NC-150 (River Highway)

City: Mooresville
County: Iredell
State: NC
Zip Code: 28117

Phone Number
Unknown

II. LOCATION OF TANKS

Facility Name or Company
RSD Food Restaurants Real Estate Holding #3100 LLC

Facility ID # (If known)
00-0-00000036164

Street Address
558 NC 150 (River Highway)

City: Mooresville
County: Iredell
Zip Code: 28117

Phone Number
Unknown

III. CONTACT PERSONNEL

Contact for Facility:		Job Title:	Phone #:
Robert Duckworth		Owner	704-906-6105
Closure Contractor Name: Jason Jomp	Closure Contractor Company: Contaminant Control Inc. (CCI)	Address: 281 Lane Pkwy, Salisbury, NC	Phone # 704-273-1500
Primary Consultant Name: Helen Corley	Primary Consultant Company: Wood E&IS	Address: 2801 Yorkmont Rd, Charlotte, NC	Phone # 704-357-8600

IV. UST INFORMATION FOR REGISTERED UST SYSTEMS

UNREGISTERED USTs use Form UST-2B

V. EXCAVATION CONDITION

Tank ID No.	Size in Gallons	Last Contents	Last Use Date	Permanent Close Date	Method of Permanent Closure: Indicate REMOVED or enter fill material, such as foam/ concrete/ sand	Change-in-Service Date	Water in excavation		Free product		Notable odor or visible soil contamination	
							Yes	No	Yes	No	Yes	No
UST-1	20000	Gasoline, C	Unk	1/11/22	REMOVED	NA	☐	☒	☐	☒	☐	☒
UST-2A	12000	Gasoline, C	Unk	1/11/22	REMOVED	NA	☐	☒	☐	☒	☐	☒
UST-2B	6000	Dielsel, Die	Unk	1/11/22	REMOVED	NA	☐	☒	☐	☒	☐	☒
UST-3	3000	Gasoline, C	Unk	1/10/22	REMOVED	NA	☐	☒	☐	☒	☐	☒
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐

VI. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true accurate and complete.

Print name and official title of owner or owner's authorized representative
Derick Haydin Geologist/ an Agent of NCDOT

Signature

Date Signed
3/23/22

APPENDIX E
LABORATORY REPORTS AND CHAIN-OF-CUSTODY

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

January 24, 2022

Mr. Andrew Frantz
WOOD E&I
2801 Yorkmont Rd
Suite 100
Charlotte, NC 28208

RE: Project: 20478R2307.02.****
Pace Project No.: 92582202

Dear Mr. Frantz:

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

Sara Poulson
sara.poulson@pacelabs.com
(704)875-9092
Project Manager

Enclosures

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

CERTIFICATIONS

Project: 20478R2307.02.****
Pace Project No.: 92582202

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kincey 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

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

SAMPLE SUMMARY

Project: 20478R2307.02.****
Pace Project No.: 92582202

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92582202001	**UST 1-1**	Solid	01/11/22 09:10	01/11/22 17:12
92582202002	**UST 1-2**	Solid	01/11/22 09:15	01/11/22 17:12
92582202003	**UST 1-3**	Solid	01/11/22 10:00	01/11/22 17:12
92582202004	**UST 1-4**	Solid	01/11/22 10:05	01/11/22 17:12
92582202005	**UST 2-1**	Solid	01/10/22 15:00	01/11/22 17:12
92582202006	**UST 2-2**	Solid	01/10/22 15:10	01/11/22 17:12
92582202007	**UST 2-3**	Solid	01/11/22 10:10	01/11/22 17:12
92582202008	**UST 2-4**	Solid	01/11/22 10:15	01/11/22 17:12
92582202009	**UST 3-1**	Solid	01/10/22 12:00	01/11/22 17:12
92582202010	**UST 3-2**	Solid	01/10/22 12:05	01/11/22 17:12

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

SAMPLE ANALYTE COUNT

Project: 20478R2307.02.****
Pace Project No.: 92582202

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92582202001	**UST 1-1**	EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92582202002	**UST 1-2**	EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92582202003	**UST 1-3**	EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92582202004	**UST 1-4**	EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92582202005	**UST 2-1**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92582202006	**UST 2-2**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92582202007	**UST 2-3**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92582202008	**UST 2-4**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92582202009	**UST 3-1**	EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92582202010	**UST 3-2**	EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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

ANALYTICAL RESULTS

Project: 20478R2307.02.****
Pace Project No.: 92582202

Sample: UST 1-1 **Lab ID: 92582202001** Collected: 01/11/22 09:10 Received: 01/11/22 17:12 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
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	16.7	4.2	1	01/12/22 14:12	01/12/22 19:07		
Surrogates									
4-Bromofluorobenzene (S)	92	%	66-131		1	01/12/22 14:12	01/12/22 19:07	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**16.9**	%	0.10	0.10	1		01/12/22 14:05		N2

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 20478R2307.02.****
Pace Project No.: 92582202

Sample: UST 1-2 **Lab ID: 92582202002** Collected: 01/11/22 09:15 Received: 01/11/22 17:12 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
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	15.8	4.0	1	01/12/22 14:12	01/12/22 19:35		
Surrogates									
4-Bromofluorobenzene (S)	91	%	66-131		1	01/12/22 14:12	01/12/22 19:35	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**14.8**	%	0.10	0.10	1		01/12/22 14:05		N2

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 20478R2307.02.****
Pace Project No.: 92582202

Sample: UST 1-3 **Lab ID: 92582202003** Collected: 01/11/22 10:00 Received: 01/11/22 17:12 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
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	17.0	4.3	1	01/12/22 14:12	01/12/22 20:03		
Surrogates									
4-Bromofluorobenzene (S)	91	%	66-131		1	01/12/22 14:12	01/12/22 20:03	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**17.1**	%	0.10	0.10	1		01/12/22 14:05		N2

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 20478R2307.02.****
Pace Project No.: 92582202

Sample: UST 1-4 **Lab ID: 92582202004** Collected: 01/11/22 10:05 Received: 01/11/22 17:12 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
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	16.3	4.1	1	01/12/22 14:12	01/12/22 20:31		
Surrogates									
4-Bromofluorobenzene (S)	94	%	66-131		1	01/12/22 14:12	01/12/22 20:31	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**17.0**	%	0.10	0.10	1		01/12/22 14:06		N2

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 20478R2307.02.****
Pace Project No.: 92582202

Sample: UST 2-1 **Lab ID: 92582202005** Collected: 01/10/22 15:00 Received: 01/11/22 17:12 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.8	4.8	1	01/12/22 12:06	01/12/22 14:13		
Surrogates									
n-Pentacosane (S)	50	%	32-130		1	01/12/22 12:06	01/12/22 14:13	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	19.8	5.0	1	01/12/22 14:12	01/12/22 20:59		
Surrogates									
4-Bromofluorobenzene (S)	94	%	66-131		1	01/12/22 14:12	01/12/22 20:59	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**26.5**	%	0.10	0.10	1		01/12/22 14:06		N2

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 20478R2307.02.****
Pace Project No.: 92582202

Sample: UST 2-2 **Lab ID: 92582202006** Collected: 01/10/22 15:10 Received: 01/11/22 17:12 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
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	4.2	1	01/12/22 12:06	01/12/22 14:47		
Surrogates									
n-Pentacosane (S)	35	%	32-130		1	01/12/22 12:06	01/12/22 14:47	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	16.6	4.2	1	01/12/22 14:12	01/12/22 21:28		
Surrogates									
4-Bromofluorobenzene (S)	90	%	66-131		1	01/12/22 14:12	01/12/22 21:28	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**15.0**	%	0.10	0.10	1		01/12/22 14:06		N2

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 20478R2307.02.****
Pace Project No.: 92582202

Sample: UST 2-3 **Lab ID: 92582202007** Collected: 01/11/22 10:10 Received: 01/11/22 17:12 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	**4.8J**	mg/kg	6.7	4.8	1	01/12/22 12:06	01/12/22 14:47		
Surrogates									
n-Pentacosane (S)	39	%	32-130		1	01/12/22 12:06	01/12/22 14:47	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	17.5	4.4	1	01/12/22 14:12	01/12/22 21:56		
Surrogates									
4-Bromofluorobenzene (S)	92	%	66-131		1	01/12/22 14:12	01/12/22 21:56	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**24.8**	%	0.10	0.10	1		01/12/22 14:06		N2

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 20478R2307.02.****
Pace Project No.: 92582202

Sample: UST 2-4 **Lab ID: 92582202008** Collected: 01/11/22 10:15 Received: 01/11/22 17:12 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
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	4.4	1	01/12/22 17:07	01/13/22 09:14		
Surrogates									
n-Pentacosane (S)	65	%	32-130		1	01/12/22 17:07	01/13/22 09:14	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	15.3	3.9	1	01/12/22 14:12	01/12/22 22:24		
Surrogates									
4-Bromofluorobenzene (S)	88	%	66-131		1	01/12/22 14:12	01/12/22 22:24	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**17.9**	%	0.10	0.10	1		01/12/22 14:06		N2

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 20478R2307.02.****
Pace Project No.: 92582202

Sample: UST 3-1 **Lab ID: 92582202009** Collected: 01/10/22 12:00 Received: 01/11/22 17:12 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
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	9.0	2.3	1	01/12/22 14:12	01/12/22 22:52		
Surrogates									
4-Bromofluorobenzene (S)	88	%	66-131		1	01/12/22 14:12	01/12/22 22:52	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**14.5**	%	0.10	0.10	1		01/12/22 14:06		N2

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 20478R2307.02.****
Pace Project No.: 92582202

Sample: UST 3-2 **Lab ID: 92582202010** Collected: 01/10/22 12:05 Received: 01/11/22 17:12 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
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	10.2	2.6	1	01/12/22 14:12	01/12/22 23:20		
Surrogates									
4-Bromofluorobenzene (S)	94	%	66-131		1	01/12/22 14:12	01/12/22 23:20	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**14.3**	%	0.10	0.10	1		01/12/22 14:06		N2

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 20478R2307.02.****
Pace Project No.: 92582202

QC Batch: 671341
QC Batch Method: EPA 5030B
Analysis Method: EPA 8015C
Analysis Description: Gasoline Range Organics
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92582202001, 92582202002, 92582202003, 92582202004, 92582202005, 92582202006, 92582202007, 92582202008, 92582202009, 92582202010

METHOD BLANK: 3514856 Matrix: Solid
Associated Lab Samples: 92582202001, 92582202002, 92582202003, 92582202004, 92582202005, 92582202006, 92582202007, 92582202008, 92582202009, 92582202010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	6.0	1.5	01/12/22 15:22	
4-Bromofluorobenzene (S)	%	93	66-131		01/12/22 15:22	

LABORATORY CONTROL SAMPLE: 3514857

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	49.8	49.8	100	70-130	
4-Bromofluorobenzene (S)	%			95	66-131	

MATRIX SPIKE SAMPLE: 3514859

Parameter	Units	92581705001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	129	131	102	70-145	
4-Bromofluorobenzene (S)	%				88	66-131	

SAMPLE DUPLICATE: 3514858

Parameter	Units	92581389001 Result	Dup Result	RPD	Max RPD	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	ND		30	
4-Bromofluorobenzene (S)	%	89	90			

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: 20478R2307.02.****
Pace Project No.: 92582202

QC Batch: 671304
QC Batch Method: EPA 3546
Analysis Method: EPA 8015C
Analysis Description: 8015 Solid GCSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92582202005, 92582202006, 92582202007, 92582202008

METHOD BLANK: 3514665 Matrix: Solid
Associated Lab Samples: 92582202005, 92582202006, 92582202007, 92582202008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	5.0	3.6	01/12/22 13:57	
n-Pentacosane (S)	%	59	32-130		01/12/22 13:57	

LABORATORY CONTROL SAMPLE: 3514666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	66.4	39.5	60	47-130	
n-Pentacosane (S)	%			61	32-130	

MATRIX SPIKE SAMPLE: 3514667

Parameter	Units	92582202005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	91	44.7	47	10-133	
n-Pentacosane (S)	%				50	32-130	

SAMPLE DUPLICATE: 3514668

Parameter	Units	92582202006 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	ND		30	
n-Pentacosane (S)	%	35	19			S0

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: 20478R2307.02.****
Pace Project No.: 92582202

QC Batch: 671339
QC Batch Method: SW-846
Analysis Method: SW-846
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92582202001, 92582202002, 92582202003, 92582202004, 92582202005, 92582202006, 92582202007, 92582202008, 92582202009, 92582202010

SAMPLE DUPLICATE: 3514844

Parameter	Units	35688733001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.6	22.0	16	25	N2

SAMPLE DUPLICATE: 3514845

Parameter	Units	92582227001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	31.2	32.2	3	25	N2

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: 20478R2307.02.****
Pace Project No.: 92582202

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.
S0	Surrogate recovery outside laboratory control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20478R2307.02.****
Pace Project No.: 92582202

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92582202005	**UST 2-1**	EPA 3546	671304	EPA 8015C	671336
92582202006	**UST 2-2**	EPA 3546	671304	EPA 8015C	671336
92582202007	**UST 2-3**	EPA 3546	671304	EPA 8015C	671336
92582202008	**UST 2-4**	EPA 3546	671304	EPA 8015C	671336
92582202001	**UST 1-1**	EPA 5030B	671341	EPA 8015C	671345
92582202002	**UST 1-2**	EPA 5030B	671341	EPA 8015C	671345
92582202003	**UST 1-3**	EPA 5030B	671341	EPA 8015C	671345
92582202004	**UST 1-4**	EPA 5030B	671341	EPA 8015C	671345
92582202005	**UST 2-1**	EPA 5030B	671341	EPA 8015C	671345
92582202006	**UST 2-2**	EPA 5030B	671341	EPA 8015C	671345
92582202007	**UST 2-3**	EPA 5030B	671341	EPA 8015C	671345
92582202008	**UST 2-4**	EPA 5030B	671341	EPA 8015C	671345
92582202009	**UST 3-1**	EPA 5030B	671341	EPA 8015C	671345
92582202010	**UST 3-2**	EPA 5030B	671341	EPA 8015C	671345
92582202001	**UST 1-1**	SW-846	671339		
92582202002	**UST 1-2**	SW-846	671339		
92582202003	**UST 1-3**	SW-846	671339		
92582202004	**UST 1-4**	SW-846	671339		
92582202005	**UST 2-1**	SW-846	671339		
92582202006	**UST 2-2**	SW-846	671339		
92582202007	**UST 2-3**	SW-846	671339		
92582202008	**UST 2-4**	SW-846	671339		
92582202009	**UST 3-1**	SW-846	671339		
92582202010	**UST 3-2**	SW-846	671339		

Pace Analytical®	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Wood E&I-Charlotte **Proje**

WO# : 92582202

92582202

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

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

Date/Initials Person Examining Contents: MS VN 22

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

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

Thermometer: ☑ IR Gun ID: 92TOC4

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.5 **Correction Factor:** Add/Subtract (°C) 0

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: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

***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**

Projec

WO#: 92582202

PM: SC Due Date: 01/18/22

CLIENT: 92-AMEC C

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)	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 Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 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									1													3							
6									1													3							
7									1													3							
8									1													3							
9																						3							
10																						3							
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. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical
WWW.PACELABS.COM

CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Section A — Required Client Information:

Company:	Wood E&I - Charlotte
Address:	2801 Yorkmont Rd
	Suite 100, Charlotte, NC 28208
Email:	helen.corley@woodplc.com
Phone:	(704)357-5516 Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	Corley, Helen
Copy To:	Derick.Hayes@woodplc.com
Purchase Order #:	
Project Name:	20478R2307.02.****
Project #:	

Section C — Invoice Information:

Attention:	Jackie Willis
Company Name:	WOOD
Address:	Same
Pace Quote:	
Pace Project Manager:	ryan.brumfield@pacelabs.com,
Pace Profile #:	5667

Regulatory Agency	UST
State / Location	NC

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

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	TPH-DRO 8015	TPH-GRO 8015	Residual Chlorine (Y/N)	92582202
1	UST1-1			1/11/22	1110				3	1						2		N		N		001
2	UST1-2			1/11/22	915															X		002
3	UST1-3			1/11/22	1000															X		003
4	UST1-4			1/11/22	1005															X		004
5	UST2-1			1/10/22	1500				4	2								X		X		005
6	UST2-2			1/10/22	1510													X		X		006
7	UST2-3			1/11/22	1010													X		X		007
8	UST2-4			1/11/22	1015													X		X		008
9	UST3-1			1/10/22	1200				3	1										Y		009
10	UST3-2			1/10/22	1205				3	1							1			Y		010
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Derick Hayes / Wood	1/11/22	17:12	[illegible] PACE HVL	1/11/22	17:12	2.5°C

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

March 11, 2022

Nick Hotzelt
Wood E&I- Charlotte
2801 Yorkmont Rd
Suite 100
Charlotte, NC 28208

RE: Project: P170 NCDOT
Pace Project No.: 92591737

Dear Nick Hotzelt:

Enclosed are the analytical results for sample(s) received by the laboratory on March 04, 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,

Sara Poulson
sara.poulson@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Mr. Andrew Frantz, WOOD E&I

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

CERTIFICATIONS

Project: P170 NCDOT
Pace Project No.: 92591737

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kincey 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

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

SAMPLE SUMMARY

Project: P170 NCDOT
Pace Project No.: 92591737

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92591737001	SB-1	Solid	03/01/22 12:00	03/04/22 13:00
92591737002	SB-2	Solid	03/01/22 13:20	03/04/22 13:00
92591737003	SB-3	Solid	03/01/22 13:10	03/04/22 13:00
92591737004	SB-4	Solid	03/01/22 13:40	03/04/22 13:00
92591737005	SB-5	Solid	03/01/22 13:50	03/04/22 13:00
92591737006	SB-6	Solid	03/01/22 14:00	03/04/22 13:00
92591737007	SB-7	Solid	03/01/22 14:40	03/04/22 13:00
92591737008	SB-8	Solid	03/01/22 14:50	03/04/22 13:00
92591737009	SB-9	Solid	03/01/22 15:00	03/04/22 13:00
92591737010	SB-10	Solid	03/03/22 10:15	03/04/22 13:00
92591737011	SB-11	Solid	03/03/22 09:30	03/04/22 13:00
92591737012	SB-12	Solid	03/02/22 14:00	03/04/22 13:00
92591737013	PL-1	Solid	03/02/22 13:20	03/04/22 13:00
92591737014	PL-2	Solid	03/02/22 13:25	03/04/22 13:00
92591737015	PL-3	Solid	03/02/22 13:30	03/04/22 13:00
92591737016	PL-4	Solid	03/02/22 13:35	03/04/22 13:00
92591737017	PL-5	Solid	03/02/22 13:40	03/04/22 13:00
92591737018	PL-6	Solid	03/02/22 13:45	03/04/22 13:00
92591737019	PL-7	Solid	03/02/22 15:40	03/04/22 13:00
92591737020	PL-8	Solid	03/02/22 15:45	03/04/22 13:00
92591737021	PL-9	Solid	03/02/22 15:50	03/04/22 13:00
92591737022	PL-10	Solid	03/02/22 15:55	03/04/22 13:00
92591737023	PL-11	Solid	03/03/22 09:20	03/04/22 13:00
92591737024	PL-12	Solid	03/03/22 09:25	03/04/22 13:00
92591737025	PL-13	Solid	03/03/22 09:35	03/04/22 13:00
92591737026	PL-14	Solid	03/03/22 09:40	03/04/22 13:00
92591737027	PL-15	Solid	03/03/22 09:45	03/04/22 13:00
92591737028	PL-16	Solid	03/03/22 09:50	03/04/22 13:00
92591737029	PL-17	Solid	03/03/22 09:55	03/04/22 13:00
92591737030	PL-18	Solid	03/03/22 10:00	03/04/22 13:00
92591737031	PL-19	Solid	03/03/22 12:35	03/04/22 13:00
92591737032	PL-20	Solid	03/03/22 12:40	03/04/22 13:00
92591737033	PL-21	Solid	03/03/22 12:45	03/04/22 13:00
92591737034	PL-22	Solid	03/03/22 12:50	03/04/22 13:00
92591737035	PL-23	Solid	03/03/22 12:55	03/04/22 13:00
92591737036	PL-24	Solid	03/03/22 13:00	03/04/22 13:00
92591737037	PL-25	Solid	03/03/22 13:05	03/04/22 13:00

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: P170 NCDOT
Pace Project No.: 92591737

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92591737038	**PL-26**	Solid	03/03/22 13:10	03/04/22 13:00
92591737039	**PL-27**	Solid	03/03/22 13:15	03/04/22 13:00
92591737040	**PL-28**	Solid	03/03/22 13:20	03/04/22 13:00

Pace Analytical Services, LLC
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(704)875-9092

SAMPLE ANALYTE COUNT

Project: P170 NCDOT
Pace Project No.: 92591737

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92591737001	**SB-1**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737002	**SB-2**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737003	**SB-3**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737004	**SB-4**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737005	**SB-5**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737006	**SB-6**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737007	**SB-7**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737008	**SB-8**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737009	**SB-9**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737010	**SB-10**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737011	**SB-11**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737012	**SB-12**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737013	**PL-1**	EPA 8015C	AP2	2	PASI-C

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

SAMPLE ANALYTE COUNT

Project: P170 NCDOT
Pace Project No.: 92591737

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737014	**PL-2**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737015	**PL-3**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737016	**PL-4**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737017	**PL-5**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737018	**PL-6**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737019	**PL-7**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737020	**PL-8**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737021	**PL-9**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737022	**PL-10**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737023	**PL-11**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737024	**PL-12**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737025	**PL-13**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C

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SAMPLE ANALYTE COUNT

Project: P170 NCDOT
Pace Project No.: 92591737

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SW-846	KDF	1	PASI-C
92591737026	**PL-14**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737027	**PL-15**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737028	**PL-16**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737029	**PL-17**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737030	**PL-18**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737031	**PL-19**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737032	**PL-20**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737033	**PL-21**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737034	**PL-22**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737035	**PL-23**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737036	**PL-24**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737037	**PL-25**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C

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SAMPLE ANALYTE COUNT

Project: P170 NCDOT
Pace Project No.: 92591737

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92591737038	**PL-26**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737039	**PL-27**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C
92591737040	**PL-28**	EPA 8015C	AP2	2	PASI-C
		EPA 8015C	MAD	2	PASI-C
		SW-846	KDF	1	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: SB-1 **Lab ID: 92591737001** Collected: 03/01/22 12:00 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.5	4.6	1	03/08/22 17:01	03/10/22 09:13		
Surrogates									
n-Pentacosane (S)	39	%	32-130		1	03/08/22 17:01	03/10/22 09:13	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	20.8	5.3	1	03/08/22 15:16	03/08/22 23:05		
Surrogates									
4-Bromofluorobenzene (S)	90	%	66-131		1	03/08/22 15:16	03/08/22 23:05	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**23.5**	%	0.10	0.10	1		03/07/22 17:34		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: SB-2 **Lab ID: 92591737002** Collected: 03/01/22 13:20 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.3	4.5	1	03/08/22 17:01	03/10/22 09:13		
Surrogates									
n-Pentacosane (S)	32	%	32-130		1	03/08/22 17:01	03/10/22 09:13	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	19.9	5.0	1	03/08/22 15:16	03/09/22 00:03		
Surrogates									
4-Bromofluorobenzene (S)	96	%	66-131		1	03/08/22 15:16	03/09/22 00:03	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**20.0**	%	0.10	0.10	1		03/07/22 17:34		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: SB-3 **Lab ID: 92591737003** Collected: 03/01/22 13:10 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	7.1	5.0	1	03/08/22 17:01	03/10/22 09:47		
Surrogates									
n-Pentacosane (S)	35	%	32-130		1	03/08/22 17:01	03/10/22 09:47	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	21.6	5.5	1	03/08/22 15:16	03/09/22 00:32		
Surrogates									
4-Bromofluorobenzene (S)	94	%	66-131		1	03/08/22 15:16	03/09/22 00:32	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**28.6**	%	0.10	0.10	1		03/07/22 17:34		N2

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: SB-4 **Lab ID: 92591737004** Collected: 03/01/22 13:40 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.7	4.7	1	03/08/22 17:01	03/10/22 09:47		
Surrogates									
n-Pentacosane (S)	46	%	32-130		1	03/08/22 17:01	03/10/22 09:47	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	19.2	4.9	1	03/08/22 15:16	03/09/22 01:00		
Surrogates									
4-Bromofluorobenzene (S)	96	%	66-131		1	03/08/22 15:16	03/09/22 01:00	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**24.0**	%	0.10	0.10	1		03/07/22 17:34		N2

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: SB-5 **Lab ID: 92591737005** Collected: 03/01/22 13:50 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.4	4.6	1	03/08/22 17:01	03/10/22 10:04		
Surrogates									
n-Pentacosane (S)	37	%	32-130		1	03/08/22 17:01	03/10/22 10:04	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	20.2	5.1	1	03/08/22 15:16	03/09/22 01:29		
Surrogates									
4-Bromofluorobenzene (S)	91	%	66-131		1	03/08/22 15:16	03/09/22 01:29	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**21.6**	%	0.10	0.10	1		03/07/22 17:34		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: SB-6 **Lab ID: 92591737006** Collected: 03/01/22 14:00 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	7.1	5.0	1	03/08/22 17:01	03/10/22 10:04		
Surrogates									
n-Pentacosane (S)	49	%	32-130		1	03/08/22 17:01	03/10/22 10:04	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	21.3	5.4	1	03/08/22 15:16	03/09/22 01:58		
Surrogates									
4-Bromofluorobenzene (S)	91	%	66-131		1	03/08/22 15:16	03/09/22 01:58	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**28.6**	%	0.10	0.10	1		03/07/22 17:34		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: SB-7 **Lab ID: 92591737007** Collected: 03/01/22 14:40 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.7	4.7	1	03/08/22 17:01	03/10/22 10:21		
Surrogates									
n-Pentacosane (S)	45	%	32-130		1	03/08/22 17:01	03/10/22 10:21	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	42.0	10.6	1	03/10/22 13:29	03/10/22 15:20		
Surrogates									
4-Bromofluorobenzene (S)	91	%	66-131		1	03/10/22 13:29	03/10/22 15:20	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**24.3**	%	0.10	0.10	1		03/07/22 17:34		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: SB-8 **Lab ID: 92591737008** Collected: 03/01/22 14:50 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	7.0	5.0	1	03/08/22 17:01	03/10/22 10:21		
Surrogates									
n-Pentacosane (S)	54	%	32-130		1	03/08/22 17:01	03/10/22 10:21	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	21.3	5.4	1	03/10/22 13:29	03/10/22 16:16		
Surrogates									
4-Bromofluorobenzene (S)	85	%	66-131		1	03/10/22 13:29	03/10/22 16:16	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**27.6**	%	0.10	0.10	1		03/07/22 17:35		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: SB-9 **Lab ID: 92591737009** Collected: 03/01/22 15:00 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.9	4.9	1	03/08/22 17:01	03/10/22 10:38		
Surrogates									
n-Pentacosane (S)	36	%	32-130		1	03/08/22 17:01	03/10/22 10:38	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	19.8	5.0	1	03/10/22 13:29	03/10/22 16:44		
Surrogates									
4-Bromofluorobenzene (S)	91	%	66-131		1	03/10/22 13:29	03/10/22 16:44	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**26.6**	%	0.10	0.10	1		03/07/22 17:35		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: SB-10 **Lab ID: 92591737010** Collected: 03/03/22 10:15 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	7.2	5.1	1	03/08/22 17:01	03/10/22 10:38		
Surrogates									
n-Pentacosane (S)	44	%	32-130		1	03/08/22 17:01	03/10/22 10:38	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	**15.3J**	mg/kg	21.8	5.5	1	03/09/22 13:17	03/09/22 22:03		
Surrogates									
4-Bromofluorobenzene (S)	93	%	66-131		1	03/09/22 13:17	03/09/22 22:03	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**29.4**	%	0.10	0.10	1		03/07/22 17:35		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: SB-11 **Lab ID: 92591737011** Collected: 03/03/22 09:30 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	**17.6**	mg/kg	5.7	4.1	1	03/08/22 17:01	03/10/22 10:55		
Surrogates									
n-Pentacosane (S)	60	%	32-130		1	03/08/22 17:01	03/10/22 10:55	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	13.6	3.4	1	03/09/22 15:37	03/10/22 00:54		
Surrogates									
4-Bromofluorobenzene (S)	94	%	66-131		1	03/09/22 15:37	03/10/22 00:54	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**12.1**	%	0.10	0.10	1		03/07/22 17:35		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: SB-12 **Lab ID: 92591737012** Collected: 03/02/22 14:00 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.7	4.8	1	03/08/22 17:01	03/10/22 10:55		
Surrogates									
n-Pentacosane (S)	69	%	32-130		1	03/08/22 17:01	03/10/22 10:55	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	17.6	4.5	1	03/09/22 15:37	03/10/22 01:52		
Surrogates									
4-Bromofluorobenzene (S)	95	%	66-131		1	03/09/22 15:37	03/10/22 01:52	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**25.8**	%	0.10	0.10	1		03/07/22 17:35		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-1 **Lab ID: 92591737013** Collected: 03/02/22 13:20 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.7	4.8	1	03/08/22 17:01	03/10/22 11:11		
Surrogates									
n-Pentacosane (S)	34	%	32-130		1	03/08/22 17:01	03/10/22 11:11	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	19.4	4.9	1	03/09/22 15:37	03/10/22 02:21		
Surrogates									
4-Bromofluorobenzene (S)	96	%	66-131		1	03/09/22 15:37	03/10/22 02:21	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**25.4**	%	0.10	0.10	1		03/07/22 17:35		N2

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-2 **Lab ID: 92591737014** Collected: 03/02/22 13:25 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	7.1	5.1	1	03/08/22 17:01	03/10/22 11:11		
Surrogates									
n-Pentacosane (S)	32	%	32-130		1	03/08/22 17:01	03/10/22 11:11	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	20.6	5.2	1	03/09/22 15:37	03/10/22 02:49		
Surrogates									
4-Bromofluorobenzene (S)	96	%	66-131		1	03/09/22 15:37	03/10/22 02:49	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**29.2**	%	0.10	0.10	1		03/07/22 17:35		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-3 **Lab ID: 92591737015** Collected: 03/02/22 13:30 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.5	4.6	1	03/10/22 13:48	03/10/22 16:20		
Surrogates									
n-Pentacosane (S)	38	%	32-130		1	03/10/22 13:48	03/10/22 16:20	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	19.0	4.8	1	03/09/22 15:37	03/10/22 03:18		
Surrogates									
4-Bromofluorobenzene (S)	93	%	66-131		1	03/09/22 15:37	03/10/22 03:18	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**23.7**	%	0.10	0.10	1		03/07/22 17:35		N2

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-4 **Lab ID: 92591737016** Collected: 03/02/22 13:35 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.8	4.8	1	03/08/22 17:01	03/10/22 11:28		
Surrogates									
n-Pentacosane (S)	56	%	32-130		1	03/08/22 17:01	03/10/22 11:28	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	19.6	5.0	1	03/09/22 15:37	03/10/22 03:47		
Surrogates									
4-Bromofluorobenzene (S)	94	%	66-131		1	03/09/22 15:37	03/10/22 03:47	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**26.2**	%	0.10	0.10	1		03/08/22 13:56		N2

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-5 **Lab ID: 92591737017** Collected: 03/02/22 13:40 Received: 03/04/22 13:00 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
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	4.4	1	03/08/22 17:01	03/10/22 11:45		
Surrogates									
n-Pentacosane (S)	57	%	32-130		1	03/08/22 17:01	03/10/22 11:45	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	15.0	3.8	1	03/09/22 15:37	03/10/22 04:16		
Surrogates									
4-Bromofluorobenzene (S)	96	%	66-131		1	03/09/22 15:37	03/10/22 04:16	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**19.5**	%	0.10	0.10	1		03/08/22 13:57		N2

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-6 **Lab ID: 92591737018** Collected: 03/02/22 13:45 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.3	4.5	1	03/08/22 17:01	03/10/22 11:45		
Surrogates									
n-Pentacosane (S)	69	%	32-130		1	03/08/22 17:01	03/10/22 11:45	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	14.2	3.6	1	03/09/22 15:37	03/10/22 04:45		
Surrogates									
4-Bromofluorobenzene (S)	92	%	66-131		1	03/09/22 15:37	03/10/22 04:45	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**20.6**	%	0.10	0.10	1		03/08/22 13:57		N2

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-7 **Lab ID: 92591737019** Collected: 03/02/22 15:40 Received: 03/04/22 13:00 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
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	4.7	1	03/08/22 17:01	03/10/22 12:02		
Surrogates									
n-Pentacosane (S)	49	%	32-130		1	03/08/22 17:01	03/10/22 12:02	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	24.9	6.3	1	03/09/22 15:37	03/10/22 05:14		
Surrogates									
4-Bromofluorobenzene (S)	93	%	66-131		1	03/09/22 15:37	03/10/22 05:14	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**23.1**	%	0.10	0.10	1		03/08/22 13:57		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-8 **Lab ID: 92591737020** Collected: 03/02/22 15:45 Received: 03/04/22 13:00 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
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	4.7	1	03/08/22 17:01	03/10/22 12:02		
Surrogates									
n-Pentacosane (S)	39	%	32-130		1	03/08/22 17:01	03/10/22 12:02	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	20.8	5.3	1	03/09/22 15:37	03/10/22 05:43		
Surrogates									
4-Bromofluorobenzene (S)	95	%	66-131		1	03/09/22 15:37	03/10/22 05:43	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**23.0**	%	0.10	0.10	1		03/08/22 13:57		N2

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-9 **Lab ID: 92591737021** Collected: 03/02/22 15:50 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.3	4.5	1	03/08/22 17:03	03/10/22 09:13		
Surrogates									
n-Pentacosane (S)	36	%	32-130		1	03/08/22 17:03	03/10/22 09:13	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	19.9	5.0	1	03/09/22 15:37	03/10/22 06:12		
Surrogates									
4-Bromofluorobenzene (S)	94	%	66-131		1	03/09/22 15:37	03/10/22 06:12	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**20.4**	%	0.10	0.10	1		03/08/22 13:57		N2

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-10 **Lab ID: 92591737022** Collected: 03/02/22 15:55 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.4	4.5	1	03/08/22 17:03	03/10/22 09:13		
Surrogates									
n-Pentacosane (S)	33	%	32-130		1	03/08/22 17:03	03/10/22 09:13	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	118	29.8	1	03/09/22 15:37	03/10/22 06:41		
Surrogates									
4-Bromofluorobenzene (S)	92	%	66-131		1	03/09/22 15:37	03/10/22 06:41	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**21.7**	%	0.10	0.10	1		03/08/22 13:57		N2

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-11 **Lab ID: 92591737023** Collected: 03/03/22 09:20 Received: 03/04/22 13:00 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
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	4.7	1	03/08/22 17:03	03/10/22 09:46		
Surrogates									
n-Pentacosane (S)	37	%	32-130		1	03/08/22 17:03	03/10/22 09:46	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	31.8	8.1	1	03/10/22 13:29	03/10/22 17:12		
Surrogates									
4-Bromofluorobenzene (S)	92	%	66-131		1	03/10/22 13:29	03/10/22 17:12	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**23.3**	%	0.10	0.10	1		03/08/22 13:57		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-12 **Lab ID: 92591737024** Collected: 03/03/22 09:25 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.7	4.8	1	03/08/22 17:03	03/10/22 09:46		
Surrogates									
n-Pentacosane (S)	46	%	32-130		1	03/08/22 17:03	03/10/22 09:46	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	22.0	5.6	1	03/10/22 13:29	03/10/22 17:40		
Surrogates									
4-Bromofluorobenzene (S)	89	%	66-131		1	03/10/22 13:29	03/10/22 17:40	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**25.1**	%	0.10	0.10	1		03/08/22 13:57		N2

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-13 **Lab ID: 92591737025** Collected: 03/03/22 09:35 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.3	4.4	1	03/10/22 13:48	03/10/22 16:20		
Surrogates									
n-Pentacosane (S)	37	%	32-130		1	03/10/22 13:48	03/10/22 16:20	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	20.0	5.1	1	03/10/22 13:29	03/10/22 18:08		
Surrogates									
4-Bromofluorobenzene (S)	86	%	66-131		1	03/10/22 13:29	03/10/22 18:08	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**18.8**	%	0.10	0.10	1		03/08/22 13:57		N2

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-14 **Lab ID: 92591737026** Collected: 03/03/22 09:40 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.5	4.6	1	03/08/22 17:03	03/10/22 10:02		
Surrogates									
n-Pentacosane (S)	43	%	32-130		1	03/08/22 17:03	03/10/22 10:02	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	25.3	6.4	1	03/10/22 13:29	03/10/22 18:37		
Surrogates									
4-Bromofluorobenzene (S)	90	%	66-131		1	03/10/22 13:29	03/10/22 18:37	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**22.3**	%	0.10	0.10	1		03/08/22 13:57		N2

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-15 **Lab ID: 92591737027** Collected: 03/03/22 09:45 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.5	4.6	1	03/08/22 17:03	03/10/22 10:18		
Surrogates									
n-Pentacosane (S)	41	%	32-130		1	03/08/22 17:03	03/10/22 10:18	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	20.7	5.2	1	03/10/22 13:29	03/10/22 19:05		
Surrogates									
4-Bromofluorobenzene (S)	88	%	66-131		1	03/10/22 13:29	03/10/22 19:05	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**21.6**	%	0.10	0.10	1		03/08/22 13:57		N2

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-16 **Lab ID: 92591737028** Collected: 03/03/22 09:50 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.4	4.6	1	03/08/22 17:03	03/10/22 10:18		
Surrogates									
n-Pentacosane (S)	43	%	32-130		1	03/08/22 17:03	03/10/22 10:18	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	32.9	8.3	1	03/10/22 13:29	03/10/22 19:33		
Surrogates									
4-Bromofluorobenzene (S)	88	%	66-131		1	03/10/22 13:29	03/10/22 19:33	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**22.8**	%	0.10	0.10	1		03/08/22 13:58		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-17 **Lab ID: 92591737029** Collected: 03/03/22 09:55 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.9	4.9	1	03/08/22 17:03	03/10/22 10:35		
Surrogates									
n-Pentacosane (S)	33	%	32-130		1	03/08/22 17:03	03/10/22 10:35	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	22.3	5.6	1	03/10/22 13:29	03/10/22 20:01		
Surrogates									
4-Bromofluorobenzene (S)	86	%	66-131		1	03/10/22 13:29	03/10/22 20:01	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**27.7**	%	0.10	0.10	1		03/08/22 13:58		N2

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-18 **Lab ID: 92591737030** Collected: 03/03/22 10:00 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.5	4.6	1	03/08/22 17:03	03/10/22 10:35		
Surrogates									
n-Pentacosane (S)	38	%	32-130		1	03/08/22 17:03	03/10/22 10:35	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	21.8	5.5	1	03/10/22 13:29	03/10/22 20:29		
Surrogates									
4-Bromofluorobenzene (S)	85	%	66-131		1	03/10/22 13:29	03/10/22 20:29	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**23.9**	%	0.10	0.10	1		03/08/22 13:58		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-19 **Lab ID: 92591737031** Collected: 03/03/22 12:35 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.5	4.6	1	03/08/22 17:03	03/10/22 10:51		
Surrogates									
n-Pentacosane (S)	64	%	32-130		1	03/08/22 17:03	03/10/22 10:51	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	19.4	4.9	1	03/10/22 13:29	03/10/22 20:57		
Surrogates									
4-Bromofluorobenzene (S)	89	%	66-131		1	03/10/22 13:29	03/10/22 20:57	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**22.2**	%	0.10	0.10	1		03/08/22 13:58		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-20 **Lab ID: 92591737032** Collected: 03/03/22 12:40 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.5	4.6	1	03/08/22 17:03	03/10/22 10:51		
Surrogates									
n-Pentacosane (S)	72	%	32-130		1	03/08/22 17:03	03/10/22 10:51	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	13.9	3.5	1	03/10/22 13:29	03/10/22 21:25		
Surrogates									
4-Bromofluorobenzene (S)	89	%	66-131		1	03/10/22 13:29	03/10/22 21:25	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**22.6**	%	0.10	0.10	1		03/08/22 13:58		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-21 **Lab ID: 92591737033** Collected: 03/03/22 12:45 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	5.4	3.8	1	03/08/22 17:03	03/10/22 11:07		
Surrogates									
n-Pentacosane (S)	68	%	32-130		1	03/08/22 17:03	03/10/22 11:07	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	11.6	2.9	1	03/10/22 13:29	03/10/22 21:54		
Surrogates									
4-Bromofluorobenzene (S)	92	%	66-131		1	03/10/22 13:29	03/10/22 21:54	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**7.0**	%	0.10	0.10	1		03/08/22 13:58		N2

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-22 **Lab ID: 92591737034** Collected: 03/03/22 12:50 Received: 03/04/22 13:00 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
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	4.3	1	03/08/22 17:03	03/10/22 11:07		
Surrogates									
n-Pentacosane (S)	66	%	32-130		1	03/08/22 17:03	03/10/22 11:07	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	14.1	3.6	1	03/10/22 13:29	03/10/22 22:22		
Surrogates									
4-Bromofluorobenzene (S)	89	%	66-131		1	03/10/22 13:29	03/10/22 22:22	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**16.1**	%	0.10	0.10	1		03/08/22 13:58		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-23 **Lab ID: 92591737035** Collected: 03/03/22 12:55 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.9	4.9	1	03/08/22 17:03	03/10/22 11:23		
Surrogates									
n-Pentacosane (S)	52	%	32-130		1	03/08/22 17:03	03/10/22 11:23	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	**9.1J**	mg/kg	20.0	5.1	1	03/10/22 13:29	03/11/22 06:22		
Surrogates									
4-Bromofluorobenzene (S)	90	%	66-131		1	03/10/22 13:29	03/11/22 06:22	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**26.1**	%	0.10	0.10	1		03/08/22 13:58		N2

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-24 **Lab ID: 92591737036** Collected: 03/03/22 13:00 Received: 03/04/22 13:00 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
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	4.4	1	03/08/22 17:03	03/10/22 11:23		
Surrogates									
n-Pentacosane (S)	73	%	32-130		1	03/08/22 17:03	03/10/22 11:23	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	19.5	4.9	1	03/10/22 13:29	03/11/22 06:50		
Surrogates									
4-Bromofluorobenzene (S)	92	%	66-131		1	03/10/22 13:29	03/11/22 06:50	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**18.8**	%	0.10	0.10	1		03/08/22 14:42		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-25 **Lab ID: 92591737037** Collected: 03/03/22 13:05 Received: 03/04/22 13:00 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
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	4.4	1	03/08/22 17:03	03/10/22 11:40		
Surrogates									
n-Pentacosane (S)	71	%	32-130		1	03/08/22 17:03	03/10/22 11:40	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	16.9	4.3	1	03/10/22 13:29	03/11/22 07:18		
Surrogates									
4-Bromofluorobenzene (S)	90	%	66-131		1	03/10/22 13:29	03/11/22 07:18	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**18.9**	%	0.10	0.10	1		03/08/22 14:42		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-26 **Lab ID: 92591737038** Collected: 03/03/22 13:10 Received: 03/04/22 13:00 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
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	4.4	1	03/08/22 17:03	03/10/22 11:40		
Surrogates									
n-Pentacosane (S)	66	%	32-130		1	03/08/22 17:03	03/10/22 11:40	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	15.2	3.8	1	03/10/22 13:29	03/11/22 07:46		
Surrogates									
4-Bromofluorobenzene (S)	90	%	66-131		1	03/10/22 13:29	03/11/22 07:46	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**19.0**	%	0.10	0.10	1		03/08/22 14:42		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-27 **Lab ID: 92591737039** Collected: 03/03/22 13:15 Received: 03/04/22 13:00 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
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	4.7	1	03/08/22 17:03	03/10/22 11:56		
Surrogates									
n-Pentacosane (S)	60	%	32-130		1	03/08/22 17:03	03/10/22 11:56	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	**10.9J**	mg/kg	21.9	5.6	1	03/10/22 17:25	03/11/22 00:44		
Surrogates									
4-Bromofluorobenzene (S)	107	%	66-131		1	03/10/22 17:25	03/11/22 00:44	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**24.8**	%	0.10	0.10	1		03/08/22 14:42		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P170 NCDOT
Pace Project No.: 92591737

Sample: PL-28 **Lab ID: 92591737040** Collected: 03/03/22 13:20 Received: 03/04/22 13:00 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
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.3	4.5	1	03/08/22 17:03	03/10/22 11:56		
Surrogates									
n-Pentacosane (S)	67	%	32-130		1	03/08/22 17:03	03/10/22 11:56	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	17.6	4.5	1	03/10/22 17:25	03/11/22 01:12		
Surrogates									
4-Bromofluorobenzene (S)	91	%	66-131		1	03/10/22 17:25	03/11/22 01:12	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte								
Percent Moisture	**20.1**	%	0.10	0.10	1		03/08/22 14:42		N2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P170 NCDOT
Pace Project No.: 92591737

QC Batch: 683230 | Analysis Method: EPA 8015C
QC Batch Method: EPA 5030B | Analysis Description: Gasoline Range Organics
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92591737001, 92591737002, 92591737003, 92591737004, 92591737005, 92591737006

METHOD BLANK: 3573682 Matrix: Solid
Associated Lab Samples: 92591737001, 92591737002, 92591737003, 92591737004, 92591737005, 92591737006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	6.0	1.5	03/08/22 12:15	
4-Bromofluorobenzene (S)	%	90	66-131		03/08/22 12:15	

LABORATORY CONTROL SAMPLE: 3573683

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	50	48.6	97	70-130	
4-Bromofluorobenzene (S)	%			90	66-131	

MATRIX SPIKE SAMPLE: 3573687

Parameter	Units	92591737002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	166	164	99	70-145	
4-Bromofluorobenzene (S)	%				88	66-131	

SAMPLE DUPLICATE: 3573686

Parameter	Units	92591737001 Result	Dup Result	RPD	Max RPD	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	ND		30	
4-Bromofluorobenzene (S)	%	90	93			

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QUALITY CONTROL DATA

Project: P170 NCDOT
Pace Project No.: 92591737

QC Batch: 683481
QC Batch Method: EPA 5030B
Analysis Method: EPA 8015C
Analysis Description: Gasoline Range Organics
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92591737010

METHOD BLANK: 3574932 Matrix: Solid
Associated Lab Samples: 92591737010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	6.0	1.5	03/09/22 15:57	
4-Bromofluorobenzene (S)	%	86	66-131		03/09/22 15:57	

LABORATORY CONTROL SAMPLE: 3574933

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	50.1	48.4	97	70-130	
4-Bromofluorobenzene (S)	%			93	66-131	

MATRIX SPIKE SAMPLE: 3574935

Parameter	Units	92591593003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	79.7	94.5	119	70-145	
4-Bromofluorobenzene (S)	%				95	66-131	

SAMPLE DUPLICATE: 3574934

Parameter	Units	92591593002 Result	Dup Result	RPD	Max RPD	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	ND		30	
4-Bromofluorobenzene (S)	%	89	87			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P170 NCDOT
Pace Project No.: 92591737

QC Batch: 683552 | Analysis Method: EPA 8015C
QC Batch Method: EPA 5030B | Analysis Description: Gasoline Range Organics
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92591737011, 92591737012, 92591737013, 92591737014, 92591737015, 92591737016, 92591737017, 92591737018, 92591737019, 92591737020, 92591737021, 92591737022

METHOD BLANK: 3575462 Matrix: Solid

Associated Lab Samples: 92591737011, 92591737012, 92591737013, 92591737014, 92591737015, 92591737016, 92591737017, 92591737018, 92591737019, 92591737020, 92591737021, 92591737022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	6.0	1.5	03/09/22 16:25	
4-Bromofluorobenzene (S)	%	90	66-131		03/09/22 16:25	

LABORATORY CONTROL SAMPLE: 3575463

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	50.1	49.4	99	70-130	
4-Bromofluorobenzene (S)	%			94	66-131	

MATRIX SPIKE SAMPLE: 3575465

Parameter	Units	92591737012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	147	186	126	70-145	
4-Bromofluorobenzene (S)	%				101	66-131	

SAMPLE DUPLICATE: 3575464

Parameter	Units	92591737011 Result	Dup Result	RPD	Max RPD	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	ND		30	
4-Bromofluorobenzene (S)	%	94	97			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P170 NCDOT
Pace Project No.: 92591737

QC Batch: 683915
QC Batch Method: EPA 5030B
Analysis Method: EPA 8015C
Analysis Description: Gasoline Range Organics
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92591737007, 92591737008, 92591737009, 92591737023, 92591737024, 92591737025, 92591737026, 92591737027, 92591737028, 92591737029, 92591737030, 92591737031, 92591737032, 92591737033, 92591737034, 92591737035, 92591737036, 92591737037, 92591737038

METHOD BLANK: 3577197 Matrix: Solid
Associated Lab Samples: 92591737007, 92591737008, 92591737009, 92591737023, 92591737024, 92591737025, 92591737026, 92591737027, 92591737028, 92591737029, 92591737030, 92591737031, 92591737032, 92591737033, 92591737034, 92591737035, 92591737036, 92591737037, 92591737038

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	6.0	1.5	03/10/22 14:23	
4-Bromofluorobenzene (S)	%	106	66-131		03/10/22 14:23	

LABORATORY CONTROL SAMPLE: 3577198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	50.1	50.1	100	70-130	
4-Bromofluorobenzene (S)	%			106	66-131	

MATRIX SPIKE SAMPLE: 3577200

Parameter	Units	92591737008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	177	245	138	70-145	
4-Bromofluorobenzene (S)	%				91	66-131	

SAMPLE DUPLICATE: 3577199

Parameter	Units	92591737007 Result	Dup Result	RPD	Max RPD	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	ND		30	
4-Bromofluorobenzene (S)	%	91	90			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: P170 NCDOT
Pace Project No.: 92591737

QC Batch: 683974
QC Batch Method: EPA 5030B
Analysis Method: EPA 8015C
Analysis Description: Gasoline Range Organics
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92591737039, 92591737040

METHOD BLANK: 3577581 Matrix: Solid
Associated Lab Samples: 92591737039, 92591737040

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	6.0	1.5	03/10/22 14:51	
4-Bromofluorobenzene (S)	%	102	66-131		03/10/22 14:51	

LABORATORY CONTROL SAMPLE: 3577582

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	50.1	48.2	96	70-130	
4-Bromofluorobenzene (S)	%			106	66-131	

MATRIX SPIKE SAMPLE: 3577584

Parameter	Units	92591737040 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	146	176	120	70-145	
4-Bromofluorobenzene (S)	%				89	66-131	

SAMPLE DUPLICATE: 3577583

Parameter	Units	92591737039 Result	Dup Result	RPD	Max RPD	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	10.9J	ND		30	
4-Bromofluorobenzene (S)	%	107	87			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P170 NCDOT
Pace Project No.: 92591737

QC Batch: 683124
QC Batch Method: EPA 3546
Analysis Method: EPA 8015C
Analysis Description: 8015 Solid GCSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92591737001, 92591737002, 92591737003, 92591737004, 92591737005, 92591737006, 92591737007, 92591737008, 92591737009, 92591737010, 92591737011, 92591737012, 92591737013, 92591737014, 92591737016, 92591737017, 92591737018, 92591737019, 92591737020

METHOD BLANK: 3573095 Matrix: Solid
Associated Lab Samples: 92591737001, 92591737002, 92591737003, 92591737004, 92591737005, 92591737006, 92591737007, 92591737008, 92591737009, 92591737010, 92591737011, 92591737012, 92591737013, 92591737014, 92591737016, 92591737017, 92591737018, 92591737019, 92591737020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	5.0	3.6	03/10/22 08:56	
n-Pentacosane (S)	%	62	32-130		03/10/22 08:56	

LABORATORY CONTROL SAMPLE: 3573096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	67.8	48.2	71	47-130	
n-Pentacosane (S)	%			74	32-130	

MATRIX SPIKE SAMPLE: 3573097

Parameter	Units	92591737001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	88.3	45.5	48	10-133	
n-Pentacosane (S)	%				46	32-130	

SAMPLE DUPLICATE: 3573098

Parameter	Units	92591737002 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	ND		30	
n-Pentacosane (S)	%	32	41			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P170 NCDOT
Pace Project No.: 92591737

QC Batch: 683127
QC Batch Method: EPA 3546
Analysis Method: EPA 8015C
Analysis Description: 8015 Solid GCSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92591737021, 92591737022, 92591737023, 92591737024, 92591737026, 92591737027, 92591737028, 92591737029, 92591737030, 92591737031, 92591737032, 92591737033, 92591737034, 92591737035, 92591737036, 92591737037, 92591737038, 92591737039, 92591737040

METHOD BLANK: 3573110 Matrix: Solid
Associated Lab Samples: 92591737021, 92591737022, 92591737023, 92591737024, 92591737026, 92591737027, 92591737028, 92591737029, 92591737030, 92591737031, 92591737032, 92591737033, 92591737034, 92591737035, 92591737036, 92591737037, 92591737038, 92591737039, 92591737040

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	5.1	3.6	03/10/22 08:57	
n-Pentacosane (S)	%	72	32-130		03/10/22 08:57	

LABORATORY CONTROL SAMPLE: 3573111

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	67.6	44.0	65	47-130	
n-Pentacosane (S)	%			69	32-130	

MATRIX SPIKE SAMPLE: 3573112

Parameter	Units	92591737021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	84.5	37.5	44	10-133	
n-Pentacosane (S)	%				46	32-130	

SAMPLE DUPLICATE: 3573113

Parameter	Units	92591737022 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	ND		30	
n-Pentacosane (S)	%	33	40			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P170 NCDOT
Pace Project No.: 92591737

QC Batch: 683894
QC Batch Method: EPA 3546
Analysis Method: EPA 8015C
Analysis Description: 8015 Solid GCSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92591737015, 92591737025

METHOD BLANK: 3576887 Matrix: Solid
Associated Lab Samples: 92591737015, 92591737025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	4.9	3.5	03/10/22 16:03	
n-Pentacosane (S)	%	61	32-130		03/10/22 16:03	

LABORATORY CONTROL SAMPLE: 3576888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	67.1	53.7	80	47-130	
n-Pentacosane (S)	%			74	32-130	

MATRIX SPIKE SAMPLE: 3576889

Parameter	Units	92591737015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	88.2	31.9	35	10-133	
n-Pentacosane (S)	%				39	32-130	

SAMPLE DUPLICATE: 3576890

Parameter	Units	92591737025 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	ND		30	
n-Pentacosane (S)	%	37	35			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P170 NCDOT
Pace Project No.: 92591737

QC Batch: 682957
QC Batch Method: SW-846
Analysis Method: SW-846
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92591737001, 92591737002, 92591737003, 92591737004, 92591737005, 92591737006, 92591737007, 92591737008, 92591737009, 92591737010, 92591737011, 92591737012, 92591737013, 92591737014, 92591737015

SAMPLE DUPLICATE: 3572605

Parameter	Units	92591385012 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.7	18.9	1	25	N2

SAMPLE DUPLICATE: 3572606

Parameter	Units	92591737015 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	23.7	24.1	2	25	N2

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P170 NCDOT
Pace Project No.: 92591737

QC Batch: 682984
QC Batch Method: SW-846
Analysis Method: SW-846
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92591737016, 92591737017, 92591737018, 92591737019, 92591737020, 92591737021, 92591737022, 92591737023, 92591737024, 92591737025, 92591737026, 92591737027, 92591737028, 92591737029, 92591737030, 92591737031, 92591737032, 92591737033, 92591737034, 92591737035

SAMPLE DUPLICATE: 3572631

Parameter	Units	92591737016 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	26.2	26.0	1	25	N2

SAMPLE DUPLICATE: 3572632

Parameter	Units	92591737035 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	26.1	25.9	1	25	N2

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QUALITY CONTROL DATA

Project: P170 NCDOT
Pace Project No.: 92591737

QC Batch: 683220
QC Batch Method: SW-846
Analysis Method: SW-846
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92591737036, 92591737037, 92591737038, 92591737039, 92591737040

SAMPLE DUPLICATE: 3573585

Parameter	Units	92591737036 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.8	18.6	1	25	N2

SAMPLE DUPLICATE: 3573586

Parameter	Units	92591815008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	23.3	24.4	5	25	N2

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QUALIFIERS

Project: P170 NCDOT
Pace Project No.: 92591737

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: P170 NCDOT
Pace Project No.: 92591737

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92591737001	SB-1	EPA 3546	683124	EPA 8015C	683746
92591737002	SB-2	EPA 3546	683124	EPA 8015C	683746
92591737003	SB-3	EPA 3546	683124	EPA 8015C	683746
92591737004	SB-4	EPA 3546	683124	EPA 8015C	683746
92591737005	SB-5	EPA 3546	683124	EPA 8015C	683746
92591737006	SB-6	EPA 3546	683124	EPA 8015C	683746
92591737007	SB-7	EPA 3546	683124	EPA 8015C	683746
92591737008	SB-8	EPA 3546	683124	EPA 8015C	683746
92591737009	SB-9	EPA 3546	683124	EPA 8015C	683746
92591737010	SB-10	EPA 3546	683124	EPA 8015C	683746
92591737011	SB-11	EPA 3546	683124	EPA 8015C	683746
92591737012	SB-12	EPA 3546	683124	EPA 8015C	683746
92591737013	PL-1	EPA 3546	683124	EPA 8015C	683746
92591737014	PL-2	EPA 3546	683124	EPA 8015C	683746
92591737015	PL-3	EPA 3546	683894	EPA 8015C	683964
92591737016	PL-4	EPA 3546	683124	EPA 8015C	683746
92591737017	PL-5	EPA 3546	683124	EPA 8015C	683746
92591737018	PL-6	EPA 3546	683124	EPA 8015C	683746
92591737019	PL-7	EPA 3546	683124	EPA 8015C	683746
92591737020	PL-8	EPA 3546	683124	EPA 8015C	683746
92591737021	PL-9	EPA 3546	683127	EPA 8015C	683747
92591737022	PL-10	EPA 3546	683127	EPA 8015C	683747
92591737023	PL-11	EPA 3546	683127	EPA 8015C	683747
92591737024	PL-12	EPA 3546	683127	EPA 8015C	683747
92591737025	PL-13	EPA 3546	683894	EPA 8015C	683964
92591737026	PL-14	EPA 3546	683127	EPA 8015C	683747
92591737027	PL-15	EPA 3546	683127	EPA 8015C	683747
92591737028	PL-16	EPA 3546	683127	EPA 8015C	683747
92591737029	PL-17	EPA 3546	683127	EPA 8015C	683747
92591737030	PL-18	EPA 3546	683127	EPA 8015C	683747
92591737031	PL-19	EPA 3546	683127	EPA 8015C	683747
92591737032	PL-20	EPA 3546	683127	EPA 8015C	683747
92591737033	PL-21	EPA 3546	683127	EPA 8015C	683747
92591737034	PL-22	EPA 3546	683127	EPA 8015C	683747
92591737035	PL-23	EPA 3546	683127	EPA 8015C	683747
92591737036	PL-24	EPA 3546	683127	EPA 8015C	683747
92591737037	PL-25	EPA 3546	683127	EPA 8015C	683747
92591737038	PL-26	EPA 3546	683127	EPA 8015C	683747
92591737039	PL-27	EPA 3546	683127	EPA 8015C	683747
92591737040	PL-28	EPA 3546	683127	EPA 8015C	683747
92591737001	SB-1	EPA 5030B	683230	EPA 8015C	683245
92591737002	SB-2	EPA 5030B	683230	EPA 8015C	683245
92591737003	SB-3	EPA 5030B	683230	EPA 8015C	683245
92591737004	SB-4	EPA 5030B	683230	EPA 8015C	683245
92591737005	SB-5	EPA 5030B	683230	EPA 8015C	683245
92591737006	SB-6	EPA 5030B	683230	EPA 8015C	683245

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: P170 NCDOT
Pace Project No.: 92591737

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92591737007	**SB-7**	EPA 5030B	683915	EPA 8015C	683951
92591737008	**SB-8**	EPA 5030B	683915	EPA 8015C	683951
92591737009	**SB-9**	EPA 5030B	683915	EPA 8015C	683951
92591737010	**SB-10**	EPA 5030B	683481	EPA 8015C	683505
92591737011	**SB-11**	EPA 5030B	683552	EPA 8015C	683606
92591737012	**SB-12**	EPA 5030B	683552	EPA 8015C	683606
92591737013	**PL-1**	EPA 5030B	683552	EPA 8015C	683606
92591737014	**PL-2**	EPA 5030B	683552	EPA 8015C	683606
92591737015	**PL-3**	EPA 5030B	683552	EPA 8015C	683606
92591737016	**PL-4**	EPA 5030B	683552	EPA 8015C	683606
92591737017	**PL-5**	EPA 5030B	683552	EPA 8015C	683606
92591737018	**PL-6**	EPA 5030B	683552	EPA 8015C	683606
92591737019	**PL-7**	EPA 5030B	683552	EPA 8015C	683606
92591737020	**PL-8**	EPA 5030B	683552	EPA 8015C	683606
92591737021	**PL-9**	EPA 5030B	683552	EPA 8015C	683606
92591737022	**PL-10**	EPA 5030B	683552	EPA 8015C	683606
92591737023	**PL-11**	EPA 5030B	683915	EPA 8015C	683951
92591737024	**PL-12**	EPA 5030B	683915	EPA 8015C	683951
92591737025	**PL-13**	EPA 5030B	683915	EPA 8015C	683951
92591737026	**PL-14**	EPA 5030B	683915	EPA 8015C	683951
92591737027	**PL-15**	EPA 5030B	683915	EPA 8015C	683951
92591737028	**PL-16**	EPA 5030B	683915	EPA 8015C	683951
92591737029	**PL-17**	EPA 5030B	683915	EPA 8015C	683951
92591737030	**PL-18**	EPA 5030B	683915	EPA 8015C	683951
92591737031	**PL-19**	EPA 5030B	683915	EPA 8015C	683951
92591737032	**PL-20**	EPA 5030B	683915	EPA 8015C	683951
92591737033	**PL-21**	EPA 5030B	683915	EPA 8015C	683951
92591737034	**PL-22**	EPA 5030B	683915	EPA 8015C	683951
92591737035	**PL-23**	EPA 5030B	683915	EPA 8015C	683951
92591737036	**PL-24**	EPA 5030B	683915	EPA 8015C	683951
92591737037	**PL-25**	EPA 5030B	683915	EPA 8015C	683951
92591737038	**PL-26**	EPA 5030B	683915	EPA 8015C	683951
92591737039	**PL-27**	EPA 5030B	683974	EPA 8015C	684074
92591737040	**PL-28**	EPA 5030B	683974	EPA 8015C	684074
92591737001	**SB-1**	SW-846	682957		
92591737002	**SB-2**	SW-846	682957		
92591737003	**SB-3**	SW-846	682957		
92591737004	**SB-4**	SW-846	682957		
92591737005	**SB-5**	SW-846	682957		
92591737006	**SB-6**	SW-846	682957		
92591737007	**SB-7**	SW-846	682957		
92591737008	**SB-8**	SW-846	682957		
92591737009	**SB-9**	SW-846	682957		
92591737010	**SB-10**	SW-846	682957		
92591737011	**SB-11**	SW-846	682957		
92591737012	**SB-12**	SW-846	682957		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: P170 NCDOT
Pace Project No.: 92591737

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92591737013	**PL-1**	SW-846	682957		
92591737014	**PL-2**	SW-846	682957		
92591737015	**PL-3**	SW-846	682957		
92591737016	**PL-4**	SW-846	682984		
92591737017	**PL-5**	SW-846	682984		
92591737018	**PL-6**	SW-846	682984		
92591737019	**PL-7**	SW-846	682984		
92591737020	**PL-8**	SW-846	682984		
92591737021	**PL-9**	SW-846	682984		
92591737022	**PL-10**	SW-846	682984		
92591737023	**PL-11**	SW-846	682984		
92591737024	**PL-12**	SW-846	682984		
92591737025	**PL-13**	SW-846	682984		
92591737026	**PL-14**	SW-846	682984		
92591737027	**PL-15**	SW-846	682984		
92591737028	**PL-16**	SW-846	682984		
92591737029	**PL-17**	SW-846	682984		
92591737030	**PL-18**	SW-846	682984		
92591737031	**PL-19**	SW-846	682984		
92591737032	**PL-20**	SW-846	682984		
92591737033	**PL-21**	SW-846	682984		
92591737034	**PL-22**	SW-846	682984		
92591737035	**PL-23**	SW-846	682984		
92591737036	**PL-24**	SW-846	683220		
92591737037	**PL-25**	SW-846	683220		
92591737038	**PL-26**	SW-846	683220		
92591737039	**PL-27**	SW-846	683220		
92591737040	**PL-28**	SW-846	683220		

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Weck

Project #: WO# : 92591737

92591737

Courier: ☐ Commercial ☒ Pace ☐ Fed Ex ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Date/Initials Person Examining Contents: KH 3/7/22

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

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

Thermometer: ☒ IR Gun ID: 92T064 **Type of Ice:** ☒ Wet ☐ Blue ☐ None

Cooler Temp: 1.9, 4.4, 4.6, 5.4, 5.8 **Correction Factor /Add/Subtract (°C):** 0

Cooler Temp Corrected (°C): 1.9, 4.4, 4.6, 5.4, 5.8

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? KH 3/7/22	☒ Yes	☒ No	☐ N/A	9. received 2 VOA kits for PL-17, did not receive for PL-18
-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:** _____

***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**

Project # WO#: 92591737

PM: SC Due Date: 03/11/22

CLIENT: 92-AMEC C

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)	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 Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 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)
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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 DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

2

***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**

Project # WO#: 92591737

PM: SC Due Date: 03/11/22

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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)	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 Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 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)
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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 #

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3

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

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

Project # WO# : 92591737

PM: SC Due Date: 03/11/22

CLIENT: 92-AMEC C

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)	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 Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 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)
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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 #

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Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 2 of 2
	Document No.: F-CAR-CS-033-Rev.08	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 bottles**

Project # WO#: 92591737

PM: SC Due Date: 03/11/22

CLIENT: 92-AMEC C

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)	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 Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 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)
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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 #

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Pace

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 4

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Wood	Report To:	Derick Haydin	Attention:	Jackie Williams
Address:	2801 Yorkmont Road	Copy To:		Company Name:	WOOD
	Suite 100, Charlotte, NC 28208			Address:	Same
Email:		Purchase Order #:		Pace Quote:	
Phone:	(704)357-5639 Fax:	Project Name:	P170 NCDOT	Pace Project Manager:	sara.poulson@pacelabs.com,
Requested Due Date:	Standard	Project #:	20179R2703	Pace Profile #:	please call pm before logging in 14179

Regulatory Agency: US

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	TPH-DRO	TPH-GRO	BTEX	TCLP Metals	Sulfur	pH	Residual Chlorine (Y/N)	
1	SB-1	SL	G			3/1/22	1200		4	2						2			X	X						9859737
2	SB-2						1320												X	X						002
3	SB-3						1310												X	X						003
4	SB-4						1340												X	X						004
5	SB-5						1350												X	X						005
6	SB-6						1400												X	X						006
7	SB-7						1440												X	X						007
8	SB-8						1450												X	X						008
9	SB-9						1500												X	X						009
10	SB-10					3/1/22	1015												X	X						010
11	SB-11					3/2/22	930												X	X						011
12	SB-12					3/2/22	1400												X	X						012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Report J-flags	DHW / Wood	3/4/22	800	/ CACE	3/4	1320
	/ CACE	3/4	1340	KH Perez HNL	3/4/22	1340

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Derick Haydin

SIGNATURE of SAMPLER: DHW DATE Signed: 3/4/22

Pace

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Page : 2 of 4

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Wood	Report To: Derick Haydin	Attention: Jackie Williams
Address: 2801 Yorkmont Road	Copy To:	Company Name: WOOD
Suite 100, Charlotte, NC 28208		Address: Same
Email:	Purchase Order #:	Pace Quote:
Phone: (704)357-5639 Fax:	Project Name: P170 NCDOT	Pace Project Manager: sara.poulson@pacelabs.com,
Requested Due Date: Standard	Project #: 204758.2703	Pace Profile #: please call pm before logging in

Regulatory Agency: UST

State / Location: NC

Requested Analysis Filtered (Y/N)

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	TPH-DRO	TPH-GRO	BTEX	TCLP Metals	Sulfur	pH	Residual Chlorine (Y/N)	SCS81737
1	PL-1	SL	G			3/2/22	1320		4	2						2			X	X						013
2	PL-2						1325												X	X						014
3	PL-3						1330												X	X						015
4	PL-4						1335												X	X						016
5	PL-5						1340												X	X						017
6	PL-6						1345												X	X						018
7	PL-7						1540												X	X						019
8	PL-8						1545												X	X						020
9	PL-9						1550												X	X						021
10	PL-10						1555												X	X						022
11	PL-11					3/3/22	920												X	X						023
12	PL-12						925												X	X						024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Report J-Flags	DHH / WOOD	3/4/22	800	/ CAFE	3/4	1300
	/ CAFE	3/4	1340	RH Pace HNL	3/4/22	1340

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Derrick Haydin

SIGNATURE of SAMPLER: DH

DATE Signed: 3/4/22

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 3 Of 4

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Wood	Report To:	Derick Haydin	Attention:	Jake Williams
Address:	2801 Yorkmont Road Suite 100, Charlotte, NC 28208	Copy To:		Company Name:	Wood
Email:		Purchase Order #:		Address:	
Phone:	(704)357-5639 Fax:	Project Name:	P170 NCDOT	Pace Quote:	
Requested Due Date:	Standard	Project #:	204795K2703	Pace Project Manager:	sara.poulson@pacelabs.com,
				Pace Profile #:	please call pm before logging in

Regulatory Agency	State / Location
UST	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	TPH-DRO	TPH-GRO	BTEX	TCLP Metals	Sulfur	pH	Residual Chlorine (Y/N)	
1	PL-13	SL	G			3/3/22	935		4	2						2			X	X							8251737
2	PL-14						940												X	X							025
3	PL-15						945												X	X							026
4	PL-16						950												X	X							027
5	PL-17						955												X	X							028
6	PL-18						1000												X	X							029
7	PL-19						1235												X	X							030
8	PL-20						1240												X	X							031
9	PL-21						1245												X	X							032
10	PL-22						1250												X	X							033
11	PL-23						1255												X	X							034
12	PL-24						1300												X	X							035
																											036

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Reports 3-Flags	DHH Wood	3/4/22	800	/PACE	3/4	1300
	/PACE	3/4	1340	KH Pace MVL	3/4/22	1340

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Derrick Hol
SIGNATURE of SAMPLER:	DATE Signed: 3/4/22

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

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 4

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Wood	Report To:	Derick Haydin	Attention:	Jake Williams Wood
Address:	2801 Yorkmont Road	Copy To:		Company Name:	
Suite 100, Charlotte, NC 28208				Address:	
Email:		Purchase Order #:		Pace Quote:	
Phone:	(704)357-5639 Fax:	Project Name:	P170 NCDOT	Pace Project Manager:	sara.poulson@pacelabs.com,
Requested Due Date:	Standard 2047EK2203	Project #:		Pace Profile #:	please call pm before logging in

Regulatory Agency	
	UST
State / Location	
	NC

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX / CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	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	TPH-DRO	TPH-GRO	BTEX	TCLP Metals	Sulfur	pH	Residual Chlorine (Y/N)	
1	PL-25		SL	G			3/3/22	1305		4	2						2			X	X						92891737
2	PL-26							1310												X	X						238
3	PL-27							1315												X	X						239
4	PL-28							1320												X	X						240
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Report J-flags	[illegible] / Wood	3/4/22	[illegible]	[illegible] / PACE	3/4	1307
	[illegible] / PACE	3/4	1340	[illegible] Pace Hub	3/4/22	1340

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Derrick Hay

SIGNATURE of SAMPLER: [signature]

DATE Signed: 3/4/22