#### INITIAL ABATEMENT ACTION REPORT

**FOR** 

NCDOT STATE PROJECT: R-2303A WBS ELEMENT: 34416.1.1

DESCRIPTION: NC 24 from West of SR 1006 (Maxwell Road/Clinton Road) in Cumberland County to SR 1853 (John Nunnery Road)

PARCEL #81B
ROBERT LEE LONG PROPERTY
6871 CLINTON ROAD
STEDMAN, CUMBERLAND COUNTY, NORTH CAROLINA 28391

**AUGUST 5, 2011** 

PREPARED FOR:



NCDOT GEOTECHNICAL ENGINEERING UNIT-GEOENVIRONMENTAL SECTION
1589 MAIL SERVICE CENTER
RALEIGH, NORTH CAROLINA 27699-1589

#### PREPARED BY:

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CATLIN PROJECT NO. 210-124

CORPORATE GEOLOGY LICENSE CERTIFICATION NO. C-118
CORPORATE LICENSURE NO. FOR ENGINEERING SERVICES C-0585

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## NCDOT

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#### **AUGUST 5, 2011**

#### A. GENERAL INFORMATION

#### 1. SITE INFORMATION

#### 1.1 Site Name

NCDOT Proposed Right-of-Way (ROW)
Parcel 81B
Robert Lee Long Property

### 1.2 Facility I.D. Number

Unknown

### 1.3 Site address, telephone number and county

35.01717 ° N

6871 Clinton Road Stedman, Cumberland County, North Carolina 28391 Telephone: 910-303-1411 (See Figures 1 and 2) Longitude -78.70746° W

#### 2. CONTACTS INFORMATION

Latitude

# 2.1 Name, address, and telephone number of UST owner and operator

Orphan

# 2.2 Name, address, telephone number and job title of primary contact person

Mr. Ethan Caldwell, PE, LG NCDOT GeoEnvironmental Section 1589 MSC Raleigh, North Carolina 27699-1589 Telephone: 919-250-4088

### 2.3 Name, address and telephone number of closure contractor(s)

Mr. Tony Disher
EVO Corporation
1703 Vargrave Street
Winston-Salem, North Carolina 27107

Telephone: 336-725-5944

### 2.4 Name, address and telephone number of primary consultant

CATLIN Engineers and Scientists (CATLIN) Attn: G. Richard Garrett, P.G. P.O. Box 10279 Wilmington, North Carolina 28404-0279

Telephone: 910-452-5861

## 2.5 Name, address and telephone number of soil disposal contractor

ES&J Enterprises, Incorporated 1555 Holland Road Autryville, North Carolina 28318 Telephone: 919-567-6138 NCDENR Permit #: SR0600035

# 2.6 Name, address, telephone number, and State Certification number of laboratory

SGS North America, Inc. 5500 Business Drive Wilmington, North Carolina 28405 Telephone: 910-350-1903 North Carolina State Certification No. 481

#### B. SITE HISTORY AND CHARACTERIZATION

Currently this site is a residence. Historically the site operated as a gas station. The site is located on the northwest quadrant of the intersection of Blake Road and Clinton Road (see Figure 1 for project location). According to the North Carolina Department of Environment and Natural Resource's Underground Storage Tank (NCDENR's UST) Section registry there are no known Facility IDs or Groundwater Incidents associated with this site. The facility UST information is summarized on Table 1 (NCDENR Table B-1). The UST owner and operator information is summarized on Table 2 (NCDENR Table B-2).

Acquisition of the right-of-way is necessary for NC 24 roadway construction (above referenced State Project R-2303A) and specifically at the above referenced parcel. A site investigation was conducted by CATLIN in late 2010 resulting in a Preliminary Site Assessment (PSA) Report dated January 7, 2011.

Underground storage tanks and contaminated soil in the proposed right-of-way and/or easement were identified at the site.

Five (5) probable USTs were identified by geophysical survey during the PSA investigation. According to the geophysical report, the probable UST Number 1 is about 1,000-gallon capacity, is approximately three (3) feet below land surface (BLS), and located south of the building near the southeast corner. Probable USTs Number 2 and Number 3 are about 4,000-gallon capacity, approximately three (3) feet BLS and located south of the probable UST Number 1. The probable UST Number 4 is about 150-gallon capacity, is approximately one (1) to two (2) feet BLS and located in front of (south of) the building near the western side. The probable UST Number 5 is about 550-gallon capacity, is approximately one (1) to two (2) feet BLS and located east of the probable UST Number 4 and west of the former dispenser island. The UST locations are illustrated on Figure 2. Apparent fill ports filled with concrete were also located in the probable UST Number 3 and probable UST Number 4 locations.

Twenty (20) borings were advanced for PSA soil sample collection and one sample was collected from each boring for total petroleum hydrocarbon (TPH) diesel and gasoline range organics (DRO and GRO) laboratory analysis. Borings were advanced near the suspected USTs and the former dispenser island. A groundwater sample was collected for laboratory analysis from one (1) of the boreholes.

Sixteen (16) of 20 soil samples revealed detectable TPH DRO concentrations. No TPH GRO concentrations were detected in the soil samples except in one (1) sample. Fourteen soil samples revealed TPH concentrations above the NCDENR Action Level of 10 mg/kg TPH DRO or TPH GRO. The groundwater sample revealed Naphthalene concentrations above the 2L GWQS.

According the NCDOT Request for Proposal (RFP) dated April 26, 2011, the scope of work at the site included excavating and properly disposing of soils necessary for removing the known UST system (including tank contents, associated piping and dispenser material). No over-excavation of petroleum impacted soils was requested.

#### C. CLOSURE PROCEDURES

#### 1. PREPARATIONS

CATLIN was contracted by NCDOT to facilitate roadway construction by removing the UST system at the site (and in the right-of-way). CATLIN performed all field work in accordance with the site *Health and Safety Plan* (available for review at the CATLIN Wilmington Office).

A Notice of Intent (UST-3 form) was submitted to the NCDENR Fayetteville Regional Office on June 1, 2011 (see Appendix A). The

Cumberland County Emergency Services was notified and a permit was obtained through the Cumberland County Fire Marshal by EVO.

CATLIN and subcontractor EVO personnel mobilized to the site on June 7, 2011.

#### 2. CLOSURE PROCEDURES

The site layout is illustrated on Figure 2. As indicated on Table 1, five (5) tanks and associated dispenser piping were located at the site.

Residual material was pumped from the lines and each UST by a vacuum truck. Each tank was then pressure washed with potable water and pumped dry again. Dry ice was placed in each tank to displace any potentially flammable vapors. EVO personnel measured the inside of the tank for acceptable oxygen and explosive vapor readings prior to removal. The Cumberland County Fire Marshal granted permission to remove the tanks.

Sufficient soils were removed from the tops and sides of the USTs allowing them to be lifted from the excavation. Fuel supply lines connected to the UST #2 and UST #3 tanks were also uncovered and removed.

The top of the tanks were approximately two (2) feet BLS. The tanks were constructed of steel. The tanks were previously numbered during the geophysical investigation as 1, 2, 3, 4, and 5 (see Table 1 and Figure 2). The fuel lines from the former dispenser island to UST #2 and UST #3 were constructed of steel. All piping was disconnected from the tanks and removed from the site.

The USTs #1, #2, and #3 were found in good condition with no through holes. The USTs #4 and #5 were found in poor condition with severe rusting and through holes.

Excavated soils were loaded directly into dump trucks for off-site disposal. Soils were only removed to facilitate UST system closure. A *Site Investigation Report for Permanent Closure or Change-in-Service of UST (UST-2)* form is included in Appendix B.

#### 3. RESIDUAL MATERIAL AND DISPOSAL

The residual fuel in the fuel lines and tanks removed by the vacuum truck was properly disposed of at a permitted facility. According to the Certificates of Disposal in Appendix C, 6,425 gallons of product and water were disposed of. As indicated on the Tanks Disposal Certificate in Appendix C, the tanks were transported to Sandhill Recycling in Aberdeen, North Carolina for proper disposal and recycling.

#### 4. SOIL EXCAVATION ACTIVITIES

The top of UST #1 was approximately three (3) feet BLS. The top of USTs #2 and #3 were approximately two (2) feet BLS. The USTs #4 and #5 were approximately 0.5 feet BLS. The bottoms of UST#1, #2, and #3 were approximately seven (7) feet BLS. The bottoms of USTs #4 and #5 were approximately six (6) feet and five (5) BLS, respectively. Groundwater was encountered at approximately seven (7) feet BLS in the UST #1, #2, and #3 excavations. The USTs #1, #2, and #3 along with the former dispenser island and lines were excavated in one general excavation located centrally and near the southeast corner of the property. The USTs #4 and #5 were removed from a separate excavation near the southwest corner of the property. The UST basin excavation limits are illustrated on Figure 2. Excavation activity photographs are provided in Appendix D.

Sandy/clayey soils were encountered surrounding the tanks. Soils from the UST excavation were transported off-site for proper disposal. Soils were only removed as necessary to facility UST system closure. Clean sands from an offsite borrow source were used to backfill the excavation.

#### D. SITE INVESTIGATION

#### 1. FIELD-SCREENING

Soil screening with a photo-ionization detector was not conducted during this UST closure.

#### 2. SOIL SAMPLING

UST closure soil samples were collected in accordance with NCDENR guidance documents. Due to water in the UST #1, #2, and #3 basin excavation, sidewall grab samples were collected from near the end of each tank and approximately every 10 feet along the sidewalls. Grab samples were taken from the excavation floor beneath USTs #4 and #5. Grab floor samples were also collected from beneath the former dispenser location and approximately every 10 feet beneath the removed lines. One composite sample was collected for waste characterization disposal Twenty soil samples were collected for UST closure. requirements. Samples were identified by UST number, north, south, east, west orientation, and depth [sample identification example = UST#1-N (6'). Soil sample locations are illustrated on Figure 2. Sample material was obtained by the excavator bucket from the UST basin sidewalls and directly by hand from beneath the piping and former dispensers. Soil samples were packed into the appropriate laboratory provided glassware immediately following collection.

Periodic grab samples were also collected from the excavator bucket. The grab samples were combined and a composite waste disposal characterization sample (one) was submitted for laboratory analysis per waste disposal requirements.

Twenty-one soil samples were submitted to the laboratory for TPH GRO analysis per Environmental Protection Agency (EPA) Method 8015. Sample identifications, depths, and times are provided on the Chain-of-Custody in Appendix E.

#### 3. GROUNDWATER SAMPLING

No groundwater samples were collected during this investigation.

#### 4. QUALITY CONTROL MEASURES

Clean disposable nitrile gloves were used for each sampling event. Soil samples were collected by hand from undisturbed material obtained by the excavator bucket and packed directly into new laboratory provided glassware.

All samples were placed into appropriate sample jars with Teflon® lid liners, labeled with the site location, date, time, initials of person collecting sample, sample identification number, depth of sample, and tests required. Samples were then placed on ice in a cooler and maintained at approximately 4° Celsius during storage and transport to the laboratory. A temperature blank and trip blank were preserved in the cooler along with the site samples. A Chain-of-Custody form was maintained from the point of sampling until delivery to the laboratory.

No duplicate samples were submitted for laboratory analysis. According to the attached laboratory report (see Appendix E), the sample results are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards and analytical quality control data is available upon request.

#### 5. BACKFILLING PROCEDURES

CATLIN received one soil sample of sandy backfill borrow material from an ES&J Enterprise borrow source in Autryville, North Carolina for Standard Proctor analysis in accordance with ASTM International (ASTM) D 698, "Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort [12,400 ft-lbf/ft<sup>3</sup> (600kN-m/m<sup>3</sup>)]". In-place field density testing was performed in accordance with ASTM D 1556, "Standard Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method". Following UST removal, the excavation floor at the

former UST #1, #2, #3, locations and at the former UST #4 and #5 locations was leveled and approximately one to two (1-2) feet of #57 stone was added to the bottom of the excavations. The #57 stone sub-base was compacted prior to receiving fill material obtained from ES&J. Following emplacement of the #57 stone, one (1) 12-inch lift was placed in the UST #1, #2, and #3 excavation on a Friday afternoon. The bottom of the UST#1, #2, and #3 excavation was at approximately five (5) feet BLS. After significant rain over the weekend, saturated soils were encountered in the bottom of the excavation the following Monday. Another foot of #57 stone was then placed in the UST #1, #3, and #3 excavation followed by one (1) foot lifts of sandy backfill material.

Once each lift was placed and compacted, sand-cone testing was performed at random locations across each individual lift for percent relative compaction. Two (2) compaction tests were conducted for each lift in the UST #1, #2, and #3 excavation area and one (1) compaction test was done per lift in the UST #4 and #5 excavation. Density testing was performed in accordance with the above mentioned requirements. A percent relative compaction value greater than or equal to 95 percent of the maximum dry density value was labeled "PASS" which indicated that another lift could be placed. A percent relative compaction value of less than 95 percent was labeled "FAIL" and required additional compaction and testing until a value of greater than or equal to 95 percent was achieved. In-place field densities per sand-cone testing results are provided on Table 3.

After backfilling and compacting the UST #1, #2, and #3 excavation area the soils were "pumping" at the surface and the area was not suitable for vehicular traffic. It was proposed and approved by NCDOT to remove the top two (2) feet of material and following emplacement of a geotextile fabric, backfill and compact two feet of ABC stone. The area was deemed suitable following these activities.

#### 6. INVESTIGATION RESULTS

Photographs of UST removal and backfilling activities are provided in Appendix D. The waste disposal characterization soil sample (Disposal Comp) results and UST closure soil sample results are summarized on Table 4. The waste disposal characterization results indicated acceptable TPH concentrations for ES&J's permitted disposal facility. No detectable TPH GRO concentrations were revealed in any UST closure soil samples. The UST closure soil sample results indicated residual TPH DRO concentrations of 23.9 milligrams per kilogram (mg/kg) in the UST#3-E (5') sidewall sample. Residual TPH DRO concentrations were also revealed above the NCDENR Action Level of 10 mg/kg in the floor samples UST#4-N(6.5'), UST#4-S(6.5'), and UST#5-N(6'). No other TPH DRO concentrations were report above the NCDENR Action Level.

Summarized UST system closure results are illustrated on Figure 2.

The complete laboratory analytical report is provided in Appendix E. No groundwater samples were collected during this investigation. Photographs of the final site conditions are provided in Appendix D.

#### E. SOIL DISPOSAL

The excavated soils were transported to ES&J Enterprises, Inc. in Autryville, North Carolina for proper disposal. According to the documentation provided in Appendix E, 203.06 tons of soils were accepted for disposal/treatment at the facility.

### F. SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

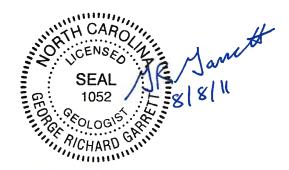
The UST closure was completed in general accordance with applicable State and Federal Guidelines to facilitate NCDOT related construction activities. Residual petroleum impacted soils remain east of former UST #3 and around the former UST #4 and #5 basin. The cause and source are unknown but clean soil samples were collected beneath the supply lines and former dispenser locations. Possible impacts to groundwater were not investigated during UST closure activities.

CATLIN recommends forwarding a copy of this report to the NCDENR Fayetteville Regional Office UST Section with a cover letter indicating the presence of TPH impacted soils above the NCDENR Action Level. Additionally, it is recommended that any utility or roadway construction contractor should be notified of these findings and be advised to be prepared to handle petroleum impacted soils near former USTs #4 and #5 and east of former UST #3 (as identified on Figure 2). In the event a cut is required for roadway construction or utility installation, any soil samples revealing detectable TPH concentrations will be considered petroleum impacted for handling and disposal purposes.

#### G. LIMITATIONS

This report is based on the agreed work scope and a review of available data from limited sampling. It is possible that this investigation may have failed to reveal the presence of contamination on the subject site where such contamination may exist. Although CATLIN has used accepted methods appropriate for UST closure and contaminated soil removal sampling, CATLIN cannot guarantee that additional soil and/or groundwater contamination does not exist.

### H. SIGNATURES



G. Richard Garrett, P.G. Senior Project Manager

Benjamin J. Ashba Project Manager

### **TABLES**

TABLE 1
SITE HISTORY – UST SYSTEM AND OTHER RELEASE INFORMATION

Incident Number and Name: Pending – Robert Long Property 6871 Clinton Rd. Stedman, NC 28391 Facility ID: Unknown Was Description release of Current/ associated **UST ID Previous** Capacity Construction Tank **Associated Date Tank** Status of Last with the Number (gallons) Piping and Contents Details **Dimensions** Installed UST Contents UST **Pumps** System? Removed Fuel Oil Fuel Oil 1,000 Steel 4.1' x 9.9' Unknown 1 Unknown Steel June 2011 Removed Gasoline 2 Gasoline 4.000 Steel 5.35'x23.7' Steel Unknown Unknown June 2011 Removed 3 Gasoline 4.000 Gasoline Steel Steel Unknown Unknown 5.35'x23.7' June 2011 Yes Removed Petroleum Petroleum 1.000 Steel 5.35' x 6.1' Unknown 4 Steel June 2011 (assumed) Removed Yes 5 Petroleum Petroleum 550 Steel Unknown 4' x 6.7' Steel June 2011 (assumed)

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## TABLE 2 SITE HISTORY - UST OWNER AND OPERATOR INFORMATION

Number and Name: Pending-Robert Long Prop. 6871 Clinton Rd. Stedman, NC 28391 UST ID Numbers Facility ID Number 1, 2, 3, 4, and 5 Unknown Name of Owner **Dates of Operation** Orphan Unknown **Street Address Telephone Number** City State Zip **Dates of Operation** Name of Operator Unknown Unknown Street Address (Site Address) 6871 Clinton Road (NC 24) City State Zip **Telephone Number** NC Stedman 28391 James Long:910-303-1411 **Incident Number** Pending Name of Other Responsible Party Dates of Release(s) None Unknown Street Address State **Telephone Number** City Zip

#### TABLE 3

#### **SUMMARY OF SAND-CONE DENSITY FIELD LOGS**

PARCEL 81B - ROBERT LONG PROPERTY 6871 CLINTON ROAD STEDMAN, CUMBERLAND COUNTY, NORTH CAROLINA

Lift Number	Field Test Number	Date of Test	Standard Proctor (lbs./ft³)	Optimum Moisture content (%)	Field Moisture content (%)	Dry Density (lbs./ft³)	% Relative Compaction	Pass/Fail
1	UST 4&5 3'	6/9/2011	120.80	10.4	13.2	124.09	102.7	Р
2	UST 4&5 2'	6/9/2011	120.80	10.4	14.2	119.70	99.1	Р
3	UST 4&5 1'	6/9/2011	120.80	10.4	11.5	115.75	95.8	Р
4	UST 4&5 0.5'	6/10/2011	120.80	10.4	11.4	123.02	101.8	Р
5	UST 4&5 0'	6/10/2011	120.80	10.4	11.7	119.33	98.8	P
e 1	Lines 2'	6/13/2011	120.80	10.4	15.9	116.16	96.2	Р
2	Lines 1'	6/13/2011	120.80	10.4	17.6	113.80	94.2	F
2 retest	Lines 1' retest	6/13/2011	120.80	10.4	14.8	115.18	95.3	Р
3	Lines 0.5'	6/13/2011	120.80	10.4	14.9	118.80	98.3	Р
1	UST 1 4'	6/13/2011	120.80	10.4	15.1	116.24	96.2	Р
1	UST 3 4'	6/13/2011	120.80	10.4	14.7	115.50	95.6	Р
2	UST 1N 3'	6/14/2011	120.80	10.4	15.4	120.01	99.3	Р
2	UST 3W 3'	6/14/2011	120.80	10.4	14.5	118.23	97.9	Р
3	UST 2E 2'	6/14/2011	120.80	10.4	14.5	118.50	98.1	P
3	UST 2W 2'	6/14/2011	120.80	10.4	14.9	119.00	98.5	P
4	UST 1mid 1'	6/14/2011	120.80	10.4	14.5	119.20	98.7	Р
4	UST 2/3mid 1'	6/14/2011	120.80	10.4	15.5	117.97	97.7	P
5	UST 1S 0.5'	6/14/2011	120.80	10.4	14.3	115.93	96.0	P
6	UST 2/3 W 0'	6/14/2011	120.80	10.4	14.6	118.49	98.1	Р

Pass/Fail is based on 95% compaction of standard proctor value.

TABLE 4
SUMMARY OF SOIL LABORATORY RESULTS
EPA METHOD 8015

### PARCEL 81B - ROBERT LONG PROPERTY 6871 CLINTON ROAD STEDMAN, CUMBERLAND COUNTY, NORTH CAROLINA

Sample ID	Contaminant of Concern	ebu	Range
Sample ID	Date Collected	Diesel Range Organics	Gasoline Range Organics
UST#1-W (6ft)	6/8/2011	<6.78	<3.39
UST#1-E (6ft)	6/8/2011	<7.39	<3.43
UST#1-N (6ft)	6/8/2011	<6.55	<3.39
UST#4-N (6.5ft)	6/9/2011	37.3	<3.06
UST#4-S (6.5ft)	6/9/2011	337	4.54
UST#5-N (6ft)	6/9/2011	66.0	<3.65
UST#5-S (6ft)	6/9/2011	8.32	<3.64
UST#1-SE (5ft)	6/10/2011	<6.58	<3.71
UST#2-E (5ft)	6/10/2011	<6.71	<3.47
UST#3-E (5ft)	6/10/2011	23.9	<3.40
UST#3-SE (5ft)	6/10/2011	<6.69	<3.58
UST#3-S (5ft)	6/10/2011	<6.64	<3.52
UST#3-SW (5ft)	6/10/2011	<7.16	<3.59
UST#3-W and Line (4ft)	6/10/2011	<6.83	<3.79
UST#2-W and Line (4ft)	6/10/2011	<6.82	4.60
UST#2-NW (5ft)	6/10/2011	<6.94	<3.88
UST#1-SW (5ft)	6/10/2011	8.14	<3.62
LINE-N (3ft)	6/13/2011	<6.98	<3.23
LINE-S (3ft)	6/13/2011	<6.79	<3.37
DISPENSERS (3ft)	6/13/2011	<7.56	<3.70
Disposal Comp	6/9/2011	35.6	12.9
NCDENR ACTION	N LEVELS	10	10

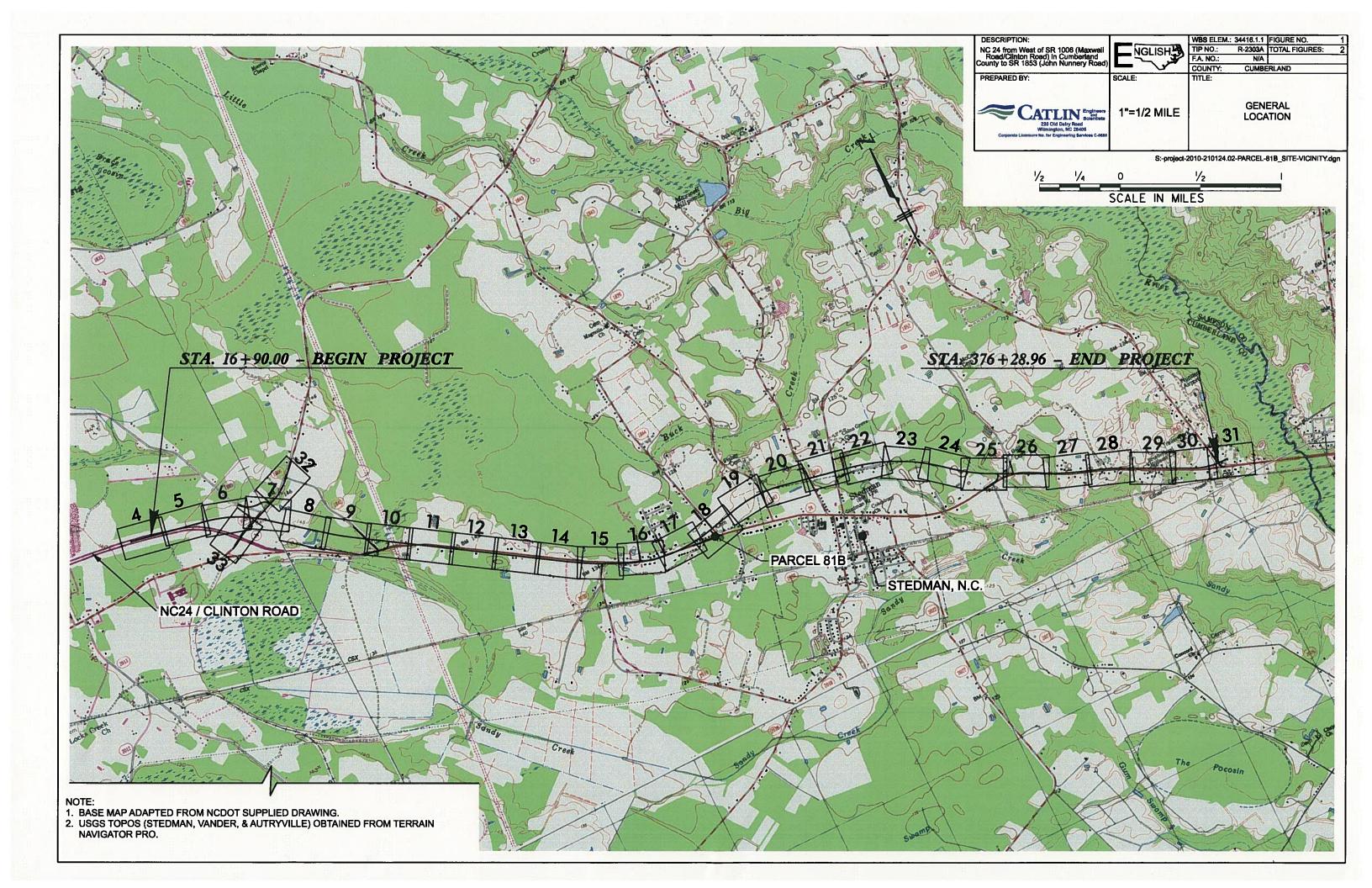
All results in milligrams per kilogram (mg/kg).

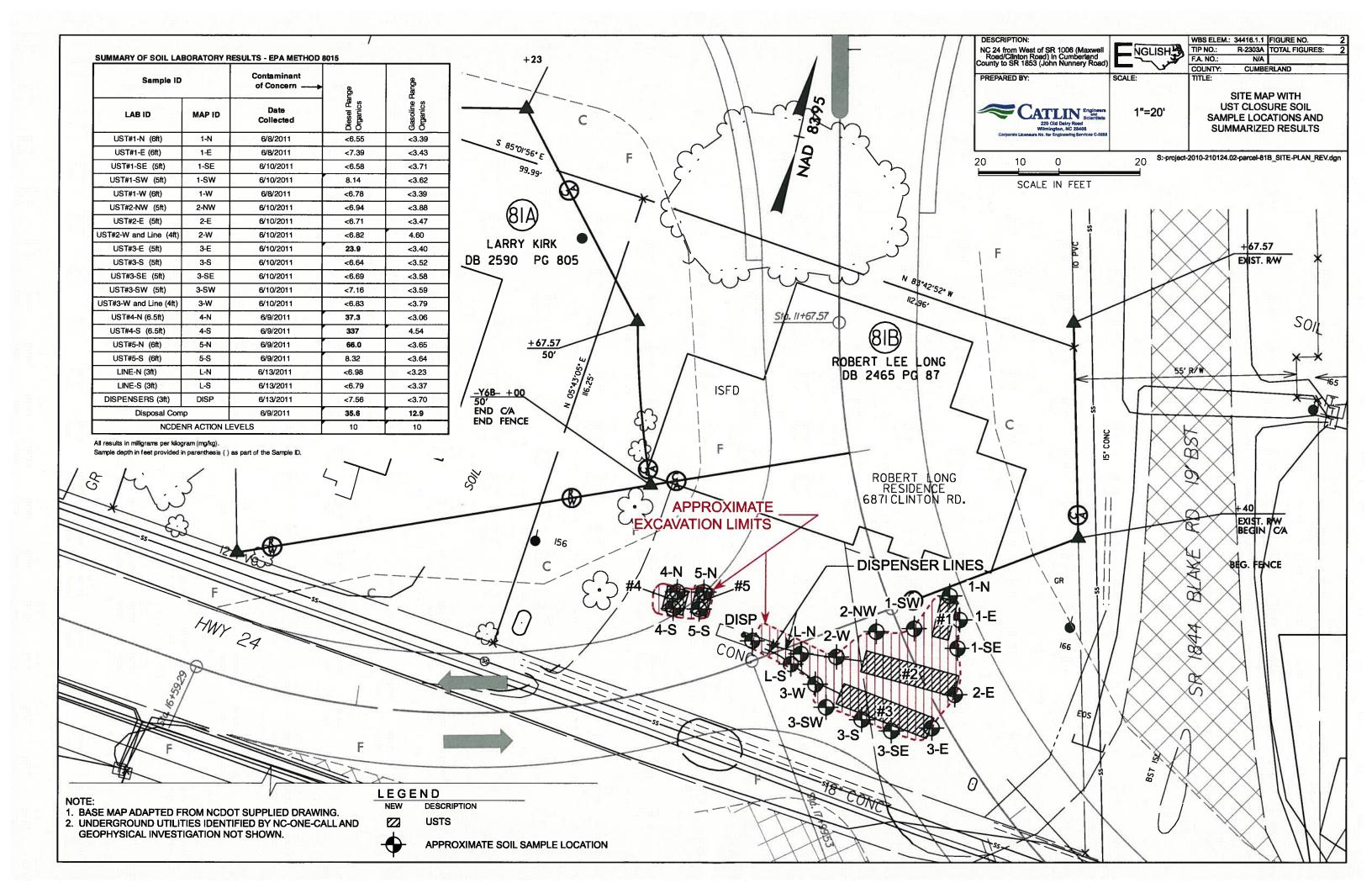
Sample depth in feet provided in parenthesis () as part of the Sample ID.

Results in bold exceed the North Carolina Department of Environment and Natural Resources (NCDENR) Action Level.

<sup>&</sup>lt; = Less than reporting limit

### **FIGURES**





APPENDIX A UST-3 FORM

#### Notice of Intent: UST Permanent Closure or Change-in-Service Return completed form to: STATE USE ONLY The DWM Regional Office located in the area where the facility is located. Send a copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED" and your tank fee account can be closed out. I.D. # SEE MAP ON THE BACK OF THIS FORM FOR THE CENTRAL AND REGIONAL OFFICE ADDRESSES. **Date Received** INSTRUCTIONS (READ THIS FIRST) Complete and return at least thirty (30) days prior to closure or change-in-service activities. If a Professional Engineer (P.E.) or a Licensed Geologist (L.G.) provides supervision for closure or change-in-service site assessment activities and signs and seals all closure reports then at least a five (5) working days notice is acceptable. Completed UST closure or change-in-service site assessment reports, along with a copy of the UST-2 form, should be submitted to the appropriate Division of Waste Management (DWM) Regional Office within thirty (30) days following closure activities. The UST-2 form should also be submitted to the Central Office in Raleigh so that the status of the tanks may be changed to permanently closed and your tank fee account can be closed out. UST closure and change-in-service site assessments must be completed in accordance with the latest version of the Guidelines for Tank Closure. The Guidelines for Tank Closure can be obtained at www.wastenotnc.org. You must make sure that USTs removed from your property are disposed of properly. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dumpsites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you could be held responsible for the cleanup of any environmental damage that occurs. I. OWNERSHIP OF TANKS II. LOCATION Owner Name (Corporation, Individual, Public Agency, or Other Entity) Facility Name or Company Orphan Robert L. Long Residence Street Address Facility ID # (If known) Unknown City County Street Address 6871 Clinton Road State Zip Code City County Zip Code Stedman Cumberland 28391 Phone Number Phone Number 910-485-2625 III. CONTACT PERSONNEL Name: Company Name: Job Title: Phone Number: Rick Garrett **CATLIN** agent for NCDOT Vice President 910-452-5861 IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN SERVICE Contact local fire marshal. Provide a sketch locating piping, tanks and a P.E. or L.G., with all closure site soil sampling locations. assessment reports bearing the signature Plan entire closure event. and seal of the P.E. or L.G. If a release has Submit a closure report in the format of Conduct Site Soil Assessment. not occurred, the supervision, signature or UST-12 (including the form UST-2) within If removing tanks or closing in place, refer to seal of a P.E. or L.G. is not required. thirty (30) days following the site API Publication 2015 Cleaning Petroleum investigation. 8. Keep closure records for three (3) years. Storage Tanks and 1604 Removal and If a release from the tanks has occurred, the Disposal of Used Underground Petroleum site assessment portion of the tank closure Storage Tanks. must be conducted under the supervision of V. WORK TO BE PERFORMED BY Contractor Name: Contractor Company Name: **Tony Disher EVO Corporation** Address: State: Zip Code: Phone No: 1703 Vargrave St. Winston-Salem NC 27107 336-725-5844 Primary Consultant Name: Primary Consultant Company Name: Consultant Phone No: Rick Garrett, PG CATLIN agent for NCDOT 910-452-5861 VIE TANKS SCHEDULED FOR CLOSURE OR CHANGE-IN SERVICE Proposed Activity Closure Change-In-Service Tank ID No. Size in Gallons Removal **Last Contents** Abandonment in Place \* **New Contents Stored** 1000 Unknown 2 4000 Unknown 3 4000 Unknown $\boxtimes$ 4 150 Unknown 5 550 Unknown \* Prior written approval to abandon a tank in place must be received from a DWM Regional Office. VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE I understand that I can be held responsible for environmental damage resulting from the improper disposal of my USTs. Print name and official Rick Garrett, PG CATLIN agent for NCDOT title: Signature SCHEDULED REMOVAL DATE **Date Signed** Notify your DWM Regional Office Janet 6/8/2011 48 hours before this date If

scheduled removal date changes

**APPENDIX B** 

**UST-2 FORM** 

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

#### Return completed form to:

The DWM Regional Office located in the area where the facility is located. Send a copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED" and your tank fee account can be closed out. SEE MAP ON THE BACK OF THIS FORM FOR THE CENTRAL AND REGIONAL OFFICE ADDRESSES.

STATE USE ONLY:	
I.D. #	
Date Received	

#### **INSTRUCTIONS (READ THIS FIRST)**

For more than five UST systems you may attach additional forms as needed.

Permanent closure - For permanent closure, complete all sections of this form.

Change-in-service - For change-in-service where UST systems will be converted from containing a regulated substance to storing a non-regulated substance, complete sections I, II, III, IV, and VIII

Effective February 1, 1995, all UST closure/change-in-service reports must be submitted in the format provided in the UST-12 form. UST closure and change-in-services must be completed in accordance with the latest version of the Guidelines for Tank Closure. A copy of the UST-12 form and the Guidelines for Tank Closure can be obtained at www.wastenotnc.org.

You must make sure that USTs removed from your property are disposed of properly. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dumpsites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you could be held responsible for the cleanup of any environmental damage that occurs.

						on of the tank clo the P.E. or L.G.	sure must	be condu	cted unde	r the sup	pervision of a	a P.E. or
Life Street			IP OF TANK		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		11. L	OCATIO	N OF TA	NKS		
Orphan		ration, Individua			Entity)	Facility Name or Company Robert L. Long Residence - Proposed NCDOT Right of Way						
Street Ac	ddress 					Facility ID # (If known) Unknown						
City			Count	ty		Street Address 6871 Clinton Roa	ıd					
State Zip Code						City Stedman			County Cumberl	and	Zip Code 28391	
Phone Number						Phone Number 910-303-1411		.,.				
				111.	CONTACT	PERSONNEL		No.		FM, ID		12.0
	for Facility: aldwell, LG, i	PE				Job Title: NCDOT Geo	Environm	ental Proj.	Mgr.		hone. No: 19-707-6869	
Tony Dis			EVO	Contractor Co		Address: 1703 Vargra					hone. No: 36-725-5844	
	Consultant N rett, P.G.	lame:		Consultant Co		Address: 220 Old Dair	ry Rd. Wilr	nington, N	С	Р	hone. No: 10-452-5861	
	IV. UST	INFORMATI	ON FOR REC	SISTERED	UST SYSTE	MS	TE STORY	V. EX	CAVATIO	ON COL	NOITION	
Tank ID No.	Size in Gallons	Tank Dimensions	Last Contents	Last Use Date	Permanen Close Date	Service		ter in vation		ee duct No		or or visible mination No
						Date					<del></del>	
2	1000 4000	4.1' x 9.9'	Fuel Oil Gasoline, Ga	Unknown	6/8/11							
3	4000	5.35'x23.7' 5.35'x23.7'	Gasoline, Ga	Unknown	6/10/11							
4	1000	5.35'x6.1'	Petroleum	Unknown	6/9/11							
5	550	4' x 6.7'	Petroleum	Unknown	6/9/11							
	VI. UST I	NFORMATIO	N FOR UNRE	GISTERE	UST SYST	EMS	AND THE REST	VII. EX	CAVATI	ON CO	NDITION	
Tank ID No.	Size in Gallons	Tank Dimensions	Last Contents	Last Use Date	Permanent Close Date	Tank Owner Name *	Owner Water in		Free product		Notable odor or visible soil contamination	
12 110.	Guilorio	Dimondions	Contonto	Duto		Teamo	Yes	No	Yes	No	Yes	No
						-						
* if the ta	nk owner ad	dress is differer	nt from the one	listed in Sec	tion I., then en	ter the street addr	ess, city, s	state, zip c	ode and te	elephone	no. below:	
VIII. CE	RTIFICAT	ION								11201		
I certify u based or complete	my inquiry	of law that I hat of those individu	ive personally e uals immediatel	examined and y responsible	d am familiar v e for obtaining	vith the information the information, I	n submitte believe tha	d in this ar at the subr	nd all attac nitted infor	hed doc mation i	uments and s true accura	that ate and
		al title of owner of the control of		orized repre	sentative	Signature	Yan	H			Date Signe	d /(

UST-2 Rev 11/2006

### **APPENDIX C**

# CERTIFICATES OF DISPOSAL AND WASTE MATERIAL MANIFESTS



1703 Vargrave Street Winston-Salem, NC 27107 ph 336-725-5844 fax 336-725-6244

## **CERTIFICATE OF DISPOSAL**

Evo Corporation does hereby certify that 6,425 gallons of non-hazardous contaminated water received on 06/07/2011, 06/08/2011 and 06/09/2011 from:

Generator:

Parcel 81B - Robert Lee Long Property

Originating at:

6871 Clinton Rd.

Stedman, NC

EC Waste ID #:

061113

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

Thomas W. Ham &

Thomas W. Hammett

CEO

**Evo Corporation** 



1703 Vargrave Street Winston-Salem, NC 27107 ph 336-725-5844 fax 336-725-6244

## **CERTIFICATE OF DISPOSAL**

Evo Corporation does hereby certify that 203.06 tons of non-hazardous contaminated material received on 06/08/2011, 06/09/2011 and 06/13/2011 from:

Generator:

Parcel 81B - Robert Lee Long Property

Originating at:

6871 Clinton Rd.

Stedman, NC

EC Waste ID #:

061113

from W. Hamel

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

Signature

Thomas W. Hammett

CEO

**Evo Corporation** 



1703 Vargrave Street Winston-Salem, NC 27107 ph 336-725-5844 fax 336-725-6244

## TANKS DISPOSAL CERTIFICATE

Tank Owner:

Parcel 81B – Robert Lee Long Property

Site Address:

7871 Clinton Rd.

Stedman, NC

Description of Tanks:

Tank Number	Size of Tank	<u>Contents</u>
1	1,000 Gallons	#2 Fuel Oil
2	4,000 Gallons	Gasoline
3	4,000 Gallons	Gasoline
4	1,000 Gallons	Petroleum
5 3	550 Gallons	Petroleum

Transporter:

**EVO Corporation** 

EC Project #:

061113

Disposal Certification:

Evo Corporation does hereby certify that the above named storage tanks were transported to Sandhill Recycling in Aberdeen, NC for proper disposal and recycling.

Signature

Thomas W. Hammett

**CEO** 

**Evo Corporation** 

## **EVO CORPORATION**

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net

NUN-HAZARDOUS MATERIALS MANIFEST								
Load #	Manifest No. 71567							
GENER	RATOR INFORMATION							
Generator: Parcel 81B - Robert Lee Long Property Phone: 010-471-3456  Site Address: 6871 Clinton Road  Stedman, NC 28391 Contact: Ben Ashba								
MATERIAL DESC	CRIPTION / QUANTITY / WEIGHT							
Gross Weight (lbs):  Empty Weight (lbs):  Net Weight (lbs):	Material: Water  Contaminant: Petroleum							
Quantity 3000	Tons Drums Pails Sacs Yards Other:							
	PORTER INFORMATION							
Transporter: Evo Corporation	Phone: 336-725-5844							
Truck #: 402	Phone: 336-725-5844  Contact: Tony Disher							
As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.								
Driver Signature: FACI	Date: 6/7/// LITY INFORMATION							
EVO CORPORATION 1703 Vargrave Street Winston-Salem, NC 27107	## O6111#3  Evo Project #:  Phone: (336) 725-5844  Contact: Tony Disher							
I certify that the carrier has delivered the material for treatment and/or disposal in a manual	erials described above to this facility, and I hereby accept this ner that has been authorized by the State of North Carolina.							
Facility Signature:	Date: 06-07-2011							
White/Facility Canary/Invoic	e Goldenrod/Generator Pink/Carrier							
	Tilliv Odilliol							

Evo Corporation, 2008

## **EVO CORPORATION**

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Manifest No. 71565 Load # **GENERATOR INFORMATION** Generator: Percel 007 Selvin Guy Metthews Property Phone: 910-471-3456 Site Address: 6449 Clinton Road Stedman, NC 28391 Contact: Ben Ashba City/State: MATERIAL DESCRIPTION / QUANTITY / WEIGHT Gross Weight (lbs): \_\_\_\_\_ Material: \_\_\_\_ Water Empty Weight (lbs): \_\_\_\_\_ Contaminant: Petroleum Net Weight (lbs): Tons Drums Pails Sacs Yards Other: 6 825 Quantity TRANSPORTER INFORMATION **Evo Corporation** 336-725-5844 Truck #: 4/e2 Phone: Tony Disher Transporter: \_\_\_\_ As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate. Driver Signature: FACILITY INFORMATION 06111183 Evo Project #: **EVO CORPORATION** Phone: (336) 725-5844 1703 Vargrave Street Winston-Salem, NC 27107 Contact: Tony Disher I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina. Date: 06-09-2011 Facility Signature:

Canary/Invoice

Goldenrod/Generator

Pink/Carrier

White/Facility
Evo Corporation, 2008

## **EVO CORPORATION**

1703 Vargrave Street, Winston-Salem, NC 27107 www.evocorp.net NON-HAZARDOUS MATERIALS MANIFEST

Load #	Manifest No. 71566
GENERA	FOR INFORMATION
Generator: Parcel 168 - Jerry Taylor F	Phone: 010.471.3456
Site Address: 8947 Clinton Road	Toperty 11010. VIII-4/1-3/430
City/State: Stedman, NC 28391	Contact: Ben Ashba
City/State.	Contact:
MATERIAL DESCRI	PTION / QUANTITY / WEIGHT
WATERIAL DESCRI	FIION / QUANTITY / WEIGHT
Gross Weight (lbs):	Material: Water
Empty Weight (lbs):	Contaminant: Petroleum
Net Weight (lbs):	
Quantity 2600	Tons Drums Pails Sacs Yards Other.
TRANSPOR	RTER INFORMATION
P-0-	AAC PAE EAAA
i ransporter,	Phone: 336-725-5844
Truck #: 402	Contact: Tony Disher
As the transporter, I certify that the materials	described above being shipped under this non-hazardous
in commerce under the applicable regulations go	ed, labeled, secured and are in proper condition for transport verning transportation, and I hereby receive this material for
delivery to the facility designate.	remaining transportation, and thoropy receive this material for
Driver Signature:	Date: 6/8///
FACILIT	Y INFORMATION (
	0611113
	Evo Project #:
EVO CORPORATION 1703 Vargrave Street	Phone: (336) 725-5844
Winston-Salem, NC 27107	
	Contact: Tony Disher
I certify that the carrier has delivered the materia	Is described above to this facility, and I hereby accept this
material for treatment and/or disposal in a manner	that has been authorized by the State of North Carolina.
	1 10 2011
Facility Signature:	Date: 06-08-2011
White/Facility Canary/Invoice	Goldenrod/Generator Pink/Carrier
Evo Corporation, 2008	Coldoniou/Cenerator Finix Carrier

	#061111						
NON-HAZARDOUS WASTE MANIFEST	Generator's US EPA ID No.	Manifest Document No.	2. Pag	e ]			
3. Generator's Name and Mailing Address  ROPERT L. Long Parce  6871 Clinton Rd.  4. Generator's Phone (9/0) 303-11			54			tox Ro	
5. Transporter 1 Company Name	6. US EPA ID	Number	A. Trai	nsporter's	Phone	844	-
7. Transporter 2 Company Name	8. US EPA ID	Number		isporter's		017	
9. Designated Facility Name and Site Address 301 Environ Mental Cleun 4800 Front St.		4		ility's Phor	23	~~ ~ ?	
Sted Man N.C. 28391  11. Waste Shipping Name and Description	IN.C.ROOD	1.4.4302	] 9,	10 + 4 12. Cor		78つ3 13.	14.
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c.							
d.							
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16. GENERATOR'S CERTIFICATION: I certify the Protect Typed Name Sen Ash Oa: (A-TLINag-	Signoture	subject to federal jee	gulations fo	or reporting	proper disp	Month Day	Year
17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name	f Materials Signature	7				Month Day	Year 1//
18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	f Materials Signature					Month Day	Year
19. Discrepancy Indication Space							<b>4.</b> :
20. Facility Owner or Operator: Certification of re	aceipt of waste materials covered by this mar	ifest except as note	d in Item	19.			
Printed/Typed Name Clayton B. M& Donald	Signature	B. M.	Ray	1		Month Day	Year
	TRANSPORTER#1	2 1					

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1	WASTE MANIFEST	Generator ID Number		2. Page 1 of 3. E	Emergency Respons	se Phone	4. Waste	Tracking Nu	ımber	
	5. Generator's Name and Mailing Add	iress Prop - Parce	1813	Gen	nerator's Site Addres	ss (if different f	than mailing add	Jress)		
5. Generator's Name and Mailing Address  Robert Library Prop - Parcel 813  Generator's Site Address (if different than mailing address)										
	Generator's Phone: 910-34	03-1411			Ĺ					
	6. Transporter 1 Company Name	- 1005370A		0 - ali cirolate di P	- House	V	U.S. EPA ID	O Number	- Western	
	7. Transporter 2 Company Name	K					U.S. EPA ID	n Number		
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	8. Designated Facility Name and Site A						U.S. EPA ID			Y THE
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	Facility's Phone: (910) 567-6	102	<b>70</b> .0				1			
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	16. Transporter Acknowledgment of Rec				11	ing v.s			***	
TRANSPORTER	Transporter 1 Printed/Typed Name	h Dies		Signature	11/1/	1	20	02	Month Day	Year
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-1	17b. Alternate Facility (or Generator)			Ma	anifest Reference N	lumber:	U.S. EPA ID N	Milmber		
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É	Facility's Phone:						1		-	
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1	18. Designated Facility Owner or Operator Printed/Tyged Name	or: Certification of receipt of materials or	overed by the manif		//				/// // // // // // // // // // // // //	
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1	l v	ION-HAZARDOUS VASTE MANIFEST	Generator ID Number		2. Page 1 of 3. E	mergency Hespon	se Phone	4. Waste	Tracking Nun	ber	
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	6. Tra	ansporter 1 Company Nan	10					U.S. EPA II	) Number		
	7. Tra	ansporter 2 Company Nam	ne					U.S. EPA II	Number		
	15 15		PRISES, INC. RD AUTRYVILLE	E, NC 28318	330.5011			U.S. EPA II			
	Facili	y's Phone: (910) 5	67-6138								1 2 3
H		9. Waste Shipping Name	and Description			No.	Type	11. Total Quantity	12. Unit Wt./Vol.		
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- 100 S		4.				,					
	14. GI	ENERATOR'S/OFFEROR	s and Additional Information  S CERTIFICATION: I hereby de	$ \begin{array}{c} 6536 \\ 33,74 \\ \hline 31,62 \end{array} $ Indeed that the contents of this of	onsignment are fully	and accurately des	cribed above b	y the proper shi	pping name, a	nd are classified, pa	ackaged,
	Gener	arked and labeled/placarde ator's/Offeror's Printed/Ty Sen A3h	od, and are in all respects in prop ped Name	er condition for transport according	Signature		onal governme	ntal regulations.		2.2	Day Year
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ATE	17c. S	ignature of Alternate Facili	ty (or Generator)		1 .					Month [	Day Year
- DESIGNATED FACILITY											
			Operator: Certification of receipt	t of materials covered by the m	anifest except as not	in Item 17a		et varmels skelf killed i	130 444	and the second second	
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4	WASTE MANIFEST	Generator ID Number		Page 1 of 3. Er				Tracking Num	ber		
	5. Generator's Name and Mailing Add	dress Robert L. L	ong Prop-Pa	- col & (1)	rator's Site Addre	ss (if different	than mailing add	ress)			
	5. Generator's Name and Mailling Address Pobert L. Long Prop-Parcol & Generator's Site Address (if different than mailing address)										
П	Stadminks										
	Stedman, NC Generator's Phone: 910-303-1411										
П	6. Transporter 1 Company Name						U.S. EPA ID	Number			
Ш	7. Transporter 2 Company Name						U.S. EPA ID	Number			
	7. Hanspoter 2 Company Name						0.0. 217110	Transco			
	8. Designated Facility Name and Site Address E S & J ENTERPRISES, INC. 1555 HOLLAND RD AUTRYVILLE, NC 28318										
	Facility's Phone: (910) 567-6	6138					Ĺ				
	9. Waste Shipping Name and	The second second second			10. Con	7	11. Total Quantity	12. Unit Wt./Vol.			
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	13. Special Handling Instructions and	Additional information	43,300								
			• ,								
	14. GENERATOR'S/OFFEROR'S CE	RTIFICATION: I hereby declare the	at the contents of this cons	signment are fully a	nd accurately des	scribed above	by the proper shi	pping name, ar	nd are classified, pack	aged,	
	marked and labeled/placarded, an Generator's/Offeror's Printed/Typed N	la—a		Cionatika	mational and nati	onal governm	ental regulations.		Month Dar	y Year	
¥	Ben Asha:	.CATIN agent	-for NCP	2 12	ح_ع	130	0		Month Day	111	
INT	15. International Shipments	Import to U.S.	Dε	port from U.S.	Port of e	ntry/exit:					
_	Transporter Signature (for exports only				Date lea	ving U.S.:					
띮	16. Transporter Acknowledgment of R	eceipt of Materials		Signature	- 1	10			Month Day	y Year	
TRANSPORTER	Transporter 1 Printed/Typed Name	Ducen		Jignature	MAL	1 (2)	new		161/3	3/1/	
RANS	Transporter 2 Printed/Typed Name			Signature					Month Day	y Year	
=	17. Discrepancy				W			-			
1	17a. Discrepancy Indication Space	П	Туре	: 3	Residue	00 n Zest	Partial Re	instina	Full Re	inglion	
		L_I Quantity	ш туре		residue		LJ Parkai ne	gecatori	L ruii ne	geolori	
	d The Attenuate Coulder for Consensed			M	nifest Reference	Number:	U.S. EPA ID	Mumbor			
Ē	17b. Alternate Facility (or Generator)						U.S. EPA ID	MINDE		30	
FAC	Facility's Phone:					X-8-22					
鱼	17c. Signature of Alternate Facility (or	Generator)	35- Wassing	E					Month Day	y Year	
DESIGNATED FACILITY											
DES									· · · · · · · · · · · · · · · · · · ·		
			K. C. P. C.								
	18. Designated Facility Owner or Open Printed/Typed Name	rator: Certification of receipt of ma	tenals covered by the mani	fest except as note Signature					Month Da	v Year	
¥	Mick (	25		Orginature	1.1	61	m		16/3	111	

A	NON-HAZARDOUS WASTE MANIFEST	WASTE MANIFEST										
	5. Generator's Name and Mailing Address Purcel SIB  Generator's Site Address (if different than mailing address)  Generator's Site Address (if different than mailing address)  Generator's Phone: 910-303-1411											
DE BOOK	6. Transporter 1 Company Name					U.S. EPA ID Number						
	7. Transporter 2 Company Name U.S. EPA ID Number							1,000				
×	8. Designated Facility Name and Site Address E S & J ENTERPRISES, INC. 1555 HOLLAND RD AUTRYVILLE, NC 28318											
lſ	Facility's Phone: (910) 5	67-6138			10. Containers 11. Total 12. Unit							
	9. Waste Shipping Name and Description				10. Containers  No. Type			12. Unit Wt./Vol.				
GENERATOR -	1. PETROLEUM	M CONTAMINATE	DSOIL	21	13.	12 70	N5.	LBS.		240	)	
- GEN	2.										1	
	3.		n 11									
	4.			41								
	12 Canada Handling last retion	o and Additional Information				<u> </u>						
13. Special Handling Instructions and Additional Information  51,500  25,260  26,240												
Ш	14. GENERATOR'S/OFFEROR	'S CERTIFICATION: I hereby	declare that the contents of this c	onsignment are full	y and accurately de	scribed above t	y the proper shi	pping name, a	and are classified	l, packaged	d,	
marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.  Generators/Offeror's printed/Typed Name  Signature  Signature  Signature								Month	Month Day Year			
INT'L	15. International Shipments	Import to U.S.		Export from U.S.	Port of e	entry/exit:	- Late - 1		10			
Z	Transporter Signature (for expor	rts only):	1100		Date lea	aving U.S.:						
띮	16. Transporter Acknowledgmer Transporter Printed/Typed Na			Signatu	1		1.	~/	- Month	Day	Year	
TRANSPORTER	mansporter Printed Typed No.	110	5411		Tool .		Mu	X	16	8	11	
8	MACK CULTURE 6 8  Andresporter 2 Printed Typed Name  Month Day						Day	Year				
Æ												
A	17. Discrepancy					-6-380		C-31111				
Ш	17a. Discrepancy Indication Spa	Quantity	Туре		Residue		Partial Re	jection		Full Rejection	on	
	Manifest Reference Number:											
È	U. EDI IDA											
FACILITY	Facility's Phone:			1								
	17c. Signature of Alternate Facil	lity (or Generator)				The 400		V	Month	Day	Year	
DESIGNATED	N.251.≅								1			
DES												
	10 Paris - 12			neifoot	and i 🕰 😁							
	18. Designated Facility Owner or Printed/Typed Mame	<ul> <li>Designated a dity Owner or Operator: Certification of receipt of materials covered by the manifest exited Traced Plane</li> </ul>					t except as noted in them 17a Signature					
٧		Jn5.	0.00	1/	red 1	In			Month	8	ll 1	

									15			
A	NON-HAZARDOUS WASTE MANIFEST	İ	2. Page 1 of 3. Emergency Response Phone				4. Waste Tracking Number					
	5. Generator's Name and Mailing Address  Kelbert L Long Prop - Parcel 818  Generator's Site Address (if different than mailing address)  Generator's Phone: 910-303-141											
	6. Transporter 1 Company Name U.S. EPA ID Number											
National Property of the Prope	7. Transporter 2 Company Name U.S. EPA ID Number											
	8. Designated Facility Name and Site Address E S & J ENTERPRISES, INC. 1555 HOLLAND RD AUTRYVILLE, NC 28318											
	Facility's Phone: (910) 567-6138											
	9. Waste Shipping Name				10. Con	tainers Type	11. Total Quantity	12. Unit Wt./Vol.				
ATOR -	1. PETROLEUM	M CONTAMINATED SOIL					Tons	LBS.	37 e	) ((		
- GENERATOR	2.	- 1		1	700	دی	10113		242			
- SEPRE	3.				<u> </u>	:						
	4.					-						
- Dic												
	13. Special Handling Instruction	ns and Additional Information 6 3	100					JJ	The said for the said of the s			
		25	840									
	13. Special Handling Instructions and Additional Information  63100  25840  37,260											
	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.											
¥	Generator's/Offeron Printed/Ty Ben / 3h/b	ped Name: CATUN agent	GINCO	Signature 6	Zek	31	1		Month 6	Day 8	Year	
INT	15. International Shipments	Import to U.S.	∐E	xport from U.S.	Port of e	70.74				E 29	AR 1/2	
_	Transporter Signature (for expo				Date lea	ving U.S.:	7					
Ē	16. Transporter Acknowledgment of Receipt of Materials  Transporter 1 Printed/Typed Name  Signature  Signature							Year (				
SPO	DACI	K AUIR	Y		X VC	R 1	un	24	76	8		
TRANSPORTER	Transporter 2 Frinted/Typed Na	ume		Signature	_	C			Month .	Day 	Year	
Ħ	17. Discrepancy	<u> </u>						_		I		
	17a. Discrepancy Indication Spa	7a. Discrepancy Indication Space Quantity Type			Residue		Partial Rej	ection		Full Rejection		
Ш	Manifest Reference Number:											
È	17b. Alternate Facility (or General	7b. Alternate Facility (or Generator)					U.S. EPA ID Number					
₩.	Facility's Phone:						1				,	
	17c. Signature of Alternate Faci	lity (or Generator)	· · · · · · · · · · · · · · · · · · ·	1					Month	Day	Year	
DESIGNATED FACILITY										E SELECTE		
DES												
		Opposite Continue	da aayyaa dha dh	ion over	ed in Norm 17-							
	18. Designated Pacifity Owner of Printed/Typed Name	or Operator: Certification of receipt of materia	us covered by the man	Signature		<u> </u>	•		Month	Day	Year	
*	Kick	Jns.			enh	Colo	ne		16	8	11	

A	NON-HAZARDOUS WASTE MANIFEST	Generator ID Number		2. Page 1 of 3. Em	ergency Response	e Phone	4. Waste T	racking Nu	mber		
	5. Generator's Name and Mailin Pober + L. Lin 6871 Clintod Climon, 200	g Address y Prop - Parcel y Ks:	81B	Gener	ator's Site Address	s (if different t	han mailing addr	ess)	0		
	Generator's Phone: 9/0 6. Transporter 1 Company Name	2011					U.S. EPA ID	Number		5. ·	
	7. Transporter 2 Company Name	<b>)</b>					U.S. EPA ID	Number			
	8. Designated Facility Name and	I Site Address			00 1 AH		U.S. EPA ID	Number	ii.	<u> </u>	
	E S & J ENTERP 1555 HOLLAND I	RISES, INC. RD AUTRYVILLE	, NC 28318				SR0600	035			
2	Facility's Phone: (910) 56	37-6138									
Table 1	9. Waste Shipping Name				10. Conta	iners Type	11. Total Quantity	12. Unit Wt./Vol.			
ENERATOR -	1. PETROLEUM	I CONTAMINATED	SOIL		17.	35	TONS	LBS.	34.	700	
GENI	2.	100 (100 (100 (100 (100 (100 (100 (100			4 (52 54 )						
TASH.	3.										
	4.			1 Marie Mari				Ų Ş		•	10年10年11日
A 10 10 10 10 10 10 10 10 10 10 10 10 10	13. Special Handling Instructions	and Additional Information	59,960 25,260 37,700								
	14. GENERATOR'S/OFFEROR'S	S CERTIFICATION: I hereby de d, and are in all respects in prop	clare that the contents of this c	onsignment are fully ar	nd accurately desc	ribed above t	y the proper ship	ping name,	and are classifie	d, packaged	i,
				00-X 9. 1. Marketon Ac-	A A	Z governme	mai regulations.		Month I G	By I	Year //
INT'L -	15. International Shipments	Import to U.S.		Export from U.S.	Port of ent			4)			
_	Transporter Signature (for exports				Date leavi	ng Ú.S.:					
6	16. Transporter Acknowledgment						•		_		
TRANSPORTER	Transporter 2 Printed/Typed Nam	Calbre	-111	Signature	uh	La	thi	the	Month Month	Day Day	Year
A	17. Discrepancy	7					U00050-7				Sad - 3
	17a. Discrepancy Indication Spac	L_J Quantity	Туре	[ Mai	Residue	lumber:	Partial Rej			Full Rejection	on
YEAT.	17b. Alternate Facility (or General	tor)					U.S. EPA ID I	Number			
¥	Facility's Phone:										
ATED	17c. Signature of Alternate Facility	y (or Generator)		ı		Nego Wester	- Same	10.00	Month	Day 1	Year
DESIGNATED FACILITY									•		
	18. Designated Facility Owner or	Operator: Certification of receipt	of materials covered by the ma		in tem 17a	ay .			1500		
<b>\</b>	Printed/Typed Name	JNS.		Signature	ich	W	n5.		Month	Day	Year
_	/		N	7						-	-

NON-HAZARDOUS	1. Generator ID Number	2.	Page 1 of 3. En	ergency Respons	se Phone	4. Waste 1	Fracking Nu	mber	
WASTE MANIFEST									4 55/8/15
Generator's Phone:	ng Address Par e 21 81 B 20-303-1411		Gene	ator's Site Addres	ss (if different the				
6. Transporter 1 Company Nam	ne					U.S. EPA ID	Number	faV	
7. Transporter 2 Company Nam	ne	- <del> </del>		20-217025-		U.S. EPA ID	Number		
8. Designated Facility Name an E S & J ENTERP 1555 HOLLAND Facility's Phone: (910) 56	PRISES, INC. RD AUTRYVILLE, NO	28318			96-11-1	U.S. EPA ID SR0600		· · · · · · · · · · · · · · · · · · ·	
9. Waste Shipping Name			5% 555 55	10. Conta	ainers	11. Total	12. Unit		
	and Doserption			No.	Type	Quantity	Wt./Vol.		
	CONTAMINATED SO	IL	-	17.	49	Tools,	LBS.	34,980	
2.								net in the second	
3.	0 °	*							
4.	* /								
13. Special Handling Instructions	and Additional Information	0.820						State of the product of the state of the sta	-13-150/8019/97
	, i	5.840							
	3	5,840							
14. GENERATOR'S/OFFEROR'S	S CERTIFICATION: I hereby declare the declare the declare in all respects in proper cond	at the contents of this consig	nment are fully ar	d accurately desc	ribed above by	the proper ship	ping name, a	and are classified, packag	jed,
Generator's/Offeror's Printed/Typ			Ciarra	A	Mb	air regulations.		Month Day	Year
15. International Shipments  Transporter Signature (for export	import to U.S. s only):	□Бф	ort from U.S.	Port of en					Rice pi V
16. Transporter Acknowledgment					100	X			
Transporter 2 Printed/Typed Nam	HUTRY		Signature Signature	al o	lhu	tig		Month Day Month Day	Year Year
17 Diagram			1					$\perp \perp \perp$	
17. Discrepancy 17a. Discrepancy Indication Space	Quantity	Туре		Residue		Partial Reje	ection	Full Reje	ction
17b. Alternate Facility (or General	tor)		Mar	ifest Reference N	umber:	U.S. EPA ID N	lumber		
Facility's Phone: 17c. Signature of Alternate Facility	v (or Generator)							14# 5	
Stendings becomes product a rate	, ( Control of the							Month Day	Year
	Operator: Certification of receipt of mate	rials covered by the manifes		n Item 17a			a-treits in		
Printed Typed Name	ms.		Signature	ih (	Im	-		Month Day	Year

4	NON-HAZARDOUS 1. Generator ID Number WASTE MANIFEST	2. Pag	ge 1 of 3. Eme	ergency Respons	e Phone	4. Waste	Tracking Num	ber	
	5. Generator's Name and Mailing Address		Genera	tor's Site Addres	s (if different t	han mailing add	ress)		
	Golf Clinton Ro			SAN	IF				
	Clinton: NC Generator's Phone: 9/0-303-1411		ĵ	J 16 F	K				
The same	Generator's Phone: 970 203-1711 6. Transporter 1 Company Name					U.S. EPA ID	Number	25 500	S. S. S. S.
	ES\$)								
	7. Transporter 2 Company Name					U.S. EPA ID	Number		
4	8. Designated Facility Name and Site Address ES&JENTERPRISES, INC. 1555 HOLLAND RD AUTRYVILLE, N	IC 28318				U.S. EPA ID SR0600			
	Facility's Phone: (910) 567-6138					1			
	9. Waste Shipping Name and Description			10. Contr	ainers	11. Total	12. Unit		
				No.	Туре	Quantity	Wt./Vol.	3(%))) SC(1) (5) 2 (6) (7) (7)	
E G	1. DETPOLEUM CONTAMINATED &	<b>∆</b> ii					100		
RAT	PETROLEUM CONTAMINATED S	OIL		15	20 7	-15	LBS.	31 800	
GENERATOR	2.			1-0.	-	<i></i>			
0									
							8		
	3.								
	4.	<u> </u>					1		
					S-1-1000 T-1-10				44.7
	13. Special Handling Instructions and Additional Information	57,060		274					
	3	5, 260							
	~	7.2.							
	3	1,800							
	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare	that the contents of this consignre	nent are fully an	d accurately desc	ribed above t	y the proper shi	pping name, ar	nd are classified, package	ed,
	marked and labeled/placarded, and are in all respects in proper co Generator's/Offeror's Printed/Typed Name					ntal regulations.	PRESIDE	Month Day	Year
¥	Ben Ashba: CATUN agent	for NCOST		e Az	K			1618	
F	15. International Shipments Import to U.S.		from U.S.	Port of en			*****		
_	Transporter Signature (for exports only):  16. Transporter Acknowledgment of Receipt of Materials			Date leav	ing U.S.:				
	Transporter 1.Pfinted/Typed Name		Signature	111	/ 4	01	/ -	/ Month Day	Year
2	MACK Calbrett	4	11	lock	$\leq C$	ull	ul	1618	I VI
TRANSPORTER	Transporter 2 Printed/Typed Name		Signature		5			Month Day	Year
F	Trefu		1						
٨I	17. Discrepancy 17a. Discrepancy Indication Space			7					
H	Quantity	∟ Туре	II L	Residue		Partial Re	jection	Full Reject	tion
ŀ			Man	ifest Reference N	lumber:				
È	17b. Alternate Facility (or Generator)					U.S. EPA ID	Number		
FACILITY						ř.			
	Facility's Phone: 17c. Signature of Alternate Facility (or Generator)			Christian III	MINISTER III			Month Day	Year
	17.C. Signature of Attentione Facility (of Generator)		ì						l loa
DESIGNATED									
							, 4 <u>3</u>		
1									
11	18. Designated Facility Owner or Operator: Certification of receipt of m	aterials covered by the manifest e		in Item 17a				Month Day	Vac
V	Printed Typed Name		Signature	h	- 4	2002		Month Day	Year
4	VIICK INIVIS.	1000	1100	41	ANV	r		1010	III

200	1-										
A	V	ION-HAZARDOUS VASTE MANIFEST	Generator ID Number		2. Page 1 of	3. Emergency Respor	nse Phone	4. Waste	Tracking Nu	umber	
	5. G	enerator's Name and Mailin	g Address			Generator's Site Addre	ess (if different	than mailing add	ress)		15.30
	1	col Cliates				$ \mathcal{L}_{\Lambda} $	MA	د			
	0	B71 Clinton   linton, ~ 910-	2		E	74		•			
	Gene	erator's Phone: 4/0/ ensporter 1 Company Name	303-1411					U.S. EPA II	Mumbar		
	0. 116	E5#)	9					U.S. EPA IL	Number		
	7. Tra	ansporter 2 Company Name	<del>0</del>					U.S. EPA ID	Number		- 10 cm
			Harry Street To the Breeze					1	W2 9		
	8. De	signated Facility Name and S & J ENTERP	Site Address PRISES INC	2343 = 22.00268	0.50		W 11	U.S. EPA ID			
	15	555 HOLLAND	RD AUTRYVILLI	E, NC 28318				SR0600	JUQ0		
	Facili	y's Phone: (910) 56	37-6138					ł			
	, dom					10. Cor	ntainers	11. Total	12. Unit		
	-	9. Waste Shipping Name	and Description			No.	Туре	Quantity	Wt./Vol.		
g		1. DETDOLEHM	I CONTAMINATE	0.001				60 MFG			
Ž		PETHOLEUN	I CON IAMINAI EL	JOUIL		16.5	70 70	1-	LBS.	21 800	
GENERATOR		2.				150	700	<i>1</i> 5,		<u> </u>	
g											
		3.				- I					er i k
							,				
Ш		4.							-		
											<u>.</u>
3000	12 Co	posial blandling Instructions	and Additional Information								•1
	13. Op	edai nasuling instructions	and Additional Information	27,060	)						
				26,260	,						
Ш				57,060 26,260 31,800	<del></del>						
	F 6-4-1200			ما م م را د							. 1
Ш	14. GE	ENERATOR'S/OFFEROR'S	CERTIFICATION: I hereby de d, and are in all respects in prop	eclare that the contents of this	consignment are	fully and accurately des	scribed above b	y the proper ship	oping name,	and are classified, packa	iged,
Ш	Gener	ator's/Offeror's Printed/Typ	ed Name	1 / 15=	Sign			nui reguizations.		Month Day	_Year
Y	E	zen Ashba	ed Name  CA741 ages  Import to U.S.	it for NC	LOT	Zen	Se .			Month Day	19
INT					Export from U.	S. Port of e	ntry/exit:				
	_	orter Signature (for exports ansporter Acknowledgment			11-11-11-11-11-11-11-11-11-11-11-11-11-	Date lea	ving U.S.:				
		orter   Printed/Typed Nam		1-1	Signa	ature	7		1	Month Day	Year
<u>S</u>		lack	Calber	-114	1//	1 /anh	-/	uM	u N	666	1 1/
TRANSPORTER	Transp	orter 2 Printed/Typed Nam	6		Signa	aturé				Month Day	Year
F	47 Die										
1		crepancy iscrepancy Indication Space	• 🗇								
			Quantity	<b>∐</b> Туре		Residue		Partial Rej	ection	LLI Full Reje	ection
П			· · · · · · · · · · · · · · · · · · ·		-VX-2	Manifest Reference	Number:				
È	17b. Al	ternate Facility (or Generat	or)				9925	U.S. EPA ID I	Number		
ACI	Earline .	'o Phone:						1			
0		's Phone: gnature of Alternate Facility	(or Generator)	300				1		Month Day	Year
DESIGNATED FACILITY			\	7	1					.	
SIG											
7							in the same				
1	18 De	signated Facility Owner or C	Operator: Certification of receipt	t of materials ownered by the	nanifort event	noted in How 17-	A DESCRIPTION				
1		Typed Name	portation Continuation of 1608(p)	or materials covered by the f	Signa	tupe		<u> </u>	· ·	Month Day	Year
*		Kick L	Ins,			Ruk	ah	no		618	11

	707 - 00 de 2000 - 000 -										
4	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number		2. Page 1 of	3. Emergency Respons	se Phone	4. Waste T	racking Nu	ımber		
	5. Generator's Name and Mailling Colors  (871 Clinton)  Generator's Phone:	ng Address Prop Pa nton PLI NC 910-303-14	rcel 81B		Generator's Site Addre	ss (if different	than mailing addre	ess)			
	6. Transporter 1 Company Nam	ne					U.S. EPA ID	Number			
	7. Transporter 2 Company Nam	ne swape			, , , , , , , , , , , , , , , , , , , ,		U.S. EPA ID	Number			
	8. Designated Facility Name an E S & J ENTERF 1555 HOLLAND Facility's Phone: (910) 50	PRISES, INC. RD AUTRYVILLE	E, NC 28318				U.S. EPA ID SR0600			77	
	9. Waste Shipping Name			3	10. Cont	1	11. Total	12. Unit			
GENERATOR -	1. PETROLEUN	M CONTAMINATED	SOIL	(s.	No. 15.	87	Quantity  Tools	LBS.	317	<b>W</b>	
GENE -	2.						, 570-5				
	3.										
				200000							+ 0
	13. Special Handling Instruction	s and Additional Information	57,580								
			31,740	•					-202		
	marked and labeled/placarde	'S CERTIFICATION: I hereby dec ed, and are in all respects in prop	clare that the contents of this c er condition for transport accor	onsignment are t ding to applicabl	ully and accurately des e international and nation	cribed above onal governme	by the proper ship ental regulations.	ping name,		NEW VI	
¥	Generator's/Offeror's Printed/Ty	caty N age	ent for NCOC	T   Signs		SA			Month		Year
IFI	15. International Shipments  Transporter Signature (for expor	Import to U.S.		Export from U.S		ntry/exit: ving U.S.:					
	16. Transporter Acknowledgmen Transporter 1 Printed/Typed Nar	nt of Receipt of Materials		Signa		) (	V		Month	Day	Year
TRANSPORTER	Transporter 2 Printed/Typed Nas	ALTTRY		Signa	NACK	U	uly		Month	8	// Year
TRA	Transporter 2 Primary Typeu Nati	ine /		Julya	uu e		V			Day	Tear
1	17. Discrepancy  17a. Discrepancy Indication Spa	Coantity	Туре		Residue	Alexandra are	Partial Rej	ection	□F	ull Rejection	n
ACILITY -	17b. Alternate Facility (or General	ator)		*****	Manifest Reference	Number:	U.S. EPA ID N	lumber			
DESIGNATED FACILITY	Facility's Phone:  17c. Signature of Alternate Facili	ity (or Generator)	74				1		Month	Day	Year
- DESIG										1	
	18. Designated Facility Owner or Printed/Typed Name	r Operator: Certification of receipt	of materials covered by the m	anifest except as Signa		,	/ /	2	Month	Day	Year
*	Wick	Ms.			Kles	6	M	M	6	8 1	
169	9-BLS-C 5 11979 (Rev. 1	9/09)				D	ESIGNA I É	U FACI	LITY TO GI	-NEKA	IUK

			4 O			10.00-04 et l		Dh	A 196-4-	To state a Al	
A		ION-HAZARDOUS VASTE MANIFEST	1. Generator ID Number	er		2. Page 1 of   3	3. Emergency Resp	onse Phone	4. Waste	e Tracking No	umber
	General General	enerator's Name and Mai s bert Lee 871 Clint viator's Phone:	ton Rd.	P-Parce 13-1411	21818	G	Senerator's Site Add	AME	5		
	6. Tran	ansporter 1 Company Na ESES ansporter 2 Company Na	ame	112					U.S. EPA II		
			un son produce son					22 <u>1</u> 2		2000	
1	E S 155		PRISES, INC. RD AUTRYV	/ILLE, NC 28	318				U.S. EPA II SR0600		
	Facility	y's Phone: <b>(910)</b> 5	87-6136				10.0	4-1	1	1	Т
		9. Waste Shipping Nam	ne and Description	1000		atoma itto	10. Co	Containers Type	11. Total Quantity	12. Unit Wt./Vol.	The road that a second the second
GENERATOR -		11 10 11	M CONTAMINA	ATED SOIL			18	1.48	Toxts.	LBS.	36 960
OEN .		2.		100 100 100 100 100 100 100 100 100 100	The second of the second						
10 miles		3.				6					
		4		NECTOTION D	3.055						
	14. GEI	ENERATOR'S/OFFEROI	rded, and are in all respects	25 36 nereby declare that the case in proper condition for	for transport accordi	onsignment are ful ding to applicable					, and are classified, packaged,  Month Day Year
*	15. Intr	en H3Nba: emational Shipments	CATUNAS				en/8	w	1		6 8 14
J.L.	Treffepo	oorter Signature (for expo	import to U.S. corts only): sent of Receipt of Materials			Export from U.S.		of entry/exit: leaving U.S.:			
門		onter 1 Printed/Typed N	L		. ,	Signatu	= 1/	11.	0 ,	1~	Month Day Year
ğ	ナノ	MACK	- Lulb	bZE H	/	1/1	// with	1/	11/1/4	16	1618111
TRANSPORTER	Transpo	orter 2 Printed/Typed Na	ame			Signatu	ine				Month Day Year
A		screpancy			1882.	- white desired				- Ne - 1 000 - 332.	
	17a. Dis	iscrepancy Indication Sp	pace Quantity	11	Туре		Residue  Manifest Reference	ice Number:	Partial Re	ejection	Full Rejection
F	17b. Alt	Itemate Facility (or Gene	rator)						U.S. EPA ID	) Number	
FA		's Phone:		2							
*ATED		ignature of Alternate Fac	ility (or Generator)		(A)	1			The Carlotte of the Carlotte o		Month Day Year
DESIGNATED FACILITY											
Ш		signated Falcility Owner of Vyped Name	or Operator: Certification o	of receipt of materials c	overed by the mar	anifest except as n Signatu	-/-	,			Month Day, Year
4		DICK L	Uns.			l 1	reck	11	me		Month Day Year

	1	14 Occasion ID Nicoshor	D Page 1 of	C. Emanage Postono	Diana	I d stranta I	Museul		
A	V	NON-HAZARDOUS 1. Generator ID Number WASTE MANIFEST		3. Emergency Response			Fracking Num	) <del>e</del> r	
A STATE OF THE PARTY OF THE PAR	5. Gen	Reperator's Name and Mailing Address Report L. Long - Parcel BIB 687: CLinton Rel, CLinton NC erator's Phone: 910-303-1411 ransporter 1 Company Name		Generator's Site Address	`				
1000000	6. Tra	ransporter 1 Company Name  ES & J	3/9 11 m	127		U.S. EPA ID	Number		-80 - 804.c
	7. Tn	ransporter 2 Company Name	THE RESERVE OF THE PARTY OF THE			U.S. EPA ID	Number		
7	E	esignated Facility Name and Site Address S & J ENTERPRISES, INC. 555 HOLLAND RD AUTRYVILLE, NC 28318				U.S. EPA ID SR0600			
4	1	iny's Phone: (910) 567-6138	,			1			
The second	I Same	Waste Shipping Name and Description	. ,	10. Conta	ainers Type	11. Total Quantity	12. Unit Wt./Vol.	- 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12	. (3,000
ATOR -		1. PETROLEUM CONTAMINATED SOIL			25 %	-	LBS.	A to	
GENERATOR		2.		/ / / /	10	K(3)			
			1		- 1				
Control of the last		3.							
		4	***************************************				.,		
	13 S	Special Handling Instructions and Additional Information			1		2		
	16,	53,7	60						
		25,2. 28,5	60						
						1			
	ma	ENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the conten- narked and labeled/placarded, and are in all respects in proper condition for trans					oping name, an	d are classified, packaged	
¥	13	anator's/Offeror's Printed/Typed Name  Den Ashlan CATUNagen + For NCA  nternational Shipments		Ber		4		Month Day	Year
INT		sporter Signature (for exports only):	Export from U.S	S. Port of ent Date leavi			WWW 2 45 EM		
TER	16. Tr	ransporter Acknowledgment of Receipt of Materials	/ Signal	ans	/		. / 1	Month Day	Year
TRANSPORTER	Δ	MACK CUIDRET	4 1	Vuk	- C	ull	rett	16 81	1/
HAN	frans	sporter 2 Printed/Typed Name	Signal	ture		,		Month Day	Year
A		iscrepancy							
	17a. u	Discrepancy Indication Space Quantity	Туре	Residue		Partial Rej	ection	Full Rejection	on
\  -	17b./	Alternate Facility (or Generator)		Manifest Reference N	lumber:	U.S. EPA ID I	Number		
CILT						1			
ED FA		ty's Phone: Signature of Afternate Facility (or Generator)						Month Day	Year
DESIGNATED FACILITY						CAUTA SALES			
DESI						**			
	18. Dr	esignated facility Owner or Operator: Certification of receipt of materials covered	d by the manifest except as	noted in <b>Joyn</b> 17a					
V		Mick Lins	Signat		1 1			Month Day	Year
	V	11CK WMS		y were	NIM	7		68	

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4	

A		NON-HAZARDOUS	1. Generator ID Number		2. Page 1 of	3. Ernergency Respor	se Phone	4. Waste	Tracking Nu	mber		
	3.0	WASTE MANIFEST  Generator's Name and Maili	ng Address /			Generator's Site Addre	ess (if differen	t than mailing add	ress)			
		Generator's Name and Mailing PLL Long 18 1871 Cinto	roperty									
	Ger	5 tedman.	-303-1411		Ĭ							
	6. T	nerator's Phone:	ne	**************************************				U.S. EPA ID	) Number	1521	100-15-15	
	7. T	rar sporter 2 Company Nam	ne					U.S. EPA ID	Number			
	8. C	Designated Facility Name an	nd Site Address		37K6-5			U.S. EPA ID	) Number			
	E	ES & J ENTERF		E NC 28318				SR0600	0035			
	L	ility's Phone: (910) 5		-, 110 20010								
		9. Waste Shipping Name	e and Description			10. Cor	ntainers Type	11. Total Quantity	12. Unit Wt./Vol.			
Ť		1.	- 0 -	- 0	1-6-11		1,700		1.			
GENERATOR		PERCEDI		SOIL BA	cich i)	18.	53	JUNS.	LBS.	370	60	)
GENE		2.	3 7770									À
		3.										
		4.										
	13	Special Handling Instruction	s and Additional Information				<u> </u>	Landin				
		openia i na ioni g i ioni conor.										
		20.0										
		marked and labeled/placard	'S CERTIFICATION: I hereby de ed, and are in all respects in prop	clare that the contents of the condition for transport a	his consignment are ecording to applicat	fully and accurately de ole international and nat	scribed above ional governm	by the proper shi ental regulations.	pping name,	and are classified	, packaged	,
V	Gen	egator's/Offeror's Printed/Ty	caturage.	At FORNO	Dot Sign	And the second	70	1		Month	Day	Year
INTIL		International Shipments	Import to U.S.		Export from U.		entry/exit:					
-		nsporter Signature (for expor Fransporter Acknowledgmer		-A		Date lea	ving U.S.:					
TRANSPORTER	Tran	sporter 1 Printed/Typed Nar	me		Sign	D.C.C	00	Om /		Month	Day	Year
ANSI	Tran	sporter 2 Printed Typed Na	me		Sign	ature				Month	Day	Year
F	17. [	Discrepancy	780 - 18 - 10 - 10 - 10 - 10 - 10 - 10 -	p)		<u> </u>		- 1				
IT	17a.	Discrepancy Indication Spa	ce Quantity	Туре	Taxes any con-	Residue		Partial Re	jection		ull Rejectio	on
	73732					Manifest Reference	Number:				V2	10000
引	17b.	Alternate Facility (or General	ator)	35		П		U.S. EPA ID	Number			
FAC		lity's Phone:							- 120			
DESIGNATED FACILITY	17c.	Signature of Alternate Facili	ny (or Generator)		1					Month	Day	Year
ESIG								į				
î										, OH		
		Designated Facility Owner of ed/Typed Name	r Operator: Certification of receipt	of materials covered by th		mburd &				Month	Day	Year
V			Wms.			Keck C	m			6	17	11



A S	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Nur	nber
		100 Ed. 19		Generator's Site Address (if differen		
	7. Transporter 2 Company Nar	пе			U.S. EPA ID Number	
	8. Designated Facility Name as ES&JENTERI 1555 HOLLAND Facilitys (*hone: (910) 5	PRISES, INC. RD AUTRYVILLE,	NC 28318		U.S. EPA ID Number SR0600035	
1	Facility's Phone: (810) 3			10. Containers	11. Total 12. Unit	
ATOR	1. A CHOOLEY	WAA GIO	Buckfill	No. Type	Quantity Wt./vol.  LBS.	
— GENERATOR	2.			1418	IONS	
	3.	2				
	13. Special Handling Instruction	* ,,		# A		
	14. GENERATOR'S/OFFEROR marked and labeled/placard Generator's/Offgfor's Printed/Ty		are that the contents of this consignment are condition for transport according to applications	fully and accurately described above the international and national governments	by the proper shipping name, nental regulations.	and are classified, packaged,  Month Day Year
INT'L	Ben /3h aa 15. International Shipments	:CATUN age	nt far [V COST   Export from U	S. Port of entry/exit:		6161
-	Transporter Signature (for expo 16. Transporter Acknowledgme	orts only): ent of Receipt of Materials		Date leaving U.S.:		
TRANSPORTER	Transporter 1 Printed/Typed Na Transporter 2 Printed/Typed Na	CulbrE	HH 13	nature Carte	Make	Month Day Year   4   4   4     Month Day Year
	17. Discrepancy 17a. Discrepancy Indication Sp	ace Quantity	Туре	Residue  Manifest Reference Number:	Partial Rejection	Full Rejection
X TY	17b. Alternate Facility (or Gene	rator)			U.S. EPA ID Number	
ED FA(	Facility's Phone: 17c. Signature of Alternate Faci	ility (or Generator)				Month Day Year
— DESIGNATED FACILITY			1			
	Printed/Typed Name		materials covered by the manifest except Sign	as noted in 10m 17a		Month Day Year
V	VIICK L	JMS.		I were wh	me	6/6/11

4	NON-HAZARDOUS  1. Generator ID Number WASTE MANIFEST	2. Page 1 of	3. Emergency Respons	e Phone	4. Waste	Tracking Nun	nber
	5. Generator's Name and Mailing Address		Generator's Site Addres	s (if different	than mailing add	ress)	
	PL Long Prof.		A				
	6871. CKINTON FO		$\Delta$	$\wedge$			
	Generally strong Ola - 302-1411	i i	ATT	5 Y			
	Genefator's Phorie: 010 - 303 - 11		······································		U.S. EPA ID	Number	
	6. Tan sporter i Company Name.				U.S. EFAIL	Tearibei	
	E-> 40				U.O. FOA IF	Number	
	7. Transporter 2 Company Name				U.S. EPA ID	Number	
					1		
	8. Designated Facility Name and Site Address				U.S. EPA ID		
П	E Š & J ENTERPRISES, INC.				SR0600	1035	
	1555 HOLLAND RD AUTRYVILLE, NC 28318						
	Facility's Prione: (910) 567-6138				1		
		***	10. Conta	ainers	11. Total	12. Unit	
	9. Waste Shipping Name and Description		No.	Туре	Quantity	Wt_/Vol.	
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5	1. Back	111				LBS.	
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	NEGERIA STATE PROSTER STATE PR		150 6			<b>1</b> 5	
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	4.					No.	
						2013	
			- 52			To the state of th	
	13. Special Handling Instructions and Additional Information			584			
ш							
Ш							
					L. H		and are almost the discount
	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this marked and labeled/placarded, and are in all respects in proper condition for transport according to the content of the content o	consignment are r ording to applicable	ully and accurately desi international and natio	cribed above Inal odvernm	by the proper struental regulations.	pping name, a	ind are classified, packaged,
	Committee of Maria (Turner Norma	Signa	ture	1	11-11		Month Day Yeare
W	Kon Hold (ATIM) mount for (1)	(UZY)	Ku	M	1/1/-		Month 10% Yar
	15 International Shirments	77	1	/	U		101011
F	import to U.S.	Export from U.S					
-	Transporter Signature (for exports only):  16. Transporter Acknowledgment of Receipt of Materials		Date leav	ang U.S.:			
TRANSPORTER	Transporter 1 Printed/Typed Name	Sinns	ASS I		211	20	Month Day Year
R	Mack LulbretH		11-1	1	//	A)	16 6 11
8	MACK LUIDRE //T	1//	i aust	CAU	min	76	
¥	Transporter 2 Printed/Typed Name	Signa	me				Month Day Year
E							
A	17. Discrepancy						
	17a. Discrepancy Indication Space Quantity Type		Residue		Partial Re	iection	Full Rejection
						,	
			Manifest Reference	Number:			
≥	17b. Alternate Facility (or Generator)				U.S. EPA ID	Number	
員							
FACILITY	Facility's Phone:				Ĭ .		
8	17c. Signature of Alternate Facility (or Generator)		186643 18665 18			100	Month Day Year
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S		a de la companio		(2) (2) (1) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3			
DESIGNATED							
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		A CAROLINA					
	18. Designated Excility Owner or Operator: Certification of receipt of materials covered by the n						Mark 5
	Printed/Typed Marne	Signa	Kich	1	1_		Month Day Year
V	Rick Lams		uen.	al	me		16/6/11

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4			W455 - 15915				
	NON-HAZARDOUS 1. General VVASTE MANIFEST	ttor ID Number	2. Page 1 of	3. Emergency Response	Phone 4.	Waste Tracking Nu	nber
	5. Generator's Name and Mailing Address	0-	130 H2 550 H 1200 H 1	Generator's Site Address	(if different than mail	ing address)	
	Lan Cunton	Rd.		$\sim \Lambda \Lambda$	1 —		
	o Disamon A	اندر کے	· .	SAV	F		
	Generators Phone: 9/0-30	3-141			, 0		
	63. Transporter 1 Company Name				U.S.	EPA ID Number	
	ESAU						
	7. Transporter 2 Company Name				U.S.	EPA ID Number	
	8s. Designated Facility Name and Site Addre	re e		Seen		CDA ID AL	
H	ES&JENTERPRISES	S. INC.				EPA ID Number <b>0600035</b>	
	1555 HOLLAND RD A	UTRYVILLE, NC 2831	8		OI (	0000000	
П	Facility's Phone: (910) 567-6136	В			1		
				10. Contain	ers 11. 1	Total 12. Unit	
П	9. Waste Shipping Name and Descrip	ption		No.	Type Qua	1	
Ľ	1		0 (1)				
GENERATOR		SOIL	Back Fill	100	سالما	LBS.	
				18.6	3 Tox	15	36,720
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П	4.					E L	
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	13. Special Handling Instructions and Addition	nal Information	Trongwin		E-21(8)		Senenas <u>esternas partidos (</u>
	Al .						
Н							
П							
	14. GENERATOR'S/OFFEROR'S CERTIFIC	ATION: I hereby declare that the conto	nts of this consignment are	fully and accurately describ	ed above by the pro	per shipping name, a	nd are classified, packaged.
	i manked and labeled/blacarded, and are it	all respects in ninner condition for tra-	desilana ot palimaces troas	le international and national	governmental requi	ations.	
V	Generator's/Offerth's Printed/Typed Name  Sen 13 h Ga Car  15 . International Shipments	ATIWO-DUITE	1 NICON	THE X	tense		Month Day Year
-	15 International Shipments	114, 29011	7044		dr		0/6/1
NT.L	Importer Signature (for exports only):	port to U.S.	Export from U.S				
	16. Transporter Acknowledgment of Receipt of	of Materials	71900 - 1000 - 1	Date leaving	v.ə		
TRANSPORTER	Trænsporter 1 Printed/Typed Name	-	Signa	ature	_	-	Month Day Year
SP	10. C. Od	Dn	4	). C. C.	Lom	ر	161611
M	Trainsporter 2 Printed/Typed Name		Signa	iture	-11 -12 -12 -12 -12 -12	200	Month Day Year
E							
A	17. Discrepancy						
	17a. Discrepancy Indication Space	Quantity	Туре	Residue	Pa	tial Rejection	Full Rejection
Υ -	17lb. Alternate Facility (or Generator)		~~~ · · · · · · · · · · · · · · · · · ·	Manifest Reference Num		PA ID Number	2 15 AV
5	,, (,				0.0. 0	FA ID Nulliber	
FAC	Facility's Phone:						
60	17c:. Signature of Alternate Facility (or Genera	ntor)	15.4				Month Day Year
MAT	No. 300 and 500 to 2000						
DESIGNATED FACILITY	10000000000000000000000000000000000000						
	18. Designated Famility Owner or Operator: Ce	ertification of receipt of materials covere					
	Primted/Typed Name		Signa	Rich L	1	(A4)	Month Day Year
V	Kick Wm	5,		uch la	me		66/1



a .	NON HAZAPPONS 1. Generator ID Number	2 Page 1 of 3	Emergency Respons	o Dhono	A Waste	Fracking Num	har	
1								
	5. Generator's Name and Marking Address  5. Generator's Name and Marking Address  Generator's Prione: 923-140	Ger	nerator's Site Addres	s (if different t				
	6. Transporter 2 Company Name  7. Transporter 2 Company Name				U.S. EPA ID			
	Transporter 2 Company Name     B. Designated Facility K: yne and Site Address				U.S. EPA ID			
ŀ	E S & J ENTERPRISES, INC. 1555 HOLLAND RD AUTRYVILLE, NC 28318 Facility's Phone: (910) 56.7-6138				SR0600	0035		
,	9. Waste Shipping Name and Description		10. Conta	ainers Type	11. Total Quantity	12. Unit Wt./Vol.		
GENERATOR -	1. SOIL B	cet Fi-11				LBS.	To y Aug.	<b>C</b>
- GENE	2.							
	3.							
Contraction (A)								
	13. Special Handling Instructions and Additional Information							
	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this marked and labeled/placarded, and are in all respects in proper condition for transport accounts.	consignment are fully ording to applicable in	and accurately desc ternational and natio	ribed above t nal governme	the proper shi	pping name, ar		
¥	Sementor's Offerods Trinted/Typed Name  Sen Hish bac CATUN eyest for N  15. International Shipments	Vapor Signatur	B	1	30		161/6	1
F	Transporter Signature (for exports only):	Export from U.S.	Port of en Date leavi					
RTER	16. Transporter Acknowledgment of Receipt of Materials  Transporter 1 Printed/Typed Name	Signatus	11	1	11	-#	Month Day	Year
TRANSPORTER	Transporter 2 Printed/Typed Name	Signatur	sen (	M	Me		Month Day	Year
A	17. Discrepancy 17a. Discrepancy Indication Space		П	1000	П		П	
	Quantity Type	) (3)	Residue  Manifest Reference N	lumber:	Partial Re	jection	∟ Fu¶ Reje	ction
CILITY	17b. Alternate Facility (or Generator)				U.S. EPA ID	Number		
TED FA	Facility's Phone: 17c. Signature of Alternate Facility (or Generator)						Month Day	Year
- DESIGNATED FACILITY								
	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the	manifest except as no	ted to them 17a			77 <u>. a </u>		
¥	Printed Name  NICL LIMS	Signatur	wik .	Lah	no		Month Day	Year
							The second secon	

NORTH CAROLINA PUBLIC WEIGHMASTER LICENSE EXPRES JUNE 38.

17,35 75,451

11:41:04 06-08-11 Tare# 1

59960 1b 25260 1b KP 34700 1b Gross Tare Xet

(3,12 Parc.

NORTH CAROLINA

51500 lb 25260 lb KP 26240 lb 17:35:25 (6-08-11 Tare# 1 Gross Tare Wet

KING LA. KING USO

MEASUREMENT PROFESSIONALS SINCE 1939

P.O. Box 21225 • 2820 High Point Road • Greensboro, NC 27420-1225 Ph; (336) 292-0511 • Fax: (336) 294-9864

60820 1b 25840 1b KP 34980 1b 10:56:12 06-08-11 Tare# 2 Gross 60820 lb Tare 25840 lb KP Net 34980 lb

KING JA KING

ISO

P.O. Box 21225 • 2620 High Point Road • Greensboro, NC 27420-1225 Ph: (336) 292-0511 • Fax: (336) 294-9664

MEASUREMENT PROFESSIONALS SINCE 1939

NORTH CAROLINA

18.63 Tours.

2 63100 1b 25840 1b KP 37260 1b 12:00:08 06-08-11 Tare# 2 Gross 63100 1b Tare 25840 1b KP Net 37260 1b

KING J.A. KING

150 MEASUREMENT PROFESSIONALS SINCE 1939

P.O. Box 21225 • 2620 High Point Road • Greansboro, NC 27420-1225 Ph: (336) 292-0511 • Fax: (336) 294-9664

KING J.A. KING IISO

17,49 75,45,

MEASUREMENT PROFESSIONALS SINCE 1939

P.O. Box 21225 • 2620 High Point Road • Greensboro, NC 27420-1225 Ph; (339) 282-0511 • Fax: (336) 284-9664

PUBLIC WEIGHWASTER NORTH CAROLINA

(5,87 Taki

57580 1b 25840 1b KP 31740 1b

09:52:35 06-08-11 Tare# 2 Gross Tare Net

LICENSE EXPIRES JUNES NORTH CAROLINA

57060 15 KP 25260 15 KP 31800 15 10:50:14 06-08-11 Tare# 1 Gross 57060 lb: Tare 25260 lb KP Net 31800 lb

15,90 Posts.

KING J.A. KING USO

P.O. Box 21225 - 2620 High Point Road - Greensboro, NC 27420-1225 Ph: (336) 292-0511 • Fax: (336) 294-9664

MEASUREMENT PROFESSIONALS SINCE 1939

15.90 Fous

57060 1b 25260 1b KP 31800 1b 10:00:52 06-08-11 Tare# 1 Gross 57060 lb Tare 25260 lb KP Net 31800 lb

KING J.A. KING

MEASUREMENT PROFESSIONALS SINCE 1939

P.O. Box 21225 • 2820 High Point Road • Greensboro, NC 27420-1225 Ph; (336) 282-0511 • Fax; (336) 284-9884

KING CA KING ISO

MEASUREMENT PROFESSIONALS SINCE 1939

P.O. Box 21225 • 2820 High Point Road • Greensboro, NC 27420-1225 Ph; (338) 292-0511 • Fax: (336) 294-9664

**FORTH CAROLINA PUBLIC WEIGHINAST** 

8 48 76WS

62220 1b 25260 1b KP 36960 1b 09:05:40 06-08-11 Tare# 1 Gross 62220 lb Tare 25260 lb KP Net 36960 lb

KING J.A. KING ISO

MEASUREMENT PROFESSIONALS SINCE 1939

P.O. Box 21225 • 2820 High Point Road • Greensboro, NC 27420-1225 Ph. (336) 282-0511 • Fax: (336) 284-9864

NORTH CAROLINA

11:43:19 06-13-11 Tare# 202 Gross 77040 lb Tare 33740 lb KP Net 43300 lb

NORTH CAROLINA

10:27:57 Tare# 2 Gross 70 Tare Net 70

18.001 TOUS

KING J.A. KING

37220

10:40:08 06-08-11 Tare# 202 Gross 33740 lb Tare 00 lb KP Net: 33740 lb

P.O. Box 21225 • 2820 High Point Road • Greensboro, NC 27420-1225 Ph: (336) 292-0511 • Fax: (336) 294-9664

15.8 Johns

11:05:48 06-09-11 Tare# 202 Gross 65360 lb Tare 33740 lb KP Net 31620 lb

MEASUREMENT PROFESSIONALS SINCE 1939 P.O. Böx 21226 • 2820 High Point Road • Greansboro, NC 27420-1225 Ph; (338) 282-0511 • Fax: (338) 284-9684

MEASUREMENT PROFESSIONALS SINCE 1939

MEASUREMENT PROFESSIONALS SINCE 1939 P.O. Box 21225 - 2820 High Point Road - Greensboro, NC 27420-1225 Phr. (336) 282-0511 - Fax: (336) 284-9664

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 20, 2011
RICKY L. WILLIAMS
27363
INVACIO UNLESS SIGNED

14. 25 Touts.

08:06:36 06-08-11 Tare# 1. Gross 53760 lb Tare 25260 lb KP Net 28500 lb



MEASUREMENT PROFESSIONALS SINCE 1939

P.O. Box 21225 • 2620 High Point Road • Greensboro, NC 27420-1225 Ph: (336) 292-0511 • Fax: (336) 294-9664 NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2011
RICEY.L. WILLIAMS
27363
INVALID UNLESS SIGNED

min in which is in it was it is

18.53 Tons,

08:29:36 06-16-11 Tare# 2 Gross 62900 lb Tare 25840 lb KP Net 37060 lb

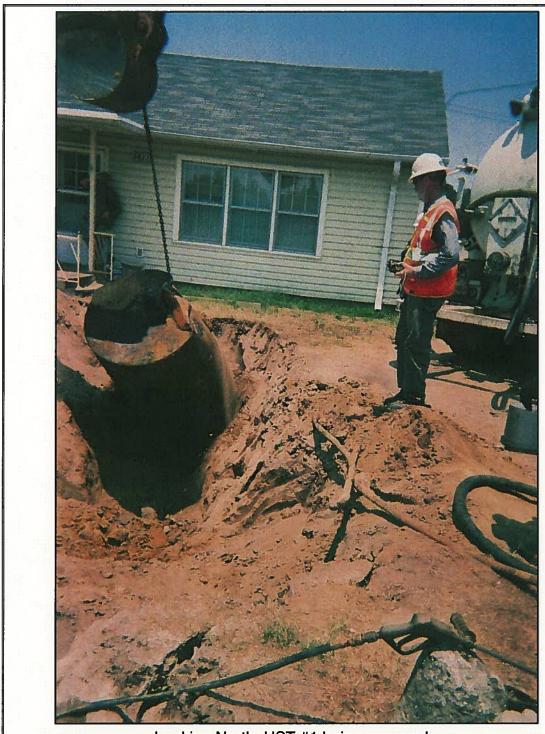


#### MEASUREMENT PROFESSIONALS SINCE 1939

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# APPENDIX D PHOTOGRAPHS



Looking North, UST #1 being removed.



UST #2 and UST #3 loaded for transportation and disposal.



Looking East across UST #2 and UST #3 excavation.



Looking South, UST #4 removed from excavation (in background).



Looking Southeast, UST #4 and UST #5 (in foreground) removed from excavation (in background on right).



Looking East, Dispenser and line(s) excavation.



Looking North, Dispenser and line(s) excavation.



Looking South across UST #1, UST #2, and UST #3 excavation



Looking North across UST #3. UST #2, and UST #1 excavation following removal of two (2) feet of unsuitable "pumping" fill and placing geotextile fabric.



Looking Northeast across site after final backfilling and grading.



Looking North across site after final backfilling and grading.

# **APPENDIX E**

LABORATORY ANALYTICAL REPORTS
AND
CHAIN-OF-CUSTODY DOCUMENTATION



#### **Laboratory Report of Analysis**

To:

Ben Ashba

**RICHARD CATLIN & ASSOCIATES** 

P.O. Box 10279 Wilmington, NC 28404

Report Number:

31101504

Client Project:

Parcel 81 B-Long Prop

Dear Ben Ashba,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Barbara A. Hager at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,

SGS North America Inc.

Bailara J. Hager

Digitally signed by Barbara A. Hager
DN: CN = Barbara A. Hager, C = US, O = SGS Wilmington, NC, OU

- Project Manager

Date: 2011.06.20 13:32:28 -04'00'

Barbara A. Hager Project Manager barbara.hager@sgs.com Date

Print Date: 06/20/2011



#### **Laboratory Qualiflers**

#### **Report Definitions**

DL Method, Instrument, or Estimated Detection Limit per Analytical Method

CL Control Limits for the recovery result of a parameter

LOQ Reporting Limit DF **Dilution Factor** 

**RPD** Relative Percent Difference

LCS(D) Laboratory Control Spike (Duplicate)

Matrix Spike (Duplicate) MS(D)

MB Method Blank

#### **Qualifier Definitions**

Recovery or RPD outside of control limits

В Analyte was detected in the Lab Method Blank at a level above the LOQ

U Undetected (Reported as ND or < LOD)

Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise

and detection limit

Amount detected is less than the Lower Method Calibration Limit Α

J Amount detected is between the Method Detection Limit and the Lower Calibration Limit

0 The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in

the sample may be biased high

Е Amount detected is greater than the Upper Calibration Limit

S The amount of analyte present has saturated the detector. This situation results in an

underestimation of the affected analyte(s)

Q Indicates the presence of a quantitative interference. This situation may result in an

underestimation of the affected analyte(s)

Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)

DPE Indicates the presence of a peak in the polychlorinated diphenylether channel that could

cause a false positive or an overestimation of the affected analyte(s)

TIC **Tentatively Identified Compound** 

**EMC** Estimated Maximum possible Concentration due to ion ratio failure

ND **Not Detected** 

K Result is estimated due to ion ratio failure in High Resolution PCB Analysis

Ρ RPD > 40% between results of dual columns

D Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration

range

M1 Mis-identified peak

M2 Software did not integrate peak

**M3** Incorrect baseline construction (i.e. not all of peak included; two peaks integrated as one)

Pattern integration required (i.e. DRO, GRO, PCB, Toxaphene and Technical Chlordane) M4

**M5** Other - Explained in case narrative

Results pages that include a value for "Solids (%)" have been adjusted for moisture content. Note

Print Date: 06/20/2011



# **Sample Summary**

Client Sample ID	Lab Sample ID	Collected	Received	<u>Matrix</u>
UST#1-W (6ft)	31101504001	06/08/2011 13:40	06/13/2011 09:25	Soil-Solid as dr
UST#1-E (6ft)	31101504002	06/08/2011 13:45	06/13/2011 09:25	Soil-Solid as dr
UST#1-N (6ft)	31101504003	06/08/2011 13:50	06/13/2011 09:25	Soil-Solid as dr
Disposal Comp	31101504004	06/09/2011 10:00	06/13/2011 09:25	Soil-Solid as dr
UST#4-N (6.5ft)	31101504005	06/09/2011 10:15	06/13/2011 09:25	Soil-Solid as dr
UST#4-S (6.5ft)	31101504006	06/09/2011 10:20	06/13/2011 09:25	Soil-Solid as dr
UST#5-N (6ft)	31101504007	06/09/2011 10:25	06/13/2011 09:25	Soil-Solid as dr
UST#5-S (6ft)	31101504008	06/09/2011 10:30	06/13/2011 09:25	Soil-Solid as dr
UST#1-SE (5ft)	31101504009	06/10/2011 07:30	06/13/2011 09:25	Soil-Solid as dr
UST#2-E (5ft)	31101504010	06/10/2011 07:35	06/13/2011 09:25	Soil-Solid as dr
UST#3-E (5ft)	31101504011	06/10/2011 07:40	06/13/2011 09:25	Soil-Solid as dr
UST#3-SE (5ft)	31101504012	06/10/2011 07:45	06/13/2011 09:25	Soil-Solid as dr
UST#3-S (5ft)	31101504013	06/10/2011 07:50	06/13/2011 09:25	Soil-Solid as dr
UST#3-SW (5ft)	31101504014	06/10/2011 07:55	06/13/2011 09:25	Soil-Solid as dr
UST#3-W and Line (4ft)	31101504015	06/10/2011 08:00	06/13/2011 09:25	Soil-Solid as dr
UST#2-W and Line (4ft)	31101504016	06/10/2011 08:05	06/13/2011 09:25	Soil-Solid as dr
UST#2-NW (5ft)	31101504017	06/10/2011 08:10	06/13/2011 09:25	Soil-Solid as dr
UST#1-SW (5ft)	31101504018	06/10/2011 08:15	06/13/2011 09:25	Soil-Solid as dr



#### Results of UST#1-W (6ft)

Client Sample ID: UST#1-W (6ft)

Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504001-A Lab Project ID: 31101504 Collection Date: 06/08/2011 13:40 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 91

#### Results by SW-846 8015C GRO

<u>Parameter</u>	Result	Qual	LOQ/CL	Units	DF
Gasoline Range Organics (GRO)	ND		3.39	mg/kg	1
Surrogates					
4-Bromofluorobenzene	96.1		70.0-130	%	1

#### **Batch Information**

Analytical Batch: VGC1255

Analytical Method: SW-846 8015C GRO

Instrument: GC4 Analyst: LMC

Analytical Date/Time: 06/14/2011 16:44

Prep Batch: VXX1646

Prep Method: SW-846 5035 Prep Date/Time: 06/14/2011 11:53

Prep Initial Wt./Vol.: 6.51 g Prep Extract Vol: 5 mL

Print Date: 06/20/2011



## Results of UST#1-W (6ft)

Client Sample ID: UST#1-W (6ft)

Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504001-C Lab Project ID: 31101504 Collection Date: 06/08/2011 13:40 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 91

#### Results by SW-846 8015C DRO

<u>Parameter</u>	Result	Qual	LOQ/CL	<u>Units</u>	DF
Diesel Range Organics (DRO)	ND		6.78	mg/kg	1
Surrogates					
o-Terphenyl	74.2		40.0-140	%	1

#### **Batch Information**

Analytical Batch: XGC1304

Analytical Method: SW-846 8015C DRO

Instrument: GC6 Analyst: DTF

Analytical Date/Time: 06/16/2011 13:30

Prep Batch: XXX1437

Prep Method: **SW-846 3541** Prep Date/Time: **06/15/2011 09:23** 

Prep Initial Wt./Vol.: 32.49 g Prep Extract Vol: 10 mL

Print Date: 06/20/2011



#### Results of UST#1-E (6ft)

Client Sample ID: UST#1-E (6ft)

Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504002-A

Lab Project ID: 31101504

Collection Date: 06/08/2011 13:45 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 85

#### Results by SW-846 8015C GRO

<u>Parameter</u>	Result	Qual	LOQ/CL	<u>Units</u>	DF
Gasoline Range Organics (GRO)	ND		3.43	mg/kg	1
Surrogates					
4-Bromofluorobenzene	97.7		70.0-130	%	1

# **Batch Information**

Analytical Batch: VGC1255

Analytical Method: SW-846 8015C GRO

Instrument: GC4
Analyst: LMC

Analytical Date/Time: 06/14/2011 17:12

Prep Batch: VXX1646
Prep Method: SW-846 5035
Prep Date/Time: 06/14/2011 11:53

Prep Initial Wt./Vol.: 6.88 g Prep Extract Vol: 5 mL

Print Date: 06/20/2011



## Results of UST#1-E (6ft)

Client Sample ID: UST#1-E (6ft)

Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504002-C Lab Project ID: 31101504 Collection Date: 06/08/2011 13:45 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 85

#### Results by SW-846 8015C DRO

<u>Parameter</u>	Result	Qual	LOQ/CL	<u>Units</u>	DF
Diesel Range Organics (DRO	D) ND		7.39	mg/kg	1
Surrogates					
o-Terphenyl	78.1		40.0-140	%	1

#### **Batch Information**

Analytical Batch: XGC1304

Analytical Method: SW-846 8015C DRO

Instrument: GC6 Analyst: DTF

Analytical Date/Time: 06/16/2011 13:59

Prep Batch: XXX1437 Prep Method: SW-846 3541

Prep Date/Time: 06/15/2011 09:23
Prep Initial Wt./Vol.: 31.89 g
Prep Extract Vol: 10 mL

Print Date: 06/20/2011 N.C. Certification # 481



# Results of UST#1-N (6ft)

Client Sample ID: UST#1-N (6ft)

Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504003-A Lab Project ID: 31101504 Collection Date: 06/08/2011 13:50 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 94

#### Results by SW-846 8015C GRO

Parameter	Result	Qual	LOQ/CL	Units	DF
Gasoline Range Organics (GRO)	ND		3.39	mg/kg	1
Surrogates					
4-Bromofluorobenzene	98.1		70.0-130	%	1

#### **Batch Information**

Analytical Batch: VGC1255

Analytical Method: SW-846 8015C GRO

Instrument: GC4
Analyst: LMC

Analytical Date/Time: 06/14/2011 17:39

Prep Batch: VXX1646

Prep Method: **SW-846 5035** Prep Date/Time: **06/14/2011 11:53** 

Prep Initial Wt./Vol.: 6.31 g Prep Extract Vol: 5 mL

Print Date: 06/20/2011



## Results of UST#1-N (6ft)

Client Sample ID: UST#1-N (6ft)

Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504003-C Lab Project ID: 31101504 Collection Date: 06/08/2011 13:50 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 94

## Results by SW-846 8015C DRO

<u>Parameter</u> Diesel Range Organics (DRO)	<u>Result</u> ND	Qual	LOQ/CL 6.55	<u>Units</u> mg/kg	<u>DF</u> 1
Surrogates					
o-Terphenyl	83.1		40.0-140	%	1

#### **Batch Information**

Analytical Batch: XGC1304

Analytical Method: SW-846 8015C DRO

Instrument: GC6
Analyst: DTF

Analytical Date/Time: 06/16/2011 14:27

Prep Batch: XXX1437
Prep Method: SW-846 3541
Prep Date/Time: 06/15/2011 09:23
Prep Initial Wt./Vol.: 32.63 g
Prep Extract Vol: 10 mL

Print Date: 06/20/2011



#### Results of Disposal Comp

Client Sample ID: Disposal Comp Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504004-A Lab Project ID: 31101504

Collection Date: 06/09/2011 10:00 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 87

#### Results by SW-846 8015C GRO

Deventer	Danish.	Overl	1.00/01		
<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	LOQ/CL	<u>Units</u>	<u>DF</u>
Gasoline Range Organics (GRO)	12.9		3.28	mg/kg	1
Surrogates					
4-Bromofluorobenzene	101		70.0-130	%	1

#### **Batch Information**

Analytical Batch: VGC1255

Analytical Method: SW-846 8015C GRO

Instrument: GC4 Analyst: LMC

Analytical Date/Time: 06/14/2011 18:06

Prep Batch: VXX1646 Prep Method: SW-846 5035 Prep Date/Time: 06/14/2011 11:53

Prep Initial Wt./Vol.: 7 g Prep Extract Vol: 5 mL

Print Date: 06/20/2011



#### Results of Disposal Comp

Client Sample ID: **Disposal Comp**Client Project ID: **Parcel 81 B-Long Prop** 

Lab Sample ID: 31101504004-C Lab Project ID: 31101504 Collection Date: 06/09/2011 10:00 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 87

#### Results by SW-846 8015C DRO

<u>Parameter</u>	Result	Qual	LOQ/CL	<u>Units</u>	<u>DF</u>
Diesel Range Organics (DRO)	35.6		7.10	mg/kg	1
Surrogates					
o-Terphenyl	80.3		40.0-140	%	1

#### **Batch Information**

Analytical Batch: XGC1304

Analytical Method: SW-846 8015C DRO

Instrument: GC6
Analyst: DTF

Analytical Date/Time: 06/16/2011 14:55

Prep Batch: XXX1437
Prep Method: SW-846 3541
Prep Date/Time: 06/15/2011 09:23
Prep Initial Wt./Vol.: 32.31 g

Prep Extract Vol: 10 mL

Print Date: 06/20/2011



#### Results of UST#4-N (6.5ft)

Client Sample ID: **UST#4-N (6.5ft)**Client Project ID: **Parcel 81 B-Long Prop** 

Lab Sample ID: 31101504005-A Lab Project ID: 31101504 Collection Date: 06/09/2011 10:15 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 88

#### Results by SW-846 8015C GRO

Parameter Gasoline Range Organics (GRO)	<u>Result</u> ND	Qual	<u>LOQ/CL</u> 3.06	<u>Units</u> mg/kg	<u>DF</u> 1
Surrogates					
4-Bromofluorobenzene	97.6		70.0-130	%	1

#### **Batch Information**

Analytical Batch: VGC1255

Analytical Method: SW-846 8015C GRO

Instrument: GC4 Analyst: LMC

Analytical Date/Time: 06/14/2011 18:33

Prep Batch: VXX1646

Prep Method: SW-846 5035
Prep Date/Time: 06/14/2011 11:53

Prep Initial Wt./Vol.: 7.46 g Prep Extract Vol: 5 mL

Print Date: 06/20/2011



#### Results of UST#4-N (6.5ft)

Client Sample ID: UST#4-N (6.5ft)
Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504005-C Lab Project ID: 31101504 Collection Date: 06/09/2011 10:15 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 88

#### Results by SW-846 8015C DRO

<u>Parameter</u>	Result	Qual	LOQ/CL	<u>Units</u>	<u>DF</u>
Diesel Range Organics (DRO)	37.3		6.97	mg/kg	1
Surrogates					
o-Terphenyl	78.8		40.0-140	%	1

#### **Batch Information**

Analytical Batch: XGC1304

Analytical Method: SW-846 8015C DRO

Instrument: GC6
Analyst: DTF

Analytical Date/Time: 06/16/2011 15:23

Prep Batch: XXX1437
Prep Method: SW-846 3541
Prep Date/Time: 06/15/2011 09:23

Prep Initial Wt./Vol.: 32.8 g Prep Extract Vol: 10 mL

Print Date: 06/20/2011



#### Results of UST#4-S (6.5ft)

Client Sample ID: **UST#4-S (6.5ft)**Client Project ID: **Parcel 81 B-Long Prop** 

Lab Sample ID: 31101504006-A Lab Project ID: 31101504 Collection Date: 06/09/2011 10:20 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 88

#### Results by SW-846 8015C GRO

Parameter	Result	Qual	LOQ/CL	<u>Units</u>	DF
Gasoline Range Organics (GRO)	4.54		3.06	mg/kg	1
Surrogates					
4-Bromofluorobenzene	99.1		70.0-130	%	1

#### **Batch Information**

Analytical Batch: VGC1255

Analytical Method: SW-846 8015C GRO

Instrument: GC4 Analyst: LMC

Analytical Date/Time: 06/14/2011 19:01

Prep Batch: VXX1646
Prep Method: SW-846 5035
Prep Date/Time: 06/14/2011 11:53
Prep Initial Wt./Vol.: 7.42 g

Prep Extract Vol: 5 mL



#### Results of UST#4-S (6.5ft)

Client Sample ID: UST#4-S (6.5ft)
Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504006-C Lab Project ID: 31101504 Collection Date: 06/09/2011 10:20 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 88

#### Results by SW-846 8015C DRO

<u>Parameter</u>	Result	Qual	LOQ/CL	<u>Units</u>	DF
Diesel Range Organics (DRO)	337		7.14	mg/kg	1
Surrogates					
o-Terphenyl	83.0		40.0-140	%	1

#### **Batch Information**

Analytical Batch: XGC1304

Analytical Method: SW-846 8015C DRO

Instrument: GC6
Analyst: DTF

Analytical Date/Time: 06/16/2011 15:51

Prep Batch: XXX1437
Prep Method: SW-846 3541
Prep Date/Time: 06/15/2011 09:23

Prep Initial Wt./Vol.: 31.79 g Prep Extract Vol: 10 mL

Print Date: 06/20/2011



#### Results of UST#5-N (6ft)

Client Sample ID: UST#5-N (6ft)

Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504007-A Lab Project ID: 31101504 Collection Date: 06/09/2011 10:25 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 89

#### Results by SW-846 8015C GRO

Parameter	Result	Qual	LOQ/CL	Units	DF
Gasoline Range Organics (GRO)	ND		3.65	mg/kg	1
Surrogates					
4-Bromofluorobenzene	99.0		70.0-130	%	1

#### **Batch Information**

Analytical Batch: VGC1255

Analytical Method: SW-846 8015C GRO

Instrument: GC4 Analyst: LMC

Analytical Date/Time: 06/14/2011 19:28

Prep Batch: VXX1646

Prep Method: **SW-846 5035** Prep Date/Time: **06/14/2011 11:53** 

Prep Initial Wt./Vol.: 6.12 g
Prep Extract Vol: 5 mL

Print Date: 06/20/2011



#### Results of UST#5-N (6ft)

Client Sample ID: UST#5-N (6ft)

Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504007-C Lab Project ID: 31101504 Collection Date: 06/09/2011 10:25 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 89

#### Results by SW-846 8015C DRO

Parameter	Popult	Ouel	LOQ/CL	Unite	DE
<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	LOQ/CL	<u>Units</u>	<u>DF</u>
Diesel Range Organics (DRO)	66.0		7.02	mg/kg	1
Surrogates					
o-Terphenyl	70.4		40.0-140	%	1

#### **Batch Information**

Analytical Batch: XGC1304

Analytical Method: SW-846 8015C DRO

Instrument: GC6
Analyst: DTF

Analytical Date/Time: 06/16/2011 16:19

Prep Batch: XXX1437 Prep Method: SW-846 3541

Prep Date/Time: 06/15/2011 09:23 Prep Initial Wt./Vol.: 31.84 g Prep Extract Vol: 10 mL

Print Date: 06/20/2011



#### Results of UST#5-S (6ft)

Client Sample ID: UST#5-S (6ft)

Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504008-C Lab Project ID: 31101504 Collection Date: 06/09/2011 10:30 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 87

#### Results by SW-846 8015C GRO

Parameter	Result	Qual	LOQ/CL	Units	DF
Gasoline Range Organics (GRO)	ND		3.64	mg/kg	1
Surrogates					
4-Bromofluorobenzene	96.2		70 0-130	%	1

#### **Batch Information**

Analytical Batch: VGC1255

Analytical Method: SW-846 8015C GRO

Instrument: GC4
Analyst: LMC

Analytical Date/Time: 06/14/2011 19:55

Prep Batch: VXX1646

Prep Method: **SW-846 5035** Prep Date/Time: **06/14/2011 11:53** 

Prep Initial Wt./Vol.: 6.3 g Prep Extract Vol: 5 mL

Print Date: 06/20/2011



#### Results of UST#5-S (6ft)

Client Sample ID: UST#5-S (6ft)

Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504008-C Lab Project ID: 31101504 Collection Date: 06/09/2011 10:30 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 87

#### Results by SW-846 8015C DRO

<u>Parameter</u>	Result	Qual	LOQ/CL	<u>Units</u>	DF
Diesel Range Organics (DRO)	8.32		7.09	mg/kg	1
Surrogates					
o-Terphenyl	74.7		40.0-140	%	1

#### **Batch Information**

Analytical Batch: XGC1304

Analytical Method: SW-846 8015C DRO

Instrument: GC6 Analyst: DTF

Analytical Date/Time: 06/16/2011 16:47

Prep Batch: XXX1437
Prep Method: SW-846 35

Prep Method: SW-846 3541
Prep Date/Time: 06/15/2011 09:23

Prep Initial Wt./Vol.: 32.3 g Prep Extract Vol: 10 mL

Print Date: 06/20/2011



#### Results of UST#1-SE (5ft)

Client Sample ID: UST#1-SE (5ft)
Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504009-A Lab Project ID: 31101504 Collection Date: 06/10/2011 07:30 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 91

#### Results by SW-846 8015C GRO

Parameter	Result	Qual	LOQ/CL	Units	DF
Gasoline Range Organics (GRO)	ND	<u>Quai</u>	3.71	mg/kg	1
Surrogates					
4-Bromofluorobenzene	98.6		70.0-130	%	1

#### **Batch Information**

Analytical Batch: VGC1255

Analytical Method: SW-846 8015C GRO

Instrument: GC4
Analyst: LMC

Analytical Date/Time: 06/14/2011 20:23

Prep Batch: VXX1646 Prep Method: SW-846 5035

Prep Date/Time: 06/14/2011 11:53 Prep Initial Wt./Vol.: 5.91 g

Prep Extract Vol: 5 mL

Print Date: 06/20/2011



#### Results of UST#1-SE (5ft)

Client Sample ID: UST#1-SE (5ft)
Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504009-C Lab Project ID: 31101504 Collection Date: 06/10/2011 07:30 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 91

#### Results by SW-846 8015C DRO

<u>Parameter</u>	Result	Qual	LOQ/CL	<u>Units</u>	DF
Diesel Range Organics (DRO)	ND		6.58	mg/kg	1
Surrogates					
o-Terphenyl	83.7		40.0-140	%	1

#### **Batch Information**

Analytical Batch: XGC1304

Analytical Method: SW-846 8015C DRO

Instrument: GC6 Analyst: DTF

Analytical Date/Time: 06/16/2011 17:16

Prep Batch: XXX1437

Prep Method: SW-846 3541
Prep Date/Time: 06/15/2011 09:23

Prep Initial Wt./Vol.: 33,36 g Prep Extract Vol: 10 mL

Print Date: 06/20/2011



#### Results of UST#2-E (5ft)

Client Sample ID: UST#2-E (5ft)

Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504010-A Lab Project ID: 31101504 Collection Date: 06/10/2011 07:35 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 89

#### Results by SW-846 8015C GRO

<u>Parameter</u>	Result	Qual	LOQ/CL	<u>Units</u>	DF
Gasoline Range Organics (GRO)	ND		3.47	mg/kg	1
Surrogates					
4-Bromofluorobenzene	97.6		70.0-130	%	1

#### **Batch Information**

Analytical Batch: VGC1255

Analytical Method: SW-846 8015C GRO

Instrument: GC4
Analyst: LMC

Analytical Date/Time: 06/14/2011 20:50

Prep Batch: VXX1646

Prep Method: SW-846 5035 Prep Date/Time: 06/14/2011 11:53

Prep Initial Wt./Vol.: 6.46 g Prep Extract Vol: 5 mL

Print Date: 06/20/2011



#### Results of UST#2-E (5ft)

Client Sample ID: UST#2-E (5ft)

Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504010-C Lab Project ID: 31101504 Collection Date: 06/10/2011 07:35 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 89

#### Results by SW-846 8015C DRO

<u>Parameter</u>	Result	Qual	LOQ/CL	<u>Units</u>	<u>DF</u>
Diesel Range Organics (DRO)	ND		6.71	mg/kg	1
Surrogates					
o-Terphenyl	78.5		40.0-140	%	1

#### Batch Information

Analytical Batch: XGC1304

Analytical Method: SW-846 8015C DRO

Instrument: GC6 Analyst: DTF

Analytical Date/Time: 06/16/2011 17:44

Prep Batch: XXX1437
Prep Method: SW-846 3541
Prep Date/Time: 06/15/2011 09:23
Prep Initial Wt./Vol.: 33.39 g
Prep Extract Vol: 10 mL

Print Date: 06/20/2011



#### Results of UST#3-E (5ft)

Client Sample ID: UST#3-E (5ft)

Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504011-A Lab Project ID: 31101504 Collection Date: 06/10/2011 07:40 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 88

#### Results by SW-846 8015C GRO

The same of the sa	A CONTRACTOR OF THE PARTY OF TH				
<u>Parameter</u>	Result	<u>Qual</u>	LOQ/CL	<u>Units</u>	<u>DF</u>
Gasoline Range Organics (GRO)	ND		3.40	mg/kg	1
Surrogates					
4-Bromofluorobenzene	97.9		70.0-130	%	1

#### **Batch Information**

Analytical Batch: VGC1255

Analytical Method: SW-846 8015C GRO

Instrument: GC4
Analyst: LMC

Analytical Date/Time: 06/14/2011 21:17

Prep Batch: VXX1646

Prep Method: SW-846 5035

Prep Date/Time: 06/14/2011 11:53

Prep Initial Wt./Vol.: 6.66 g Prep Extract Vol: 5 mL

Print Date: 06/20/2011 N.C. Certification # 481



#### Results of UST#3-E (5ft)

Client Sample ID: UST#3-E (5ft)

Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504011-C Lab Project ID: 31101504 Collection Date: 06/10/2011 07:40 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 88

#### Results by SW-846 8015C DRO

<u>Parameter</u>	Result	Qual	LOQ/CL	Units	DF
Diesel Range Organics (DRO)	23.9	First 4	6.68	mg/kg	1
Surrogates					
o-Terphenyl	90.9		40.0-140	%	1

#### **Batch Information**

Analytical Batch: XGC1304

Analytical Method: SW-846 8015C DRO

Instrument: GC6 Analyst: DTF

Analytical Date/Time: 06/16/2011 18:12

Prep Batch: XXX1437

Prep Method: **SW-846 3541** Prep Date/Time: **06/15/2011 09:23** 

Prep Initial Wt./Vol.: 33.9 g Prep Extract Vol: 10 mL

Print Date: 06/20/2011



#### Results of UST#3-SE (5ft)

Client Sample ID: UST#3-SE (5ft)
Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504012-A Lab Project ID: 31101504 Collection Date: 06/10/2011 07:45 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 91

#### Results by SW-846 8015C GRO

Parameter Gasoline Range Organics (GRO)	<u>Result</u> ND	Qual	<u>LOQ/CL</u> 3.58	<u>Units</u> mg/kg	<u>DF</u> 1
Surrogates 4-Bromofluorobenzene	96.4		70.0-130	%	1

#### **Batch Information**

Analytical Batch: VGC1255

Analytical Method: SW-846 8015C GRO

Instrument: GC4 Analyst: LMC

Analytical Date/Time: 06/14/2011 21:44

Prep Batch: VXX1646

Prep Method: SW-846 5035

Prep Date/Time: 06/14/2011 11:53

Prep Initial Wt./Vol.: 6.17 g Prep Extract Vol: 5 mL

Print Date: 06/20/2011



#### Results of UST#3-SE (5ft)

Client Sample ID: UST#3-SE (5ft)
Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504012-C Lab Project ID: 31101504 Collection Date: 06/10/2011 07:45 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 91

#### Results by SW-846 8015C DRO

<u>Parameter</u>	Result	Qual	LOQ/CL	<u>Units</u>	<u>DF</u>
Diesel Range Organics (DRO)	ND		6.69	mg/kg	1
Surrogates					
o-Terphenyl	80.4		40.0-140	%	1

#### **Batch Information**

Analytical Batch: XGC1304

Analytical Method: SW-846 8015C DRO

Instrument: GC6 Analyst: DTF

Analytical Date/Time: 06/16/2011 18:40

Prep Batch: XXX1437 Prep Method: SW-846 3541

Prep Date/Time: 06/15/2011 09:23
Prep Initial Wt./Vol.: 33.01 g
Prep Extract Vol: 10 mL

Print Date: 06/20/2011 N.C. Certification # 481



#### Results of UST#3-S (5ft)

Client Sample ID: UST#3-S (5ft)

Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504013-A Lab Project ID: 31101504 Collection Date: 06/10/2011 07:50 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 91

#### Results by SW-846 8015C GRO

Parameter	Result	Qual	LOQ/CL	Units	DF
Gasoline Range Organics (GRO)	ND	<u>Quai</u>	3.52	mg/kg	1
Surrogates					
4-Bromofluorobenzene	98.2		70.0-130	%	1

#### **Batch Information**

Analytical Batch: VGC1255

Analytical Method: SW-846 8015C GRO

Instrument: GC4
Analyst: LMC

Analytical Date/Time: 06/14/2011 22:11

Prep Batch: VXX1646

Prep Method: SW-846 5035

Prep Date/Time: 06/14/2011 11:53

Prep Initial Wt./Vol.: 6.21 g Prep Extract Vol: 5 mL

Print Date: 06/20/2011



#### Results of UST#3-S (5ft)

Client Sample ID: UST#3-S (5ft)
Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504013-C Lab Project ID: 31101504 Collection Date: 06/10/2011 07:50 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 91

#### Results by SW-846 8015C DRO

<u>Parameter</u>	Result	Qual	LOQ/CL	<u>Units</u>	DF
Diesel Range Organics (DRO)	ND		6.64	mg/kg	1
Surrogates					
o-Terphenyl	78.9		40.0-140	%	1

#### **Batch Information**

Analytical Batch: XGC1304

Analytical Method: SW-846 8015C DRO

Instrument: GC6
Analyst: DTF

Analytical Date/Time: 06/16/2011 19:08

Prep Batch: XXX1437
Prep Method: SW-846 3541
Prep Date/Time: 06/15/2011 09:23
Prep Initial Wt./Vol.: 32.92 g

Prep Extract Vol: 10 mL

Print Date: 06/20/2011



#### Results of UST#3-SW (5ft)

Client Sample ID: UST#3-SW (5ft)
Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504014-A Lab Project ID: 31101504 Collection Date: 06/10/2011 07:55 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 92

#### Results by SW-846 8015C GRO

<u>Parameter</u>	Result	Qual	LOQ/CL	<u>Units</u>	<u>DF</u>
Gasoline Range Organics (GRO)	ND		3.59	mg/kg	1
Surrogates					
4-Bromofluorobenzene	97.1		70.0-130	%	1

#### **Batch Information**

Analytical Batch: VGC1255

Analytical Method: SW-846 8015C GRO

Instrument: GC4 Analyst: LMC

Analytical Date/Time: 06/14/2011 22:39

Prep Batch: VXX1646

Prep Method: SW-846 5035

Prep Date/Time: 06/14/2011 11:53 Prep Initial Wt./Vol.: 6.03 g

Prep Extract Vol: 5 mL

Print Date: 06/20/2011



#### Results of UST#3-SW (5ft)

Client Sample ID: UST#3-SW (5ft)
Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504014-C Lab Project ID: 31101504 Collection Date: 06/10/2011 07:55 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 92

#### Results by SW-846 8015C DRO

Parameter Diesel Range Organics (DRO	Result  ND	Qual	<u>LOQ/CL</u> 7.16	<u>Units</u> mg/kg	<u>DF</u> 1
Surrogates	Vancium Uso lo 11				
o-Terphenyl	80.1		40.0-140	%	1

#### **Batch Information**

Analytical Batch: XGC1304

Analytical Method: SW-846 8015C DRO

Instrument: GC6 Analyst: DTF

Analytical Date/Time: 06/16/2011 19:36

Prep Batch: XXX1437
Prep Method: SW-846 3541
Prep Date/Time: 06/15/2011 09:23
Prep Initial Wt./Vol.: 30.2 g

Prep Extract Vol: 10 mL

Print Date: 06/20/2011



#### Results of UST#3-W and Line (4ft)

Client Sample ID: UST#3-W and Line (4ft)
Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504015-A Lab Project ID: 31101504 Collection Date: 06/10/2011 08:00 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 93

#### Results by SW-846 8015C GRO

<u>Parameter</u>	Result	Qual	LOQ/CL	Units	DF	
Gasoline Range Organics (GRO)	ND		3.79	mg/kg	1	
Surrogates						
4-Bromofluorobenzene	97.9		70.0-130	%	1	

#### Batch Information

Analytical Batch: VGC1255

Analytical Method: SW-846 8015C GRO

Instrument: GC4 Analyst: LMC

Analytical Date/Time: 06/14/2011 23:06

Prep Batch: VXX1646

Prep Method: SW-846 5035

Prep Date/Time: 06/14/2011 11:53

Prep Initial Wt./Vol.: 5.7 g Prep Extract Vol: 5 mL

Print Date: 06/20/2011



#### Results of UST#3-W and Line (4ft)

Client Sample ID: UST#3-W and Line (4ft)
Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504015-C Lab Project ID: 31101504 Collection Date: 06/10/2011 08:00 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 93

#### Results by SW-846 8015C DRO

<u>Parameter</u>	<u>Result</u>	Qual	LOQ/CL	<u>Units</u>	<u>DF</u>
Diesel Range Organics (DRO)	ND		6.83	mg/kg	1
Surrogates					
o-Terphenyl	85.9		40.0-140	%	1

#### **Batch Information**

Analytical Batch: XGC1304

Analytical Method: SW-846 8015C DRO

Instrument: GC6
Analyst: DTF

Analytical Date/Time: 06/16/2011 20:04

Prep Batch: XXX1437

Prep Method: **SW-846 3541** Prep Date/Time: **06/15/2011 09:23** 

Prep Initial Wt./Vol.: 31.64 g Prep Extract Vol: 10 mL

Print Date: 06/20/2011



#### Results of UST#2-W and Line (4ft)

Client Sample ID: UST#2-W and Line (4ft)
Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504016-A Lab Project ID: 31101504 Collection Date: 06/10/2011 08:05 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 95

#### Results by SW-846 8015C GRO

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<u>Parameter</u>	Result	Qual	LOQ/CL	<u>Units</u>	<u>DF</u>
Gasoline Range Organics (GRO)	4.60		4.07	mg/kg	1

#### Surrogates

4-Bromofluorobenzene 99.8 70.0-130 %

#### **Batch Information**

Analytical Batch: VGC1259

Analytical Method: SW-846 8015C GRO

Instrument: GC4 Analyst: LMC

Analytical Date/Time: 06/15/2011 18:41

Prep Batch: VXX1651

Prep Method: SW-846 5035

Prep Date/Time: 06/16/2011 15:15

Prep Initial Wt./Vol.: **5.2** g Prep Extract Vol: **5 mL** 

Print Date: 06/20/2011 N.C. Certification # 481



#### Results of UST#2-W and Line (4ft)

Client Sample ID: UST#2-W and Line (4ft)
Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504016-C Lab Project ID: 31101504 Collection Date: 06/10/2011 08:05 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 95

#### Results by SW-846 8015C DRO

<u>Parameter</u>	Result	Qual	LOQ/CL	<u>Units</u>	<u>DF</u>
Diesel Range Organics (DRO)	ND		6.82	mg/kg	1

#### Surrogates

o-Terphenyl 79.5 40.0-140 % 1

#### **Batch Information**

Analytical Batch: XGC1304

Analytical Method: SW-846 8015C DRO

Instrument: GC6
Analyst: DTF

Analytical Date/Time: 06/16/2011 20:32

Prep Batch: XXX1437

Prep Method: **SW-846 3541** Prep Date/Time: **06/15/2011 09:23** 

Prep Initial Wt./Vol.: 31.02 g

Prep Extract Vol: 10 mL

Print Date: 06/20/2011



#### Results of UST#2-NW (5ft)

Client Sample ID: UST#2-NW (5ft)
Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504017-A Lab Project ID: 31101504 Collection Date: 06/10/2011 08:10 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 94

#### Results by SW-846 8015C GRO

<u>Parameter</u>	Result	Qual	LOQ/CL	<u>Units</u>	<u>DF</u>
Gasoline Range Organics (GRO)	ND		3.88	mg/kg	1

#### **Surrogates**

4-Bromofluorobenzene 97.5 70.0-130 %

#### **Batch Information**

Analytical Batch: VGC1259

Analytical Method: SW-846 8015C GRO

Instrument: GC4 Analyst: LMC

Analytical Date/Time: 06/15/2011 19:08

Prep Batch: VXX1651

Prep Method: SW-846 5035 Prep Date/Time: 06/16/2011 15:15 Prep Initial Wt./Vol.: 5.51 g

Prep Extract Vol: 5 mL

Print Date: 06/20/2011



#### Results of UST#2-NW (5ft)

Client Sample ID: UST#2-NW (5ft)
Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504017-C Lab Project ID: 31101504 Collection Date: 06/10/2011 08:10 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 94

#### Results by SW-846 8015C DRO

<u>Parameter</u>	Result	Qual	LOQ/CL	<u>Units</u>	DF
Diesel Range Organics (DRO)	ND		6.94	mg/kg	1

#### Surrogates

o-Terphenyl 75.2 40.0-140 %

#### **Batch Information**

Analytical Batch: XGC1304

Analytical Method: SW-846 8015C DRO

Instrument: GC6
Analyst: DTF

Analytical Date/Time: 06/16/2011 21:00

Prep Batch: XXX1437

Prep Method: **SW-846 3541** Prep Date/Time: **06/15/2011 09:23** 

Prep Initial Wt./Vol.: 30.78 g Prep Extract Vol: 10 mL

Print Date: 06/20/2011 N.C. Certification # 481



#### Results of UST#1-SW (5ft)

Client Sample ID: UST#1-SW (5ft)
Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504018-B Lab Project ID: 31101504 Collection Date: 06/10/2011 08:15 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 91

#### Results by SW-846 8015C GRO

<u>Parameter</u>	Result	Qual	LOQ/CL	<u>Units</u>	DF
Gasoline Range Organics (GRO)	ND		3.62	mg/kg	1

#### Surrogates

4-Bromofluorobenzene 95.4 70.0-130 % 1

#### **Batch Information**

Analytical Batch: VGC1259

Analytical Method: SW-846 8015C GRO

Instrument: GC4 Analyst: LMC

Analytical Date/Time: 06/15/2011 19:35

Prep Batch: VXX1651

Prep Method: SW-846 5035 Prep Date/Time: 06/16/2011 15:15

Prep Initial Wt./Vol.: 6.07 g Prep Extract Vol: 5 mL

Print Date: 06/20/2011



#### Results of UST#1-SW (5ft)

Client Sample ID: UST#1-SW (5ft)
Client Project ID: Parcel 81 B-Long Prop

Lab Sample ID: 31101504018-C Lab Project ID: 31101504 Collection Date: 06/10/2011 08:15 Received Date: 06/13/2011 09:25 Matrix: Soil-Solid as dry weight

Solids (%): 91

#### Results by SW-846 8015C DRO

<u>Parameter</u>	Result	Qual	LOQ/CL	Units	DF
Diesel Range Organics (DRO)	8.14		6.78	mg/kg	1
Surrogates					
o-Terphenyl	75.4		40.0-140	%	1

#### **Batch Information**

Analytical Batch: XGC1304

Analytical Method: SW-846 8015C DRO

Instrument: GC6
Analyst: DTF

Analytical Date/Time: 06/16/2011 21:29

Prep Batch: XXX1437
Prep Method: SW-846 3541
Prep Date/Time: 06/15/2011 09:23

Prep Initial Wt./Vol.: 32.4 g Prep Extract Vol: 10 mL

Print Date: 06/20/2011

SGS North America Inc.



# **CHAIN OF CUSTODY RECORD** SGS North America Inc.

Locations Nationwide

MarylandNew YorkOhio AlaskaNew JerseyNorth Carolina

www.us.sgs.com

103645

Samples Sumples Floor Samples (ABSENT REMARKS Р Samples Received Cold? (Circle YES Sidenall Sidewal 101 Chain of Custody Seal: (Circle) BROKEN Д втр Temperature C: INTACT Special Deliverable Requirements: Date Needed Summany EDD Requested Tumaround Time: 311011504 Shipping Ticket No: Special Instructions: Shipping Carrier: (T) SGS Reference: SAMPLE ပ္မီဇ္လီ GRAB GRAB 0 + ben-ushbue astrosa. 2012 1600 501 MATRIX CONTACT: Ben Ashar @ CAPEGIENO: 9161 452-5 EC/ PROJECT: Parcel 818-Long Programme #: 12-23-34 Centriant Court Received By: Received By: Received By 1340 Received 1350 5101 1020 1345 5701 735 TIME 1030 730 6·8·1 11.6-0 06/13/1 OSE 6.13-11 0900 DATE Time Time Time Time P.O. NUMBER: FAXMO QUOTE #: UST #4-5 (6.5' Comp SAMPLE IDENTIFICATION Date Date UST #1- W(6' 15T #5-N (6') ·3) N - (サレSo UST#5-5/6' リンドギーーSF( 1N-H# 150 USTHA-E UST#1-F Ben OCHER Dispesal cted/Relinguished By:(1) 1001 Relinquished By: (2) Relinquished By: (3) Relinquished By: (4) CLIENT: ( LAB NO.

200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301 5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

White - Retained by Lab Pink - Retained by Client



# **CHAIN OF CUSTODY RECORD** SGS North America Inc.

Locations Nationwide

 New Jersey
 North Carolina Alaska

103644 Maryland
 New York
 Ohio

www.us.sgs.com

ABSENT Samples Received Cold? (Circle) YES NO REMARKS Chain of Custody Seal: (Circle) 9.2% BROKEN X STD Temperature C: INTACT Special Deliverable Requirements: Date Needed 40510118 Requested Turnaround Time: 2) 20 M TOWK Shipping Ticket No: Special Instructions Shipping Carrier: □ RUSH. (P) SGS Reference: 4 ₽ PMO PMO GRAB S ~ 3 MATRIX REAL CATEIN ENVIOL 45/16. CO. Received By: Received By: Received By PHONE NO: (9/10) 1452-586 755 PROJECT: PACE | 818-41-19-00 SIERES F. K-2303A 75 759 809 Sis TIME 746 6-10-11 10:9 060 DATE Time Time TIMe Time P.O. NUMBER: 6.1311 11/5/19 UST#3-W&Line(4' UST# 2-W & Che/y· Date Date SAMPLE IDENTIFICATION Date てののプ UST#3-5W ) る い UST#3-E UST #2 - NW UST# 3-5 CONTACT: (Sen/13hDa 1500x j UST # Colleged/Relinquished By:// Relinquished By: (3) Relinquished By: [Z] Relinquished By: (4) CLIENT LAB NO. ın

D 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301 A 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

White - Retained by Lab Pink - Retained by Client

## SGS North America Inc.

### Sample Receipt Checklist (SRC)

Client:	NCDO I - Catlin	_ Work Order No.:	31101504
1.	Shipped X Hand Delivered	Notes:	
2.	X COC Present on Receipt No COC Additional Transmittal Forms		
3.	Custody Tape on Container  X No Custody Tape		
4.	X Samples Intact Samples Broken / Leaking		
5.	X Chilled on Receipt Actual Temp.(s) in °C: Ambient on Receipt Walk-in on Ice; Coming down to temp. Received Outside of Temperature Specification		
6.	X Sufficient Sample Submitted Insufficient Sample Submitted		
7.	Chlorine absent HNO3 < 2 HCL < 2 Additional Preservatives verified (see notes)		
8.	X Received Within Holding Time Not Received Within Holding Time		
9.	X No Discrepancies Noted Discrepancies Noted		
10.	No Headspace present in VOC vials Headspace present in VOC vials >6mm		
Comments:	Received sample with no sample id labeled h	old not on COC.	
	Collection time on jar for UST#1-W (6ft) is 134	45, COC says 1340.	
-			
	Inspe	cted and Logged in by: JJ	04044
		Date:	Mon-6/13/11 00:00



#### **Laboratory Report of Analysis**

To: Ben Ashba

**RICHARD CATLIN & ASSOCIATES** 

P.O. Box 10279 Wilmington, NC 28404

Report Number: 31101576

Client Project: NCDOT Long Prop. Parcel 81B

Dear Ben Ashba,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Barbara A. Hager at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely, SGS North America Inc.

Bailara J. Hager

Digitally signed by Barbara A. Hager
DN: CN = Barbara A. Hager, C = US, O = SGS Wilmington, NC, OU =
Project Manager
Date: 2011.06.24 13:24:53 -04'00'

Barbara A. Hager Project Manager barbara.hager@sgs.com Date

Print Date: 06/24/2011



#### **Laboratory Qualifiers**

#### **Report Definitions**

DL Method, Instrument, or Estimated Detection Limit per Analytical Method

CL Control Limits for the recovery result of a parameter

LOQ Reporting Limit
DF Dilution Factor

RPD Relative Percent Difference

LCS(D) Laboratory Control Spike (Duplicate)

MS(D) Matrix Spike (Duplicate)

MB Method Blank

#### **Qualifier Definitions**

\* Recovery or RPD outside of control limits

B Analyte was detected in the Lab Method Blank at a level above the LOQ

U Undetected (Reported as ND or < LOD)

V Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit

A Amount detected is less than the Lower Method Calibration Limit

J Amount detected is between the Method Detection Limit and the Lower Calibration Limit

O The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high

Amount detected is greater than the Upper Calibration Limit

S The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)

Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)

I Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)

DPE Indicates the presence of a peak in the polychlorinated diphenylether channel that could

cause a false positive or an overestimation of the affected analyte(s)

TIC Tentatively Identified Compound

EMC Estimated Maximum possible Concentration due to ion ratio failure

ND Not Detected

E

Q

K Result is estimated due to ion ratio failure in High Resolution PCB Analysis

P RPD > 40% between results of dual columns

D Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range

M1 Mis-identified peak

M2 Software did not integrate peak

Incorrect baseline construction (i.e. not all of peak included; two peaks integrated as one)
 Pattern integration required (i.e. DRO, GRO, PCB, Toxaphene and Technical Chlordane)

M5 Other - Explained in case narrative

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

Print Date: 06/24/2011



#### **Sample Summary**

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
LINE-N (3ft)	31101576001	06/13/2011 11:15	06/17/2011 11:15	Soil-Solid as dr
LINE-S (3ft)	31101576002	06/13/2011 11:20	06/17/2011 11:15	Soil-Solid as dr
DISPENSERS (3ft)	31101576003	06/13/2011 11:25	06/17/2011 11:15	Soil-Solid as dr



#### Results of LINE-N (3ft)

Client Sample ID: LINE-N (3ft)

Client Project ID: NCDOT Long Prop. Parcel 81B

Lab Sample ID: 31101576001-A Lab Project ID: 31101576 Collection Date: 06/13/2011 11:15 Received Date: 06/17/2011 11:15 Matrix: Soil-Solid as dry weight

Solids (%): 88

#### Results by SW-846 8015C GRO

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
Gasoline Range Organics (GRO)	ND	10	3.23	mg/kg	1	06/20/2011 18:22
Surrogates						
4-Bromofluorobenzene	96.5		70.0-130	%	1	06/20/2011 18:22

#### **Batch Information**

Analytical Batch: VGC1269

Analytical Method: SW-846 8015C GRO

Instrument: GC4
Analyst: LMC

Analytical Date/Time: 06/20/2011 18:22

Prep Batch: **VXX1669**Prep Method: **SW-846 5035**Prep Date/Time: **06/20/2011 09:35** 

Prep Initial Wt./Vol.: 7.03 g Prep Extract Vol: 5 mL

Print Date: 06/24/2011



#### Results of LINE-N (3ft)

Client Sample ID: LINE-N (3ft)

Client Project ID: NCDOT Long Prop. Parcel 81B

Lab Sample ID: 31101576001-C Lab Project ID: 31101576 Collection Date: 06/13/2011 11:15 Received Date: 06/17/2011 11:15 Matrix: Soil-Solid as dry weight

Solids (%): 88

#### Results by SW-846 8015C DRO

<u>Parameter</u> Diesel Range Organics (DRO)	<u>Result</u> ND	Qual	<u>LOQ/CL</u> 6.98	<u>Units</u> mg/kg	<u>DF</u> 1	<u>Date Analyzed</u> 06/22/2011 22:46
Surrogates						
o-Terphenyl	70.9		40.0-140	%	1	06/22/2011 22:46

#### **Batch Information**

Analytical Batch: XGC1315

Analytical Method: SW-846 8015C DRO

Instrument: GC6 Analyst: DTF

Analytical Date/Time: 06/22/2011 22:46

Prep Batch: XXX1456

Prep Method: SW-846 3541

Prep Date/Time: 06/21/2011 09:33 Prep Initial Wt./Vol.: 32.52 g

Prep Extract Vol: 10 mL

Print Date: 06/24/2011



#### Results of LINE-S (3ft)

Client Sample ID: LINE-S (3ft)

Client Project ID: NCDOT Long Prop. Parcel 81B

Lab Sample ID: 31101576002-A Lab Project ID: 31101576 Collection Date: 06/13/2011 11:20 Received Date: 06/17/2011 11:15 Matrix: Soil-Solid as dry weight

Solids (%): 91

#### Results by SW-846 8015C GRO

<u>Parameter</u>	Result	Qual	LOQ/CL	<u>Units</u>	DF	Date Analyzed
Gasoline Range Organics (GRO)	ND		3.37	mg/kg	1	06/20/2011 18:49

#### **Surrogates**

4-Bromofluorobenzene 99.4 70.0-130 % 1 06/20/2011 18:49

#### **Batch Information**

Analytical Batch: VGC1269

Analytical Method: SW-846 8015C GRO

Instrument: GC4
Analyst: LMC

Analytical Date/Time: 06/20/2011 18:49

Prep Batch: VXX1669

Prep Method: **SW-846 5035** Prep Date/Time: **06/20/2011 09:35** 

Prep Initial Wt./Vol.: 6.52 g Prep Extract Vol: 5 mL

Print Date: 06/24/2011



#### Results of LINE-S (3ft)

Client Sample ID: LINE-S (3ft)

Client Project ID: NCDOT Long Prop. Parcel 81B

Lab Sample ID: 31101576002-C Lab Project ID: 31101576 Collection Date: 06/13/2011 11:20 Received Date: 06/17/2011 11:15 Matrix: Soil-Solid as dry weight

Solids (%): 91

#### Results by SW-846 8015C DRO

<u>Parameter</u>	Result	Qual	LOQ/CL	<u>Units</u>	DF	Date Analyzed
Diesel Range Organics (DRO)	ND		6.79	mg/kg	1	06/22/2011 23:14
Surrogates						
o-Terphenyl	71.2		40.0-140	%	- 1	06/22/2011 23:14

#### **Batch Information**

Analytical Batch: XGC1315

Analytical Method: SW-846 8015C DRO

Instrument: GC6
Analyst: DTF

Analytical Date/Time: 06/22/2011 23:14

Prep Batch: XXX1456 Prep Method: SW-846 3541

Prep Date/Time: 06/21/2011 09:33

Prep Initial Wt./Vol.: 32.4 g Prep Extract Vol: 10 mL.

Print Date: 06/24/2011



#### Results of DISPENSERS (3ft)

Client Sample ID: DISPENSERS (3ft)

Client Project ID: NCDOT Long Prop. Parcel 81B

Lab Sample ID: 31101576003-A Lab Project ID: 31101576 Collection Date: 06/13/2011 11:25 Received Date: 06/17/2011 11:15 Matrix: Soil-Solid as dry weight

Solids (%): 81

#### Results by SW-846 8015C GRO

<u>Parameter</u> Gasoline Range Organics (GRO)	Result ND	Qual	LOQ/CL 3.70	Units mg/kg	<u>DF</u> 1	<u>Date Analyzed</u> 06/20/2011 19:17
Surrogates				III III C		
4-Bromofluorobenzene	99.0		70.0-130	%	1_1_	06/20/2011 19:17

#### **Batch Information**

Analytical Batch: VGC1269

Analytical Method: SW-846 8015C GRO

Instrument: GC4
Analyst: LMC

Analytical Date/Time: 06/20/2011 19:17

Prep Batch: VXX1669
Prep Method: SW-846 5035

Prep Date/Time: 06/20/2011 09:35 Prep Initial Wt./Vol.: 6.65 g Prep Extract Vol: 5 mL

Print Date: 06/24/2011



#### Results of DISPENSERS (3ft)

Client Sample ID: DISPENSERS (3ft)

Client Project ID: NCDOT Long Prop. Parcel 81B

Lab Sample ID: 31101576003-C Lab Project ID: 31101576 Collection Date: 06/13/2011 11:25 Received Date: 06/17/2011 11:15 Matrix: Soil-Solid as dry weight

Solids (%): 81

#### Results by SW-846 8015C DRO

<u>Parameter</u> Diesel Range Organics (DRO)	<u>Result</u> ND	Qual	LOQ/CL 7.56	<u>Units</u> mg/kg	<u>DF</u> 1	<u>Date Analyzed</u> 06/22/2011 23:43
Surrogates						
o-Terphenyl	68.9		40.0-140	%	w 1	06/22/2011 23:43

#### **Batch Information**

Analytical Batch: XGC1315

Analytical Method: SW-846 8015C DRO

Instrument: GC6 Analyst: DTF

Analytical Date/Time: 06/22/2011 23:43

Prep Batch: XXX1456 Prep Method: SW-846 3541

Prep Date/Time: 06/21/2011 09:33 Prep Initial Wt./Vol.: 32.56 g Prep Extract Vol: 10 mL

Print Date: 06/24/2011



# **CHAIN OF CUSTODY RECORD** SGS North America Inc.

**Locations Nationwide** 

 New Jersey
 North Carolina Alaska

MarylandNew YorkOhio

www.us.sgs.com

103643

AB8ENT Samples Received Cold? (Circle) YES NO REMARKS Р Chain of Custody Seal: (Circle) BROKEN A STD PAGE Temperature C: INTACT Special Deliverable Requirements: Requested Tumaround Time: 30101576 Summary EDD Special Instructions: Shipping Ticket No: Shipping Carrier. (P) SGS Reference: SAMPLE ე Q GRAB MATRIX 2011 bengshpeathings.com Received By: Received By: CONTACT: Ben Ashe @ CATEN PHONE NO. 910) 152-5861 Received By 1120 PROJECT: NOW LOW, PAR PARCE TO WEST JUSS: 344/6.1. 1115 1125 TIME 6/13/11 DATE Time Time Time QUOTE #: P.O. NUMBER Date Date 31 SAMPLE IDENTIFICATION CLIENT.CATUA/ NCDOT LINE-N(3' DISPENSERS Relinquished By: (3) Relinquished By: (4) REPORTS TO: LAB NO.

## SGS North America Inc.

### Sample Receipt Checklist (SRC)

Client:	NCDOT-Catlin	_ Work Order No.:	31101576
1.	Shipped	Notes:	
	X Hand Delivered		
2.	X COC Present on Receipt		
	No COC		
	Additional Transmittal Forms		
3.	Custody Tape on Container		
	X No Custody Tape		
4.	X Samples Intact		
	Samples Broken / Leaking		
5.	X Chilled on Receipt Actual Temp.(s) in °C:	3.3	
	Ambient on Receipt		
	Walk-in on Ice; Coming down to temp.		
	Received Outside of Temperature Specification	ons	
6.	X Sufficient Sample Submitted		
	Insufficient Sample Submitted		
7.	Chlorine absent		
	HNO3 < 2		
	HCL < 2		
	Additional Preservatives verified (see notes)		
8.	X Received Within Holding Time		
	Not Received Within Holding Time		
9.	X No Discrepancies Noted		
	Discrepancies Noted		
10.	No Headspace present in VOC vials		
	Headspace present in VOC vials >6mm		
omments:			
_			
0%-1			
190		- II	
- Company of the Butterson			
	Inspe	cted and Logged in by: JJ	
		Date:	Fri-6/17/11 00:00