

**INITIAL ASSESSMENT REPORT
WITH SITE CLOSURE REQUEST
for**

LCH-778

**MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA**

**NCDENR INCIDENT NO.: PENDING
RISK CLASSIFICATION: Not Applicable
LAND USE CLASSIFICATION: Not Applicable**

October 9, 2009

**CONTRACT NO.: N62470-05-D-6200
DELIVERY ORDER NO.: 0070
CATLIN PROJECT NO.: 209-025**

PREPARED BY:

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**Corporate License No. for Engineering Services: C-0585
Corporate License No. for Geology Services: C-118**

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INITIAL ASSESSMENT REPORT

A. TITLE PAGE

1. Site Identification:

DATE OF REPORT: October 9, 2009
Facility ID: N/A Incident Number (if known): N/A Site Rank: N/A
Site Name: LCH-778 Location: MCB, Camp Lejeune - Midway Park
City/Town: Jacksonville Zip Code: 28546 County: Onslow
Description of Geographical Data Point (e.g. dispenser): Approximate center of impacted area
Location Method (GPS, topographical map, other): GPS (UTM Zone 18N)
Latitude (Northing): 3,845,450 Longitude (Easting): 285,701

2. Information about Contacts Associated with the Release (Addresses must include street, city, state, zip code, and mailing address, if different).

AST Owner: Commanding Officer - MCB Camp Lejeune Phone: (910) 451-5068
Address: I&E/EMD/EQB, PSC 20004, MCB Camp Lejeune, NC 28542
AST Operator: Same as above Phone: Same as above
Address: Same as above
Other person responsible for release: N/A
Address: N/A Phone: N/A
Property Owner/Occupant: Same as above / Vacant
Address: Same as above Phone: _____
Consultant/Contractor: CATLIN Engineers and Scientists (CATLIN)
Address: 220 Old Dairy Road, Wilmington, North Carolina 28405 Phone: (910) 452-5861
Analytical Laboratory: SGS North America, Inc. State Certification No.: 481
Address: 5500 Business Drive, Wilmington, NC 28405 Phone: (910)350-1903

3. Information about Release

Date Discovered: June 2009 Estimated Quantity of Release: Unknown
Cause of Release: Unknown
Source of Release (e.g. AST Piping): Unknown, suspected former heating oil storage tank.
Sizes and contents of AST(s) or other containment from which the release occurred):
Unknown. Suspected No. 2 heating oil from former 550 gallon storage tank (estimated size)

4. Certification (The title page must display the seal and signature of the certifying P.E. or L.G. and the name and certification number of the company or corporation, if applicable [See 15A NCAC 2L .013(e)].)

I, Steven V. Hudson, a Licensed Geologist for CATLIN Engineers and Scientists, do certify that the information contained in this report is correct and accurate to the best of my knowledge.



(Please Affix Seal and Signature)

CATLIN Engineers and Scientists is licensed to practice geology and engineering in North Carolina. The Certification numbers of the company are: Geology / C-118 and Engineering / C-0585

B. SITE HISTORY AND CHARACTERIZATION

The subject site is located in the Midway Park Military Housing Area (Midway Park) aboard Marine Corps Base (MCB), Camp Lejeune, in Jacksonville, North Carolina. See Figure 1. During subgrade stabilization activities associated with excavation of soils to facilitate the installation of a new roadway, Malphrus Construction Company, Inc. (Malphrus) personnel noted hydrocarbon odor in the excavated soil. Construction activities associated with the roadway installation immediately ceased and the MCB, Camp Lejeune (Base) Environmental Management Division (EMD) was contacted. A barrier of caution tape was placed to encircle the area of potentially impacted soil to minimize potential exposure. CATLIN Engineers and Scientists (CATLIN) were subsequently contacted by Base personnel to conduct assessment and corrective actions at the area of potential petroleum impact.

Review of historical documents revealed the presence of numerous former underground and aboveground storage tanks (UST and AST, respectively) which previously contained heating oil used for former Base housing in the vicinity. However, no direct correlation could be made between a former storage tank and the potential release. Therefore, as directed by North Carolina Department of Environment and Natural Resources (NCDENR) personnel, all assessment and investigatory actions were conducted under the UST Section Guidelines for the Investigation and Remediation of Contamination from Non-UST Petroleum Releases effective July 1, 2007 (Non-UST Guidelines). Refer to Tables 1 and 2 for storage tank history.

The area surrounding the petroleum release is currently under construction and will be used primarily for Base housing. Housing currently under construction in the vicinity is slab-on-grade type construction. The release area will be under a roadway and covered primarily by asphalt when construction activities are completed. The topography of the project site is relatively flat with relief composed predominantly by manmade drainage swales. According to the Camp Lejeune, USGS Topographic Quadrangle, the nearest surface water body is an unnamed tributary to Mott Creek located approximately 600 feet north of the release area. The surface water bodies are shown on Figures 1 and 2.

As illustrated on Figure 1, no potable water supply wells are located within 1,500 feet of the subject site. The nearest water supply well is PSWLCH-4009 located approximately 2,000 feet southeast of the release. Well PSWLCH-4009 is reportedly inactive and scheduled for abandonment.

The only identified active subgrade utility beneath the area of interest is a sanitary sewer located approximately 12 feet below grade. The approximate location of the sanitary sewer is presented on Figure 3.

CATLIN was authorized to conduct this investigation at the subject site by Naval Facilities (NAVFAC) Mid-Atlantic and MCB, Camp Lejeune under Contract Number N62470-05-D-6200, Delivery Order Number 0070.

C. FREE PRODUCT INVESTIGATION AND RECOVERY REPORT

Not Applicable. No free-phase product was encountered during this investigation.

D. GROUNDWATER AND SURFACE WATER INVESTIGATION

Not Applicable. Groundwater and surface water were not encountered during this investigation.

E. INITIAL RESPONSE AND ABATEMENT ACTIONS

Approximately 160 tons of potentially impacted soils excavated as part of the subgrade stabilization were temporarily stockpiled on site pending sampling and analysis. On the morning of June 23, 2009, CATLIN personnel met EMD, P&F Environmental, Inc. (P&F), and Malphrus personnel on site to assess the magnitude of potential petroleum impact to the site soils. Based on conversations with Malphrus personnel and the presence of hydrocarbon odor in areas of the subgrade excavation walls, an estimated area of potential petroleum impact was established by CATLIN and EMD personnel. In order to expedite the remedial process, EMD and CATLIN personnel agreed that excavation and disposal of potentially impacted soil from the subject area would be the most efficient and cost effective remedy.

F. EXCAVATION OF CONTAMINATED SOIL AND SAMPLING RESULTS

After establishing the estimated excavation limits, P&F mobilized a track-hoe to the subject area to begin soil excavation activities. On the morning of June 23, 2009 before beginning soil removal, CATLIN personnel discussed site safety issues and reviewed the CATLIN site specific Workplan/Health and Safety Plan with P&F personnel. Excavation activities commenced subsequent to the site meeting whereas soil was excavated with the track-hoe and loaded directly from the excavation onto trucks. Trucks loaded with soil from the excavation were weighed at the MCB, Camp Lejeune Landfill truck scales. CATLIN personnel were on-site to conduct excavation oversight, collect confirmation soil samples, and document the number of trucks loaded with excavated soil each day. Soil samples from the excavation were periodically collected by CATLIN personnel directly from the track-hoe bucket and screened for the presence of hydrocarbon odor and physical evidence of petroleum impact. Each grab sample was then divided and a portion placed in zip-top plastic bags and left undisturbed prior to screening with a photo-ionization detector (PID) and a portion placed in a composite sample on ice pending analysis for waste characterization. Excavation of petroleum impacted soil continued from the initial area with the highest hydrocarbon odor outward and downward until screening processes indicated minimal to no potential for petroleum impact. The excavated area covered approximately 1,063 square feet and ranged in depth from approximately 5.5 to 7.5 feet deep below land surface (BLS) (approximately 256 cubic yards assuming an average depth of 6.5 feet). Groundwater was not encountered during excavation activities.

Subsequent to completion of excavation activities, a representative sample was collected from each of the four sidewalls and from the base (floor) of the excavation for laboratory analysis. Sidewall samples were collected from approximately three to six feet BLS directly from each sidewall and the floor sample was collected directly from the base of the excavation at a depth of approximately seven feet BLS. A "source" sample was collected from within the excavation at a depth of approximately four feet BLS in order to determine the approximate magnitude of the release. The samples were placed into laboratory provided glassware, properly labeled, and transported directly to SGS North America, Inc. (SGS) under proper Chain of Custody. All soil samples were analyzed for Total Petroleum Hydrocarbons (TPH)-Gasoline Range Organics (GRO) and Diesel Range Organics (DRO) per EPA Method 8015. All soil samples were collected per the methodology detailed in CATLIN Standard Methods of Investigation included in Appendix A.

The approximate excavated area with soil sample locations and analytical results is presented on Figure 4. Please note that soil sample identifications, which were based on an estimated north direction, were mislabeled in the field whereas sample nomenclature was off by approximately 90 degrees. Removal of soil from the excavation was completed on the afternoon of June 24, 2009. Based on MCB, Camp Lejeune weigh tickets, a total of 315.94 tons of soil were excavated and disposed. However, backfilling of the excavation area was not completed pending analysis of collected samples.

Analytical results from the confirmatory soil sampling were received by CATLIN on July 6, 2009. Review of the analytical data revealed the following:

SAMPLE IDENTIFICATION	LOCATION	TPH GRO (mg/kg)	TPH DRO (mg/kg)
ESW-LCH778	South Sidewall	<5.70	10.6
SSW-LCH778	West Sidewall	<6.34	205
WSW-LCH778	North Sidewall	<5.62	326
NSW-LCH778	East Sidewall	<5.87	<6.60
FLOOR-LCH778	Excavation Floor	<6.48	36.5
NCDENR Action Level (mg/kg)		10	40

Based on the analytical results, CATLIN and Base personnel decided to extend the initial excavation in a northward and westward direction in an attempt to remove soil identified with TPH DRO concentrations in excess of NCDENR Action Levels.

CATLIN and P&F personnel mobilized excavation equipment to the site and began the additional excavation activities on the morning of July 13, 2009. Additional soil excavation was conducted extending the initial excavation approximately ten feet in a western and northern direction. Excavation activities continued until the previously discussed screening processes indicated potentially impacted soils had been removed, at which time two additional confirmatory sidewall samples were collected for laboratory analysis. Samples were collected from the sidewalls at points beyond areas which exhibited characteristics of potentially impacted soils. Therefore, samples were not collected from sidewall areas, predominantly on the southwest portion of the excavation, which did not exhibit evidence of petroleum

impact. Soil samples LCH778 NW2 and LCH778 WW2 were collected from the north and west excavation walls, respectively. Both soil samples were submitted to SGS under proper chain of custody documentation and analyzed for TPH DRO/GRO per EPA Method 8015.

An area of approximately 550 square feet was excavated to an approximate average depth of six feet (approximately 122 cubic yards) resulting in the removal and disposal of an additional 173.49 tons of potentially impacted soil. The approximate limits of the additional excavation, sample locations, and analytical results are presented on Figure 4.

Analytical results from the additional confirmatory soil sampling were received by CATLIN on July 16, 2009. Review of the analytical data revealed the following:

SAMPLE IDENTIFICATION	LOCATION	TPH GRO (mg/kg)	TPH DRO (mg/kg)
LCH778 WW2	West Sidewall	<7.21	<1.46
LCH778 NW2	North Sidewall	<5.71	<6.57
NCDENR Action Level (mg/kg)		10	40

It should be noted that according to the laboratory analytical report, sample LCH778 NW2 contained a peak that fell within the DRO range but was not considered diesel. A full Case Narrative in addition to chromatographs from the analysis is included in the laboratory report in Appendix B.

In addition to the confirmatory soil sampling and analysis conducted during this investigation, soil samples were collected for laboratory analysis from the approximately 160 tons of soil stockpiled during the initial excavation activities conducted as part of the subgrade stabilization. Results indicated minimal impact with GRO at a concentration of 14.4 mg/kg. Based on the confirmation of petroleum impact to the stockpiled soils, 159.12 tons of stockpiled soil was loaded, transported, and disposed by P&F. Laboratory analytical results are summarized on Table 3. Laboratory analytical reports and chain of custody documentation are included in Appendix B.

A soil manifest was completed for each truck loaded with soil from the excavation and stockpile. Each manifest was signed by the driver and Base personnel. Subsequently, the manifests were signed by the disposal facility upon arrival and disposal of the soil. A copy of each of the final soil manifests is included in Appendix C. All excavated soil was weighed on the truck scales at the MCB, Camp Lejeune Landfill weigh station before transportation by truck to the dedicated land application facility, Pridgen Farms, Inc. (NCDENR Permit No. SR0500106) located in Edgecombe County, North Carolina.

G. CONCLUSIONS AND PETITION FOR SITE CLOSURE

Based on a review of data generated during this investigation the site soils were impacted with petroleum based constituents. The final excavation area covered

approximately 1,610 square feet with excavation depths ranging from 5.5 to 7.5 feet BLS. No groundwater was encountered during the excavation activities. Soil excavation activities removed approximately 490 tons of petroleum impacted soil from the project site. An additional 159.12 tons of petroleum impacted soil excavated during the initial subgrade stabilization activities was also removed and disposed. Representative soil samples were collected from the sidewalls and base of the excavation and laboratory analyzed for TPH DRO/GRO per EPA Method 8015. Analytical results confirmed the removal of soil impacted with TPH DRO/GRO in excess of current action levels. Given that groundwater was not encountered during excavation activities and TPH DRO/GRO concentrations from the soil sample collected from the base of the excavation were below state action levels, it is doubtful that groundwater in the vicinity has been impacted with petroleum constituents originating from this release.

Based on the previously discussed factors, CATLIN recommends the incident be reviewed and considered for No Further Action Status.

H. LIMITATIONS

The soil samples analyzed as part of this investigation only provide isolated data points and may not represent conditions at every location in the project area. Analyses and conclusions of this report, being based on interpolation between data points at the project area, may not be completely representative of all site conditions. Conclusions and recommendations of this investigation and report are based on the best available data in an effort to comply with current regulatory requirements.

I. REFERENCES

CATLIN Engineers and Scientists. *Workplan/Health and Safety Plan, Midway Park – Soil Excavation. Marine Corps Base, Camp Lejeune, NC.* June 22, 2009.

North Carolina Department of Environment and Natural Resources (NCDENR) - Division of Waste Management - UST Section. *UST Section Guidelines for the Investigation and Remediation of Contamination from Non-UST Petroleum Releases.* Effective July 1, 2007.

TABLES

**TABLE 1
SITE HISTORY
STORAGE TANK SYSTEM INFORMATION**

Incident Name / No.: LCH-778 / Pending

AST ID Number	Product (gasoline, diesel, jet fuel, etc.)	Capacity (gallons)	Date Installed	Date Permanently Closed (P), or Still in Use* (C) (m/dd/yy)	Was Release Associated With AST System? (Yes / No)
UNKNOWN	Unknown (Est. #2 Fuel Oil)	Unknown (Est. 550)	Unknown	P (Est. 2006)	Unknown

* Still in use means not permanently closed.

Est = Estimate

**TABLE 2
SITE HISTORY
STORAGE TANK OWNER/OPERATOR INFORMATION**

Incident Name / No.: LCH-4023 / Pending

Dates of Ownership/ Operation	Tank Number	Name of Owner or Operator	Site Use
Unknown - ~2006	Unknown	MCB, Camp Lejeune Owner and Operator	Currently under construction - Will be used from MCB Family Housing
Contact Address		Telephone Number	
Commanding Officer I&E/EMD/EQB Marine Corps Base PSC Box 20004 Camp Lejeune, North Carolina 28542-0004		(910) 451-9421	

**TABLE 3
SUMMARY OF SOIL SAMPLE LABORATORY RESULTS
TPH DRO/GRO EPA Method 8015GRO**

Incident Name / No.: LCH-778 / Pending

Sample ID	Contaminant of Concern →		Gasoline Range Organics	Diesel Range Organics
	Date Collected	Sample Location		
NCDENR ACTION LEVEL (mg/kg)			10	40
ESW-LCH778*	6/24/2009	SOUTH SIDEWALL	<5.70	10.6
SSW-LCH778*	6/24/2009	WEST SIDEWALL	<6.34	205
LCH778 WW2	7/13/2009	WEST SIDEWALL	<7.21	<1.46
WSW-LCH778*	6/24/2009	NORTH SIDEWALL	<5.62	326
LCH778 NW2	7/13/2009	NORTH SIDEWALL	<5.71	<6.57
NSW-LCH778*	6/24/2009	EAST SIDEWALL	<5.87	<6.60
FLOOR-LCH778	6/24/2009	EXCAVATION FLOOR	<6.48	36.5
SOURCE-LCH778	6/24/2009	CENTER OF EXCAVATION @ 4ft. BLS	254	1670
STOCKPILE-LCH778	6/24/2009	INITIAL STOCKPILE COMPOSITE	<6.19	14.4
WC-LCH778	6/24/2009	WASTE COMPOSITE	<5.66	31.9

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

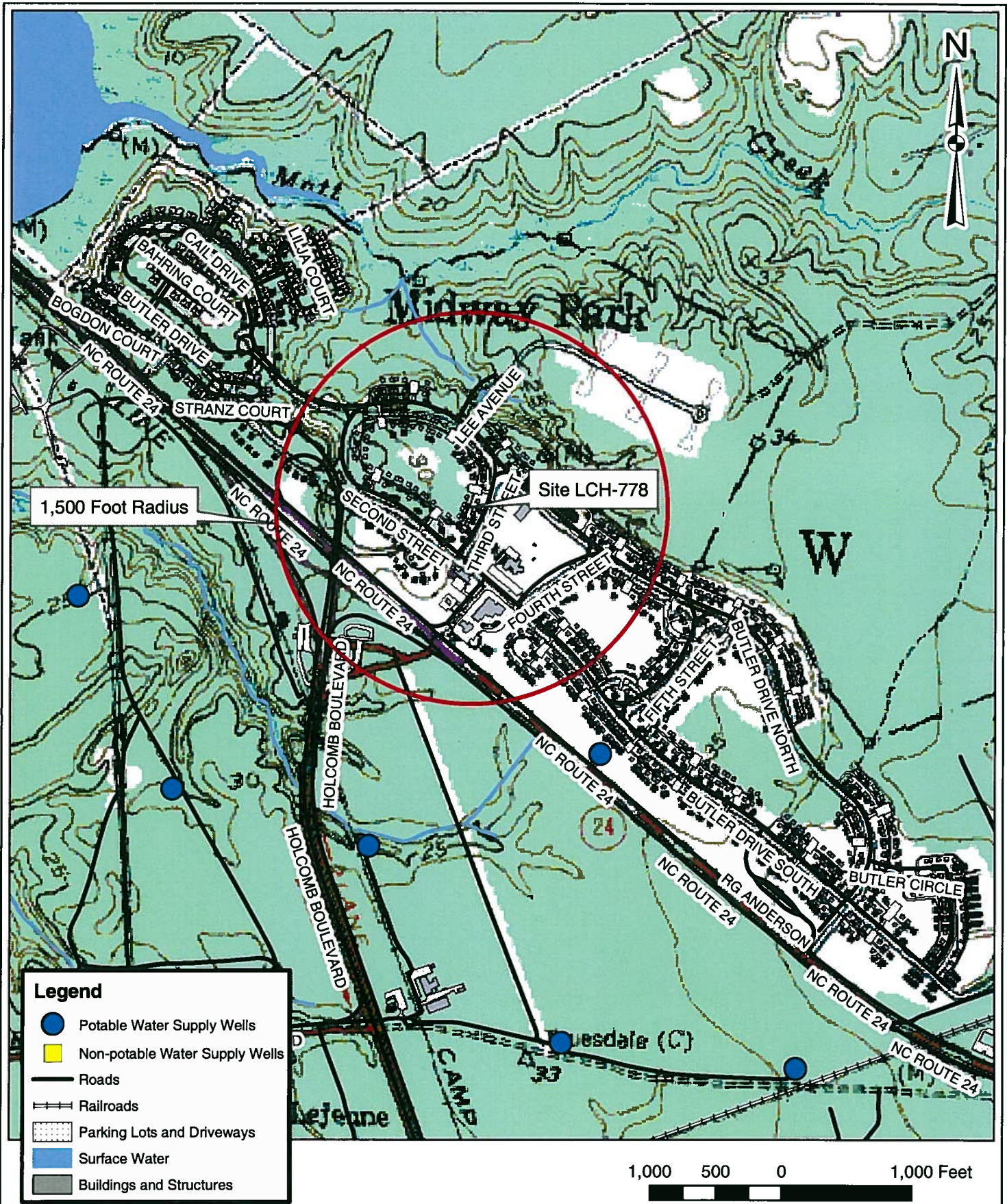
Bold results indicate concentration above NCDENR Action Level.

ft. BLS = Feet Below Land Surface.


< = Less than method detection limit or reporting limit.

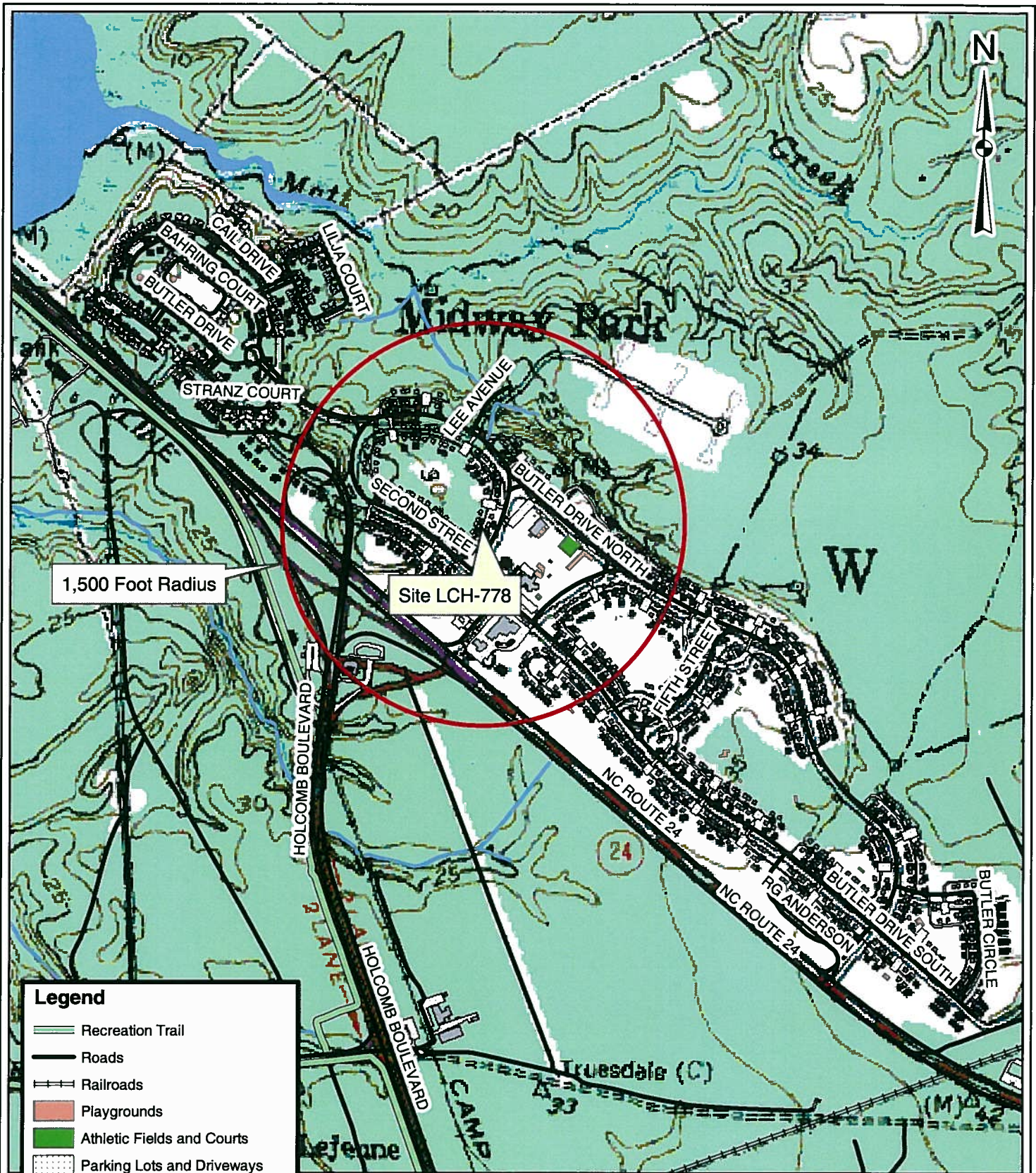
* = Sample mislabeled due to improper "North" direction.

FIGURES



Data Sources: Data Layers provided by MCB Camp Lejeune GIS Office.

 <p>Corporate License No. for Engineering Services C-0585</p>	PROJECT INITIAL SITE ASSESSMENT SITE LCH-778 MARINE CORPS BASE CAMP LEJEUNE, NC		TITLE SITE LOCATION AND 1,500' WATER WELL SURVEY		FIGURE 1
	JOB NO. 209-025	DATE OCT 2009	SCALE AS SHOWN	DRAWN BY SAC	

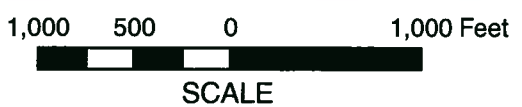


1,500 Foot Radius

Site LCH-778

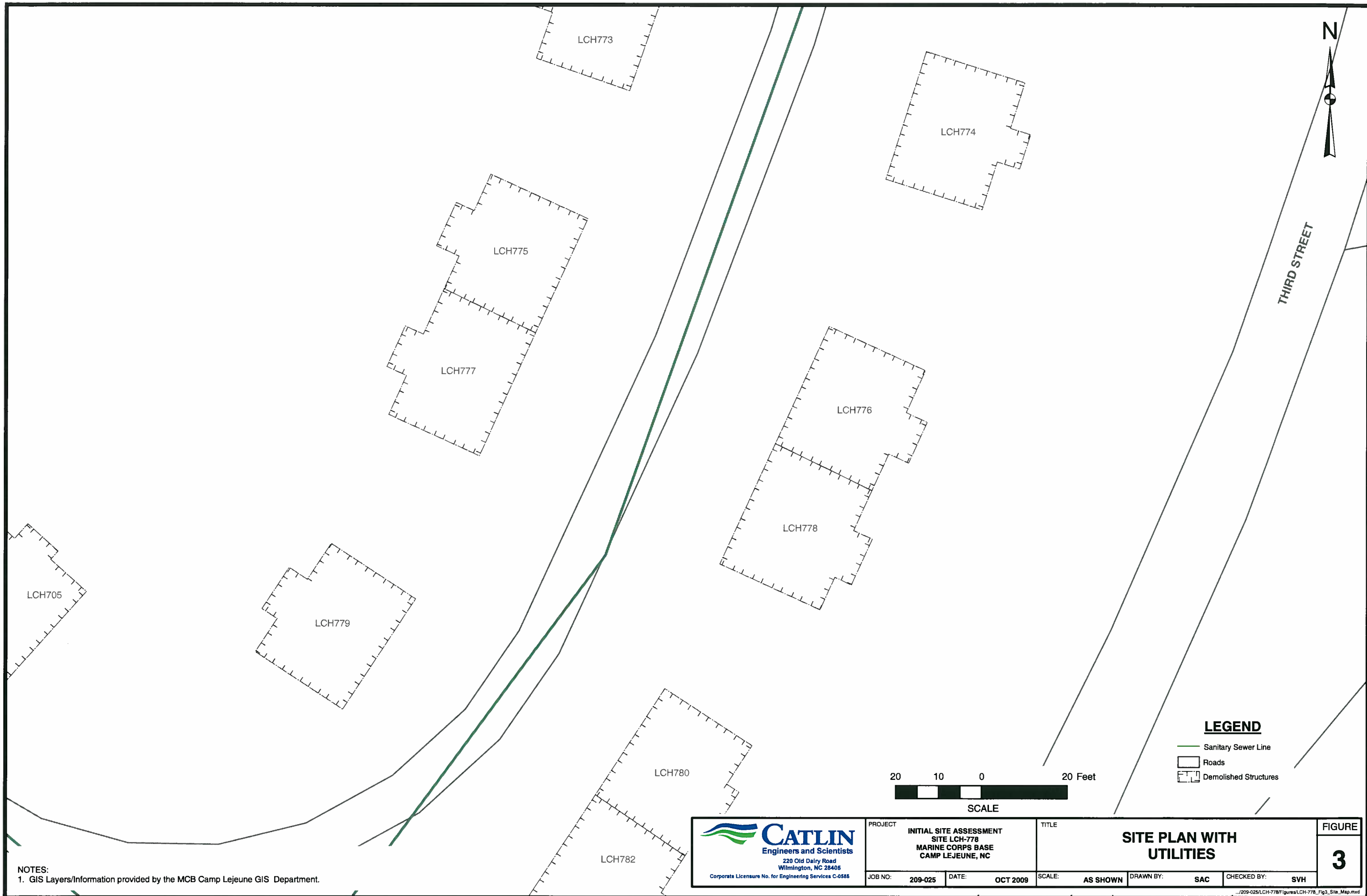
Legend

- Recreation Trail
- Roads
- Railroads
- Playgrounds
- Athletic Fields and Courts
- Parking Lots and Driveways
- Surface Water
- Buildings and Structures




Data Sources: Data Layers provided by MCB Camp Lejeune GIS Office.

<p style="font-size: small;">Corporate License No. for Engineering Services C-0585</p>	<p>PROJECT</p> <p>INITIAL SITE ASSESSMENT SITE LCH-778 MARINE CORPS BASE CAMP LEJEUNE, NC</p>	<p>TITLE</p> <p>SITE LOCATION WITH PLACES OF PUBLIC ASSEMBLY</p>	<p>FIGURE</p> <p style="font-size: 2em;">2</p>										
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; border-bottom: none;">JOB NO.</td> <td style="width: 25%; border-bottom: none;">DATE</td> <td style="width: 25%; border-bottom: none;">SCALE</td> <td style="width: 25%; border-bottom: none;">DRAWN BY</td> <td style="width: 25%; border-bottom: none;">CHECKED BY</td> </tr> <tr> <td style="border-top: none;">209-025</td> <td style="border-top: none;">OCT 2009</td> <td style="border-top: none;">AS SHOWN</td> <td style="border-top: none;">SAC</td> <td style="border-top: none;">SVH</td> </tr> </table>	JOB NO.	DATE	SCALE	DRAWN BY	CHECKED BY	209-025	OCT 2009	AS SHOWN	SAC	SVH		
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209-025	OCT 2009	AS SHOWN	SAC	SVH									



NOTES:
 1. GIS Layers/Information provided by the MCB Camp Lejeune GIS Department.

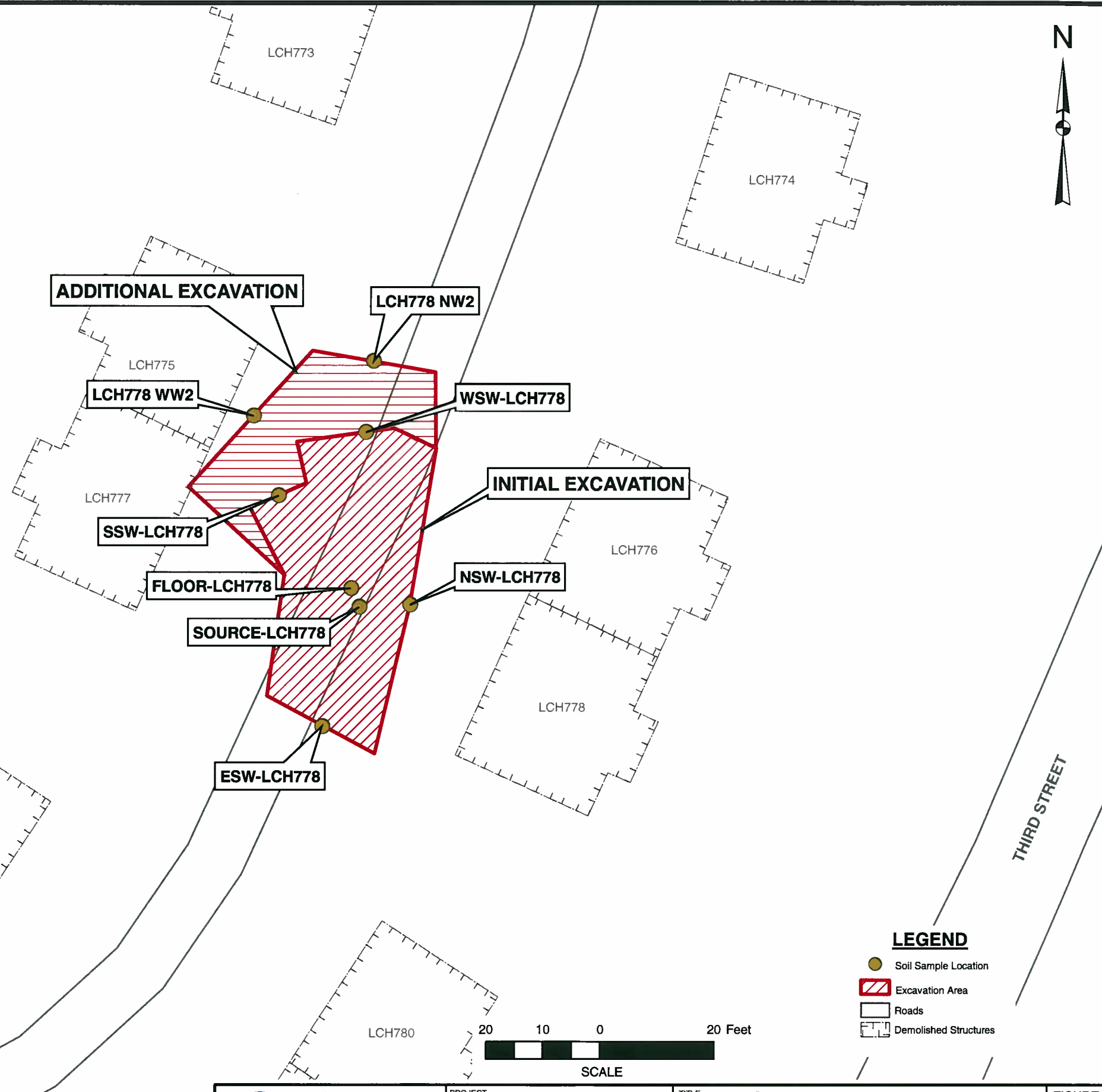
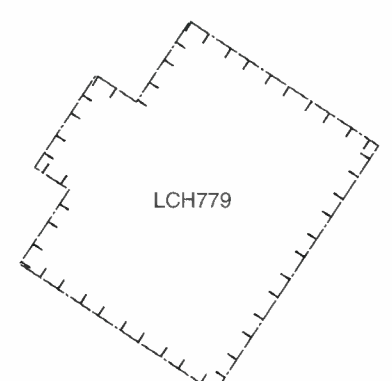
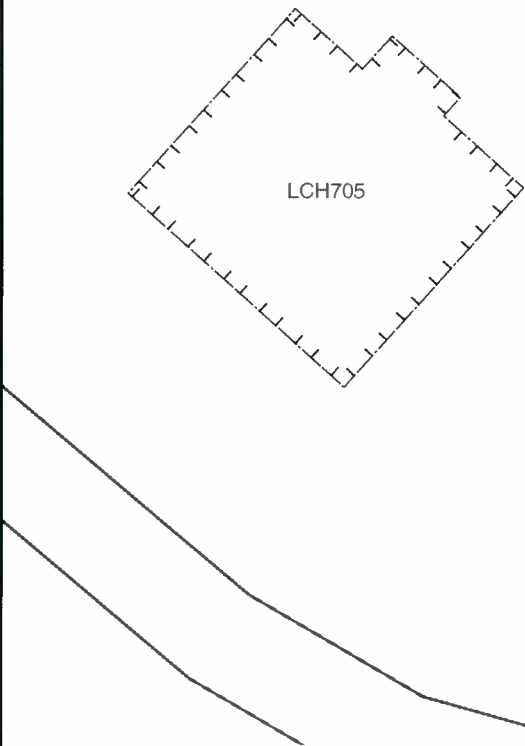
 CATLIN Engineers and Scientists 220 Old Dairy Road Wilmington, NC 28405 Corporate License No. for Engineering Services C-0585	PROJECT INITIAL SITE ASSESSMENT SITE LCH-778 MARINE CORPS BASE CAMP LEJEUNE, NC	TITLE SITE PLAN WITH UTILITIES		FIGURE 3
	JOB NO: 209-025	DATE: OCT 2009	SCALE: AS SHOWN	DRAWN BY: SAC

**TABLE 3
SUMMARY OF SOIL SAMPLE LABORATORY RESULTS
TPH DRO/GRO EPA Method 8015GRO**

Incident Name / No.: LCH-778 / Pending

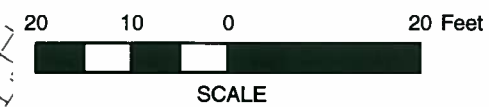
Sample ID	Contaminant of Concern →		Gasoline Range Organics	Diesel Range Organics
	Date Collected	Sample Location		
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SOURCE-LCH778	6/24/2009	CENTER OF EXCAVATION @ 4ft. BLS	254	1670

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Bold results indicate concentration above NCDENR Action Level.
 ft. BLS = Feet Below Land Surface.
 < = Less than method detection limit or reporting limit.
 * = Sample mislabeled due to improper "North" direction.



LEGEND

- Soil Sample Location
- ▨ Excavation Area
- ▭ Roads
- ▭ Demolished Structures



 220 Old Dairy Road Wilmington, NC 28405 Corporate License No. for Engineering Services C-0585	PROJECT	INITIAL SITE ASSESSMENT SITE LCH-778 MARINE CORPS BASE CAMP LEJEUNE, NC	TITLE	SITE PLAN WITH EXTENT OF SOIL EXCAVATION AREAS AND LABORATORY RESULTS		FIGURE	4		
	JOB NO:	209-025	DATE:	OCT 2009	SCALE:	AS SHOWN	DRAWN BY:	SAC	CHECKED BY:

NOTES:
 1. GIS Layers/Information provided by the MCB Camp Lejeune GIS Department.

APPENDIX A

CATLIN STANDARD METHODS OF INVESTIGATION

CATLIN STANDARD METHODS OF INVESTIGATION

1.0 DATA COLLECTION

1.1 BACKGROUND DATA

Background data and history information relevant to the site investigation is generated through numerous sources. These sources may include, but are not limited to, the following:

- Conversations with the client and regulatory officials involved with the incident.
- Review of pertinent regulatory correspondence.
- Review of previous and existing reports and other technical data.
- Review of available historical records.

1.2 SURVEYS AND POTENTIAL RECEPTOR DATA

Physical survey and potential receptor data are collected in accordance with the intended level of investigation. In general, the purpose is to collect sufficient information for site assessment and corrective action planning.

Individual receptors are identified and evaluated in the context of their potential for contaminant impact. Potential receptors of contamination can include surface water bodies, groundwater supply wells, wellhead protection areas, and subsurface building structures.

1.2.1 Horizontal Survey

Horizontal survey data are generated using either accepted general field surveying techniques, or existing survey maps; or by using a combination of existing data and field generated information. The survey area generally extends to a point at least 50 feet beyond suspected plume boundaries. A receptor scale survey of a larger area surrounding a site will be made if appropriate and necessary.

1.2.2 Vertical Survey

A vertical survey is conducted at the site typically within an accuracy of 0.01 foot. The datum plane is generally assumed unless otherwise noted. Assumed temporary benchmarks (TBM) are selected near ground level. The vertical survey includes such points as top of all well casings, selected ground shots, important utility inverts, utility fluid levels, important surface water levels, and other items determined to be significant.

1.3 DRILLING AND MONITORING WELL/PIEZOMETER INSTALLATION

Necessary permits are applied for and obtained in accordance with federal, state, and local requirements prior to drilling or well construction activities. Additionally, the well locations are scanned for underground utilities prior to conducting intrusive subsurface activities. Wells are installed under applicable licensing requirements, and are designed and constructed in accordance with accepted standards and practices. Any wells purposely installed at off-site locations are permitted through appropriate right-of-entry agreements with all necessary property owners and/or their agents.

1.3.1 Drilling Methods and Subsurface Data Collection

Drilling is accomplished utilizing one or more of the following methods:

Auger Drilling

Auger drilling is the preferred, most often used method of subsurface investigation and is accomplished using a vehicle or trailer mounted drill rig. Continuous flight auger types used vary upon the site and situation; ranging from the 4-inch outside diameter solid stem to the 12-inch outside diameter hollow stem. Auger type is selected based upon appropriateness and/or site-specific requirements.

Hand Augering

Hand augering is utilized when economically and scientifically feasible, or when no other method is suitable. Hand augers typically produce three-inch diameter holes and are generally limited to depths of less than 15 feet.

Direct Push

Direct push methods of subsurface investigation are used generally for soil screening purposes or collection of groundwater samples where permanent wells are not viable.

Other Methods

Other drilling methods, such as mud and air rotary, rock coring, cable tool, and large bucket augering are used when site conditions or project requirements dictate.

Regardless of the drilling method used, the drill rig(s) and all drilling tools are thoroughly cleaned between boreholes to prevent cross introduction of contaminants. Split spoon samples are collected and field-described at intervals of five feet or less, and cuttings are continuously monitored for organic vapors. Drill cuttings are containerized for off-site disposal or are spread on the ground surface in proximity to the well or boring in accordance with North Carolina Department of Environment and Natural Resources (NCDENR) requirements. A geologist or engineer, trained in using visual/manual techniques, is always present during drilling and is

responsible for subsurface contaminant and geologic data collection. Soils are classified in general agreement with the Unified Soils Classification System (USCS).

1.3.2 Hydropunch Installation

Hydropunch penetrometers (Hydropunches) are used to delineate the spatial extent of dissolved and free phase plumes. Soil borings are advanced to the appropriate depth and then the Hydropunch is advanced through the soil boring into undisturbed material. Groundwater samples are collected by pulling back on the body of the Hydropunch and allowing the groundwater to enter the screened portion of the sample chamber. Samples are retrieved using a decontaminated Teflon bailer or peristaltic pump.

1.3.3 Well Installation

Wells are typically constructed of threaded PVC casing and screen. No glues or cements are used in joining PVC components. Well diameter, slot sizes, and protective covers vary depending upon site-specific conditions or situation-specific requirements.

1.3.4 Well Development

Wells are developed by over-pumping or surging using appropriate pumps, blocks, or bailers. Through development, unwanted fine materials are removed from the natural formation surrounding the well. Well development will be performed no sooner than 24-hours after grouting is completed for the Type III wells. Water generated during development is containerized and properly disposed or is discharged onto the ground in proximity of the well in accordance with NCDENR requirements.

1.4 HYDROGEOLOGIC DATA COLLECTION

Data used to help characterize hydrogeologic conditions at a site are obtained through various procedures including, but not necessarily limited to, those described below:

1.4.1 Regional Geology

Information pertaining to the regional geologic framework is compiled from existing publications, maps, and scientific papers.

1.4.2 Site Geology

Shallow site geology is generally determined from field descriptions and borehole samples. Interpretations with regard to hydrogeologically important contacts, zones, fractures, faults, cleavage, and facies changes are made when possible.

1.4.3 Groundwater Occurrence and Characteristics

Groundwater data is obtained utilizing a number of methods and procedures, not limited to the general list below:

Well Water Levels

After well development, wells are allowed to stabilize for a minimum of 24 hours prior to measuring. Water level and free product thickness (where applicable) measurements are performed using an electronic interface probe or steel tape with water/product finding pastes.

The specific gravity of any accumulated product is determined and used to calculate true hydraulic grade from measured water levels. This information is combined with vertical survey data to determine relative potentiometric surface elevations for all wells.

Aquifer Testing

Various aquifer tests may be used to make determinations of hydraulic conductivity. Slug or pumping tests are often used to characterize site hydrogeologic conditions and to develop remedial action alternatives utilizing appropriate pumping technologies.

Other Methods

Other methods may be deemed appropriate for determining various groundwater characteristics. These other methods may include nested well configurations and/or clustered piezometer installations; sieve or pipette analysis; fracture trace analysis; computer modeling; and geophysical logging.

1.5 PETROLEUM HYDROCARBON DATA COLLECTION

1.5.1 Collection Methods

Petroleum hydrocarbon data is obtained through various methods including, but not limited to, the following:

Field Analysis

- Direct thickness measurement of phase separated components using tapes and/or probes.
- Manual vapor analysis using a photoionization detector (PID) or flame ionization detector (FID).
- Detectable odor and visual observation.

Laboratory Analysis

- Laboratory analysis of phase-separated products.

- Laboratory vapor, soil, and groundwater analysis using appropriate EPA Methods.

1.5.2 Field Sampling

Field sampling procedures are performed in accordance with recommended protocol, accepted industry standards, and under appropriate chain-of-custody procedures. Generally, sampling procedures are as follows:

Product Samples

Product samples are obtained using clean equipment and containers. Each is shipped to the analytical laboratory in protective containers.

Vapor Samples

PID/FID readings are measured from soil sample headspace using containerized samples that have been brought to ambient temperature.

Carbon tubes are utilized in conjunction with a laboratory-calibrated vacuum pump to obtain vapor samples. The carbon tubes are sealed and refrigerated for shipment to the analytical laboratory (This method is known as the Carbon Adsorption Method).

Soil Samples

Soil samples are immediately packed into clean containers, and refrigerated for shipment to the analytical laboratory.

Groundwater Samples

Groundwater samples are collected in accordance with the following procedures:

- Creeks/Lakes/Etc.

Grab samples are obtained.

- Domestic Wells

Wells are pumped for a time sufficient to completely purge the well and any pressure or holding tanks prior to sampling.

- Monitoring Wells

Water level measurements are made and well volumes calculated for each well.

Three well volumes are removed from each well using a thoroughly cleaned Teflon bailer or appropriate purging pump. If it is not possible to

remove three volumes, due to very low yields, a minimum of one volume is removed prior to obtaining a sample.

Where analysis for metals is required, wells are typically sampled utilizing low flow techniques, which reduce turbidity and the potential for matrix interference.

Samples are collected and containerized in a manner that minimizes agitation and contact with the air.

Sampling records are field prepared.

Samples are labeled and proper Chain-of-Custody documents are maintained.

Samples are promptly protectively packed, refrigerated, and shipped to the analytical laboratory for analysis.

2.0 DATA EVALUATION

Data obtained as a result of the site investigation is compiled and evaluated and a report is prepared for client review and distribution to the appropriate agencies. Generally, specific data are evaluated as follows:

- Background data are evaluated in context with the suspected or confirmed problem.
- Survey data are utilized to develop site maps and to evaluate contaminant receptors.
- Well construction records are compiled and presented as part of the report. As-built information is used in combination with other data to evaluate subsurface conditions and monitoring well screen settings as they relate to the investigation.
- Subsurface drilling logs are used to develop geologic cross-sections, fence diagrams, isopaths, structure contours, or other constructions. Regional geologic data are used to obtain an overall framework.
- Hydrogeologic data are used to develop contour maps, flow nets and other constructions. The data is also used to calculate various hydrogeologic parameters that describe aquifer characteristics.
- Hydrocarbon data are utilized to develop various plume geometry and isoconcentration maps.
- All data are compiled and utilized for making specific recommendations with regard to remedial action alternatives.

APPENDIX B

LABORATORY REPORTS
AND
CHAIN-OF-CUSTODY DOCUMENTATION

SGS North America, Inc.



Steve Hudson
Richard Catlin & Associates
P.O. Box 10279
Wilmington, NC 28404-0279

Report Number: G128-2393

Client Project: LCH-778

Dear Steve Hudson,

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. 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 Hager at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

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

Sincerely,
SGS North America, Inc.

Barbara Hager *June 29. 2009*

Project Manager Date
Barbara Hager

SGS North America, Inc.
List of Reporting Abbreviations
And Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantification Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL/CL = Reporting Limit / Control Limit

RPD = Relative Percent Difference

UJ = Target analytes with recoveries that are $10\% < \%R < LCL$; # of MEs are allowable and compounds are not detected in the sample.

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% solids = Percent Solids

Special Notes:

- 1) Metals and mercury samples are digested with a hot block; see the standard operating procedure document for details.
- 2) Uncertainty for all reported data is less than or equal to 30 percent.

MI34.021808.4

**Results for Total Petroleum Hydrocarbons
by GC/FID 8015**

Client Sample ID: STOCKPILE-LCH778
 Client Project ID: LCH-778
 Lab Sample ID: G128-2393-7D
 Lab Project ID: G128-2393

Date Collected: 6/24/2009 12:20
 Date Received: 6/25/2009
 Matrix: Soil
 Solids 84.27
 Report Basis: Dry Weight

Parameter	Result	RL	MDL	Units	Dilution Factor	Date Analyzed
Diesel Range Organics	14.4	7.41	1.44	mg/Kg	1	06/29/09 12:47
Surrogate Spike Results		Spike Added		Control Limits	Spike Result	Percent Recovery
OTP		40		40-140	34.5	86.1

Comments:

J= Estimated value between MDL and RL

Batch Information

Analytical Batch: EP062909
 Analytical Method: 8015
 Instrument: GC6
 Analyst: EAW

Prep batch: 14522
 Prep Method: 3541
 Prep Date: 06/26/09
 Initial Prep Wt/Vol: 32.04 G
 Prep Final Vol: 10 mL

Analyst: *BWS*

NC Certification #481

N.C. Certification #481

Reviewed By: *[Signature]*
DRO XLS
 Page 3 of 5

Results for Total Petroleum Hydrocarbons
by GC/FID 8015

Client Sample ID: STOCKPILE-LCH778
 Client Project ID: LCH-778
 Lab Sample ID: G128-2393-7B
 Lab Project ID: G128-2393
 Report Basis: Dry Weight

Analyzed By: DVO
 Date Collected: 6/24/2009 12:20
 Date Received: 6/25/2009
 Matrix: Soil
 Solids 84.27

Analyte	Result	RL	Units	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	6.19	mg/Kg	1	06/25/09 12:52

Surrogate Spike Results

	Added	Result	Recovery	Flag	Limits
BFB	100	106.0	106.0		70-130

Comments:

Batch Information

Analytical Batch: VP062509
 Analytical Method: 8015
 Instrument ID: GC4
 Analyst: DVO

Prep Method: 5035
 Initial Wt/Vol: 5.75 g
 Final Volume: 5 mL

Analyst: DVO

NC Certification #481

N.C. Certification #481

Reviewed By: 
GRO.XLS



CHAIN OF CUSTODY RECORD
SGS North America Inc.

- Locations Nationwide
- Alaska
 - New Jersey
 - North Carolina
 - Maryland
 - New York
 - Ohio

www.us.sgs.com

098393

1 CLIENT:					SGS Reference: 6128-2393			PAGE 1 OF 1		
CONTACT: Steve Hudson		PHONE NO.: (910) 462-5861			No CONTAINERS SAMPLE TYPE C= COMP G= GRAB Preservatives Used Analysis Required TPH DRO/GRO					
PROJECT: LCH-778		SITE/PWSID#: 209-025								
REPORTS TO: Steven Hudson		FAX NO.: (910) 462-5861								
INVOICE TO: CATLIN		QUOTE #: D00101 P.O. NUMBER: 290625-1								
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No	SAMPLE TYPE	Preservatives Used	Analysis Required	REMARKS	
	WC-LCH778	6-24-09	12:55	SOIL	3	C	✓		Lex one	
	ESW-LCH778	6-24-09	12:30	"	3	G	✓		Summary	
	SSW-LCH778	" "	12:35	"	3	G	✓		EDD	
	WSW-LCH778	" "	12:43	"	3	G	✓		Report low	
	FLOOR-LCH778	" "	12:25	"	3	G	✓		Runs	
	NSW-LCH778	" "	12:46	"	3	G	✓			
	STOCKPILE-LCH778	" "	12:20	"	3	C	✓		Rush (only)	
	SOURCE-LCH778	6-24-09	13:00	"	3	G	✓			
5 Collected/Relinquished By: (1) <i>[Signature]</i>		Date 6/25/09	Time 08:05	Received By: <i>[Signature]</i>		Shipping Carrier:		Samples Received Cold? (Circle) YES NO		
Relinquished By: (2) <i>[Signature]</i>		Date 6/25/09	Time 8:45	Received By: <i>[Signature]</i>		Shipping Ticket No:		Temperature °C: 5.8		
Relinquished By: (3)		Date	Time	Received By:		Special Deliverable Requirements:		Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT		
Relinquished By: (4)		Date	Time	Received By:		Special Instructions:		Requested Turnaround Time: <input checked="" type="checkbox"/> RUSH 6/29/09 <input checked="" type="checkbox"/> STD <small>Date Needed</small>		

N.C. Certification #481

Page 5 of 5

SGS North America, Inc.



Steve Hudson
Richard Catlin & Associates
P.O. Box 10279
Wilmington, NC 28404-0279

Report Number: G128-2393

Client Project: LCH-778

Dear Steve Hudson,

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. 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 Hager at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

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

Sincerely,
SGS North America, Inc.

Barbara Hager *June 29. 2009*
Project Manager Date
Barbara Hager
July 6. 2009

SGS North America, Inc.

List of Reporting Abbreviations
And Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantification Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL/CL = Reporting Limit / Control Limit

RPD = Relative Percent Difference

UJ = Target analytes with recoveries that are $10\% < \%R < LCL$; # of MEs are allowable and compounds are not detected in the sample.

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% solids = Percent Solids

Special Notes:

- 1) Metals and mercury samples are digested with a hot block; see the standard operating procedure document for details.
- 2) Uncertainty for all reported data is less than or equal to 30 percent.

Results for Total Petroleum Hydrocarbons
by GC/FID 8015

Client Sample ID: WC-LCH778
Client Project ID: LCH-778
Lab Sample ID: G128-2393-1B
Lab Project ID: G128-2393
Report Basis: Dry Weight

Analyzed By: DVO
Date Collected: 6/24/2009 12:55
Date Received: 6/25/2009
Matrix: Soil
Solids 83.92

Analyte	Result	RL	Units	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.66	mg/Kg	1	06/29/09 19:22

Surrogate Spike Results

	Added	Result	Recovery	Flag	Limits
BFB	100	99.2	99.2		70-130

Comments:

Batch Information

Analytical Batch: VP062909
Analytical Method: 8015
Instrument ID: GC4
Analyst: DVO

Prep Method: 5035
Initial Wt/Vol: 6.32 g
Final Volume: 5 mL

Analyst: DVO

Results for Total Petroleum Hydrocarbons
by GC/FID 8015

Client Sample ID: ESW-LCH778
 Client Project ID: LCH-778
 Lab Sample ID: G128-2393-2B
 Lab Project ID: G128-2393
 Report Basis: Dry Weight

Analyzed By: DVO
 Date Collected: 6/24/2009 12:30
 Date Received: 6/25/2009
 Matrix: Soil
 Solids 90.86

Analyte	Result	RL	Units	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.70	mg/Kg	1	06/29/09 19:49

Surrogate Spike Results

	Added	Result	Recovery	Flag	Limits
BFB	100	101.0	101.0		70-130

Comments:

Batch Information

Analytical Batch: VP062909
 Analytical Method: 8015
 Instrument ID: GC4
 Analyst: DVO

Prep Method: 5035
 Initial Wt/Vol: 5.79 g
 Final Volume: 5 mL

Analyst: DVO

**Results for Total Petroleum Hydrocarbons
by GC/FID 8015**

Client Sample ID: SSW-LCH778
Client Project ID: LCH-778
Lab Sample ID: G128-2393-3B
Lab Project ID: G128-2393
Report Basis: Dry Weight

Analyzed By: DVO
Date Collected: 6/24/2009 12:35
Date Received: 6/25/2009
Matrix: Soil
Solids 85.25

Analyte	Result	RL	Units	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	6.34	mg/Kg	1	06/29/09 20:15

Surrogate Spike Results

	Added	Result	Recovery	Flag	Limits
BFB	100	102.0	102.0		70-130

Comments:

Batch Information

Analytical Batch: VP062909
Analytical Method: 8015
Instrument ID: GC4
Analyst: DVO

Prep Method: 5035
Initial Wt/Vol: 5.55 g
Final Volume: 5 mL

Analyst: DVO

Results for Total Petroleum Hydrocarbons
by GC/FID 8015

Client Sample ID: WSW-LCH778
Client Project ID: LCH-778
Lab Sample ID: G128-2393-4B
Lab Project ID: G128-2393
Report Basis: Dry Weight

Analyzed By: DVO
Date Collected: 6/24/2009 12:43
Date Received: 6/25/2009
Matrix: Soil
Solids 88.58

Analyte	Result	RL	Units	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.62	mg/Kg	1	06/30/09 17:10

Surrogate Spike Results

	Added	Result	Recovery	Flag	Limits
BFB	100	107.0	107.0		70-130

Comments:

Batch Information

Analytical Batch: VP063009
Analytical Method: 8015
Instrument ID: GC4
Analyst: DVO

Prep Method: 5035
Initial Wt/Vol: 6.03 g
Final Volume: 5 mL

Analyst: DVO

**Results for Total Petroleum Hydrocarbons
by GC/FID 8015**

Client Sample ID: FLOOR-LCH778
 Client Project ID: LCH-778
 Lab Sample ID: G128-2393-5B
 Lab Project ID: G128-2393
 Report Basis: Dry Weight

Analyzed By: DVO
 Date Collected: 6/24/2009 12:25
 Date Received: 6/25/2009
 Matrix: Soil
 Solids 90.60

Analyte	Result	RL	Units	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	6.48	mg/Kg	1	06/30/09 17:36

Surrogate Spike Results

	Added	Result	Recovery	Flag	Limits
BFB	100	103.0	103.0		70-130

Comments:

Batch Information

Analytical Batch: VP063009
 Analytical Method: 8015
 Instrument ID: GC4
 Analyst: DVO

Prep Method: 5035
 Initial Wt/Vol: 5.11 g
 Final Volume: 5 mL

Analyst: DVO

Results for Total Petroleum Hydrocarbons
by GC/FID 8015

Client Sample ID: NSW-LCH778
Client Project ID: LCH-778
Lab Sample ID: G128-2393-6B
Lab Project ID: G128-2393
Report Basis: Dry Weight

Analyzed By: DVO
Date Collected: 6/24/2009 12:40
Date Received: 6/25/2009
Matrix: Soil
Solids 88.40

Analyte	Result	RL	Units	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.87	mg/Kg	1	06/30/09 18:03

Surrogate Spike Results

	Added	Result	Recovery	Flag	Limits
BFB	100	103.0	103.0		70-130

Comments:

Batch Information

Analytical Batch: VP063009
Analytical Method: 8015
Instrument ID: GC4
Analyst: DVO

Prep Method: 5035
Initial Wt/Vol: 5.78 g
Final Volume: 5 mL

Analyst: DVO

Reviewed By: 
GRO.XLS

Results for Total Petroleum Hydrocarbons
by GC/FID 8015

Client Sample ID: SOURCE-LCH778
 Client Project ID: LCH-778
 Lab Sample ID: G128-2393-8B
 Lab Project ID: G128-2393
 Report Basis: Dry Weight

Analyzed By: DVO
 Date Collected: 6/24/2009 13:00
 Date Received: 6/25/2009
 Matrix: Soil
 Solids 92.35

Analyte	Result	RL	Units	Dilution Factor	Date Analyzed
Gasoline Range Organics	254	6.66	mg/Kg	10	07/01/09 20:03

Surrogate Spike Results

	Added	Result	Recovery	Flag	Limits
BFB	100	115.0	115.0		70-130

Comments:

Batch Information

Analytical Batch: VP070109
 Analytical Method: 8015
 Instrument ID: GC4
 Analyst: DVO

Prep Method: 5035
 Initial Wt/Vol: 4.88 g
 Final Volume: 5 mL

Analyst: Dvo

SGS North America, Inc.

Results for Total Petroleum Hydrocarbons
by GC/FID 8015

Client Sample ID: WC-LCH778
Client Project ID: LCH-778
Lab Sample ID: G128-2393-1D
Lab Project ID: G128-2393

Date Collected: 6/24/2009 12:55
Date Received: 6/25/2009
Matrix: Soil
Solids 83.92
Report Basis: Dry Weight

Parameter	Result	RL	Units	Dilution Factor	Date Analyzed
Diesel Range Organics	31.9	7.39	mg/Kg	1	06/29/09 14:38
Surrogate Spike Results		Spike Added	Control Limits	Spike Result	Percent Recovery
OTP		40	40-140	37	92.5

Comments:

Batch Information

Analytical Batch: EP062909
Analytical Method: 8015
Instrument: GC6
Analyst: EAW

Prep batch: 14522
Prep Method: 3541
Prep Date: 06/26/09
Initial Prep Wt/Vol: 32.23 G
Prep Final Vol: 10 mL

Analyst:

NC Certification #481

N.C. Certification #481

Reviewed By:
DRO.XLS
Page 10 of 17

Results for Total Petroleum Hydrocarbons
by GC/FID 8015

Client Sample ID: ESW-LCH778
Client Project ID: LCH-778
Lab Sample ID: G128-2393-2D
Lab Project ID: G128-2393

Date Collected: 6/24/2009 12:30
Date Received: 6/25/2009
Matrix: Soil
Solids 90.86
Report Basis: Dry Weight

Parameter	Result	RL	Units	Dilution Factor	Date Analyzed
Diesel Range Organics	10.6	6.73	mg/Kg	1	06/29/09 15:06
Surrogate Spike Results		Spike Added	Control Limits	Spike Result	Percent Recovery
OTP		40	40-140	35.7	89.4

Comments:

Batch Information

Analytical Batch: EP062909
Analytical Method: 8015
Instrument: GC6
Analyst: EAW

Prep batch: 14522
Prep Method: 3541
Prep Date: 06/26/09
Initial Prep Wt/Vol: 32.72 G
Prep Final Vol: 10 mL

Analyst: *EW*

NC Certification #481

N.C. Certification #481

Reviewed By: *MM*
DRO.XLS
Page 11 of 17

**Results for Total Petroleum Hydrocarbons
by GC/FID 8015**

Client Sample ID: SSW-LCH778
 Client Project ID: LCH-778
 Lab Sample ID: G128-2393-3D
 Lab Project ID: G128-2393

Date Collected: 6/24/2009 12:35
 Date Received: 6/25/2009
 Matrix: Soil
 Solids 85.25
 Report Basis: Dry Weight

Parameter	Result	RL	Units	Dilution Factor	Date Analyzed
Diesel Range Organics	205	7.47	mg/Kg	1	06/29/09 15:34
Surrogate Spike Results		Spike Added	Control Limits	Spike Result	Percent Recovery
OTP		40	40-140	34.3	85.7

Comments:

Batch Information

Analytical Batch: EP062909
 Analytical Method: 8015
 Instrument: GC6
 Analyst: EAW

Prep batch: 14522
 Prep Method: 3541
 Prep Date: 06/26/09
 Initial Prep Wt/Vol: 31.39 G
 Prep Final Vol: 10 mL

Analyst: *EW*

NC Certification #481

N.C. Certification #481

Reviewed By: *WA*
DRO.XLS
 Page 12 of 17

Results for Total Petroleum Hydrocarbons
by GC/FID 8015

Client Sample ID: WSW-LCH778
Client Project ID: LCH-778
Lab Sample ID: G128-2393-4D
Lab Project ID: G128-2393

Date Collected: 6/24/2009 12:43
Date Received: 6/25/2009
Matrix: Soil
Solids 88.58
Report Basis: Dry Weight

Parameter	Result	RL	Units	Dilution Factor	Date Analyzed
Diesel Range Organics	326	65.2	mg/Kg	10	06/30/09 09:55
Surrogate Spike Results		Spike Added	Control Limits	Spike Result	Percent Recovery
OTP		40	40-140	NA	NA

Comments:

Batch Information


Analytical Batch: EP063009
Analytical Method: 8015
Instrument: GC6
Analyst: EAW

Prep batch: 14522
Prep Method: 3541
Prep Date: 06/26/09
Initial Prep Wt/Vol: 34.63 G
Prep Final Vol: 10 mL

Analyst: 

NC Certification #481

N.C. Certification #481

Reviewed By: 
DRO.XLS
Page 13 of 17

**Results for Total Petroleum Hydrocarbons
by GC/FID 8015**

Client Sample ID: FLOOR-LCH778
 Client Project ID: LCH-778
 Lab Sample ID: G128-2393-5D
 Lab Project ID: G128-2393

Date Collected: 6/24/2009 12:25
 Date Received: 6/25/2009
 Matrix: Soil
 Solids 90.60
 Report Basis: Dry Weight

Parameter	Result	RL	Units	Dilution Factor	Date Analyzed
Diesel Range Organics	36.5	6.69	mg/Kg	1	06/29/09 16:32
Surrogate Spike Results					
		Spike Added	Control Limits	Spike Result	Percent Recovery
OTP		40	40-140	36.2	90.4

Comments:

Batch Information

Analytical Batch: EP062909
 Analytical Method: 8015
 Instrument: GC6
 Analyst: EAW

Prep batch: 14522
 Prep Method: 3541
 Prep Date: 06/26/09
 Initial Prep Wt/Vol: 33 G
 Prep Final Vol: 10 mL

Analyst: *EW*

NC Certification #481

N.C. Certification #481

Reviewed By: *MD*
PRO.XLS
 Page 14 of 17

**Results for Total Petroleum Hydrocarbons
by GC/FID 8015**

Client Sample ID: NSW-LCH778
 Client Project ID: LCH-778
 Lab Sample ID: G128-2393-6D
 Lab Project ID: G128-2393

Date Collected: 6/24/2009 12:40
 Date Received: 6/25/2009
 Matrix: Soil
 Solids 88.40
 Report Basis: Dry Weight

Parameter	Result	RL	Units	Dilution Factor	Date Analyzed
Diesel Range Organics	BQL	6.60	mg/Kg	1	06/29/09 17:00
Surrogate Spike Results					
		Spike Added	Control Limits	Spike Result	Percent Recovery
OTP		40	40-140	36.3	90.6

Comments:

Batch Information


Analytical Batch: EP062909
 Analytical Method: 8015
 Instrument: GC6
 Analyst: EAW

Prep batch: 14522
 Prep Method: 3541
 Prep Date: 06/26/09
 Initial Prep Wt/Vol: 34.27 G
 Prep Final Vol: 10 mL

Analyst: 

NC Certification #481

N.C. Certification #481

Reviewed By: 
 DRQ XLS
 Page 15 of 17

**Results for Total Petroleum Hydrocarbons
by GC/FID 8015**

Client Sample ID: SOURCE-LCH778
 Client Project ID: LCH-778
 Lab Sample ID: G128-2393-8D
 Lab Project ID: G128-2393

Date Collected: 6/24/2009 13:00
 Date Received: 6/25/2009
 Matrix: Soil
 Solids 92.35
 Report Basis: Dry Weight


Parameter	Result	RL	Units	Dilution Factor	Date Analyzed
Diesel Range Organics	1670	64.5	mg/Kg	10	07/02/09 11:17
Surrogate Spike Results		Spike Added	Control Limits	Spike Result	Percent Recovery
OTP		40	40-140	47.7	119

Comments:

Batch Information


Analytical Batch: EP070209
 Analytical Method: 8015
 Instrument: GC6
 Analyst: EAW

Prep batch: 14522
 Prep Method: 3541
 Prep Date: 06/26/09
 Initial Prep Wt/Vol: 33.56 G
 Prep Final Vol: 10 mL

Analyst: 

NC Certification #481

N.C. Certification #481

Reviewed By: 
 DRO.XLS
 Page 16 of 17



CHAIN OF CUSTODY RECORD
SGS North America Inc.

- Locations Nationwide
- Alaska
 - New Jersey
 - North Carolina
 - Maryland
 - New York
 - Ohio

www.us.sgs.com

098393

1 CLIENT:					SGS Reference: 6128-2393					PAGE 1 OF 1									
CONTACT: Steve Hudson PHONE NO.: (910) 452-5861					CONTAINERS					Preservatives Used Analysis Required 3 TPH DRD/GRO									
PROJECT: LCH-778 SITE/PWSID#: 209-025																			
REPORTS TO: Steven Hudson FAX NO.: (910) 452-5861																			
INVOICE TO: CATLIN QUOTE #: D00101 P.O. NUMBER: 290625-1																			
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No	SAMPLE TYPE	Preservatives Used	Analysis Required											REMARKS
✓	WC-LCH778	6-24-09	12:55	SOIL	3	C	✓												Lexine
✓	ESW-LCH778	6-24-09	12:30	"	3	G	✓												Summary
✓	SSW-LCH778	" "	12:35	"	3	G	✓												EDD
✓	WSW-LCH778	" "	12:43	"	3	G	✓												Report Low
✓	FLOOR-LCH778	" "	12:25	"	3	G	✓												Runs
✓	NSW-LCH778	" "	12:46	"	3	G	✓												
✓	STOCKPILE-LCH778	" "	12:20	"	3	C	✓												Rush (only)
✓	SOURCE-LCH778	6-24-09	13:00	"	3	G	✓												
5 Collected/Relinquished By: (1) [Signature] Date: 6/25/09 Time: 08:05					Received By: [Signature]					4 Shipping Carrier:					Samples Received Cold? (Circle) YES <input checked="" type="checkbox"/> NO				
Relinquished By: (2) [Signature] Date: 6/25/09 Time: 8:45					Received By: [Signature]					Shipping Ticket No:					Temperature°C: 5.8				
Relinquished By: (3)					Received By:					Special Deliverable Requirements:					Chain of Custody Seal: (Circle) INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT <input checked="" type="checkbox"/>				
Relinquished By: (4)					Received By:					Special Instructions:					Requested Turnaround Time: RUSH 6/29/09 <input checked="" type="checkbox"/> STD <input checked="" type="checkbox"/>				

N.C. Certification #481

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SGS North America, Inc.

SGS North America, Inc.



Steve Hudson
Richard Catlin & Associates
P.O. Box 10279
Wilmington, NC 28404-0279

Report Number: G128-2411

Client Project: LCH 778

Dear Steve Hudson,

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. 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 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.

Barbara Hager

Project Manager
Barbara Hager

July 16, 2009

Date

SGS North America, Inc.

Case Narrative

Catlin

SGS Wilmington Project: G128-2411

Project Name: LCH 778

SGS Environmental Services Inc.

July 15, 2009

- Two water samples were accepted into the laboratory on July 14th, 2009 at 0825 for analyses as indicated on the chain of custody. The samples were received in good condition, with a temperature of 5.1°C.
- All extractions and analyses were completed within holding time limits with the following quality control exceptions.

8015-DROs

Sample LCH778 NW2 contained a peak that fell within the DRO range, but is not considered diesel. The peak detected, exceeded the calibration limits and therefore required a 10x dilution. The analysis of the dilution detected the same peak, but at an earlier retention time than the initial analysis and not within the DRO range. The sample was then re-analyzed at a 5x to obtain a lower reporting limit. All 3 sets of results, along with the chromatographs, are contained in this SDG.

Craig Longo Date 7/16/09
Data Review

SGS North America, Inc.
List of Reporting Abbreviations
And Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantification Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL/CL = Reporting Limit / Control Limit

RPD = Relative Percent Difference

UJ = Target analytes with recoveries that are $10\% < \%R < LCL$; # of MEs are allowable and compounds are not detected in the sample.

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% solids = Percent Solids

Special Notes:

- 1) Metals and mercury samples are digested with a hot block; see the standard operating procedure document for details.
- 2) Uncertainty for all reported data is less than or equal to 30 percent.

**Results for Total Petroleum Hydrocarbons
by GC/FID 8015**

Client Sample ID: LCH778 NW2
 Client Project ID: LCH 778
 Lab Sample ID: G128-2411-1D
 Lab Project ID: G128-2411

Date Collected: 7/13/2009 15:00
 Date Received: 7/14/2009
 Matrix: Soil
 Solids 87.80
 Report Basis: Dry Weight

Parameter	Result	RL	Units	Dilution Factor	Date Analyzed
Diesel Range Organics	1540	6.74	mg/Kg	1	07/14/09 18:13
Surrogate Spike Results		Spike Added	Control Limits	Spike Result	Percent Recovery
OTP		40	40-140	32.4	81

Comments:

Batch Information


Analytical Batch: EP071409
 Analytical Method: 8015
 Instrument: GC6
 Analyst: EAW

Prep batch: 14634
 Prep Method: 3541
 Prep Date: 07/14/09
 Initial Prep Wt/Vol: 33.78 G
 Prep Final Vol: 10 mL

Analyst: BWS

NC Certification #481

N.C. Certification #481

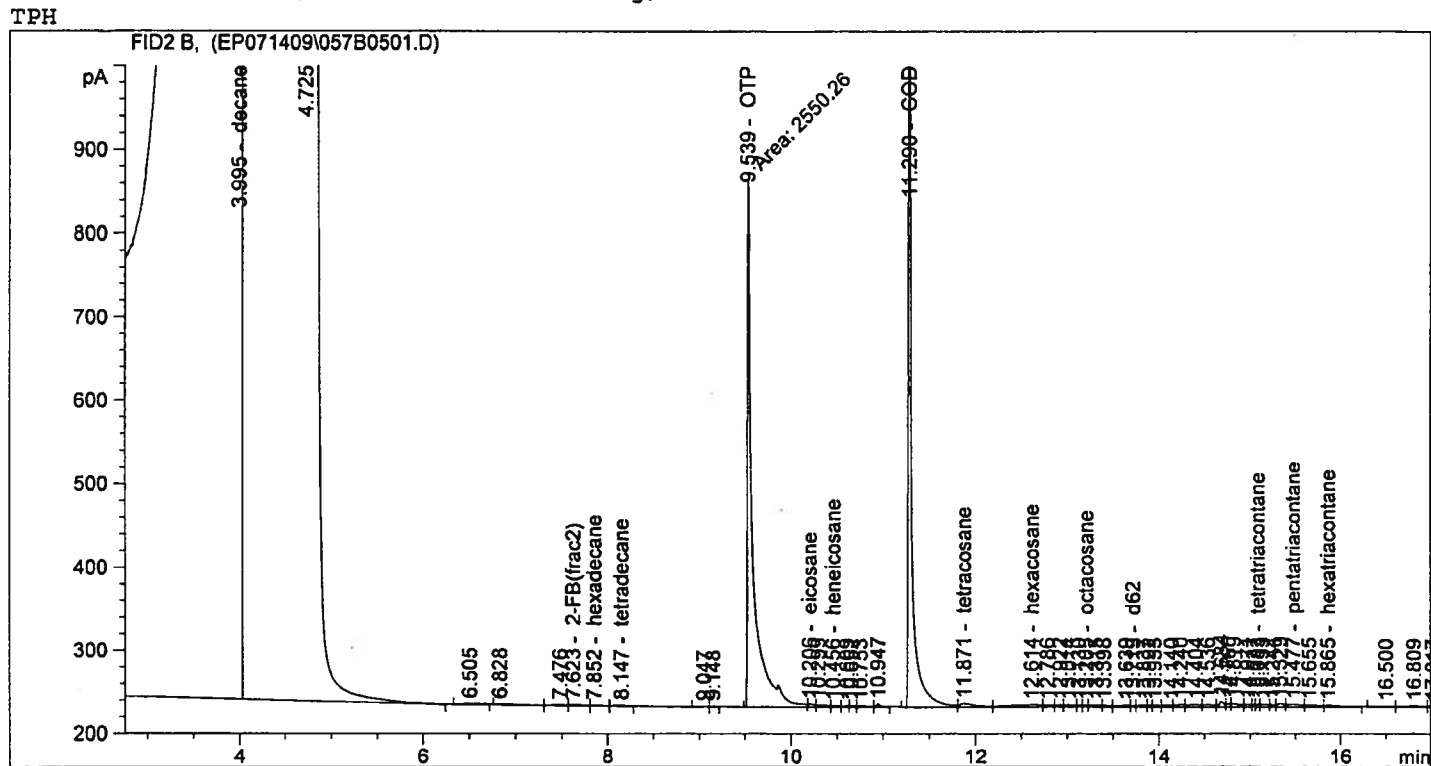
Reviewed By: 
DRB.XLS
 Page 4 of 18

SGS North America, Inc.

```

=====
Injection Date : 7/14/2009 6:13:27 PM      Seq. Line : 5
Sample Name   : G128-2411-1D/x1           Location  : Vial 57
Acq. Operator : EAW                       Inj      : 1
Acq. Instrument : GC6                     Inj Volume : 10 µl
Acq. Method   : C:\HPCHEM\1\METHODS\DCSEPHB.M
Last changed  : 10/31/2008 9:50:11 AM by EAW
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_R.M
Last changed  : 7/15/2009 11:48:51 AM by EAW
                (modified after loading)
    
```

BWS
7-15-09



=====
Area Percent Report
=====

```

Sorted By      : Signal
Calib. Data Modified : 7/9/2009 9:39:31 AM
Multiplier     : 1.0000
Dilution       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
    
```

*Exceeds
Calibration
Range.*

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.985		0.0000	0.00000	0.00000	nonane
2	3.995	BV	0.5126	1.27843e5	0.71438	decane
3	5.561		0.0000	0.00000	0.00000	dodecane
4	7.247		0.0000	0.00000	0.00000	2-BrN(frac)
5	7.623	VV	0.1411	16.13233	9.015e-5	2-FB(frac2)
6	7.852	VV	0.1117	7.62638	4.262e-5	hexadecane
7	8.147	VV	0.1325	12.39935	6.929e-5	tetradecane
8	9.530		0.0000	0.00000	0.00000	nonadecane
9	9.539	MM	0.0660	2550.26416	0.01425	OTP
10	9.760		0.0000	0.00000	0.00000	octadecane
11	10.206	VV	0.0622	17.41573	9.732e-5	eicosane
12	10.456	VV	0.0798	11.93273	6.668e-5	heneicosane

SGS North America, Inc.

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.290	VV	0.0321	2293.87524	0.01282	COD
14	11.871	VV	0.1601	52.08155	0.00029	tetracosane
15	12.095		0.0000	0.00000	0.00000	pentacosane
16	12.136		0.0000	0.00000	0.00000	docosane
17	12.614	VV	0.2787	67.76577	0.00038	hexacosane
18	13.205	VV	0.0540	8.69267	4.857e-5	octacosane
19	13.719	VV	0.0563	7.16342	4.003e-5	d62
20	15.083	VV	0.0460	9.64346	5.389e-5	tetratriacontane
21	15.477	VV	0.1428	35.64046	0.00020	pentatriacontane
22	15.865	VV	0.1746	33.06608	0.00018	hexatriacontane

Totals : 1.32967e5 0.7430

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.046	BP	0.0893	5.52412	3.087e-5	?
2	0.217	VP	0.2195	20.24453	0.00011	?
3	0.759	VV S	0.0285	1.17671e5	0.65754	?
4	1.336	VV S	0.4860	1.57531e7	88.02808	?
5	1.410	VV S	0.0554	1.67231e6	9.34483	?
6	1.603	VBAS	0.0320	3388.53076	0.01894	?
7	4.725	VV	0.4480	2.15397e5	1.20364	?
8	6.505	VV	0.2110	25.96865	0.00015	?
9	6.828	VV	0.2194	24.56230	0.00014	?
10	7.476	VV	0.1380	14.80968	8.276e-5	?
11	9.047	VV	0.0978	6.06121	3.387e-5	?
12	9.148	VV	0.0553	5.16765	2.888e-5	?
13	10.299	VV	0.1029	22.10238	0.00012	?
14	10.609	VV	0.0561	8.57004	4.789e-5	?
15	10.652	VV	0.0575	8.06481	4.507e-5	?
16	10.753	VV	0.1080	14.30415	7.993e-5	?
17	10.947	VV	0.0476	13.59504	7.597e-5	?
18	12.786	VV	0.0919	19.27373	0.00011	?
19	12.922	VV	0.0755	14.78515	8.262e-5	?
20	13.014	VV	0.1079	21.40732	0.00012	?
21	13.130	VV	0.0515	8.81729	4.927e-5	?
22	13.315	VV	0.1116	21.35773	0.00012	?
23	13.398	VV	0.0800	13.93870	7.789e-5	?
24	13.639	VV	0.1241	22.48411	0.00013	?
25	13.837	VV	0.0946	15.90768	8.889e-5	?
26	13.892	VV	0.0474	7.40738	4.139e-5	?
27	13.953	VV	0.0775	13.03340	7.283e-5	?
28	14.140	VV	0.0914	17.75330	9.921e-5	?
29	14.240	VV	0.0816	21.35281	0.00012	?
30	14.404	VV	0.1270	31.15416	0.00017	?
31	14.536	VV	0.1031	24.66432	0.00014	?
32	14.684	VV	0.0522	24.82822	0.00014	?
33	14.765	VV	0.0497	13.27651	7.419e-5	?
34	14.819	VV	0.0858	27.24254	0.00015	?
35	14.971	VV	0.0632	16.28129	9.098e-5	?
36	15.037	VV	0.0336	7.42047	4.147e-5	?
37	15.133	VV	0.0780	19.15060	0.00011	?
38	15.244	VV	0.0622	10.79031	6.030e-5	?
39	15.329	VV	0.0747	22.97394	0.00013	?
40	15.655	VV	0.1357	28.94363	0.00016	?
41	16.500	VV	0.1813	15.54318	8.686e-5	?
42	16.809	VV	0.1958	25.52469	0.00014	?
43	17.017	VV	0.0869	8.56473	4.786e-5	?
44	17.133	VV	0.0594	4.99862	2.793e-5	?
45	17.192	VV	0.1648	19.49021	0.00011	?
46	17.454	VV	0.1399	13.98990	7.818e-5	?
47	17.662	VV	0.0605	5.03960	2.816e-5	?
48	17.779	VV	0.0951	7.14592	3.993e-5	?

SGS North America, Inc.

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
49	17.956	VV	0.0815	4.96698	2.776e-5	?
50	18.089	VV	0.0784	4.78155	2.672e-5	?
51	18.277	VV	0.1116	6.34147	3.544e-5	?

Uncalib. totals : 1.77626e7 99.2570

Results obtained with enhanced integrator!

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

**Results for Total Petroleum Hydrocarbons
by GC/FID 8015**

Client Sample ID: LCH778 NW2
 Client Project ID: LCH 778
 Lab Sample ID: G128-2411-1D
 Lab Project ID: G128-2411

Date Collected: 7/13/2009 15:00
 Date Received: 7/14/2009
 Matrix: Soil
 Solids 87.80
 Report Basis: Dry Weight

Parameter	Result	RL	MDL	Units	Dilution Factor	Date Analyzed
Diesel Range Organics	BQL	33.7	6.57	mg/Kg	5	07/16/09 09:29
Surrogate Spike Results		Spike Added		Control Limits	Spike Result	Percent Recovery
OTP		40		40-140	34.2	85.4

Comments:

J= Estimated value between MDL and RL

Batch Information

Analytical Batch: EP071609
 Analytical Method: 8015
 Instrument: GC6
 Analyst: EAW

Prep batch: 14634
 Prep Method: 3541
 Prep Date: 07/14/09
 Initial Prep Wt/Vol: 33.78 G
 Prep Final Vol: 10 mL

Analyst:

NC Certification #481

Reviewed By:
DRO.XLS

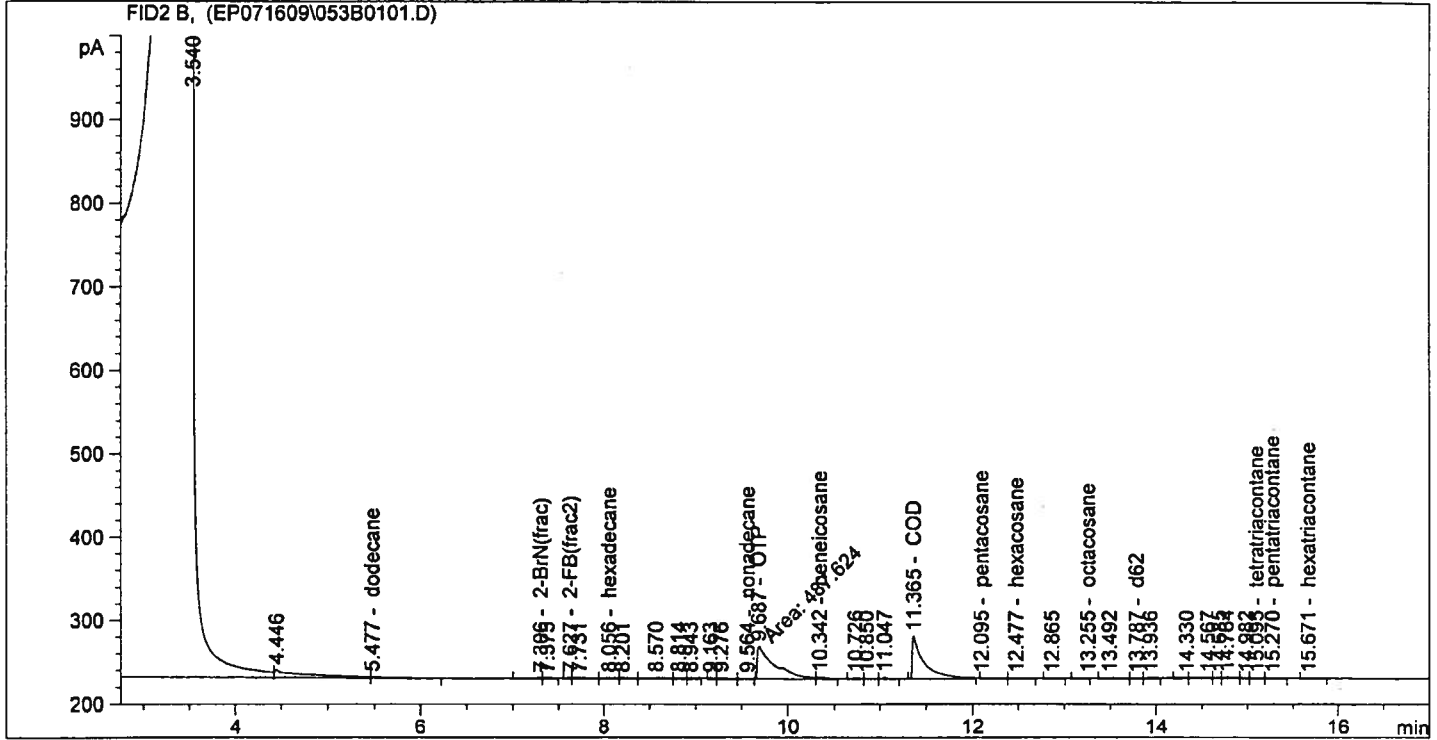
SGS North America, Inc.

```

=====
Injection Date   : 7/16/2009 9:29:59 AM      Seq. Line   :    1
Sample Name     : G128-2411-1D x5           Location    : Vial 53
Acq. Operator  : EAW                        Inj         :    1
Acq. Instrument : GC6                      Inj Volume  : 10 µl
Acq. Method    : C:\HPCHEM\1\METHODS\DCSEPHB.M
Last changed   : 10/31/2008 9:50:11 AM by EAW
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_R.M
Last changed   : 7/16/2009 10:23:38 AM by EAW
                (modified after loading)
    
```

BWS
7-16-09

TPH



Area Percent Report

```

Sorted By      :      Signal
Calib. Data Modified : 7/16/2009 10:23:43 AM
Multiplier    :      1.0000
Dilution      :      1.0000
Use Multiplier & Dilution Factor with ISTDs
    
```

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.985		0.0000	0.00000	0.00000	nonane
2	3.911		0.0000	0.00000	0.00000	decane
3	5.477	VV	0.2673	22.05150	0.00012	dodecane
4	7.306	VV	0.1436	11.50113	6.512e-5	2-BrN(frac)
5	7.627	VV	0.0673	5.10339	2.889e-5	2-FB(frac2)
6	7.966		0.0000	0.00000	0.00000	tetradecane
7	8.056	VV	0.1393	11.50260	6.512e-5	hexadecane
8	9.564	VV	0.1152	5.86945	3.323e-5	nonadecane
9	9.687	MM	0.2106	487.62436	0.00276	OTP
10	9.760		0.0000	0.00000	0.00000	octadecane
11	10.082		0.0000	0.00000	0.00000	eicosane
12	10.342	VV	0.1066	16.92474	9.582e-5	heneicosane

SGS North America, Inc.

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.365	VV	0.1131	449.87140	0.00255	COD
14	11.705		0.0000	0.00000	0.00000	tetracosane
15	12.095	VV	0.1759	17.98759	0.00010	pentacosane
16	12.136		0.0000	0.00000	0.00000	docosane
17	12.477	VV	0.1814	11.68055	6.613e-5	hexacosane
18	13.255	VV	0.1202	6.49565	3.678e-5	octacosane
19	13.787	VV	0.1007	5.83975	3.306e-5	d62
20	15.095	VV	0.1092	9.21311	5.216e-5	tetratriacontane
21	15.270	VV	0.1589	11.48771	6.504e-5	pentatriacontane
22	15.671	VV	0.1564	8.17450	4.628e-5	hexatriacontane

Totals : 1081.32743 6.122e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.042	BP	0.1060	6.33822	3.588e-5	?
2	0.208	VP	0.2322	20.03576	0.00011	?
3	1.364	VBAS	0.5172	1.75923e7	99.60202	?
4	1.612	BB X	0.0145	1765.54907	0.01000	?
5	1.907	BP	0.0263	14.95767	8.469e-5	?
6	3.540	VV	0.5133	6.69837e4	0.37924	?
7	4.446	VV	0.2525	200.13043	0.00113	?
8	7.375	VV	0.1103	9.00157	5.096e-5	?
9	7.731	VV	0.1661	16.13865	9.137e-5	?
10	8.201	VV	0.1361	10.43300	5.907e-5	?
11	8.570	VV	0.1951	25.71778	0.00015	?
12	8.814	VV	0.0996	11.51183	6.518e-5	?
13	8.943	VV	0.0997	9.98425	5.653e-5	?
14	9.163	VV	0.0694	5.15672	2.920e-5	?
15	9.276	VV	0.0988	9.80247	5.550e-5	?
16	10.726	VV	0.0800	8.69287	4.922e-5	?
17	10.850	VV	0.0958	4.97447	2.816e-5	?
18	11.047	VV	0.0478	6.83535	3.870e-5	?
19	12.865	VV	0.1501	7.67423	4.345e-5	?
20	13.492	VV	0.2006	13.41011	7.592e-5	?
21	13.936	VV	0.1355	9.25579	5.240e-5	?
22	14.330	VV	0.1145	7.69040	4.354e-5	?
23	14.567	VV	0.1711	14.28558	8.088e-5	?
24	14.685	VV	0.0718	6.25844	3.543e-5	?
25	14.764	VV	0.1177	14.37080	8.136e-5	?
26	14.982	VV	0.0825	6.38879	3.617e-5	?
27	17.215	VV	0.1390	7.27537	4.119e-5	?
28	17.372	VV	0.0979	5.70305	3.229e-5	?
29	17.521	VV	0.1047	5.39668	3.055e-5	?
30	17.985	VV	0.1339	5.54387	3.139e-5	?

Uncalib. totals : 1.76615e7 99.9939

Results obtained with enhanced integrator!

3 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

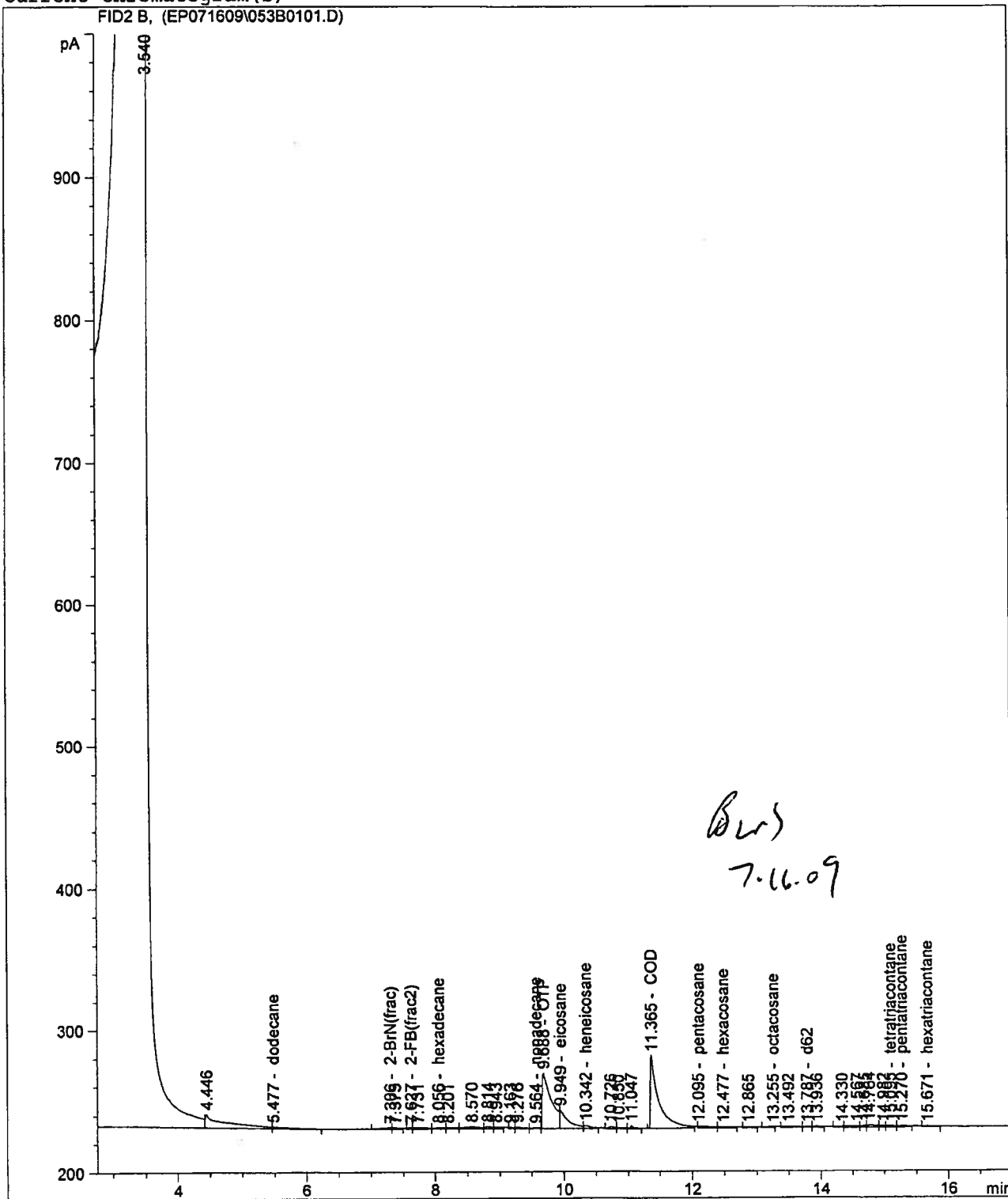
Warning : Invalid calibration curve, (pentacosane)

*** End of Report ***

Injection Date : 7/16/2009 9:29:59 AM Seq. Line : 1
 Sample Name : G128-2411-1D x5 Location : Vial 53
 Acq. Operator : EAW Inj : 1
 Acq. Instrument : GC6 Inj Volume : 10 µl
 Acq. Method : C:\HPCHEM\1\METHODS\DCSEPHB.M
 Last changed : 10/31/2008 9:50:11 AM by EAW
 Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_R.M
 Last changed : 7/16/2009 10:23:38 AM by EAW
 (modified after loading)

TPH

Current Chromatogram(s)
FID2 B, (EP071609\053B0101.D)



BWS
7.16.09

**Results for Total Petroleum Hydrocarbons
by GC/FID 8015**

Client Sample ID: LCH778 NW2
 Client Project ID: LCH 778
 Lab Sample ID: G128-2411-1D
 Lab Project ID: G128-2411

Date Collected: 7/13/2009 15:00
 Date Received: 7/14/2009
 Matrix: Soil
 Solids 87.80
 Report Basis: Dry Weight

Parameter	Result	RL	Units	Dilution Factor	Date Analyzed
Diesel Range Organics	BQL	67.4	mg/Kg	10	07/15/09 10:29
Surrogate Spike Results		Spike Added	Control Limits	Spike Result	Percent Recovery
OTP		40	40-140	46.9	117

Comments:

Batch Information

Analytical Batch: EP071409
 Analytical Method: 8015
 Instrument: GC6
 Analyst: EAW

Prep batch: 14634
 Prep Method: 3541
 Prep Date: 07/14/09
 Initial Prep Wt/Vol: 33.78 G
 Prep Final Vol: 10 mL

Analyst: Bws

NC Certification #481

N.C. Certification #481

Reviewed By: [Signature]
DRC.XLS

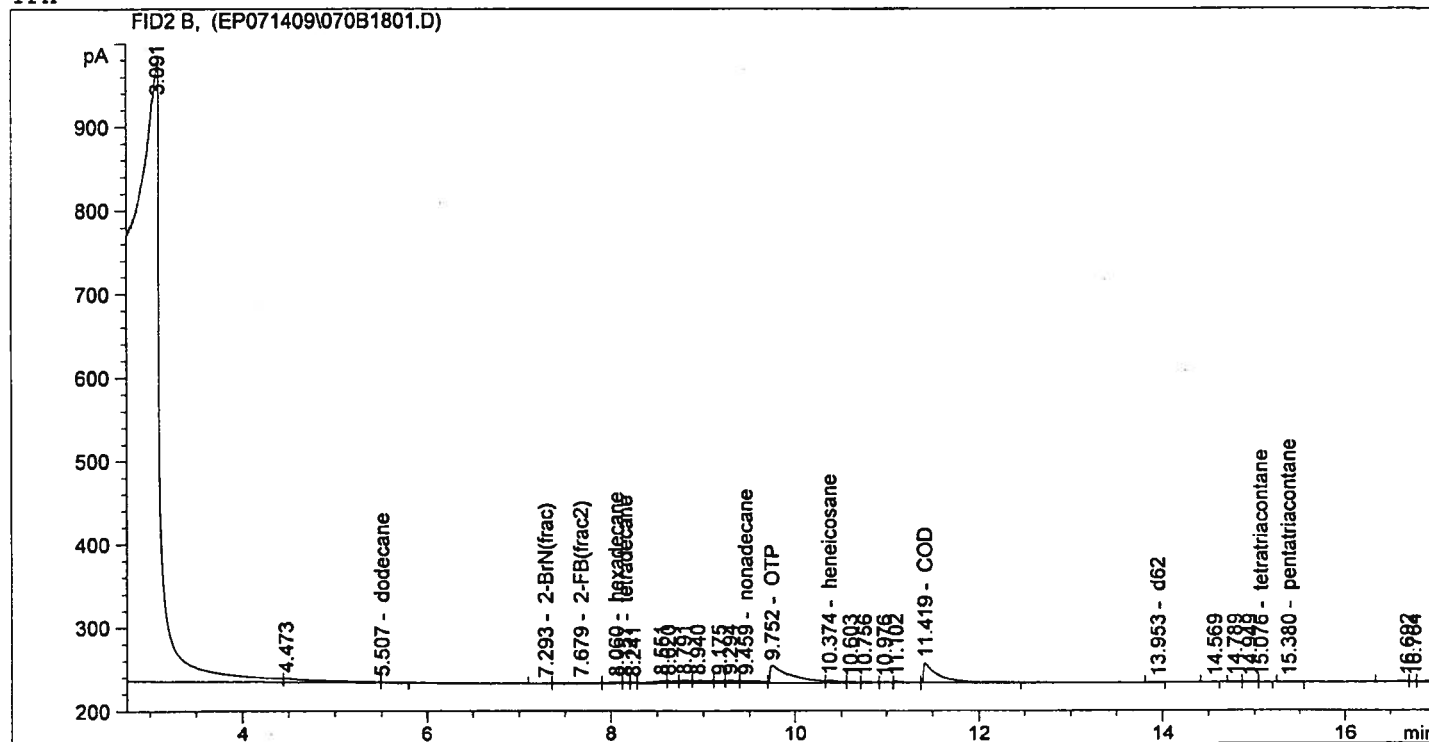
SGS North America, Inc.

```

=====
Injection Date   : 7/15/2009 10:29:09 AM   Seq. Line : 18
Sample Name     : G128-2411-1D x10         Location  : Vial 70
Acq. Operator  : EAW                       Inj       : 1
Acq. Instrument: GC6                       Inj Volume: 10 µl
Acq. Method    : C:\HPCHEM\1\METHODS\DCSEPHB.M
Last changed   : 10/31/2008 9:50:11 AM by EAW
Analysis Method: C:\HPCHEM\1\METHODS\EPHTK R.M
Last changed   : 7/15/2009 11:50:15 AM by EAW
                (modified after loading)
    
```

Sw
7.15.09

TPH



Area Percent Report

```

Sorted By      : Signal
Calib. Data Modified : 7/15/2009 11:50:15 AM
Multiplier     : 1.0000
Dilution       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
    
```

Signal 1: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.985		0.0000	0.00000	0.00000	nonane
2	3.911		0.0000	0.00000	0.00000	decane
3	5.507	VV	0.1707	10.41968	5.595e-5	dodecane
4	7.293	VV	0.1125	4.83131	2.594e-5	2-BrN(frac)
5	7.679	VV	0.2733	22.67872	0.00012	2-FB(frac2)
6	8.060	VV	0.1339	13.64973	7.330e-5	hexadecane
7	8.157	VV	0.0634	5.95700	3.199e-5	tetradecane
8	9.459	VV	0.1939	41.27805	0.00022	nonadecane
9	9.752	VV	0.1880	315.23276	0.00169	OTP
10	9.760		0.0000	0.00000	0.00000	octadecane
11	10.082		0.0000	0.00000	0.00000	eicosane
12	10.374	VV	0.1235	28.14616	0.00015	heneicosane

SGS North America, Inc.

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.419	VV	0.1434	258.42178	0.00139	COD
14	11.705		0.0000	0.00000	0.00000	tetracosane
15	12.095		0.0000	0.00000	0.00000	pentacosane
16	12.136		0.0000	0.00000	0.00000	docosane
17	12.661		0.0000	0.00000	0.00000	hexacosane
18	13.211		0.0000	0.00000	0.00000	octacosane
19	13.953	VV	0.1158	6.07734	3.264e-5	d62
20	15.076	VV	0.1175	6.19190	3.325e-5	tetratriacontane
21	15.380	VV	0.1576	10.18919	5.472e-5	pentatriacontane
22	15.867		0.0000	0.00000	0.00000	hexatriacontane

Totals : 723.07362 3.883e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.045	BP	0.1014	6.75573	3.628e-5	?
2	0.222	VP	0.2967	31.51698	0.00017	?
3	1.416	VBAS	0.3918	1.85848e7	99.80143	?
4	1.661	BB T	0.0150	1439.68933	0.00773	?
5	1.948	BP	0.0305	5.97838	3.210e-5	?
6	3.091	VV	0.5558	3.42909e4	0.18414	?
7	4.473	VV	0.2981	129.92130	0.00070	?
8	8.241	VV	0.0547	4.85491	2.607e-5	?
9	8.551	VV	0.1504	33.24958	0.00018	?
10	8.620	VV	0.0956	20.00259	0.00011	?
11	8.791	VV	0.0975	25.40978	0.00014	?
12	8.940	VV	0.1574	39.45329	0.00021	?
13	9.175	VV	0.0926	19.60504	0.00011	?
14	9.294	VV	0.1109	25.98666	0.00014	?
15	10.603	VV	0.1065	11.00083	5.908e-5	?
16	10.756	VV	0.1057	14.37476	7.719e-5	?
17	10.976	VV	0.1078	6.79421	3.649e-5	?
18	11.102	VV	0.0783	12.72623	6.834e-5	?
19	14.569	VV	0.1191	8.30591	4.460e-5	?
20	14.789	VV	0.0930	8.72853	4.687e-5	?
21	14.949	VV	0.1127	9.39036	5.043e-5	?
22	16.692	VV	0.1154	9.58906	5.149e-5	?
23	16.764	VV	0.0609	5.75111	3.088e-5	?
24	17.090	VV	0.2121	27.58871	0.00015	?
25	17.313	VV	0.1250	15.62089	8.389e-5	?
26	17.469	VV	0.1415	19.83874	0.00011	?
27	17.622	VV	0.1576	18.98703	0.00010	?
28	18.171	VV	0.0850	5.00435	2.687e-5	?
29	18.321	VV	0.1314	6.50994	3.496e-5	?

Uncalib. totals : 1.86210e7 99.9961

Results obtained with enhanced integrator!

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====
*** End of Report ***

Results for Total Petroleum Hydrocarbons
by GC/FID 8015

Client Sample ID: LCH778 WW2
 Client Project ID: LCH 778
 Lab Sample ID: G128-2411-2D
 Lab Project ID: G128-2411

Date Collected: 7/13/2009 14:50
 Date Received: 7/14/2009
 Matrix: Soil
 Solids 80.62
 Report Basis: Dry Weight

Parameter	Result	RL	MDL	Units	Dilution Factor	Date Analyzed
Diesel Range Organics	BQL	7.51	1.46	mg/Kg	1	07/14/09 18:42
Surrogate Spike Results		Spike Added		Control Limits	Spike Result	Percent Recovery
OTP		40		40-140	31.5	78.7

Comments:

J= Estimated value between MDL and RL

Batch Information

Analytical Batch: EP071409
 Analytical Method: 8015
 Instrument: GC6
 Analyst: EAW

Prep batch: 14634
 Prep Method: 3541
 Prep Date: 07/14/09
 Initial Prep Wt/Vol: 33.04 G
 Prep Final Vol: 10 mL

Analyst: *BS*

NC Certification #481

N.C. Certification #481

Reviewed By: *[Signature]*
PRO.XLS
 Page 15 of 18

Results for Total Petroleum Hydrocarbons

by GC/FID 8015

Client Sample ID: LCH778 NW2
 Client Project ID: LCH 778
 Lab Sample ID: G128-2411-1A
 Lab Project ID: G128-2411
 Report Basis: Dry Weight

Analyzed By: DVO
 Date Collected: 7/13/2009 15:00
 Date Received: 7/14/2009
 Matrix: Soil
 Solids 87.80

Analyte	Result	RL	Units	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.71	mg/Kg	1	07/14/09 13:48

Surrogate Spike Results

	Added	Result	Recovery	Flag	Limits
BFB	100	113.0	113.0		70-130

Comments:

Batch Information

Analytical Batch: VP071409
 Analytical Method: 8015
 Instrument ID: GC4
 Analyst: DVO

Prep Method: 5035
 Initial Wt/Vol: 5.98 g
 Final Volume: 5 mL

Analyst: ovo

**Results for Total Petroleum Hydrocarbons
by GC/FID 8015**

Client Sample ID: LCH778 WW2
 Client Project ID: LCH 778
 Lab Sample ID: G128-2411-2A
 Lab Project ID: G128-2411
 Report Basis: Dry Weight

Analyzed By: DVO
 Date Collected: 7/13/2009 14:50
 Date Received: 7/14/2009
 Matrix: Soil
 Solids 80.62

Analyte	Result	RL	Units	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	7.21	mg/Kg	1	07/14/09 14:15

Surrogate Spike Results

	Added	Result	Recovery	Flag	Limits
BFB	100	106.0	106.0		70-130

Comments:

Batch Information

Analytical Batch: VP071409
 Analytical Method: 8015
 Instrument ID: GC4
 Analyst: DVO

Prep Method: 5035
 Initial Wt/Vol: 5.16 g
 Final Volume: 5 mL

Analyst: DVO

APPENDIX C
SOIL DISPOSAL MANIFESTS

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL # 11154

LOAD # 07459

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION: _____

Transporter: P & F Environmental

Gross Weight (lbs.): 78940

Truck #: PF 103

Tare Weight (lbs.): 33060

Truck Tag #/State: ZB 16949

Net Weight (lbs.): 45880

Driver Name (Print): Walter Parker

Net Weight (tons): 22.94

I hereby certify that the material stated herein was received at the waste origination site listed.

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Walter Parker 6-23-09
Driver Signature Date

Walter Parker 6-23-09
Driver Signature Date

Inspected and Accepted By: _____

[Signature] 6/23/09 [Signature]

NOTICE TO TRANSPORTER

TRUCKS WILL NOT BE PERMITTED TO ENTER
THE FACILITY WITHOUT THIS ENTRANCE TICKET

WHITE - Invoice

YELLOW - Generator

PINK - Trucker

GOLD - P & F Environmental

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL# PT11154

LOAD # 07460

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION: _____

Transporter: P & F Environmental

Gross Weight (lbs.): 76380

Truck #: PF 106

Tare Weight (lbs.): 24500

Truck Tag #/State: ZB 37964

Net Weight (lbs.): 51880

Driver Name (Print): Bryant Bridger

Net Weight (tons): 25.94

I hereby certify that the material stated herein was received at the waste origination site listed.

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Bryant Bridger 6.23.09
Driver Signature Date

Bryant Bridger 6.23.09
Driver Signature Date

Inspected and Accepted By: [Signature] 6/23/09 [Signature]

NOTICE TO TRANSPORTER

**TRUCKS WILL NOT BE PERMITTED TO ENTER
THE FACILITY WITHOUT THIS ENTRANCE TICKET**

WHITE - Invoice YELLOW - Generator PINK - Trucker GOLD - P & F Environmental

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL# 11154

LOAD # 07461

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION: _____

Transporter: P & F Environmental

Gross Weight (lbs.): 80100

Truck #: PF 102

Tare Weight (lbs.): 33420

Truck Tag #/State: ZB 25821

Net Weight (lbs.): 46680

Driver Name (Print): Tim Thorne

Net Weight (tons): 23.34

I hereby certify that the material stated herein was received at the waste origination site listed.

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Tim Thorne 6-23-09
Driver Signature Date

Tim Thorne 6-23-09
Driver Signature Date

Inspected and Accepted By: [Signature] 6/23/09 [Signature]

NOTICE TO TRANSPORTER

TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT THIS ENTRANCE TICKET

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL# 11154

LOAD # 07462

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION: _____

Transporter: P & F Environmental

Gross Weight (lbs.): 81080

Truck #: PF 104

Tare Weight (lbs.): 31700

Truck Tag #/State: ZB 12252

Net Weight (lbs.): 49380

Driver Name (Print): Franklin Rhodes

Net Weight (tons): 24.69

I hereby certify that the material stated herein was received at the waste origination site listed.

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Franklin Rhodes 6-23-09
Driver Signature Date

Franklin Rhodes 6-23-09
Driver Signature Date

Inspected and Accepted By: [Signature] 6/23/09 [Signature]

NOTICE TO TRANSPORTER

TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT THIS ENTRANCE TICKET

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL# 11154

LOAD # 07466

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION: _____

Transporter: P & F Environmental

Gross Weight (lbs.): 79140

Truck #: PF 102

Tare Weight (lbs.): 33420

Truck Tag #/State: ZB 25821

Net Weight (lbs.): 45720

Driver Name (Print): Tim Thorne

Net Weight (tons): 22.86

I hereby certify that the material stated herein was received at the waste origination site listed.

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Tim Thorne 6.23.09
Driver Signature Date

Tim Thorne 6-23-09
Driver Signature Date

Inspected and Accepted By: George Taylor 7/1/09 20090623
James Trickey

NOTICE TO TRANSPORTER

**TRUCKS WILL NOT BE PERMITTED TO ENTER
THE FACILITY WITHOUT THIS ENTRANCE TICKET**

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL# 11154

LOAD # 07467

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION: _____

Transporter: P & F Environmental

Gross Weight (lbs.): 83660

Truck #: PF 104

Tare Weight (lbs.): 31700

Truck Tag #/State: 2B 12252

Net Weight (lbs.): 51960

Driver Name (Print): Franklin Rhodes

Net Weight (tons): 25.98

I hereby certify that the material stated herein was received at the waste origination site listed.

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Franklin Rhodes 6-23-09
Driver Signature Date

Franklin Rhodes 6-23-09
Driver Signature Date

Inspected and Accepted By: George L. Taylor Franklin Rhodes 20090623
Franklin Rhodes

NOTICE TO TRANSPORTER

TRUCKS WILL NOT BE PERMITTED TO ENTER
THE FACILITY WITHOUT THIS ENTRANCE TICKET

WHITE - Invoice

YELLOW - Generator

PINK - Trucker

GOLD - P & F Environmental

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL# 11154

LOAD # 07468

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION: _____

Transporter: P & F Environmental

Gross Weight (lbs.): 80860

Truck #: PF 103

Tare Weight (lbs.): 33060

Truck Tag #/State: 16949

Net Weight (lbs.): 47800

Driver Name (Print): Walter Parker

Net Weight (tons): 23.90

I hereby certify that the material stated herein was received at the waste origination site listed.

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Walter Parker 6-23-09
Driver Signature Date

Walter Parker 6-23-09
Driver Signature Date

Inspected and Accepted By: George L. Taylor 6/23/09
John Hild

NOTICE TO TRANSPORTER

**TRUCKS WILL NOT BE PERMITTED TO ENTER
THE FACILITY WITHOUT THIS ENTRANCE TICKET**

WHITE - Invoice

YELLOW - Generator

PINK - Trucker

GOLD - P & F Environmental

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL# 11154

LOAD # 07469

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION:

Transporter: P & F Environmental

Gross Weight (lbs.): 80060

Truck #: PF 106

Tare Weight (lbs.): 24500

Truck Tag #/State: ZB 37964

Net Weight (lbs.): 55560

Driver Name (Print): Bryant Pridgen

Net Weight (tons): 27.78

I hereby certify that the material stated herein was received at the waste origination site listed.

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Bryant Pridgen 6.23.09
Driver Signature Date

Bryant Pridgen 6.23.09
Driver Signature Date

Inspected and Accepted By: George L. Taylor 20090623

NOTICE TO TRANSPORTER

**TRUCKS WILL NOT BE PERMITTED TO ENTER
THE FACILITY WITHOUT THIS ENTRANCE TICKET**

WHITE - Invoice

YELLOW - Generator

PINK - Trucker

GOLD - P & F Environmental

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL# 11154

LOAD # 07470

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION:

Transporter: P & F Environmental

Gross Weight (lbs.): 81780

Truck #: PF 103

Tare Weight (lbs.): 33060

Truck Tag #/State: ZB 16949

Net Weight (lbs.): 48720

Driver Name (Print): Walter Parker

Net Weight (tons): 24.36

I hereby certify that the material stated herein was received at the waste origination site listed.

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Walter Parker 6-24-09
Driver Signature Date

Walter Parker 6-24-09
Driver Signature Date

Inspected and Accepted By: George L. Taylor 20090624

NOTICE TO TRANSPORTER

TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT THIS ENTRANCE TICKET

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL# 11154

LOAD # 07471

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION: _____

Transporter: P & F Environmental

Gross Weight (lbs.): 80240

Truck #: PF 102

Tare Weight (lbs.): 33420

Truck Tag #/State: ZB 25821

Net Weight (lbs.): 46820

Driver Name (Print): Tim Thorne

Net Weight (tons): 23.41

I hereby certify that the material stated herein was received at the waste origination site listed.

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Tim Thorne 6-24-09
Driver Signature Date

Tim Thorne 6-24-09
Driver Signature Date

Inspected and Accepted By: George L. Taylor 20090624

NOTICE TO TRANSPORTER

TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT THIS ENTRANCE TICKET

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL# 11154

LOAD # 07472

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION: _____

Transporter: P & F Environmental

Gross Weight (lbs.): 78060

Truck #: PF 106

Tare Weight (lbs.): 24500

Truck Tag #/State: ZB 37964

Net Weight (lbs.): 53560

Driver Name (Print): Bryant Pridge

Net Weight (tons): 26.78

I hereby certify that the material stated herein was received at the waste origination site listed.

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Bryant Pridge 6.24.09
Driver Signature Date

Bryant Pridge 6.24.09
Driver Signature Date

Inspected and Accepted By: Cecilia L. Taylor 6/24/09

NOTICE TO TRANSPORTER

**TRUCKS WILL NOT BE PERMITTED TO ENTER
THE FACILITY WITHOUT THIS ENTRANCE TICKET**

WHITE - Invoice

YELLOW - Generator

PINK - Trucker

GOLD - P & F Environmental

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL # 11154

LOAD # 07473

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGATION: _____

Transporter: P & F Environmental

Gross Weight (lbs.): 81820

Truck #: PF 104

Tare Weight (lbs.): 31700

Truck Tag #/State: ZB 12252

Net Weight (lbs.): 50160

Driver Name (Print): Franklin Rhodes

Net Weight (tons): 25.08

I hereby certify that the material stated herein was received at the waste origination site listed.

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Franklin Rhodes 6-24-09
Driver Signature Date

Franklin Rhodes 6-24-09
Driver Signature Date

Inspected and Accepted By: George L. Taylor 30090624

NOTICE TO TRANSPORTER

TRUCKS WILL NOT BE PERMITTED TO ENTER
THE FACILITY WITHOUT THIS ENTRANCE TICKET

WHITE - Invoice

YELLOW - Generator

PINK - Trucker

GOLD - P & F Environmental

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL# 11154

LOAD # 07474

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION: _____

Transporter: P & F Environmental

Gross Weight (lbs.): 70820

Truck #: PF 103

Tare Weight (lbs.): 33060

Truck Tag #/State: 2B 16949

Net Weight (lbs.): 37760

Driver Name (Print): Walter Parker

Net Weight (tons): 18.88

I hereby certify that the material stated herein was received at the waste origination site listed.

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Walter Parker 6-24-09
Driver Signature Date

Walter Parker 6-24/09
Driver Signature Date

Inspected and Accepted By: George L. Taylor 20090624

NOTICE TO TRANSPORTER

TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT THIS ENTRANCE TICKET

WHITE - Invoice

YELLOW - Generator

PINK - Trucker

GOLD - P & F Environmental

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL# 11162

LOAD # 07492

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION: _____

Transporter: P & F Environmental

Gross Weight (lbs.): 77960

Truck #: PF 102

Tare Weight (lbs.): 33420

Truck Tag #/State: ZB 25821

Net Weight (lbs.): 44540

Driver Name (Print): Tim Thorne

Net Weight (tons): 22.27

I hereby certify that the material stated herein was received at the waste origination site listed.

Tim Thorne 7-13-09
Driver Signature Date

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Tim Thorne 7-13-09
Driver Signature Date

Inspected and Accepted By:

James Bridger

NOTICE TO TRANSPORTER

TRUCKS WILL NOT BE PERMITTED TO ENTER
THE FACILITY WITHOUT THIS ENTRANCE TICKET

WHITE - Invoice

YELLOW - Generator

PINK - Trucker

GOLD - P & F Environmental

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL# 11162

LOAD # 07493

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION:

Transporter: P & F Environmental

Gross Weight (lbs.): 78800

Truck #: PF 104

Tare Weight (lbs.): 31700

Truck Tag #/State: ZB 12252

Net Weight (lbs.): 47100

Driver Name (Print): Franklin Rhodes

Net Weight (tons): 23.55

I hereby certify that the material stated herein was received at the waste origination site listed.

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Franklin Rhodes 7.13.09
Driver Signature Date

Franklin Rhodes 7.13.09
Driver Signature Date

Inspected and Accepted By:

Franklin Rhodes

NOTICE TO TRANSPORTER

TRUCKS WILL NOT BE PERMITTED TO ENTER
THE FACILITY WITHOUT THIS ENTRANCE TICKET

WHITE - Invoice

YELLOW - Generator

PINK - Trucker

GOLD - P & F Environmental

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL# 11162

LOAD # 07494

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGATION: _____

Transporter: P & F Environmental

Gross Weight (lbs.): 78220

Truck #: PF 106

Tare Weight (lbs.): 24500

Truck Tag #/State: ZB 37964

Net Weight (lbs.): 53720

Driver Name (Print): Bryant Pridgen

Net Weight (tons): 26.86

I hereby certify that the material stated herein was received at the waste origination site listed.

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Bryant Pridgen 7-13-09
Driver Signature Date

Bryant Pridgen 7-13-09
Driver Signature Date

Inspected and Accepted By: _____

NOTICE TO TRANSPORTER

**TRUCKS WILL NOT BE PERMITTED TO ENTER
THE FACILITY WITHOUT THIS ENTRANCE TICKET**

WHITE - Invoice

YELLOW - Generator

PINK - Trucker

GOLD - P & F Environmental

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL# 11162

LOAD # 07495

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION:

Transporter: P & F Environmental

Gross Weight (lbs.): 83300

Truck #: PF 103

Tare Weight (lbs.): 33060

Truck Tag #/State: ZB 16949

Net Weight (lbs.): 50240

Driver Name (Print): Walter Parker

Net Weight (tons): 25.12

I hereby certify that the material stated herein was received at the waste origination site listed.

Walter Parker 7.13.09
Driver Signature Date

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Walter Parker 7/13/09
Driver Signature Date

Inspected and Accepted By:

Jared Ruckey

NOTICE TO TRANSPORTER

**TRUCKS WILL NOT BE PERMITTED TO ENTER
THE FACILITY WITHOUT THIS ENTRANCE TICKET**

WHITE - Invoice

YELLOW - Generator

PINK - Trucker

GOLD - P & F Environmental

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL# 11162

LOAD # 07496

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION: _____

Transporter: P & F Environmental

Gross Weight (lbs.): 83720

Truck #: PF 106

Tare Weight (lbs.): 24500

Truck Tag #/State: ZB 37904

Net Weight (lbs.): 59220

Driver Name (Print): Bryant Pridge

Net Weight (tons): 29.61

I hereby certify that the material stated herein was received at the waste origination site listed.

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Bryant Pridge 7.13.09
Driver Signature Date

Bryant Pridge 7.13.09
Driver Signature Date

Inspected and Accepted By: [Signature] 7/13/2009 [Signature]

NOTICE TO TRANSPORTER

**TRUCKS WILL NOT BE PERMITTED TO ENTER
THE FACILITY WITHOUT THIS ENTRANCE TICKET**

WHITE - Invoice

YELLOW - Generator

PINK - Trucker

GOLD - P & F Environmental

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL # 11162

LOAD # 07497

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION: _____

Transporter: P & F Environmental

Gross Weight (lbs.): 79480

Truck #: PF 103

Tare Weight (lbs.): 33060

Truck Tag #/State: ZB 16949

Net Weight (lbs.): 46420

Driver Name (Print): Walter Parker

Net Weight (tons): 23.21

I hereby certify that the material stated herein was received at the waste origination site listed.

Walter Parker 7-13-09
Driver Signature Date

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Walter Parker 7-13-09
Driver Signature Date

Inspected and Accepted By: _____

[Signature] 7/13/2009 [Signature]

NOTICE TO TRANSPORTER

**TRUCKS WILL NOT BE PERMITTED TO ENTER
THE FACILITY WITHOUT THIS ENTRANCE TICKET**

WHITE - Invoice

YELLOW - Generator

PINK - Trucker

GOLD - P & F Environmental

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL# 11162

LOAD # 07498

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION: _____

Transporter: P & F Environmental

Gross Weight (lbs.): 79160

Truck #: PF 102

Tare Weight (lbs.): 33420

Truck Tag #/State: ZB 25821

Net Weight (lbs.): 45740

Driver Name (Print): Tim Thorne

Net Weight (tons): 22.87

I hereby certify that the material stated herein was received at the waste origination site listed.

Tim Thorne 7-13-09
Driver Signature Date

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Tim Thorne 7-13-09
Driver Signature Date

Inspected and Accepted By: ~~_____~~ 7/13/2009 James Pridy

NOTICE TO TRANSPORTER

**TRUCKS WILL NOT BE PERMITTED TO ENTER
THE FACILITY WITHOUT THIS ENTRANCE TICKET**

WHITE - Invoice

YELLOW - Generator

PINK - Trucker

GOLD - P & F Environmental

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL # _____

LOAD # 07548

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION:

Building LCH 778

Transporter: P & F Environmental

Gross Weight (lbs.): 81860

Truck #: PF 102

Tare Weight (lbs.): 30660

Truck Tag #/State: ZB 25821

Net Weight (lbs.): 51200

Driver Name (Print): Franklin Rhodes

Net Weight (tons): 25.60

I hereby certify that the material stated herein was received at the waste origination site listed.

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Franklin Rhodes 8.12.09
Driver Signature Date

Franklin Rhodes 8-12-09
Driver Signature Date

Inspected and Accepted By: John A. Mayes, II 8/11/2009

NOTICE TO TRANSPORTER

TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT THIS ENTRANCE TICKET

WHITE - Invoice

YELLOW - Generator

PINK - Trucker

GOLD - P & F Environmental

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL# _____

LOAD # 07547

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION:

Building LCH 778

Transporter: P & F Environmental

Gross Weight (lbs.): 77860

Truck #: PF 106

Tare Weight (lbs.): 23880

Truck Tag #/State: ZB 37964

Net Weight (lbs.): 53980

Driver Name (Print): Bryant Pridgen

Net Weight (tons): 26.99

I hereby certify that the material stated herein was received at the waste origination site listed.

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Bryant Pridgen 8.12.09
Driver Signature Date

Bryant Pridgen 8.12.09
Driver Signature Date

Inspected and Accepted By: Jon A. Mzyesi
Jon A. Mzyesi

8/11/2009
Jared Fields

NOTICE TO TRANSPORTER

TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT THIS ENTRANCE TICKET

WHITE - Invoice

YELLOW - Generator

PINK - Trucker

GOLD - P & F Environmental

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL# _____

LOAD # 07546

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION:

Building LCH 778

Transporter: P & F Environmental

Gross Weight (lbs.): 76880

Truck #: PF 102

Tare Weight (lbs.): 30660

Truck Tag #/State: ZB 25821

Net Weight (lbs.): 46220

Driver Name (Print): Franklin Rhodes

Net Weight (tons): 23.11

I hereby certify that the material stated herein was received at the waste origination site listed.

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Franklin Rhodes 8.11.09
Driver Signature Date

Franklin Rhodes 8.11.09
Driver Signature Date

Inspected and Accepted By: Jan A. Hayes, II

8/11/2009

NOTICE TO TRANSPORTER

**TRUCKS WILL NOT BE PERMITTED TO ENTER
THE FACILITY WITHOUT THIS ENTRANCE TICKET**

WHITE - Invoice

YELLOW - Generator

PINK - Trucker

GOLD - P & F Environmental

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL# _____

LOAD # 07543

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION:

Building LCH 778

Transporter: P & F Environmental

Gross Weight (lbs.): 77860

Truck #: PF 104

Tare Weight (lbs.): 23880

Truck Tag #/State: ZB 37964

Net Weight (lbs.): 53980

Driver Name (Print): Bryant Pridgen

Net Weight (tons): 24.99

I hereby certify that the material stated herein was received at the waste origination site listed.

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Bryant Pridgen 8-11-09
Driver Signature Date

Bryant Pridgen 8-11-09
Driver Signature Date

Inspected and Accepted By: Jan A. Mayes, II Janet Pridgen 8-11-2009

NOTICE TO TRANSPORTER

TRUCKS WILL NOT BE PERMITTED TO ENTER
THE FACILITY WITHOUT THIS ENTRANCE TICKET

WHITE - Invoice

YELLOW - Generator

PINK - Trucker

GOLD - P & F Environmental

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL# _____

LOAD # 07545

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION:

Building LCH 778

Transporter: P & F Environmental

Gross Weight (lbs.): 83110

Truck #: PF 106

Tare Weight (lbs.): 23880

Truck Tag #/State: ZB 37964

Net Weight (lbs.): 59230

Driver Name (Print): Bryant Pridgen

Net Weight (tons): 29.61

I hereby certify that the material stated herein was received at the waste origination site listed.

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Bryant Pridgen 8-11-09
Driver Signature Date

Bryant Pridgen 8-11-09
Driver Signature Date

Inspected and Accepted By: Jon A. Meyers, Jr.

8/11/2009
Jaret Pridgen

NOTICE TO TRANSPORTER

TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT THIS ENTRANCE TICKET

WHITE - Invoice

YELLOW - Generator

PINK - Trucker

GOLD - P & F Environmental

P & F Environmental

4352 N. Old Carriage Road • Rocky Mount, NC 27804
Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL # _____

LOAD # 07542

GENERATOR

Midway Park
Camp Lejeune
Jacksonville NC

DESTINATION

Land Application Facility Permit No. SR0500106
Speights Chapel Road
Whitakers, NC 27891

PHONE: _____

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION:

Building LCN 778

Transporter: P & F Environmental

Gross Weight (lbs.): 84300

Truck #: PF 102

Tare Weight (lbs.): 30660

Truck Tag #/State: ZB 25821

Net Weight (lbs.): 53640

Driver Name (Print): Franklin Rhodes

Net Weight (tons): 26.82

I hereby certify that the material stated herein was received at the waste origination site listed.

Franklin Rhodes 8.11.09
Driver Signature Date

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Franklin Rhodes 8.11.09
Driver Signature Date

Inspected and Accepted By: Jon A. Meyers, II 8/11/2009

NOTICE TO TRANSPORTER

TRUCKS WILL NOT BE PERMITTED TO ENTER
THE FACILITY WITHOUT THIS ENTRANCE TICKET

WHITE - Invoice

YELLOW - Generator

PINK - Trucker

GOLD - P & F Environmental