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Exxon Mobil Corporation

UST Closure and 20-Day Report

Former Exxon 99 GNC

5009 Summit Avenue

Greensboro, North Carolina

March 2002

ERM NC, PC
7300 Carmel Executive Park
Suite 200
Charlotte, NC 28226

ERM

UNDERGROUND STORAGE TANK CLOSURE REPORT

The closure report should contain, at a minimum, the following information. Any other information that is pertinent to the site should be included.

I. General Information

A. Ownership of UST(s)

1. Name of UST owner:	Mabel L. Chilton Estates
2. Owner address and telephone number: (See Table B-2)	5005 Summit Ave. Greensboro, NC 27405 (770) 428-4236

B. Facility Information

1. Facility name:	99 GNC
2. Facility ID #:	Not Available
3. Facility address, telephone number and county:	5009 Summit Ave. Greensboro, NC 27405 Phone: None

C. Contacts

1. Name, address, telephone number and job title of primary contact person:

Mr. James F. Medlin, Environmental Remediation Territory Manager
Exxon Mobil Corporation
77 Center Drive, Bldg. 5601
Suite 200
Charlotte, NC 28217-0735
(704) 529-4263

2. Name, address and telephone number of closure contractor:

Piedmont Industrial Services
P.O. Box 5061
Winston-Salem, NC 27113
336-767-7522

3. Name, address and telephone number of primary consultant:

ERM NC, PC
Suite 200
7300 Carmel Executive Park
Charlotte, NC 28226
(704) 541-8345

4. Name, address, telephone number, and State certification number of laboratory:

TestAmerica
2960 Foster Creighton Drive
Nashville, TN 37204
(800) 765-0980
NC Certification Number: 387

D. UST Information

See Table B-1

E. Site Characteristics

1. Describe any past releases at this site:

Based on a review of the NCDENR ground water incident database, there are no previous ground water incidents that have been documented at the site:

Incident Number	Date of Release Discovery	Suspected Source of Release	Incident Closure Date
None			

2. Is the facility active or inactive at this time? If the facility is inactive note the last time the USTs were in operation:

The facility is an inactive gasoline retail and convenience store. The store was in operation from the 1930's to the early 1960's.

3. Describe surrounding property use (for example, residential, commercial, farming, etc.)

The site is located within a rural area approximately 0.15 miles northeast of the Greensboro city limits. The property to the west of the site is wooded and undeveloped. The land in the other cardinal directions has been developed for residential and limited commercial use. Along Summit Ave approximately 0.3 miles north is a Texaco Gas Station, to the southeast is a restaurant. The remaining areas are residential housing.

4. Describe site geology/hydrogeology:

The site is located in the Carolina Slate belt geologically and in the Piedmont physiographic province of North Carolina. According to the Geologic Map of North Carolina (NCGS, 1985), the site is underlain by metamorphosed granitic rock.

There are generally two aquifers present within the Piedmont region. These aquifer units are described in detail below.

Saprolite Aquifer - The saprolite aquifer is the uppermost aquifer across much of the region, but is locally absent where the water table occurs below the top of bedrock. The thickness of the saprolite aquifer is typically less than 50 feet, but may extend to more than 100 feet. The aquifer matrix is composed of unconsolidated residual soil, saprolite, and partially weathered bedrock. The saprolite aquifer zone includes the transition (partially weathered rock) zone just above competent bedrock. The transition zone is generally characterized by enhanced permeability in the regional piedmont aquifer system. Ground water flow through the aquifer is by advective movement of ground water through pore spaces within the unconsolidated aquifer matrix. Moving downward to the partially weathered rock zone, ground water flow becomes progressively more confined to relict fractures and moves less through the porous media. The potentiometric surface of ground water in the saprolite aquifer is generally a subdued replica of the topography. The shallow ground water generally discharges to streams and rivers. There is generally limited downward flow of ground water into the underlying bedrock aquifer.

Bedrock Aquifer - The bedrock aquifer extends from the top of competent bedrock to depths where ground water flow becomes limited due to the absence of open fractures. Ground water flow within the bedrock aquifer is primarily through fractures in the bedrock and is strongly controlled by subsurface geologic structures such as faults, fracture zones, and lithologic contacts. The base of the bedrock aquifer generally extends to depths of approximately 250 to 700 feet.

5. **Describe results of a receptor survey (water wells, basements, etc., within 1500 feet of the facility). To be performed if a release has occurred.**

According to the Preliminary Site Assessment conducted by URS Corporation (3/01) on behalf of the North Carolina Department of Transportation (NCDOT) there is a water well on the subject property located north of the building although URS was unable to identify the location of the well. Their report also stated to most of the houses in the surrounding area have drinking water wells, and do not use city supplied water. A Sensitivity Receptor Survey by ERM is pending.

II. Closure Procedures

A. Describe preparations for closure including the steps taken to notify authorities, permits obtained and the steps taken to clean and purge the tanks:

In preparation for the closure-in-place of the USTs the NCDENR Division of Waste Management – UST Section was notified of the planned UST closure activities on February 4, 2002 by submittal of a GW/UST-3 form (See Appendix A). The local fire marshall was also notified of the planned UST removals on February 5, 2002.

In preparation for the closure-in-place, Piedmont Industrial Services exposed the tops of the USTs. Four Seasons Environmental then cut open the USTs and extracted any vapors, dirt, gasoline, or sludge from the tanks. Four Seasons then proceeded with a Triple Rinse sequence with Mirachem 500 and hot water wash until the tanks were clean. Finally, Four Seasons utilized a vacuum truck to remove all fluids from the UST's.

B. Note the amount of residual material pumped from the tank(s):

Approximately 388 gallons of rinsewater, residual gasoline, and sludge were pumped from the tanks prior to being filled with foam.

C. Describe the storage, sampling and disposal of the residual material:

Four Seasons Environmental of Greensboro, North Carolina used a vacuum truck to remove the residual fluids and rinse water. The fluids were stored in the vacuum truck prior to transport to the Four Seasons Greensboro, NC facility for treatment and disposal. A disposal manifest is provided in Appendix D.

D. Excavation

Note: Refer to the "Groundwater Section Guidelines for the Investigation and Remediation of Soils and Groundwater" on limiting excavations. The Trust Fund will not pay for excessive excavation unless it is justified and verified by laboratory results.

1. Describe excavation procedures noting the condition of the soils and the dimensions of the excavation in relation to the tanks, piping and/or pumps:

The USTs were located in a gravel-paved area of the site. Overburden gravel and soil from the top of the UST's was removed and stockpiled separately from construction debris. Excavation was limited to only exposing the tops of the UST's sufficient for access during the cleaning and for the closure-in-place of the tanks.

All soil excavated during the UST closure activities was stockpiled on-site in accordance with NCDENR protocol pending laboratory analysis of composite stockpile samples, and disposal of the stockpiled soil.

2. Note the depth of tank burial(s) (from land surface to top of tank):

UST	Depth of Burial (ft. BGL)
Gasoline and diesel USTs	4

3. **Quantity of soil removed:**

An estimated total of 5 cubic yards of gravel and soil were removed from the UST system excavations. Disposal of this material is pending.

4. **Describe soil type(s):**

Clayey SILT saprolite soil was observed from 2 to 32 feet below ground surface in borings by URS Corporation (3/01).

5. **Type and source of backfill used:**

Gravel was used to backfill from to top of the tanks to ground surface. No soil or gravel that was excavated from the site was used as backfill.

E. Contaminated Soil

Note: Suspected contaminated soil should be segregated from soil that appears to be uncontaminated and should be treated as contaminated until proven otherwise It should not be used as backfill.

1. **Describe how it was determined to what extent to excavate the soil:**

For reasons set forth by NCDOT regulations for excavation in right-of-ways only the overlaying soil and gravel was removed from the USTs.

2. **Describe method of temporary storage, sampling and treatment/disposal of soil:**

A summary of soil disposal methods for stockpiled soils is provided in Table B-3. All soil and gravel excavated during the UST closure activities was stockpiled on-site in accordance with NCDENR protocol pending laboratory analysis of composite stockpile samples. Stockpiled petroleum-affected soil/gravel that require off-site treatment and disposal will be transported to the Four Seasons treatment facility in Greensboro, North Carolina. Soil disposal manifests for the petroleum-affected soil will be submitted under separate cover when they become available.

III. Site Investigation

A. Provide information on field screening and observations, include methods used to calibrate field screening instrument(s):

Soil samples collected during the UST closure were screened using a Bacharach TLV portable gas detection system calibrated to 500-ppm hexane. Soil samples were screened in the field using the headspace organic vapor screening method. Field screening data are provided in Table B-3.

B. Describe soil sampling points and sampling procedures used, including:

Note: Refer to the "Groundwater Section Guidelines for the Investigation and Remediation of Soils and Groundwater" for information about sampling requirements.

- Location of samples:	See Figure 2 & 3
- Type of samples (from excavation, stockpiled soil, etc.):	See Table B-3
- Sample collection procedures (grab, split spoon, hand auger, etc.):	Grabbed by hand auger and GeoProbe
- Depth of soil samples (below land surface):	See Table B-3
- Whether samples were taken from side or floor of an excavation:	Sides and above the UST system
- Sample identification:	See Table B-3
- Sample analyses:	See Table B-3

UST closure soil samples were collected via hand auger by ERM personnel from undisturbed soil at the sides and above the tanks. Soil samples collected during the Preliminary Site Assessment (URS 3/01) were collected via GeoProbe.

C. Describe groundwater or surface water sampling procedures used, including:
Note: Refer to the "Groundwater Section Guidelines for the Investigation and Remediation of Soils and Groundwater" for information about sampling requirements.

- Location of samples	None
- Sample collection procedures (grab, bailer, etc.)	None
- Sample identification	None
- Sample analyses	None

D. Quality control measures

- **Describe sample handling procedures including sample preservation and transportation:**

A new pair of Latex gloves were worn during the collection of each sample. The samples were placed in laboratory-provided containers, labeled, and placed in an ice filled cooler. The cooler was shipped to the laboratory via overnight courier. Appropriate chain-of-custody forms were maintained throughout sampling and sample shipment (see Appendix E).

- **Describe decontamination procedures used:**

New gloves and unused clean sampling jars from the laboratory were used. Sampling tools (e.g. trowel or hand auger) were cleaned using a phosphate detergent and tap water rinse prior to the collection of each soil sample.

- **Describe time and date samples were collected and date submitted to lab:**

Sample collection and shipment dates are shown in the chain-of-custodies contained in Appendix E. Sample collection dates are also summarized in Table B-3.

- **Describe samples collected for quality control purposes (e.g. duplicates, field blanks, trip blanks, etc.) Include methods used to obtain these samples and analytical parameters:**

No trip blanks, field blanks or duplicate samples were collected for the soil samples.

- **Discuss how results of quality control samples may have affected your interpretation of soil, groundwater or surface water sample results:**

No QA/QC data were collected.

E. Investigation results

- **Describe results of Site Sensitivity Evaluation (SSE), (if SSE was not conducted, explain why not):**

The SSE is not applicable at this petroleum UST site.

- **Describe methods of analyses used (include U.S. EPA method number):** See Table B-3

- **Describe analytical results for samples; discuss in relation to site specific cleanup level or action level, as appropriate:**

A summary of maximum soil contaminant concentrations (MSCCs) for unexcavated soil remaining at the site is provided below (only detected compounds are shown).

Compound	Maximum Concentration (mg/kg)	Soil-to-Ground water MSCC (mg/kg)	Residential MSCC (mg/kg)	Industrial/Commercial MSCC (mg/kg)
TPH – Gasoline range	**14,200**	10	NA	NA
TPH – Diesel range	**11,100**	10	NA	NA
Benzene	**29.4**	0.0056	22	200
Ethylbenzene	**311**	0.24	1560	40,000
Toluene	**716**	7	3,200	82,000
Xylenes	**1,620**	5	32,000	200,000

MSCC = Maximum soil contaminant concentration
Results shown in bold exceed soil-to-groundwater MSCCs

No ground water samples have been collected at the site.

IV. Conclusions and Recommendations

Include probable sources of contamination, further investigation or remediation tasks, or whether no further action is required.

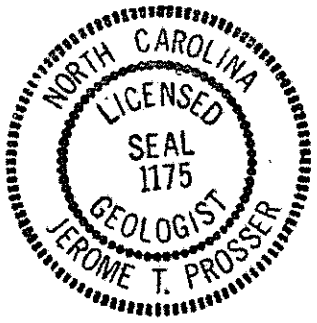
Evidence of a suspected petroleum release was discovered during a Preliminary Site Assessment (3/01).

Laboratory analysis of the soil samples collected during the February 2002 UST closure by removal indicate that petroleum-affected soil remains in place beneath and around the tanks. At the current time only the soil directly above the tanks has been excavated due to the Department of Transportation regulations on excavating in the right of way.

Six petroleum hydrocarbon compounds and/or petroleum hydrocarbon fractions have been detected in soil at the site in concentrations above NCDENR risk-based soil-to-ground water maximum soil contaminant concentrations (MSCCs). Residential MSCCs for benzene also are exceeded in soil at the site.

The soil quality data collected during the February 2002 UST closure indicate that additional soil and ground water assessment may be required. The results of a Preliminary Site Assessment that was completed URS Corporation (on behalf of NCDOT) in April 2001 indicated that there are water supply wells within 1,500 feet of the site.

V. Signature of Professional Engineer or Licensed Geologist



Licensed Geologist License #: 1175

Jerry Prosser, P.G.
March 18, 2002

VI. Enclosures

A. Figures

1. Area Map(s) (can be USGS Topographic Quadrangle) showing: — FIGURE 1
   - Adjacent streets, roads, highways with names and numbers
   - Buildings
   - Known distance to public water supply well(s)
   - Distance to known private water supply well(s)
   - Surface water bodies
   - Groundwater flow direction (if available)
   - Scale
   - North arrow

2. Site map of UST excavation area drawn to scale, showing: — FIGURES 2 & 3
   - Buildings
   - Underground utilities such as sewer lines and other conduits
   - Orientation of UST(s), pumps, and product lines
   - Length, diameter and volume of USTs
   - Type of material(s) stored in USTs (currently and previously)
   - Sample locations (identified by letter or number)
   - Final limits of excavation
   - North arrow
   - Scale

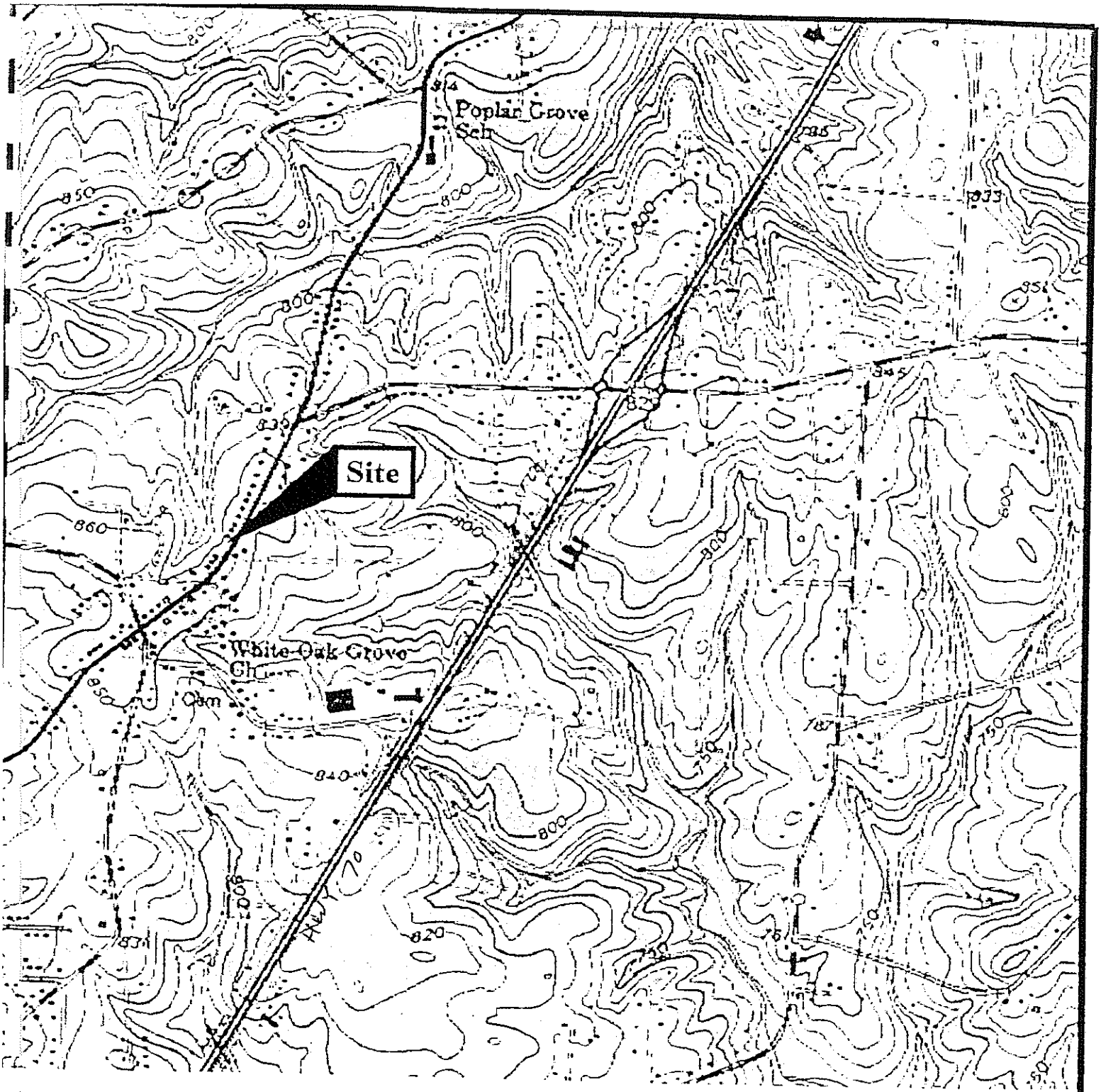
3. Maps depicting analytical results, to include: — FIGURES 2 & 3
   - Orientation of UST(s), pumps, and product lines
   - Sample locations, depths, and identifications
   - Analytical results
   - Final limits of excavation(s)

B. Tables

1. Field screening results	TABLE B-3
2. Sample identifications, depths and analyses	TABLE B-3
3. Sample identifications with results and dates that samples were taken	TABLE B-3
5. Ground water analytical results	NONE
6. Ground water elevation data	NONE

C. Appendices

Appendix A: Notification of intent to close (GW/UST-3)	ATTACHED
Appendix B: Site Investigation Report for Permanent Closure or Change-in-Service of UST (GW/UST-2)	ATTACHED
Appendix C: Certificate of Closure/In-Place Abandonment for USTs	ATTACHED
Appendix D: Soil, water, sludge disposal manifests	ATTACHED
Appendix E: Copy of all soil laboratory analytical records	ATTACHED
Appendix F: Copy of all ground water laboratory analytical records	NOT APPLICABLE
Appendix G: Site Sensitivity Evaluation (SSE) (if applicable)	NOT APPLICABLE
Appendix H: Photographs of Closure Activities (optional)	NOT AVAILABLE
Appendix I: Geologic logs for excavation(s)	NOT AVAILABLE



References:
BROWNS SUMMIT, NC
N3607.5–W7937.5/7.5
1951
PHOTOREVISED 1968
AMS 5056 II NW–SERIES V842

QUADRANGLE LOCATION

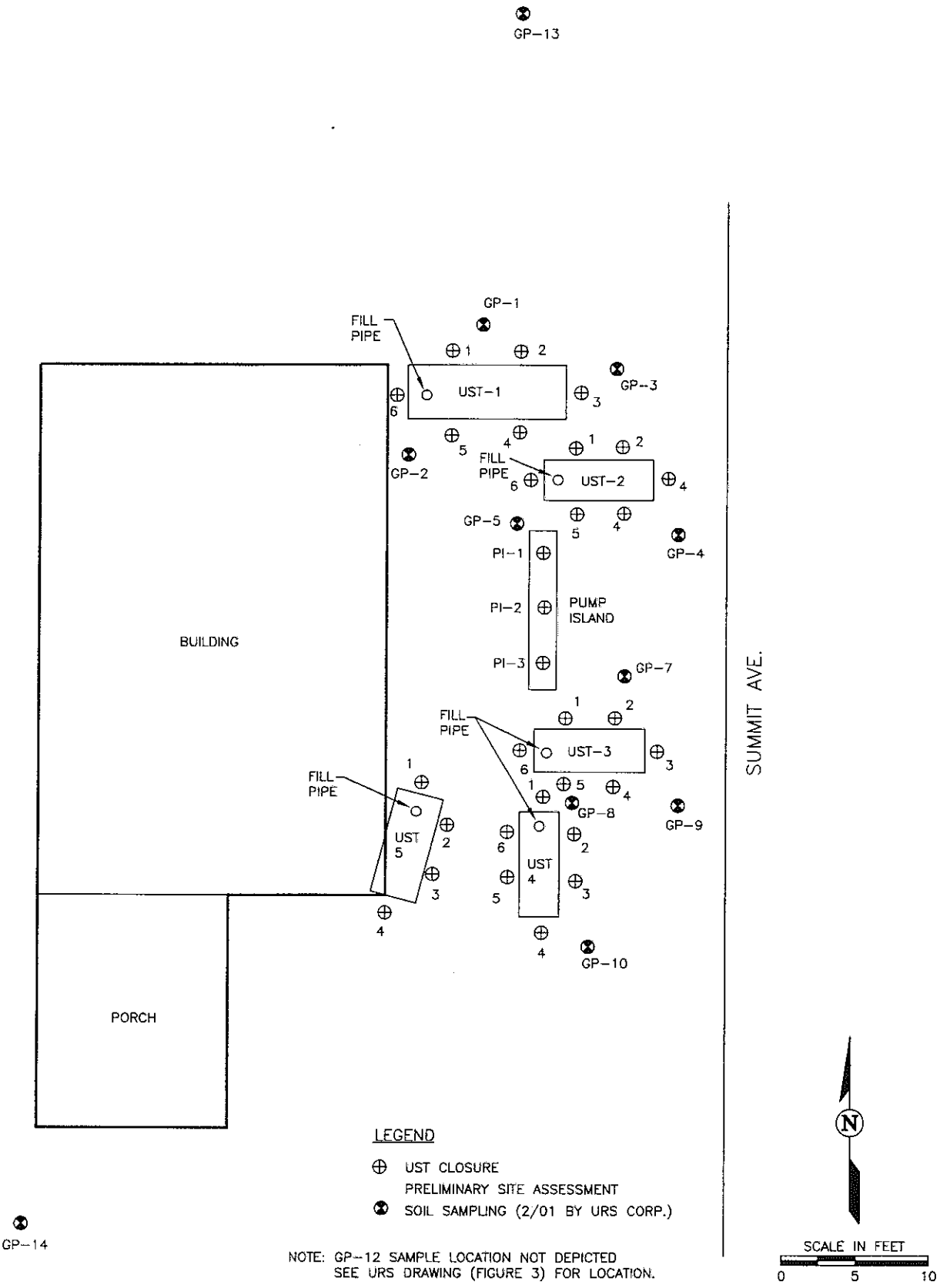
URS
URS Corporation

CLIENT: NCDOT
LOCATION: Guilford County, NC

PROJECT No. –00055146.05
DATE: MARCH 29, 2001
CHK'D. LKR
SCALE: 1" = 1000'

SITE LOCATION MAP

FIGURE: 1



8292SSLOC.DWG 3/13/02 1=1 CH/TH

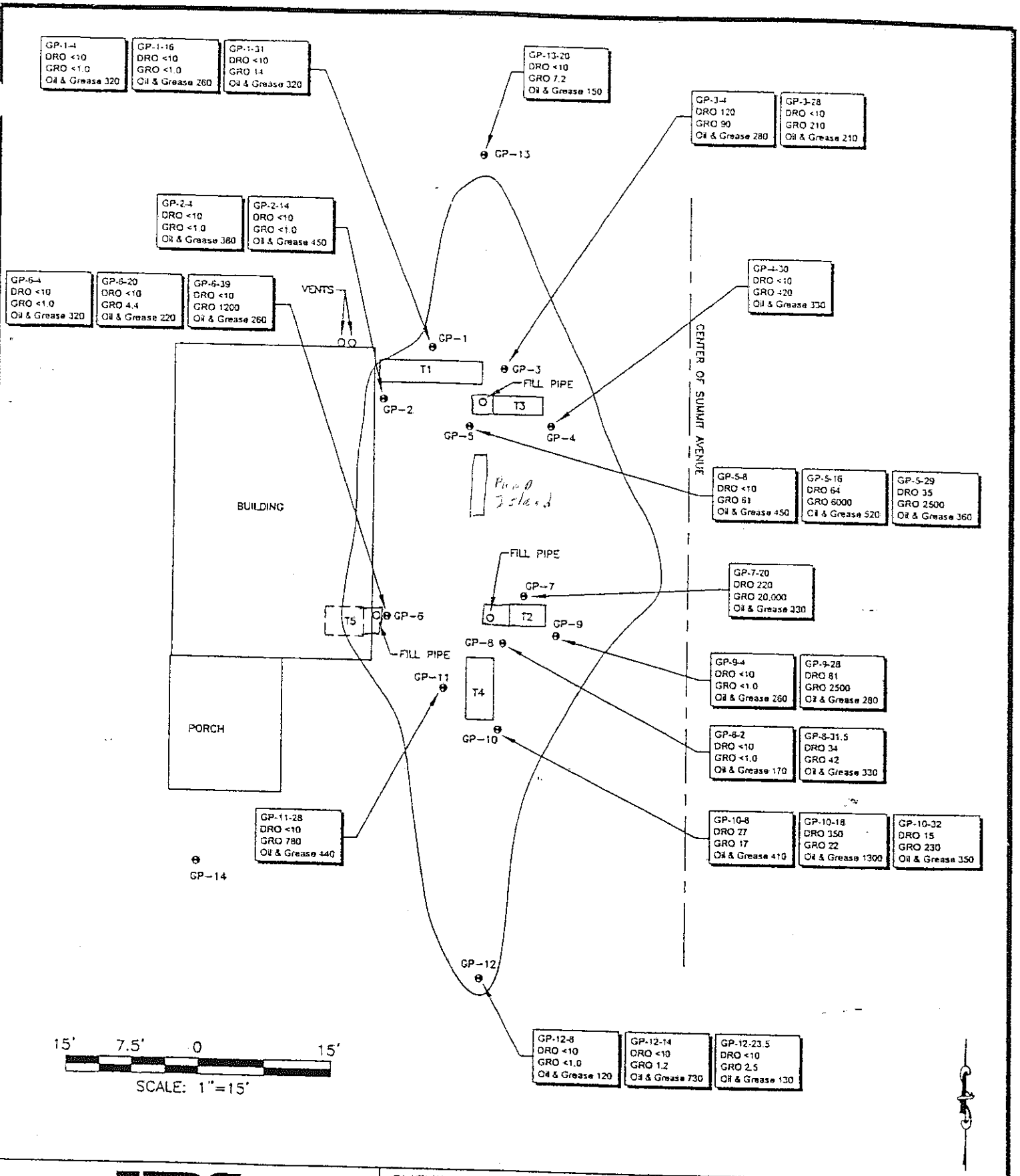
Environmental Resources Management

ERM

SOIL SAMPLING LOCATION MAP

FORMER EXXON 99GNC
5005 SUMMIT AVE.
GREENSBORO, NORTH CAROLINA

FIGURE
2



URS Corporation

CLIENT: NCDOT
LOCATION: Guilford County, NC

PROJECT No. 06-00055146.05
DATE: MARCH 29, 2001
CHK'D. LKR
SCALE: AS SHOWN

EXTENT OF INVESTIGATION
SOIL BORING LOCATIONS

FIGURE: 3

TABLE B-1 **SITE HISTORY**

UST System Information Facility I.D.: Not Avaiable

Date: March 8, 2002 Incident Number and Name: Pending - EXXON 99 GNC

UST ID Number	Product	Capacity (gallons)	Date Installed	Date Permanently Closed, or Still in Use*	Was Release Associated with UST System? (Yes/No)
1	Gasoline / Diesel	1,100	1930's	February 22, 2002	
2	Gasoline / Diesel	560	1930's	February 22, 2002	
3	Gasoline / Diesel	560	1930's	February 22, 2002	
4	Gasoline / Diesel	560	1930's	February 22, 2002	
5	Gasoline / Diesel	560	1930's	February 22, 2002	

* - Still in use means not permanently closed. FRP = Fiberglass reinforced plastic

TABLE B-2 **SITE HISTORY**

UST Owner/Operator Information (most recent first) Facility I.D.: Not Available

Date: March 14, 2002 Incident Number and Name: Pending - 99 GNC

UST ID Number	Name of Owner or Operator	Dates of Ownership/Operation		Owner or Operator?
1,2,3,4,5	Mabel L. Chilton Estates	1930's	1960's	Owner & Operator
Address				Telephone Number
5005 Summit Ave. Greensboro, NC 27405 (770) 428-4236				770-428-4236

UST ID Number	Name of Owner or Operator	Dates of Ownership/Operation	Owner or Operator?
Address			Telephone Number

UST ID Number	Name of Owner or Operator	Dates of Ownership/Operation	Owner or Operator?
Address			Telephone Number

TABLE B-3 SUMMARY OF SOIL SAMPLING RESULTS

Date: 14-Mar-02 Incident Number and Name: Pending - EXXON 99 GNC Facility I.D.: Not Available

Analytical Method			Field Screening	TPH Method 8015/9071			EPA 8021B			
Sample ID	Date	Depth (ft. BGL)	VOCs - ppm (TLV)	Gasoline Range	Diesel Range	Oil ~ Grease	Benzene	Ethylbenzene	Toluene	Xylenes
Preliminary Site Assessment										
GP-1-4	2/9/2001	4	N/A	<1.0	<10	**320**	--	--	--	--
GP-1-16	2/9/2001	16	N/A	<1.0	<10	**260**	--	--	--	--
GP-1-31	2/9/2001	31	N/A	**14**	<10	**320**	--	--	--	--
GP-2-4	2/9/2001	4	N/A	<1.0	<10	**380**	--	--	--	--
GP-2-14	2/9/2001	14	N/A	<1.0	<10	**450**	--	--	--	--
GP-3-4	2/9/2001	4	N/A	**90**	**120**	**280**	--	--	--	--
GP-3-28	2/9/2001	28	N/A	**210**	<10	210	--	--	--	--
GP-4-30	2/9/2001	30	N/A	**240**	<10	**330**	--	--	--	--
GP-5-8	2/9/2001	8	N/A	**61**	<10	**450**	--	--	--	--
GP-5-16	2/9/2001	16	N/A	**6,000**	**64**	**520**	--	--	--	--
GP-5-29	2/9/2001	29	N/A	**2,500**	**35**	**360**	--	--	--	--
GP-6-4	2/9/2001	4	N/A	<1.0	<10	**320**	--	--	--	--
GP-6-20	2/9/2001	20	N/A	4.4	<10	220	--	--	--	--
GP-6-39	2/9/2001	39	N/A	**1,200**	<10	**260**	--	--	--	--
GP-7-20	2/9/2001	20	N/A	**20,000**	**220**	**330**	--	--	--	--
GP-8-2	2/9/2001	2	N/A	<1.0	<10	170	--	--	--	--
GP-8-31.5	2/9/2001	31.5	N/A	**42**	**34**	**330**	--	--	--	--
GP-9-4	2/9/2001	4	N/A	<1.0	<10	**260**	--	--	--	--
GP-9-28	2/9/2001	28	N/A	**2,500**	**81**	**280**	--	--	--	--
GP-10-8	2/9/2001	8	N/A	**17**	**27**	**410**	--	--	--	--
GP-10-18	2/9/2001	18	N/A	**22**	**350**	**1,300**	--	--	--	--
GP-10-32	2/9/2001	32	N/A	**230**	**15**	**350**	--	--	--	--
GP-11-28	2/9/2001	28	N/A	**780**	<10	**440**	--	--	--	--
GP-12-8	2/9/2001	8	N/A	<1.0	<10	120	--	--	--	--
GP-12-14	2/9/2001	14	N/A	1.2	<10	**730**	--	--	--	--
GP-12-23.5	2/9/2001	23.5	N/A	**2.5**	<10	130	--	--	--	--
GP-13-20	2/9/2001	20	N/A	**7.2**	<10	150	--	--	--	--
Soil-Groundwater MSCC				10	10	250	0.0056	0.24	7	5
Residential MSCC				NA	NA	250	22	1,560	782	32,000
Industrial/Commercial MSCC				NA	NA	NA	200	40,000	20,440	200,000

Results shown in bold exceed soil-groundwater MSCC
mg/kg=Milligrams/kilogram
Only detected compounds are shown in table

BGL = Below ground level
-- = Not analyzed
FP= Fill Pipe

ND = Not detected
NE = Not established
N/A = Not Applicable

TABLE B-3 SUMMARY OF SOIL SAMPLING RESULTS

Date: 14-Mar-02 Incident Number and Name: Pending - EXXON 99 GNC Facility I.D.: Not Available

Analytical Method			Field Screening	TPH Method 8015/9071			EPA 8021B			
Sample ID	Date	Depth (ft. BGL)	VOCs - ppm (TLV)	Gasoline Range	Diesel Range	Oil ~ Grease	Benzene	Ethylbenzene	Toluene	Xylenes
UST Field										
UST 1-1	2/22/2002	7	40	< 6.26	<12.5	--	<0.0125	<0.0125	<0.0125	<0.0125
UST 1-2	2/22/2002	7	50	<6.87	<13.5	--	<0.0137	<0.0137	<0.0137	<0.0137
UST 1-3	2/22/2002	7	6,000	**2,950**	**341**	--	**5.81**	**57.7**	**77.9**	**240**
UST 1-4	2/22/2002	7	60	<7.02	<13.9	--	<0.0140	<0.0140	<0.0140	<0.0140
UST 1-5	2/22/2002	7	40	<6.66	<123.2	--	<0.0133	<0.0133	<0.0133	<0.0133
UST 1-6	2/22/2002	7	90	**1,830**	**1,120**	--	**<1.17**	**17.6**	2.58	**141**
UST 1-FP	2/22/2002	2	40	<6.43	<12.8	--	<0.0129	<0.0129	<0.0129	0.0308
UST 2-1	2/22/2002	7	>10,000	**1,750**	**287**	--	<1.35	**30.6**	**17.9**	**161**
UST 2-2	2/22/2002	7	6,000	<6.75	<13.3	--	0.0148	0.0297	0.0445	0.174
UST 2-3	2/22/2002	7	650	<6.31	<12.4	--	<0.0126	<0.0126	0.0126	<0.0126
UST 2-4	2/22/2002	7	4,000	**92.9**	**33.6**	--	<0.0144	**1.34**	0.501	6.31
UST 2-5	2/22/2002	7	>10,000	**3,270**	**32.4**	--	<1.41	**59**	**47**	**236**
UST 2-6	2/22/2002	7	>10,000	**3,940**	**86.1**	--	**4.73**	**60.2**	**58.4**	**199**
UST 2-FP	2/22/2002	2	0	<6.53	<13.0	--	<0.0131	<0.0131	0.0196	0.0601
UST 3-1	2/22/2002	7	>10,000	**4,380**	**87.2**	--	**4.39**	**81.9**	**112**	**458**
UST 3-2	2/22/2002	7	>10,000	**144**	<13.4	--	<0.135	**2.75**	1.11	**19.2**
UST 3-3	2/22/2002	7	>10,000	**14,200**	**300**	--	**21.5**	**311**	**716**	**1,620**
UST 3-4	2/22/2002	7	>10,000	**8,900**	**38.9**	--	**29.4**	**169**	**544**	**959**
UST 3-5	2/22/2002	7	5,000	**4,940**	**54.7**	--	**9.76**	**109**	**170**	**481**
UST 3-6	2/22/2002	7	>10,000	**2,010**	**75.8**	--	<1.57	**45.6**	**62.9**	**296**
UST 3-FP	2/22/2002	2	90	<6.35	<12.5	--	<0.0127	<0.0127	0.0178	0.0662
UST 4-1	2/22/2002	7	>10,000	<6400	**11,100**	--	**20.5**	**92.2**	**319**	**626**
UST 4-2	2/22/2002	7	>10,000	**1,670**	**63.5**	--	**1.49**	**31.4**	**46.8**	**173**
UST 4-3	2/22/2002	7	200	**7.86**	<14.4	--	**0.441**	0.0597	0.767	0.514
UST 4-4	2/22/2002	7	0	<6.23	<12.4	--	<0.0125	<0.0125	<0.0125	<0.0125
UST 4-5	2/22/2002	7	0	<6.90	**17**	--	<0.0138	<0.0138	<0.0138	<0.0138
UST 4-6	2/22/2002	7	0	<6.86	<13.6	--	<0.0137	<0.0137	<0.0137	<0.0137
UST 4-FP	2/22/2002	2	0	<5.93	**27.4**	--	<0.0119	<0.0119	<0.0119	<0.0119
UST 5-1	2/22/2002	7	300	<7.06	<14.0	--	<0.0141	<0.0141	<0.0141	<0.0141
UST 5-2	2/22/2002	7	70	<6.93	<13.8	--	<0.0139	<0.0139	<0.0139	<0.0139
UST 5-3	2/22/2002	7	80	<6.98	<14.0	--	<0.0140	<0.0140	<0.0140	<0.0140
UST 5-4	2/22/2002	7	100	<7.81	<15.6	--	<0.0156	<0.0156	<0.0156	<0.0156
UST 5-FP	2/22/2002	2	0	<6.58	<13.1	--	<0.0132	<0.0132	<0.0132	<0.0132
Pump Islands										
PI - 1	2/22/2002	2	30	<6.69	<13.3	--	<0.0134	<0.0134	<0.0134	<0.0134
PI - 2	2/22/2002	2	40	<6.39	<12.8	--	<0.0128	<0.0128	0.0217	<0.0128
PI - 2	2/22/2002	2	50	<6.57	<13.0	--	<0.0131	<0.0131	<0.0131	<0.0131
Stock Pile										
SP-1	2/22/2002	Comp.	NA	<5.47	24.8	--	<0.0109	<0.0109	<0.0109	<0.0109
	Soil Stockpile Volume and Source (cubic yards)						Disposal Location			
	5	Gas/diesel UST field gravel and soil					Disposal Pending			
	5	cubic yards	TOTAL							
Soil-Groundwater MSCC				10	10	250	0.0056	0.24	7	5
Residential MSCC				NA	NA	250	22	1,560	782	32,000
Industrial/Commercial MSCC				NA	NA	NA	200	40,000	20,440	200,000

Results shown in bold exceed soil-groundwater MSCC
mg/kg=Milligrams/kilogram
Only detected compounds are shown in table

BGL = Below ground level
-- = Not analyzed
FP= Fill Pipe

ND = Not detected
NE = Not established
N/A = Not Applicable

Appendix A
Notification of Intent to Close

99 GNC

UST-3 Notice of Intent: UST Permanent Closure or Change-in-Service

FOR TANKS IN NC

Return completed form to: The DWM Regional Office in the area the facility is located. SEE MAP ON THE BACK OF THIS FORM FOR REGIONAL OFFICE ADDRESSES.

STATE USE ONLY:
I.D. Number: _____
Date Received: _____

INSTRUCTIONS

Complete and return at least five (5) working days prior to closure or change-in-service if a Professional Engineer (P.E) or a Licensed Geologist (L.G.) provides supervision for closure or change-in service site assessment activities and signs and seals all closure reports. Otherwise, thirty (30) days notice is required.

I. OWNERSHIP OF TANKS

Owner Name MABEL L. CHILTON ESTATE
Corporation, Individual, Public Agency, or Other Entity

Street Address 5005 SUMMIT AVE.

City GREENSBORO County GUILFORD

State NC Zip Code 27405

Telephone Number: (770) 428-4236
Area Code

II. LOCATION

Facility Name MABEL L. CHILTON ESTATE
Or Company

Facility I.D. # (If known) _____

Street Address or State Road 5009 SUMMIT AVE.

City GREENSBORO County GUILFORD Zip Code 27405

Telephone Number: (770) 428-4236
Area Code

III. CONTACT PERSONNEL

Name TOM LINDOW Job Title LICENSED GEOLOGIST Tel. No. (336) 767-7522

IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN SERVICE

1. Contact local Fire Marshal.
2. Plan the entire closure event.
3. Conduct Site Soil Assessment.
4. If removing tanks or closing in place, refer to the API Publication 2015 *Cleaning Petroleum Storage Tanks* and 1604 *Removal and Disposal of Used Underground Petroleum Storage Tanks.*
5. Provide a sketch locating piping, tanks and soil sampling locations.
6. Submit a closure report in the format of UST-12 and include the form UST-2 within 30 days following the site investigation.
7. If a release from the tank(s) has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing signature and seal of the P.E. or L.G. If a release has not occurred, the supervision, signature, or seal of a P.E. or L.G. is not required.
8. Keep closure records for 3 years.

V. WORK TO BE PERFORMED BY

Contractor Name PIEDMONT INDUSTRIAL SERVICES, INC.

Address 4211-B INDIANA AVE State NC Zip Code 27105

Contact Person TODD SCOTT Tel. No. (336) 767-7522

Primary Consultant LRM-SOUTHEAST Tel. No. (704) 541-8345

VI. TANK(S) SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE

Tank ID#	Tank Capacity	Last Contents	Proposed Activity: Closure – Removal	Closure – Abandonment in Place	Change-in-service – New Contents Stored
T1	EST. 1500	UNKNOWN	☐	☒	
T2	EST. 1000	UNKNOWN	☐	☒	
T3	EST. 1000	UNKNOWN	☐	☒	
T4	EST. 1000	UNKNOWN	☐	☒	
T5	EST. 550	UNKNOWN	☐	☒	
			☐	☐	

VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

I understand that I can be held responsible for environmental damage resulting from the improper disposal of my USTs. Read note on the back of this form before signing.

Print name and official title _____

Signature _____ Date Signed 2/1/02

SCHEDULED REMOVAL DATE 2/20/02

Notify your DWM Regional Office 48 hours before this date if scheduled removal date changes.

NORTH CAROLINA SEAL GEOLOGIST THOMAS P. LINDOW

UST-3 rev-10/98 White Copy-Regional Office Yellow Copy-Central Office Pink Copy-Owner

GUILFORD COUNTY DEPARTMENT OF EMERGENCY SERVICES
FIRE SERVICE DIVISION
1002 MEADOWOOD STREET
Greensboro, N. C. 27409

TO: Chief Fire Inspector

Application is hereby made by the undersigned for a permit to

_____ Remove Underground Tank(s)

_X_ Abandon Underground Tank(s) in or on the premises known as:

(Business Name and Address)

1. Tank Contractor : PIEDMONT INDUSTRIAL SERVICES, INC

Contractor's Address: 4211-B INDIANA AVE, WINSTON-SALEM, NC 27105

Number, Size and Product of Tank(s) ESTIMATED TANK SIZES, (ACTUAL TANK SIZES UNKNOWN)

1-1,500, 3-1000 & 1-550, PRODUCT UNKNOWN

2. Permit shall be obtained for removal or abandonment of underground tanks in place prior to beginning work.

3. Removal and abandonment of underground tanks in place shall comply with all applicable codes and regulation including the fire code, N.F.P.A. 327, and A.P.I. Publication 1604.

4. Notify Fire Service Division at (336) 373-7565 and Toxic Hazards Division, at 373-3771, minimum one working day prior to removal or abandonment in place.

5. For tank removal or abandonment in place all liquids shall be removed from the tank(s) and properly disposed of in accordance with applicable laws.

6. Prior to removal or abandonment in place tanks shall be purged or rendered inert. Purging or inerting shall be conducted in accordance with applicable standards and regulations. For purging the vapors shall not exceed 20% of the lower flammable limits. For inerting the oxygen content shall be below 8%. Tank contractors shall have the proper operating meters, combustible gas indicator and/or oxygen meter at each job site.

7. Tanks which have been removed from the ground shall be properly removed from the premises to a proper facility. Tanks shall be labeled with legible letters at least two (2) inches high, similar to the following:

TANK HAS CONTAINED LEADED GASOLINE
NOT VAPOR FREE
NOT SUITABLE FOR STORAGE OF FOOD OR LIQUID
INTENDED FOR HUMAN OR ANIMAL CONSUMPTION
DATE OF REMOVAL : MONTH/DAY/YEAR
PERMIT #

8. Tanks to be transported in accordance with all applicable local, state and federal regulations. Tank openings to be plugged or capped with one plug having a 1/8" inch vent hole to prevent the tank from being subjected to excessive differential pressure. Tanks to be secured on a truck or trailer for transportation to the storage or disposal site with the 1/8" inch vent hole located at the uppermost point on the tank.

9. Tank contractor shall complete and submit Guilford County Health Department form upon completion of removal or abandonment of tanks. Information submitted to be accurate and detailed. Health and Fire Copy mailed to Guilford County Emergency Services.

I understand and consent to the above stipulated conditions upon which this permit is granted. Failure to obtain permit and comply with regulation may render you liable to the penalties provided by law.

Applicant _____ Fire Inspector _____

Date : 2/15/02

Phone : (336) 767-7522
Day

(336) 541-1191
Night

Permit #: _____

Granted: _____ Denied _____

ADDITIONS:

1. **Result of soil sample shall be sent to this office.**

2. **Please call this office the day before you plan to remove the tank.**

Appendix B
Site Investigation Report for
Permanent Closure

UST-2 Site Investigation Report for Permanent Closure or Change-in Service of UST

FOR TANKS IN **NC**

Return completed form to:
The DWM Regional Office in the area the facility is located. SEE MAP ON THE BACK OF THIS FORM FOR REGIONAL OFFICE ADDRESSES. Return the yellow copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED."

STATE USE ONLY:
I.D. Number: _____
Date Received: _____

I. Ownership of Tanks

Owner Name: Mebel L. Chilton Estates
Corporation, Individual, Public Agency, or Other Entity
Street Address: 5005 Summit Ave
City: Greensboro County: Guilford
State: NC Zip Code: 27405
Telephone Number: (770) 428-4236
Area Code

II. Location of Tanks

Facility Name: Former Exxon
Or Company
Facility I.D. # (if known): Not Available
Street Address: 5009 Summit Ave
City: Greensboro County: Guilford Zip Code: 27405
Telephone Number: (770) 428-4236
Area Code

III. Contact Personnel

Name: Jerry Prosser Job Title: Licensed Geologist Tel. No.: 704-541-8345
Closure Contractor: PIS Address: 4211-B-Indiana Ave Tel. No.: 336-763-7522
Primary Consultant: ERM NC Address: 7300 Carmel Ex. Pk Suite 200 Tel. No.: 704-541-8345
Lab: Test America Address: 2960 Foster Creighton Nashville, TN Tel. No.: 615-726-0177

IV. UST Information

Tank No.	Size In Gallons	Tank Dimensions	Last Contents
1	1,100	4 x 12	unknown
2	560	3 x 8	unknown
3	560	3 x 8	unknown
4	560	3 x 8	unknown
5	560	3 x 8	unknown

V. Excavation Condition

	Water in Excavation		Free Product		Notable Odor or Visible Soil Contamination	
	Yes	No	Yes	No	Yes	No
1	N/A		X		X	
2	N/A			X	X	
3	N/A			X	X	
4	N/A		X		X	
5	N/A			X	X	

VI. Additional Information Required

See reverse side of pink copy (owner's copy) for additional information required by NC DWM in the written report and sketch.

NOTE: If a release from the tank(s) has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G.

VII. Check List (Check the Activities Completed)

PERMANENT CLOSURE
(For removing or Abandoning-in-place)

- [X] Contact local fire marshal.
- [X] Notify DWM Regional Office before abandonment.
- [X] Drain & flush piping into tank.
- [X] Remove all product and residuals from tank.
- [X] Excavate down to tank.
- [X] Clean and inspect tank.
- [X] Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps and all other tank fixtures.
- [X] Cap or plug all lines except the vent and fill lines.
- [X] Purge tank of all product & flammable vapors.
- [X] Cut one or more large holes in the tanks.
- [X] Backfill the area.

Date Tank(s) Permanently closed: 2-22-02
Date of Change-in-Service: 2-22-02

ABANDONMENT IN PLACE

- [X] Fill tank until material overflows tank opening.
- [X] Plug or cap all openings.
- [X] Disconnect and cap or remove vent line.
- [X] Solid inert material used--specify. Core Fill 500

REMOVAL

- [ ] Create vent hole.
- [ ] Label tank.
- [ ] Dispose of tank in approved manner. Final tank destination:

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

Print name and official title of owner or owner's authorized representative	Signature	Date Signed
Jerry Prosser		3/18/02

UST-2 rev. 10/99 White Copy-Regional Office Yellow Copy-Central Office Pink Copy-Owner

Appendix C
Certification of Closure/ In-Place Abandoment For USTs

SALEM ENVIRONMENTAL

CERTIFICATION OF CLOSURE/IN-PLACE ABANDONMENT FOR UNDERGROUND STORAGE TANKS

DATE: February 25th, 2002

LOCATION: Country Consignment (Estate of Mabel Chilton), 5009 Summit Ave., Greensboro, Guilford Co., NC 27405

USTs CLOSED: 4 – 550 gallon & 1 – 1,100 gallon

On the above date, underground storage tanks (USTs) were abandoned in-place at the above site by inert, solidifying nitrogen-resin foam fill manufactured by Tailored Chemical Products, Inc., of Hickory, North Carolina. Salem Environmental is an approved installer of the Tailored Foam system, having over twelve years experience on over a thousand sites; Salem also retains full pollution and general liability coverage. All personnel are medically monitored and OSHA Section 1910 trained. MSDS sheets and other relevant product data is on file at our office and available upon request.

The closure process removes all residues to <1" by vacuum truck or submersible pump when such remain; these are disposed at a permitted facility. Liquid foam is pumped into the UST until the vessel is full. It cures into an inert solid within 24-48 hours. Fill and vent lines are removed or sheared to below ground level, and both openings are grouted with concrete mix. Our process is in accordance with all applicable provisions of 40 CFR 280, Subpart G, and adheres to FHA protocol and guidelines.

The UST owner and/or the general contractor initiated this process and accept our work without recourse. Neither party requested an environmental assessment before closure.

Sincerely yours,

Harvey C. Danner, Jr.
President

5009_summit_GSO_piedind.doc

220 PENNSYLVANIA AVENUE
CHARLOTTE, NORTH CAROLINA 28216
800.862.9231 704.398.8746 704.398.8860 FAX

Appendix D
Soil, Water, Sludge Disposal
Manifests

FOUR SEASONS ENVIRONMENTAL

P.O. BOX 16590 • GREENSBORO, NC 27416-0590 • (336) 273-2718

MATERIAL MANIFEST

MANIFEST# _____ F.S.E. JOB # _____

Date: _____

Generator: _____ Phone No: _____

_____ EPA ID No: _____

_____

Process which generated material:

I certify that the materials described below are properly classified, packaged, marked & labeled, and are in the proper condition to be transported as specified by the Department of Transportation. I certify that the material described below is not a hazardous waste in accordance with the Environmental Protection Agency. I certify that the specific material was delivered to the carrier named below for transport to the facility indicated.

Date _____ Signature _____

HM	PROPER SHIPPING NAME AS LISTED ON 172.101 TABLE	HAZ CLASS	DOT I.D. NUMBER	PG GROUP	QUANTITY	CIRCLE UNIT	CONTAINER NO.	CONTAINER TYPE	ERG. NO.
				I II III		Gals. Pounds Tons Cu. Yds.		TT DT CM DM DF	

FOUR SEASONS ENVIRONMENTAL USE ONLY

DESCRIPTION OF MATERIAL		CIRCLE FORM	AMOUNT SOLIDS		AMOUNT LIQUIDS	
		SOLID	GALLONS	TONS	NO. DRUMS	GALLONS
CONTAINER	NUMBER	LIQUID				
		SLUDGE				

FACILITY USE ONLY

Transporter: Four Seasons Environmental, Inc. Unit Number (s) _____

3107 S. Elm-Eugene Street Phone No.: (336) 273-2718

Greensboro, NC 27406 EPA ID No: NCD991277732

Vehicle License Tag Number (s) _____ Container: _____

Transporter Certification:

I certify that the specified material was transferred in a registered (licensed) vehicle to the facility named and was accepted.

Pick-up Driver's Signature _____ Date _____

Delivering Driver's Signature _____ Date _____

Facility: Four Seasons Environmental, Inc. Phone No.: (336) 273-2718

519 Patton Avenue Contact: _____

Greensboro, NC 27406

Handling Method: _____

Facility Certification:

I certify that the transporter above delivered the specified material to this facility and was handled in the above listed handling method. We authorize and qualified by the State of _____ to handle this material.

Date _____ Signature: _____

Appendix E
Soil Laboratory Analytical Data Sheets

TestAmerica INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

273181
28755-28791

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring

Client Name: ERM, Inc. Client #: 48292
Address: 7300 Carmel Exec. Park
City/State/Zip Code: Charlotte, NC 28226
Project Manager: Jerry Prosser
Telephone Number: 704-541-8345 Fax: 704-541-8416
Sampler Name: (Print Name) Rhett Baggett
Sampler Signature:

Project Name: 99 GNC RB
Project #: 48292
Site/Location ID: Summit Ave State: NC
Report To: Jerry Prosser Greensboro, NC
Invoice To: ERM, Inc
Quote #: PO#: 48292

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y N

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	# Containers	Analyze For: EPA 3550/5030 RB	TPH	DRO/GRO 3550/5030 x BTEX								QC Deliverables: ___ None, ___ Level 2 (Batch QC), ___ Level 3, ___ Level 4, Other:	REMARKS
UST 1-1	2-21	1430	G		S						X	2		X	X	X						28755		6.5-7 ft
UST 1-2		1515	G								X			X	X	X						28756		
UST 1-3		1500	G								X			X	X	X							757	
UST 1-4		1520	G								X			X	X	X							758	
UST 1-5		1530	G								X			X	X	X							759	
UST 1-6		1540	G								X			X	X	X							760	
UST 1-FP	2/22	1015	G								X			X	X	X							761	(1.5-2.0 ft)
UST 2-1		1145	G								X			X	X	X							762	6.5-7 ft
UST 2-2		1130	G								X			X	X	X							763	
UST 2-3		1124	G								X			X	X	X							764	

Special Instructions:
Bill ERM not Exxon

2/22/02

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Rhett Baggett	2/22	1600			
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date: 2/23	Time: 900

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

TestAmerica INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

C1-101
28755-28791

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring _____

Client Name: ERM, Inc Client #: 48292
Address: 7300 Carmel Exec. Park Ste 200
City/State/Zip Code: Charlotte, NC 28226
Project Manager: Jerry Prosser
Telephone Number: 704-541-8345 Fax: 704-541-8345
Sampler Name: (Print Name) Rhett Baggett
Sampler Signature: RBW

Project Name: 99 GNC
Project #: 48292
Site/Location ID: Greensboro State: NC
Report To: Jerry Prosser
Invoice To: ERM
Quote #: _____ PO#: 48292

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y N

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	# Containers	Analyze For: EPA 3550/5030	TPH	DRO - GRO	3550/5030 + BTEX								QC Deliverables: ___ None, ___ Level 2 (Batch QC), ___ Level 3, ___ Level 4, Other: _____	REMARKS
UST-2-4	2/22	1105	G		S						X	2		X	X	X	X								
UST 2-5		1055	G								X			X	X	X	X						28	765	6.5 - 7 ft
UST 2-6		1135	G								X			X	X	X	X							766	
UST 2-FP		1020	G								X			X	X	X	X							767	
UST 3-1		0950	G								X			X	X	X	X							768	(1.5 - 2.0 ft)
UST 3-2		0955	G								X			X	X	X	X							769	(4.5 - 5.0 ft)
UST 3-3		1010	G								X			X	X	X	X							770	
UST 3-4		1015	G								X			X	X	X	X							771	
UST 3-5		1025	G								X			X	X	X	X							772	
UST 3-6		0940	G								X			X	X	X	X							773	5.5 - 6.0 ft
																								774	6.5 - 7.0 ft

Special Instructions:
Bill ERM Not Exxon

2/22/02

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Rhett Baggett	2/22	1600			
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: COM	Date: 2/23	Time: 9:20

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

TestAmerica INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

273181
28755 - 28791

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring _____

Client Name: ERM Inc Client #: 48292
Address: 7300 Carmel Exec Park, Ste 200
City/State/Zip Code: Charlotte, NC 28226
Project Manager: Jerry Prosser
Telephone Number: 704-541-8545 Fax: 704-541-8416
Sampler Name: (Print Name) Rhett Baggett
Sampler Signature:

Project Name: 99 GNC
Project #: 48292
Site/Location ID: Greensboro State: NC
Report To: Jerry Prosser
Invoice To: ERM
Quote #: _____ PO#: 48292

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y N

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	# Containers	Analyze For: EPA 3550/5030	TPH	DRO - GRO	3550/5030 + BTEX								QC Deliverables: ___ None, ___ Level 2 (Batch QC), ___ Level 3, ___ Level 4, Other: _____	REMARKS
UST-3-FP	2/22	1045	G		SL						X		2	X	X	X	X								28	775	1.5 - 2.0 ft
UST 4-1		1245	G								X			X	X	X	X									776	6.5 - 7.0 ft
UST 4-2		1255	G								X			X	X	X	X									777	
UST 4-3		1300	G								X			X	X	X	X									778	
UST 4-4		1316	G								X			X	X	X	X									779	
UST 4-5		1320	G								X			X	X	X	X									780	
UST 4-6		1330	G								X			X	X	X	X									781	
UST 4-FP		1050	G								X			X	X	X	X									782	1.5 - 2.0 ft
UST 5-1		1230	G								X			X	X	X	X									783	6.5 - 7.0 ft
UST 5-2		0910	G								X			X	X	X	X									784	6.5 - 7.0 ft

Special Instructions:
Do Not Bill Exxon. Bill ERM

2/22/02

Relinquished By:	Date: 2/22	Time: 1608	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date: 2/23	Time: 9:42	

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

TestAmerica INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

273181
28755-28791

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring _____

Client Name: ERM Inc Client #: 48292
Address: 7300 Carmel Exec. Park, Ste 200
City/State/Zip Code: Charlotte, NC 28226
Project Manager: Jerry Prosser
Telephone Number: 704-541-8345 Fax: 704-541-8416
Sampler Name: (Print Name) Rhett Baggett
Sampler Signature:

Project Name: 996NC
Project #: 48292
Site/Location ID: Greensboro, NC State: NC
Report To: Jerry Prosser
Invoice To: ERM
Quote #: PO#: 48292

TAT
X Standard
___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y N

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	# of Cont.	Analyze For: EPA 3550/5030 TPH	DRO-GRO 3550/5030+ BTEX									QC Deliverables: ___ None, ___ Level 2 (Batch QC), ___ Level 3, ___ Level 4, Other: _____ REMARKS
UST5-3	2/22	0920	G		SL						X		2	X	X									6.5-7 ft
UST5-4	↓	0930	G		↓						X		2	X	X								785	6.5-7 ft
UST5-FP		1040	G								X		2	X	X								786	6.5-7 ft
SP-1		1150	G								X		3	X	X								787	1.5-2 ft
PI-1		1110	G								X		2	X	X								788	Grab
PI-2		1115	G								X		2	X	X								789	1.5-2 ft
PI-3	↓	1125	G		↓						X		2	X	X								790	↓
																							791	

Special Instructions: Bill ERM, Not Exxon

2/22/02

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	2/22/02	1600			
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: Cliz	Date: 3/23	Time: 9:00

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by TestAmerica: Y N
Method of Shipment:

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3/ 2/02

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project 48292 99 GNC. The Laboratory Project number is 273181. An executed copy of the chain of custody and the sample receipt form are also included as an addendum to this report.

Sample Identification	Lab Number	Collection Date
UST 1-1	02-A28755	2/21/02
UST 1-2	02-A28756	2/21/02
UST 1-3	02-A28757	2/21/02
UST 1-4	02-A28758	2/21/02
UST 1-5	02-A28759	2/21/02
UST 1-6	02-A28760	2/21/02
UST 1-FP	02-A28761	2/22/02
UST 2-1	02-A28762	2/22/02
UST 2-2	02-A28763	2/22/02
UST 2-3	02-A28764	2/22/02
UST 2-4	02-A28765	2/22/02
UST 2-5	02-A28766	2/22/02
UST 2-6	02-A28767	2/22/02
UST 2-FP	02-A28768	2/22/02
UST 3-1	02-A28769	2/22/02
UST 3-2	02-A28770	2/22/02
UST 3-3	02-A28771	2/22/02
UST 3-4	02-A28772	2/22/02
UST 3-5	02-A28773	2/22/02
UST 3-6	02-A28774	2/22/02
UST 3-FP	02-A28775	2/22/02
UST 4-1	02-A28776	2/22/02
UST 4-2	02-A28777	2/22/02
UST 4-3	02-A28778	2/22/02
UST 4-4	02-A28779	2/22/02
UST 4-5	02-A28780	2/22/02
UST 4-6	02-A28781	2/22/02
UST 4-FP	02-A28782	2/22/02
UST 5-1	02-A28783	2/22/02

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Sample Identification	Lab Number	Collection Date
UST 5-2	02-A28784	2/22/02
UST 5-3	02-A28785	2/22/02
UST 5-4	02-A28786	2/22/02
UST 5-FP	02-A28787	2/22/02
SP-1	02-A28788	2/22/02
PI-1	02-A28789	2/22/02
PI-2	02-A28790	2/22/02
PI-3	02-A28791	2/22/02

Report Approved By: Michael H. Dunn Report Date: 3/ 2/02

Laboratory Certification Number: 387

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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28755
Sample ID: UST 1-1
Sample Type: Soil
Site ID:

Date Collected: 2/21/02
Time Collected: 14:30
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	79.9	%		1	2/28/02	18:30	J.Tyree	CLP	4389
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.0125	1	3/ 1/02	12:28	D. Otero	8021B	5157
Ethylbenzene	ND	mg/kg	0.0125	1	3/ 1/02	12:28	D. Otero	8021B	5157
Toluene	ND	mg/kg	0.0125	1	3/ 1/02	12:28	D. Otero	8021B	5157
Xylenes, total	ND	mg/kg	0.0125	1	3/ 1/02	12:28	D. Otero	8021B	5157
TPH (Gasoline Range)	ND	mg/kg	6.26	1	3/ 1/02	12:28	D. Otero	8015B	5157
TPH (Diesel Range)	ND	mg/kg	12.5	1	2/28/02	17:20	K.Phelps	8015B	7774

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.1 gm	1.0 ml	2/27/02		D. Harris	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	80.	65. - 135.

Sample report continued . . .

TestAmerica
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ANALYTICAL REPORT

Laboratory Number: 02-A28755
Sample ID: UST 1-1
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	86.	50. - 150.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28756
Sample ID: UST 1-2
Sample Type: Soil
Site ID:

Date Collected: 2/21/02
Time Collected: 15:15
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	72.8	%		1	2/28/02	18:30	J.Tyree	CLP	4389
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.0137	1	3/ 1/02	13:03	D. Otero	8021B	5157
Ethylbenzene	ND	mg/kg	0.0137	1	3/ 1/02	13:03	D. Otero	8021B	5157
Toluene	ND	mg/kg	0.0137	1	3/ 1/02	13:03	D. Otero	8021B	5157
Xylenes, total	ND	mg/kg	0.0137	1	3/ 1/02	13:03	D. Otero	8021B	5157
TPH (Gasoline Range)	ND	mg/kg	6.87	1	3/ 1/02	13:03	D. Otero	8015B	5157
TPH (Diesel Range)	ND	mg/kg	13.5	1	2/28/02	17:31	K.Phelps	8015B	7774

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.5 gm	1.0 ml	2/27/02		D. Harris	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	80.	65. - 135.

Sample report continued . . .

TestAmerica
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ANALYTICAL REPORT

Laboratory Number: 02-A28756
Sample ID: UST 1-2
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	74.	50. - 150.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28757
Sample ID: UST 1-3
Sample Type: Soil
Site ID:

Date Collected: 2/21/02
Time Collected: 15:00
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	77.5	%		1	2/28/02	18:30	J.Tyree	CLP	4389
ORGANIC PARAMETERS									
Benzene	5.81	mg/kg	1.29	100	3/ 1/02	22:29	S. Davis	8021B	9699
Ethylbenzene	57.7	mg/kg	1.29	100	3/ 1/02	22:29	S. Davis	8021B	9699
Toluene	77.9	mg/kg	1.29	100	3/ 1/02	22:29	S. Davis	8021B	9699
Xylenes, total	240.	mg/kg	1.29	100	3/ 1/02	22:29	S. Davis	8021B	9699
TPH (Gasoline Range)	2950	mg/kg	645.	100	3/ 1/02	22:29	S. Davis	8015B	9699
TPH (Diesel Range)	341.	mg/kg	127.	10	2/28/02	23:10	K.Phelps	8015B	7774

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.4 gm	1.0 ml	2/27/02		D. Harris	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	103.	65. - 135.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 02-A28757
Sample ID: UST 1-3
Project: 48292

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

TRPH d surrogate was diluted out due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28758
Sample ID: UST 1-4
Sample Type: Soil
Site ID:

Date Collected: 2/21/02
Time Collected: 15:20
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	71.2	%		1	2/28/02	18:30	J.Tyree	CLP	4389
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.0140	1	2/28/02	18:08	S. Davis	8021B	5159
Ethylbenzene	ND	mg/kg	0.0140	1	2/28/02	18:08	S. Davis	8021B	5159
Toluene	ND	mg/kg	0.0140	1	2/28/02	18:08	S. Davis	8021B	5159
Xylenes, total	ND	mg/kg	0.0140	1	2/28/02	18:08	S. Davis	8021B	5159
TPH (Gasoline Range)	ND	mg/kg	7.02	1	2/28/02	18:08	S. Davis	8015B	5159
TPH (Diesel Range)	ND	mg/kg	13.9	1	2/28/02	18:05	K.Phelps	8015B	7774

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.3 gm	1.0 ml	2/27/02		D. Harris	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	87.	65. - 135.

Sample report continued . . .

TestAmerica
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ANALYTICAL REPORT

Laboratory Number: 02-A28758
Sample ID: UST 1-4
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	77.	50. - 150.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28759
Sample ID: UST 1-5
Sample Type: Soil
Site ID:

Date Collected: 2/21/02
Time Collected: 15:30
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	75.1	%		1	2/28/02	18:30	J.Tyree	CLP	4389
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.0133	1	2/28/02	18:43	S. Davis	8021B	5159
Ethylbenzene	ND	mg/kg	0.0133	1	2/28/02	18:43	S. Davis	8021B	5159
Toluene	ND	mg/kg	0.0133	1	2/28/02	18:43	S. Davis	8021B	5159
Xylenes, total	ND	mg/kg	0.0133	1	2/28/02	18:43	S. Davis	8021B	5159
TPH (Gasoline Range)	ND	mg/kg	6.66	1	2/28/02	18:43	S. Davis	8015B	5159
TPH (Diesel Range)	ND	mg/kg	13.2	1	2/28/02	18:16	K.Phelps	8015B	7774

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.2 gm	1.0 ml	2/27/02		D. Harris	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	87.	65. - 135.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 02-A28759
Sample ID: UST 1-5
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	79.	50. - 150.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28760
Sample ID: UST 1-6
Sample Type: Soil
Site ID:

Date Collected: 2/21/02
Time Collected: 15:40
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	85.3	%		1	2/28/02	18:30	J.Tyree	CLP	4389
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	1.17	100	3/ 1/02	11:19	S. Davis	8021B	5159
Ethylbenzene	17.6	mg/kg	1.17	100	3/ 1/02	11:19	S. Davis	8021B	5159
Toluene	2.58	mg/kg	1.17	100	3/ 1/02	11:19	S. Davis	8021B	5159
Xylenes, total	141.	mg/kg	1.17	100	3/ 1/02	11:19	S. Davis	8021B	5159
TPH (Gasoline Range)	1830	mg/kg	586.	100	3/ 1/02	11:19	S. Davis	8015B	5159
TPH (Diesel Range)	1120	mg/kg	234.	20	3/ 1/02	10:49	K.Phelps	8015B	7774

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.0 gm	1.0 ml	2/27/02		D. Harris	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	90.	65. - 135.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 02-A28760
Sample ID: UST 1-6
Project: 48292

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

TRPH d surrogate was diluted out due to sample matrix.

End of Sample Report.

TestAmerica
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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28761
Sample ID: UST 1-FP
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 10:15
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	77.8	%		1	2/28/02	18:30	J.Tyree	CLP	4389
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.0129	1	2/28/02	19:53	S. Davis	8021B	5159
Ethylbenzene	ND	mg/kg	0.0129	1	2/28/02	19:53	S. Davis	8021B	5159
Toluene	ND	mg/kg	0.0129	1	2/28/02	19:53	S. Davis	8021B	5159
Xylenes, total	0.0308	mg/kg	0.0129	1	2/28/02	19:53	S. Davis	8021B	5159
TPH (Gasoline Range)	ND	mg/kg	6.43	1	2/28/02	19:53	S. Davis	8015B	5159
TPH (Diesel Range)	ND	mg/kg	12.8	1	3/ 1/02	19:44	D.Haywood	8015B	9138

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.2 gm	1.0 ml	3/ 1/02		D. Harris	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	87.	65. - 135.

Sample report continued . . .

TestAmerica
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ANALYTICAL REPORT

Laboratory Number: 02-A28761
Sample ID: UST 1-FP
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	85.	50. - 150.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28762
Sample ID: UST 2-1
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 11:45
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	74.1	%		1	2/28/02	18:30	J.Tyree	CLP	4389
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	1.35	100	3/ 1/02	11:58	S. Davis	8021B	5159
Ethylbenzene	30.6	mg/kg	1.35	100	3/ 1/02	11:58	S. Davis	8021B	5159
Toluene	17.9	mg/kg	1.35	100	3/ 1/02	11:58	S. Davis	8021B	5159
Xylenes, total	161.	mg/kg	1.35	100	3/ 1/02	11:58	S. Davis	8021B	5159
TPH (Gasoline Range)	1750	mg/kg	675.	100	3/ 1/02	11:58	S. Davis	8015B	5159
TPH (Diesel Range)	287.	mg/kg	135.	10	3/ 1/02	14:11	K.Phelps	8015B	7774

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	24.9 gm	1.0 ml	2/27/02		D. Harris	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	93.	65. - 135.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 02-A28762
Sample ID: UST 2-1
Project: 48292

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

TRPH d surrogate was diluted out due to sample matrix.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28763
Sample ID: UST 2-2
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 11:30
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	74.1	%		1	2/28/02	18:30	J.Tyree	CLP	4389
ORGANIC PARAMETERS									
Benzene	0.0148	mg/kg	0.0135	1	2/28/02	21:02	S. Davis	8021B	5159
Ethylbenzene	0.0297	mg/kg	0.0135	1	2/28/02	21:02	S. Davis	8021B	5159
Toluene	0.0445	mg/kg	0.0135	1	2/28/02	21:02	S. Davis	8021B	5159
Xylenes, total	0.174	mg/kg	0.0135	1	2/28/02	21:02	S. Davis	8021B	5159
TPH (Gasoline Range)	ND	mg/kg	6.75	1	2/28/02	21:02	S. Davis	8015B	5159
TPH (Diesel Range)	ND	mg/kg	13.3	1	2/28/02	19:01	K.Phelps	8015B	7774

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.3 gm	1.0 ml	2/27/02		D. Harris	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	87.	65. - 135.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 02-A28763
Sample ID: UST 2-2
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	86.	50. - 150.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28764
Sample ID: UST 2-3
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 11:21
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	79.2	%		1	2/28/02	18:30	J.Tyree	CLP	4389
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.0126	1	2/28/02	21:37	S. Davis	8021B	5159
Ethylbenzene	ND	mg/kg	0.0126	1	2/28/02	21:37	S. Davis	8021B	5159
Toluene	0.0126	mg/kg	0.0126	1	2/28/02	21:37	S. Davis	8021B	5159
Xylenes, total	ND	mg/kg	0.0126	1	2/28/02	21:37	S. Davis	8021B	5159
TPH (Gasoline Range)	ND	mg/kg	6.31	1	2/28/02	21:37	S. Davis	8015B	5159
TPH (Diesel Range)	ND	mg/kg	12.4	1	2/28/02	19:13	K.Phelps	8015B	7774

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.4 gm	1.0 ml	2/27/02		D. Harris	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	87.	65. - 135.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 02-A28764
Sample ID: UST 2-3
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	89.	50. - 150.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28765
Sample ID: UST 2-4
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 11:05
Date Received: 2/23/02
Time Received: 9:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	69.3	%		1	2/28/02	18:30	J.Tyree	CLP	4389
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.0144	1	2/28/02	22:13	S. Davis	8021B	5159
Ethylbenzene	1.34	mg/kg	0.0144	1	2/28/02	22:13	S. Davis	8021B	5159
Toluene	0.501	mg/kg	0.0144	1	2/28/02	22:13	S. Davis	8021B	5159
Xylenes, total	6.31	mg/kg	0.144	10	3/ 1/02	12:33	S. Davis	8021B	9835
TPH (Gasoline Range)	92.9	mg/kg	7.22	1	2/28/02	22:13	S. Davis	8015B	5159
TPH (Diesel Range)	33.6	mg/kg	14.4	1	3/ 2/02	9:55	D.Haywood	8015B	9746

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.1 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	87.	65. - 135.

Sample report continued . . .

TestAmerica
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ANALYTICAL REPORT

Laboratory Number: 02-A28765
Sample ID: UST 2-4
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	91.	50. - 150.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28766
Sample ID: UST 2-5
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 10:55
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	70.7	%		1	2/28/02	18:30	J.Tyree	CLP	4389
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	1.41	100	3/ 1/02	13:09	S. Davis	8021B	5159
Ethylbenzene	59.0	mg/kg	1.41	100	3/ 1/02	13:09	S. Davis	8021B	5159
Toluene	47.0	mg/kg	1.41	100	3/ 1/02	13:09	S. Davis	8021B	5159
Xylenes, total	236.	mg/kg	14.1	1000	3/ 1/02	20:29	S. Davis	8021B	9835
TPH (Gasoline Range)	3270	mg/kg	707.	100	3/ 1/02	13:09	S. Davis	8015B	5159
TPH (Diesel Range)	32.4	mg/kg	14.1	1	3/ 1/02	20:50	D.Haywood	8015B	9746

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.1 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	90.	65. - 135.

Sample report continued . . .

TestAmerica
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ANALYTICAL REPORT

Laboratory Number: 02-A28766
Sample ID: UST 2-5
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	92.	50. - 150.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28767
Sample ID: UST 2-6
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 11:35
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	78.2	%		1	2/28/02	18:30	J.Tyree	CLP	4389
ORGANIC PARAMETERS									
Benzene	4.73	mg/kg	1.28	100	3/ 1/02	13:45	S. Davis	8021B	5159
Ethylbenzene	60.2	mg/kg	1.28	100	3/ 1/02	13:45	S. Davis	8021B	5159
Toluene	58.4	mg/kg	1.28	100	3/ 1/02	13:45	S. Davis	8021B	5159
Xylenes, total	199.	mg/kg	12.8	1000	3/ 1/02	21:04	S. Davis	8021B	9835
TPH (Gasoline Range)	3940	mg/kg	639.	100	3/ 1/02	13:45	S. Davis	8015B	5159
TPH (Diesel Range)	86.1	mg/kg	12.7	1	3/ 1/02	21:02	D.Haywood	8015B	9746

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.2 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	90.	65. - 135.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 02-A28767
Sample ID: UST 2-6
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	98.	50. - 150.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28768
Sample ID: UST 2-FP
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 10:20
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	76.6	%		1	2/28/02	16:14	D.Yeager	CLP	4391
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.0131	1	3/ 1/02	1:11	S. Davis	8021B	5159
Ethylbenzene	ND	mg/kg	0.0131	1	3/ 1/02	1:11	S. Davis	8021B	5159
Toluene	0.0196	mg/kg	0.0131	1	3/ 1/02	1:11	S. Davis	8021B	5159
Xylenes, total	0.0601	mg/kg	0.0131	1	3/ 1/02	1:11	S. Davis	8021B	5159
TPH (Gasoline Range)	ND	mg/kg	6.53	1	3/ 1/02	1:11	S. Davis	8015B	5159
TPH (Diesel Range)	ND	mg/kg	13.0	1	3/ 1/02	21:24	D.Haywood	8015B	9746

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.1 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	90.	65. - 135.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 02-A28768
Sample ID: UST 2-FP
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	97.	50. - 150.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28769
Sample ID: UST 3-1
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 9:50
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	72.9	%		1	2/28/02	16:14	D.Yeager	CLP	4391
ORGANIC PARAMETERS									
Benzene	4.39	mg/kg	1.37	100	3/ 1/02	14:19	S. Davis	8021B	5159
Ethylbenzene	81.9	mg/kg	1.37	100	3/ 1/02	14:19	S. Davis	8021B	5159
Toluene	112.	mg/kg	1.37	100	3/ 1/02	14:19	S. Davis	8021B	5159
Xylenes, total	458.	mg/kg	13.7	1000	3/ 1/02	21:44	S. Davis	8021B	9835
TPH (Gasoline Range)	4380	mg/kg	686.	100	3/ 1/02	14:19	S. Davis	8015B	5159
TPH (Diesel Range)	87.2	mg/kg	13.7	1	3/ 1/02	21:34	D.Haywood	8015B	9746

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.1 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	90.	65. - 135.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 02-A28769
Sample ID: UST 3-1
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	112.	50. - 150.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28770
Sample ID: UST 3-2
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 9:55
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	74.1	%		1	2/28/02	16:14	D.Yeager	CLP	4391
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.135	10	3/ 1/02	14:54	S. Davis	8021B	5159
Ethylbenzene	2.75	mg/kg	0.135	10	3/ 1/02	14:54	S. Davis	8021B	5159
Toluene	1.11	mg/kg	0.135	10	3/ 1/02	14:54	S. Davis	8021B	5159
Xylenes, total	19.2	mg/kg	0.135	10	3/ 1/02	14:54	S. Davis	8021B	5159
TPH (Gasoline Range)	144.	mg/kg	67.5	10	3/ 1/02	14:54	S. Davis	8015B	5159
TPH (Diesel Range)	ND	mg/kg	13.4	1	3/ 1/02	21:46	D.Haywood	8015B	9746

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.1 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	90.	65. - 135.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 02-A28770
Sample ID: UST 3-2
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	82.	50. - 150.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28771
Sample ID: UST 3-3
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 10:10
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	79.1	%		1	2/28/02	16:14	D.Yeager	CLP	4391
ORGANIC PARAMETERS									
Benzene	21.5	mg/kg	12.6	1000	3/ 1/02	15:29	S. Davis	8021B	5159
Ethylbenzene	311.	mg/kg	12.6	1000	3/ 1/02	15:29	S. Davis	8021B	5159
Toluene	716.	mg/kg	12.6	1000	3/ 1/02	15:29	S. Davis	8021B	5159
Xylenes, total	1620	mg/kg	12.6	1000	3/ 1/02	15:29	S. Davis	8021B	5159
TPH (Gasoline Range)	14200	mg/kg	6320	1000	3/ 1/02	15:29	S. Davis	8015B	5159
TPH (Diesel Range)	300.	mg/kg	126.	10	3/ 1/02	21:57	D.Haywood	8015B	9746

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.0 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	97.	65. - 135.

Sample report continued . . .

TestAmerica
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ANALYTICAL REPORT

Laboratory Number: 02-A28771
Sample ID: UST 3-3
Project: 48292

LABORATORY COMMENTS:

ND = Not detected at the report limit.
# = Recovery outside Laboratory historical or method prescribed limits.
All reported results for metals or Organic analyses have been corrected for dry weight.
trph-d surrgate was diluted out due to sample matrix.

End of Sample Report.

TestAmerica
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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28772
Sample ID: UST 3-4
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 10:15
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	71.5	%		1	2/28/02	16:14	D.Yeager	CLP	4391
ORGANIC PARAMETERS									
Benzene	29.4	mg/kg	14.0	1000	3/ 1/02	22:19	S. Davis	8021B	5159
Ethylbenzene	169.	mg/kg	14.0	1000	3/ 1/02	22:19	S. Davis	8021B	5159
Toluene	544.	mg/kg	14.0	1000	3/ 1/02	22:19	S. Davis	8021B	5159
Xylenes, total	959.	mg/kg	14.0	1000	3/ 1/02	22:19	S. Davis	8021B	5159
TPH (Gasoline Range)	8900	mg/kg	6990	1000	3/ 1/02	22:19	S. Davis	8015B	5159
TPH (Diesel Range)	38.9	mg/kg	13.8	1	3/ 1/02	22:07	D.Haywood	8015B	9746

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.3 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	90.	65. - 135.

Sample report continued . . .

TestAmerica
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ANALYTICAL REPORT

Laboratory Number: 02-A28772
Sample ID: UST 3-4
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	93.	50. - 150.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28773
Sample ID: UST 3-5
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 10:25
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	71.7	%		1	2/28/02	16:14	D.Yeager	CLP	4391
ORGANIC PARAMETERS									
Benzene	9.76	mg/kg	1.39	100	3/ 1/02	17:54	S. Davis	8021B	5159
Ethylbenzene	109.	mg/kg	1.39	100	3/ 1/02	17:54	S. Davis	8021B	5159
Toluene	170.	mg/kg	13.9	1000	3/ 1/02	22:55	S. Davis	8021B	9835
Xylenes, total	481.	mg/kg	13.9	1000	3/ 1/02	22:55	S. Davis	8021B	9835
TPH (Gasoline Range)	4940	mg/kg	697.	100	3/ 1/02	17:54	S. Davis	8015B	5159
TPH (Diesel Range)	54.7	mg/kg	13.9	1	3/ 1/02	22:19	D.Haywood	8015B	9746

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.0 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	90.	65. - 135.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 02-A28773
Sample ID: UST 3-5
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	105.	50. - 150.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28774
Sample ID: UST 3-6
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 9:40
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	63.6	%		1	2/28/02	16:14	D.Yeager	CLP	4391
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	1.57	100	3/ 1/02	18:28	S. Davis	8021B	5159
Ethylbenzene	45.6	mg/kg	1.57	100	3/ 1/02	18:28	S. Davis	8021B	5159
Toluene	62.9	mg/kg	1.57	100	3/ 1/02	18:28	S. Davis	8021B	5159
Xylenes, total	296.	mg/kg	15.7	1000	3/ 1/02	23:30	S. Davis	8021B	9835
TPH (Gasoline Range)	2010	mg/kg	786.	100	3/ 1/02	18:28	S. Davis	8015B	5159
TPH (Diesel Range)	75.8	mg/kg	15.7	1	3/ 1/02	22:29	D.Haywood	8015B	9746

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.1 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	90.	65. - 135.

Sample report continued . . .

TestAmerica
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ANALYTICAL REPORT

Laboratory Number: 02-A28774
Sample ID: UST 3-6
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	102.	50. - 150.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28775
Sample ID: UST 3-FP
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 10:45
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	78.8	%		1	2/28/02	16:14	D.Yeager	CLP	4391
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.0127	1	3/ 1/02	6:27	S. Davis	8021B	5159
Ethylbenzene	ND	mg/kg	0.0127	1	3/ 1/02	6:27	S. Davis	8021B	5159
Toluene	0.0178	mg/kg	0.0127	1	3/ 1/02	6:27	S. Davis	8021B	5159
Xylenes, total	0.0622	mg/kg	0.0127	1	3/ 1/02	6:27	S. Davis	8021B	5159
TPH (Gasoline Range)	ND	mg/kg	6.35	1	3/ 1/02	6:27	S. Davis	8015B	5159
TPH (Diesel Range)	ND	mg/kg	12.5	1	3/ 2/02	10:06	D.Haywood	8015B	9746

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.3 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	90.	65. - 135.

Sample report continued . . .

TestAmerica
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ANALYTICAL REPORT

Laboratory Number: 02-A28775
Sample ID: UST 3-FP
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	96.	50. - 150.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28776
Sample ID: UST 4-1
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 12:45
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	78.1	%		1	2/28/02	16:14	D.Yeager	CLP	4391
ORGANIC PARAMETERS									
Benzene	20.5	mg/kg	12.8	1000	3/ 1/02	19:07	S. Davis	8021B	5159
Ethylbenzene	92.2	mg/kg	12.8	1000	3/ 1/02	19:07	S. Davis	8021B	5159
Toluene	319.	mg/kg	12.8	1000	3/ 1/02	19:07	S. Davis	8021B	5159
Xylenes, total	626.	mg/kg	12.8	1000	3/ 1/02	19:07	S. Davis	8021B	5159
TPH (Gasoline Range)	ND	mg/kg	6400	1000	3/ 1/02	19:07	S. Davis	8015B	5159
TPH (Diesel Range)	11100	mg/kg	640.	50	3/ 2/02	12:41	D.Haywood	8015B	9746

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.0 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	90.	65. - 135.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 02-A28776
Sample ID: UST 4-1
Project: 48292

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

TRPH-D SURROGATE WAS DILUTED OUT DUE TO SAMPLE MATRIX.

End of Sample Report.

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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28777
Sample ID: UST 4-2
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 12:55
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	80.8	%		1	2/28/02	16:14	D.Yeager	CLP	4391
ORGANIC PARAMETERS									
Benzene	1.49	mg/kg	1.24	100	3/ 1/02	19:43	S. Davis	8021B	5159
Ethylbenzene	31.4	mg/kg	1.24	100	3/ 1/02	19:43	S. Davis	8021B	5159
Toluene	46.8	mg/kg	1.24	100	3/ 1/02	19:43	S. Davis	8021B	5159
Xylenes, total	173.	mg/kg	1.24	100	3/ 1/02	19:43	S. Davis	8021B	5159
TPH (Gasoline Range)	1670	mg/kg	619.	100	3/ 1/02	19:43	S. Davis	8015B	5159
TPH (Diesel Range)	63.5	mg/kg	12.4	1	3/ 1/02	23:03	D.Haywood	8015B	9746

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.0 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	93.	65. - 135.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 02-A28777
Sample ID: UST 4-2
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	105.	50. - 150.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28778
Sample ID: UST 4-3
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 13:00
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	68.7	%		1	2/28/02	16:14	D.Yeager	CLP	4391
ORGANIC PARAMETERS									
Benzene	0.441	mg/kg	0.0146	1	3/ 1/02	20:59	S. Davis	8021B	5160
Ethylbenzene	0.0597	mg/kg	0.0146	1	3/ 1/02	20:59	S. Davis	8021B	5160
Toluene	0.767	mg/kg	0.0146	1	3/ 1/02	20:59	S. Davis	8021B	5160
Xylenes, total	0.514	mg/kg	0.0146	1	3/ 1/02	20:59	S. Davis	8021B	5160
TPH (Gasoline Range)	7.86	mg/kg	7.28	1	3/ 1/02	20:59	S. Davis	8015B	5160
TPH (Diesel Range)	ND	mg/kg	14.4	1	3/ 1/02	23:26	D.Haywood	8015B	9746

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.2 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	113.	65. - 135.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 02-A28778
Sample ID: UST 4-3
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	93.	50. - 150.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28779
Sample ID: UST 4-4
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 13:10
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	80.3	%		1	2/28/02	16:14	D.Yeager	CLP	4391
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.0125	1	3/ 1/02	21:30	S. Davis	8021B	5160
Ethylbenzene	ND	mg/kg	0.0125	1	3/ 1/02	21:30	S. Davis	8021B	5160
Toluene	ND	mg/kg	0.0125	1	3/ 1/02	21:30	S. Davis	8021B	5160
Xylenes, total	ND	mg/kg	0.0125	1	3/ 1/02	21:30	S. Davis	8021B	5160
TPH (Gasoline Range)	ND	mg/kg	6.23	1	3/ 1/02	21:30	S. Davis	8015B	5160
TPH (Diesel Range)	ND	mg/kg	12.4	1	3/ 1/02	23:37	D.Haywood	8015B	9746

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.1 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	110.	65. - 135.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 02-A28779
Sample ID: UST 4-4
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	91.	50. - 150.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28780
Sample ID: UST 4-5
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 13:20
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	72.5	%		1	2/28/02	16:14	D.Yeager	CLP	4391
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.0138	1	3/ 1/02	22:02	S. Davis	8021B	5160
Ethylbenzene	ND	mg/kg	0.0138	1	3/ 1/02	22:02	S. Davis	8021B	5160
Toluene	ND	mg/kg	0.0138	1	3/ 1/02	22:02	S. Davis	8021B	5160
Xylenes, total	ND	mg/kg	0.0138	1	3/ 1/02	22:02	S. Davis	8021B	5160
TPH (Gasoline Range)	ND	mg/kg	6.90	1	3/ 1/02	22:02	S. Davis	8015B	5160
TPH (Diesel Range)	17.0	mg/kg	13.6	1	3/ 1/02	23:48	D.Haywood	8015B	9746

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.4 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	113.	65. - 135.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 02-A28780
Sample ID: UST 4-5
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	84.	50. - 150.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28781
Sample ID: UST 4-6
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 13:30
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	72.9	%		1	2/28/02	16:14	D.Yeager	CLP	4391
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.0137	1	3/ 1/02	22:33	S. Davis	8021B	5160
Ethylbenzene	ND	mg/kg	0.0137	1	3/ 1/02	22:33	S. Davis	8021B	5160
Toluene	ND	mg/kg	0.0137	1	3/ 1/02	22:33	S. Davis	8021B	5160
Xylenes, total	ND	mg/kg	0.0137	1	3/ 1/02	22:33	S. Davis	8021B	5160
TPH (Gasoline Range)	ND	mg/kg	6.86	1	3/ 1/02	22:33	S. Davis	8015B	5160
TPH (Diesel Range)	ND	mg/kg	13.6	1	3/ 1/02	23:59	D.Haywood	8015B	9746

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.2 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	117.	65. - 135.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 02-A28781
Sample ID: UST 4-6
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	84.	50. - 150.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28782
Sample ID: UST 4-FP
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 10:50
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	84.3	%		1	2/28/02	16:14	D.Yeager	CLP	4391
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.0119	1	3/ 1/02	23:04	S. Davis	8021B	5160
Ethylbenzene	ND	mg/kg	0.0119	1	3/ 1/02	23:04	S. Davis	8021B	5160
Toluene	ND	mg/kg	0.0119	1	3/ 1/02	23:04	S. Davis	8021B	5160
Xylenes, total	ND	mg/kg	0.0119	1	3/ 1/02	23:04	S. Davis	8021B	5160
TPH (Gasoline Range)	ND	mg/kg	5.93	1	3/ 1/02	23:04	S. Davis	8015B	5160
TPH (Diesel Range)	27.4	mg/kg	11.9	1	3/ 2/02	10:27	D.Haywood	8015B	9746

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.0 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	113.	65. - 135.

Sample report continued . . .

TestAmerica
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ANALYTICAL REPORT

Laboratory Number: 02-A28782
Sample ID: UST 4-FP
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	89.	50. - 150.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28783
Sample ID: UST 5-1
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 12:30
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	70.8	%		1	2/28/02	16:14	D.Yeager	CLP	4391
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.0141	1	3/ 1/02	23:36	S. Davis	8021B	5160
Ethylbenzene	ND	mg/kg	0.0141	1	3/ 1/02	23:36	S. Davis	8021B	5160
Toluene	ND	mg/kg	0.0141	1	3/ 1/02	23:36	S. Davis	8021B	5160
Xylenes, total	ND	mg/kg	0.0141	1	3/ 1/02	23:36	S. Davis	8021B	5160
TPH (Gasoline Range)	ND	mg/kg	7.06	1	3/ 1/02	23:36	S. Davis	8015B	5160
TPH (Diesel Range)	ND	mg/kg	14.0	1	3/ 2/02	0:21	D.Haywood	8015B	9746

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.2 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	117.	65. - 135.

Sample report continued . . .

TestAmerica
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ANALYTICAL REPORT

Laboratory Number: 02-A28783
Sample ID: UST 5-1
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	81.	50. - 150.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28784
Sample ID: UST 5-2
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 9:10
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	72.2	%		1	2/28/02	16:14	D.Yeager	CLP	4391
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.0139	1	3/ 2/02	0:07	S. Davis	8021B	5160
Ethylbenzene	ND	mg/kg	0.0139	1	3/ 2/02	0:07	S. Davis	8021B	5160
Toluene	ND	mg/kg	0.0139	1	3/ 2/02	0:07	S. Davis	8021B	5160
Xylenes, total	ND	mg/kg	0.0139	1	3/ 2/02	0:07	S. Davis	8021B	5160
TPH (Gasoline Range)	ND	mg/kg	6.93	1	3/ 2/02	0:07	S. Davis	8015B	5160
TPH (Diesel Range)	ND	mg/kg	13.8	1	3/ 2/02	0:32	D.Haywood	8015B	9746

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.1 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	113.	65. - 135.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 02-A28784
Sample ID: UST 5-2
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	81.	50. - 150.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28785
Sample ID: UST 5-3
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 9:20
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	71.6	%		1	2/28/02	16:14	D.Yeager	CLP	4391
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.0140	1	3/ 2/02	0:39	S. Davis	8021B	5160
Ethylbenzene	ND	mg/kg	0.0140	1	3/ 2/02	0:39	S. Davis	8021B	5160
Toluene	ND	mg/kg	0.0140	1	3/ 2/02	0:39	S. Davis	8021B	5160
Xylenes, total	ND	mg/kg	0.0140	1	3/ 2/02	0:39	S. Davis	8021B	5160
TPH (Gasoline Range)	ND	mg/kg	6.98	1	3/ 2/02	0:39	S. Davis	8015B	5160
TPH (Diesel Range)	ND	mg/kg	14.0	1	3/ 2/02	11:26	D.Haywood	8015B	9748

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.0 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	113.	65. - 135.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 02-A28785
Sample ID: UST 5-3
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	70.	50. - 150.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28786
Sample ID: UST 5-4
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 9:30
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	64.0	%		1	2/28/02	16:14	D.Yeager	CLP	4391
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.0156	1	3/ 2/02	2:13	S. Davis	8021B	5160
Ethylbenzene	ND	mg/kg	0.0156	1	3/ 2/02	2:13	S. Davis	8021B	5160
Toluene	ND	mg/kg	0.0156	1	3/ 2/02	2:13	S. Davis	8021B	5160
Xylenes, total	ND	mg/kg	0.0156	1	3/ 2/02	2:13	S. Davis	8021B	5160
TPH (Gasoline Range)	ND	mg/kg	7.81	1	3/ 2/02	2:13	S. Davis	8015B	5160
TPH (Diesel Range)	ND	mg/kg	15.6	1	3/ 2/02	11:45	D.Haywood	8015B	9748

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.0 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	117.	65. - 135.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 02-A28786
Sample ID: UST 5-4
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	68.	50. - 150.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28787
Sample ID: UST 5-FP
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 10:40
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	76.0	%		1	2/28/02	16:14	D.Yeager	CLP	4391
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.0132	1	3/ 2/02	2:44	S. Davis	8021B	5160
Ethylbenzene	ND	mg/kg	0.0132	1	3/ 2/02	2:44	S. Davis	8021B	5160
Toluene	ND	mg/kg	0.0132	1	3/ 2/02	2:44	S. Davis	8021B	5160
Xylenes, total	ND	mg/kg	0.0132	1	3/ 2/02	2:44	S. Davis	8021B	5160
TPH (Gasoline Range)	ND	mg/kg	6.58	1	3/ 2/02	2:44	S. Davis	8015B	5160
TPH (Diesel Range)	ND	mg/kg	13.1	1	3/ 2/02	12:05	D.Haywood	8015B	9748

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.1 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	113.	65. - 135.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 02-A28787
Sample ID: UST 5-FP
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	59.	50. - 150.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28788
Sample ID: SP-1
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 11:50
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	91.4	%		1	2/28/02	16:09	D.Yeager	CLP	4393
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.0109	1	3/ 2/02	3:16	S. Davis	8021B	5160
Ethylbenzene	ND	mg/kg	0.0109	1	3/ 2/02	3:16	S. Davis	8021B	5160
Toluene	ND	mg/kg	0.0109	1	3/ 2/02	3:16	S. Davis	8021B	5160
Xylenes, total	ND	mg/kg	0.0109	1	3/ 2/02	3:16	S. Davis	8021B	5160
TPH (Gasoline Range)	ND	mg/kg	5.47	1	3/ 2/02	3:16	S. Davis	8015B	5160
TPH (Diesel Range)	24.8	mg/kg	10.9	1	3/ 2/02	12:24	D.Haywood	8015B	9748

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.1 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	113.	65. - 135.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 02-A28788
Sample ID: SP-1
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	80.	50. - 150.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28789
Sample ID: PI-1
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 11:10
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	74.7	%		1	2/28/02	16:09	D.Yeager	CLP	4393
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.0134	1	3/ 2/02	3:47	S. Davis	8021B	5160
Ethylbenzene	ND	mg/kg	0.0134	1	3/ 2/02	3:47	S. Davis	8021B	5160
Toluene	ND	mg/kg	0.0134	1	3/ 2/02	3:47	S. Davis	8021B	5160
Xylenes, total	ND	mg/kg	0.0134	1	3/ 2/02	3:47	S. Davis	8021B	5160
TPH (Gasoline Range)	ND	mg/kg	6.69	1	3/ 2/02	3:47	S. Davis	8015B	5160
TPH (Diesel Range)	ND	mg/kg	13.3	1	3/ 2/02	13:43	D.Haywood	8015B	9748

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.1 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	117.	65. - 135.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 02-A28789
Sample ID: PI-1
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	102.	50. - 150.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28790
Sample ID: PI-2
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 11:15
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	78.2	%		1	2/28/02	16:09	D.Yeager	CLP	4393
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.0128	1	3/ 2/02	4:18	S. Davis	8021B	5160
Ethylbenzene	ND	mg/kg	0.0128	1	3/ 2/02	4:18	S. Davis	8021B	5160
Toluene	0.0217	mg/kg	0.0128	1	3/ 2/02	4:18	S. Davis	8021B	5160
Xylenes, total	ND	mg/kg	0.0128	1	3/ 2/02	4:18	S. Davis	8021B	5160
TPH (Gasoline Range)	ND	mg/kg	6.39	1	3/ 2/02	4:18	S. Davis	8015B	5160
TPH (Diesel Range)	ND	mg/kg	12.8	1	3/ 2/02	6:05	D.Haywood	8015B	9748

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.0 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	120.	65. - 135.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 02-A28790
Sample ID: PI-2
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	88.	50. - 150.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
JERRY PROSSER
7300 CARMEL EXEC. PARK, STE220
CHARLOTTE, NC 28226

Project: 48292
Project Name: 99 GNC
Sampler: RHETT BAGGETT

Lab Number: 02-A28791
Sample ID: PI-3
Sample Type: Soil
Site ID:

Date Collected: 2/22/02
Time Collected: 11:25
Date Received: 2/23/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	76.1	%		1	2/28/02	16:09	D.Yeager	CLP	4393
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.0131	1	3/ 2/02	4:50	S. Davis	8021B	5160
Ethylbenzene	ND	mg/kg	0.0131	1	3/ 2/02	4:50	S. Davis	8021B	5160
Toluene	ND	mg/kg	0.0131	1	3/ 2/02	4:50	S. Davis	8021B	5160
Xylenes, total	ND	mg/kg	0.0131	1	3/ 2/02	4:50	S. Davis	8021B	5160
TPH (Gasoline Range)	ND	mg/kg	6.57	1	3/ 2/02	4:50	S. Davis	8015B	5160
TPH (Diesel Range)	ND	mg/kg	13.0	1	3/ 2/02	6:25	D.Haywood	8015B	9748

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.2 gm	1.0 ml	2/28/02		D.Yeager	3550

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	117.	65. - 135.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 02-A28791
Sample ID: PI-3
Project: 48292

Surrogate	% Recovery	Target Range
EPH surr-o-Terphenyl	88.	50. - 150.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

All reported results for metals or Organic analyses have been corrected for dry weight.

End of Sample Report.

TestAmerica
INCORPORATED

PROJECT QUALITY CONTROL DATA
Project Number: 48292
Page: 1

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
UST surr-Trifluorotoluene	83.	% Recovery	5157	2/28/02	16:14
UST surr-Trifluorotoluene	87.	% Recovery	5159	2/28/02	17:29
UST surr-Trifluorotoluene	113.	% Recovery	5160	3/ 1/02	20:27
UST surr-Trifluorotoluene	87.	% Recovery	9835	3/ 1/02	16:44
UST surr-Trifluorotoluene	103.	% Recovery	9699	3/ 2/02	0:00

End of Report for Project 273181

Service Analytical & Environmental Solutions

449 Springbrook Road ▲ Charlotte, NC 28217
P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Fax: 704/525-0409

Samples INTACT upon arrival?	✓	—	—
Received ON WET ICE? Temp 2.5	✓	—	—
PROPER PRESERVATIVES indicated?	✓	—	✓
Received WITHIN HOLDING TIMES?	✓	—	✓
CUSTODY SEALS INTACT?	—	—	✓
VOLATILES rec'd W/OUT HEADSPACE?	✓	—	✓
PROPER CONTAINERS used?	✓	—	—

PRESS DOWN FIRMLY - 3 COPIES

Client URS
Physical Address 3109 Poplarwood Ct.
Raleigh, NC 27604
Phone 919-850-9511 Fax 919-790-0217
P.O./Billing Reference D16000.55146.05
Project Name NCDOT
Lo 49800 3T U 2525B

REPORT TO: Name Lee Rhea
Address
BILL TO: Name Lee Rhea
Address
Requested Due Date Standard TAT

(SEE REVERSE SIDE FOR RUSH TURNAROUND FEES)

State Certification
Requested NC ___ SC ___ Other ___ NA ~~___~~
Water Chlorinated Yes ___ No ___ NA ✓
Sample Iced Upon Collection Yes ✓ No ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSES REQUESTED TPH 8015M 8021	REMARKS	SUB LAB CERT. ID NO.	PRISM LAB ID NO.
SP-1-4	2/9/01	14:40	Soil	C,G	2	4oz,8oz	None	✓ ✓			97757
SP-1-16	2/9/01	14:43	Soil	C,G	2	4oz,8oz	none	✓ ✓			97758
SP-1-31	2/9/01	14:48	Soil	C,G	2	4oz,8oz	None	✓ ✓			97759
SP-10-8	2/9/01	14:55	Soil	C,G	2	4oz,8oz	none	✓ ✓			97760
SP-10-18	2/9/01	14:58	Soil	C,G	2	4oz,8oz	none	✓ ✓	Time 14:58		97761
SP-10-32	2/9/01	15:00	Soil	C,G	2	4oz,8oz	none	✓ ✓			97762
SP-5-8	2/9/01	15:30	Soil	C,G	2	4oz,8oz	None	✓ ✓			97763
SP-2-14	2/9/01	15:25	Soil	C,G	2	4oz,8oz	none	✓ ✓			97764
SP-2-4	2/9/01	15:23	Soil	C,G	2	4oz,8oz	none	✓ ✓			97765
SP-5-16	2/9/01	15:38	Soil	C,G	2	4oz,8oz	None	✓ ✓			97766

Sampler's Signature [signature] Sampled By (Print Name) CORISTA URTZ Affiliation staff engineer

Additional Comments

Relinquished By: (Signature)	Received By: (Signature) [signature]	Date 2-12 Military Hours 1450
Relinquished By: (Signature)	Received By: (Signature)	Date
Relinquished By: (Signature) [signature]	Received for Pasco Laboratories By: [signature]	Date 2-12-01 1645
Method of Shipment		Log-In Group No. 70176-27

RES	NC ___	UST:	NC ___	GROUNDWATER:	NC ___	DRINKING WATER:	NC ___	SOLID WASTE:	NC ___	OTHER:	NC ___
	SC ___		SC ___		SC ___		SC ___		SC ___		SC ___
	OTHER ___		OTHER ___		OTHER ___		OTHER ___		OTHER ___		OTHER ___

CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

01-26-01 04:10P

T-26

Service Analytical & Environmental Solutions

449 Springbrook Road ▲ Charlotte, NC 28217
P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Fax: 704/525-0409

PAGE 2 OF 5 QUOTE #

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	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 2.5	✓		
PROPER PRESERVATIVES indicated?	LRO ✓		✓
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		✓
PROPER CONTAINERS used?	✓		

Client URS
Physical Address 3109 Poplarwood Ct.
Raleigh, NC 27604
Phone 919-850-9511 Fax 919-790-0217
PO#/Billing Reference DU00055/146.05
Project Name NC DOT

REPORT TO: Name Lee Rhea
Address
BILL TO: Name Lee Rhea
Address
Requested Due Date Std. TAT

(SEE REVERSE SIDE FOR RUSH TURNAROUND FEES)

State Certification
Requested NC ___ SC ___ Other ___ NA ___
Water Chlorinated Yes ___ No ___ NA X
Sample Iced Upon Collection Yes X No ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSES REQUESTED: TPH GRO/DRO ADT	REMARKS	SUB LAB CERT. ID NO.	PRISM LAB ID NO.
P-5-29	2/9/01	15:45	Soil	C,G	2	4oz,8oz	none	1 1			97767
P-8-31.5	2/9/01	16:05	Soil	C,G	2	4oz,8oz	none	1 1			97768
P-4-30	2/9/01	15:46	Soil	C,G	2	4oz,8oz	none	1 1			97769
P-3-4	2/9/01	16:10	Soil	C,G	2	4oz,8oz	none	1 1			97770
P-6-20	2/9/01	15:55	Soil	C,G	2	4oz,8oz	none	1 1			97771
P-12-14	2/9/01	15:55	Soil	C,G	2	4oz,8oz	none	1 1			97772
P-6-4	2/9/01	16:00	Soil	C,G	2	4oz,8oz	none	1 1			97773
P-12-8	2/9/01	15:50	Soil	C,G	2	4oz,8oz	none	1 1			97774
P-8-2	2/9/01	16:02	Soil	C,G	2	4oz,8oz	none	1 1			97775
P-12-23.5	2/9/01	16:00	Soil	C,G	2	4oz,8oz	none	1 1			97776

Sampler's Signature [signature] Sampled By (Print Name) ORLISTA URTZ Affiliation Staff Engineer

Relinquished By: (Signature)	Received By: (Signature) [signature]	Date 2-12-01	Military Hours 1055
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature) [signature]	Received For Prism Laboratories By: [signature]	Date 2-12-01	1645
Method of Shipment		Log-In Group #	7017627

Additional Comments

STATES: NC ___ UST: NC ___ GROUNDWATER: NC ___ DRINKING WATER: NC ___ SOLID WASTE: NC ___ OTHER: NC ___
SC ___ SC ___ SC ___ SC ___ SC ___ SC ___
OTHER ___ OTHER ___ OTHER ___ OTHER ___ OTHER ___ OTHER ___

CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

Feb-26-01 04:11P P.30

arvice Analytical & Environmental Solutions

449 Springbrook Road ▲ Charlotte, NC 28217
P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Fax: 704/525-0409

PRESS DOWN FIRMLY - 3 COPIES

Received ON WET ICE? Temp 2.5	✓
PROPER PRESERVATIVES indicated?	✓
Received WITHIN HOLDING TIMES?	✓
CUSTODY SEALS INTACT?	✓
VOLATILES rec'd W/OUT HEADSPACE?	✓
PROPER CONTAINERS used?	✓

nt URS
sical Address 3109 Poplarwood Ct.
Raleigh, NC 27604
ne 919-850-9511 Fax 919-790-0217
#/Billing Reference D000055/146.05
ect Name NCDOT

REPORT TO: Name Lee Rhea
Address
BILL TO: Name Lee Rhea
Address
Requested Due Date Std. TAT
(SEE REVERSE SIDE FOR RUSH TURNAROUND FEES)

State Certification
Requested NC ___ SC ___ Other ___ NA ___
Water Chlorinated Yes ___ No ___ NA X
Sample Iced Upon Collection Yes X No ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSES REQUESTED TPH GRO/DRO 8011	REMARKS	SUB LAB CERT. ID NO.	PRISM LAB ID NO.
P-11-28	2/9/01	10:20	Soil	C, G	2	4oz, 8oz	none	1 1			97777
P-6-39	2/9/01	10:12	Soil	C, G	2	4oz, 8oz	none	1 1			97778
P-3-28	2/9/01	10:15	Soil	C, G	2	4oz, 8oz	none	1 1			97779
P-13-20	2/9/01	10:35	Soil	C, G	2	4oz, 8oz	none	1 1			97780
P-9-28	2/9/01	10:30	Soil	C, G	2	4oz, 8oz	none	1 1			97781
P-7-20	2/9/01	10:25	Soil	C, G	2	4oz, 8oz	none	1 1			97782
P-9-4	2/9/01	10:20	Soil	C, G	2	4oz, 8oz	none	1 1			97783

pler's Signature [signature] Sampled By (Print Name): CORISTA KURTZ Affiliation Staff Engineer

Additional Comments

nquished By: (Signature)	Received By: (Signature) [signature]	Date 2-12-01	Military/Hours 1054
nquished By: (Signature)	Received By: (Signature)	Date	
nquished By: (Signature) [signature]	Received For Prism Laboratories By: [signature]	Date 2-12-01	1645
hod of Shipment		Log-In Group No. 7017627	

ES NC ___ UST: NC ___ GROUNDWATER: NC ___ DRINKING WATER: NC ___ SOLID WASTE: NC ___ OTHER: NC ___
SC ___ SC ___ SC ___ SC ___ SC ___ SC ___
OTHER ___ OTHER ___ OTHER ___ OTHER ___ OTHER ___ OTHER ___

NTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

TABLE 1
SOIL LABORATORY ANALYTICAL RESULTS
NCDOT PARCEL 948 - MABEL L. CHILTON PROPERTY
GUILFORD COUNTY, NORTH CAROLINA
NCDOT PROJECT 8.1690303
(TIP: R-2616 AA)

	UNITS	Petroleum Hydrocarbons		
Analysis		GRO	DRO	Oil and Grease
STANDARDS				
Reportable Quantity	mg/kg	10	10	250
TPH Action Level	mg/kg	10	40	250
Soil-To-Groundwater	mg/kg	NE	NE	NE
Remediation Goal	mg/kg	NE	NE	NE
ANALYTICAL RESULTS				
GP-1-4	mg/kg	<1.0	<10	320
GP-1-16	mg/kg	<1.0	<10	260
GP-1-31	mg/kg	14	<10	320
GP-2-4	mg/kg	<1.0	<10	380
GP-2-14	mg/kg	<1.0	<10	450
GP-3-4	mg/kg	90	120	280
GP-3-28	mg/kg	210	<10	210
GP-4-30	mg/kg	420	<10	330
GP-5-8	mg/kg	61	<10	450
GP-5-16	mg/kg	6000	64	520
GP-5-29	mg/kg	2500	35	360
GP-6-4	mg/kg	<1.0	<10	320
GP-6-20	mg/kg	4.4	<10	220
GP-6-39	mg/kg	1200	<10	260
GP-7-20	mg/kg	20000	220	330
GP-8-2	mg/kg	<1.0	<10	170
GP-8-31.5	mg/kg	42	34	330
GP-9-4	mg/kg	<1.0	<10	260
GP-9-28	mg/kg	2500	81	280
GP-10-8	mg/kg	17	27	410
GP-10-18	mg/kg	22	350	1300
GP-10-32	mg/kg	230	15	350
GP-11-28	mg/kg	780	<10	440
GP-12-8	mg/kg	<1.0	<10	120
GP-12-14	mg/kg	1.2	<10	730
GP-12-23.5	mg/kg	2.5	<10	130
GP-13-20	mg/kg	7.2	<10	150

NOTES:

1. Soil samples were collected by Probe Technology of Concord, NC under the supervision of URS on 2-9-01 and submitted by URS under chain-of-custody protocols to Prism Laboratories, Inc. of Charlotte, NC for analyses.
2. Results for selected analytes are shown; see Appendix B for a full listing of results.
3. "<" denotes a non-detection (the detection limit follows).
4. "()" denotes an aqueous concentration.
5. STANDARDS are taken from guidance provided by the North Carolina Department of Environment and Natural Resources (NCDENR), including the Oct. 4, 1999 Division of Water Quality, Groundwater Section memorandum to environmental service companies, consultants and other interested parties entitled: Revised Policy for Soil Analytical Methods; the Jan. 2, 1998 Guidelines for the Investigation and Remediation of Soil and Groundwater, Volume II; and the NCDENR Division of Waste Management, Superfund Section, Inactive Hazardous Sites Branch Aug. 1998 Guidelines for Assessment and Cleanup.
6. "NE" - Not established

EMES

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REPORT NAME: Monitoring Well Abandonment Report | SITE NUMBER: Former EM Facility #99GNC

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ExxonMobil Environmental Services Company

Monitoring Well Abandonment Report - 2013

Former ExxonMobil Facility #99GNC
5009 Summit Avenue
Greensboro, Guilford County,
North Carolina

Groundwater Incident #24265

November 2013

ARCADIS

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Staff Environmental Scientist

Jon Farley, P.E.
Certified Project Manager I

11/1/2013

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Monitoring Well Abandonment Report - 2013

Former ExxonMobil Facility
#99GNC

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Environmental

Our Ref.:
B0085851.0047

Date:
November 1, 2013

MONITORING WELL ABANDONMENT REPORT – 2013

Former ExxonMobil Facility #99GNC
5009 Summit Avenue
Greensboro, Guilford County, North Carolina
Latitude 35° 41' 43.82"N Longitude 80° 52' 33.41"W
(Reference **Figure 1**)

Groundwater Incident #:	24265
Risk Classification:	High
Reason for Risk Classification:	26 potable wells within 1,500 feet of the site
Land Use Category:	Residential
Source of Release:	Former gasoline UST system
Date of Release Discovery:	February 2002
Estimated Quantity of Release:	Unknown
Cause of Release:	UST Leak
Responsible Party:	ExxonMobil Corporation Environmental Service Company Attn: Ms. Jewel Cox 1016 W. Poplar Avenue Suite 106 #232 Collierville, TN 38017 901.850.9009
Property Owner:	Attn: Heather Fulghum NCDOT PO Box #14996 Greensboro, NC 27415 770.428.4236

I, _____, a Professional Engineer for ARCADIS G&M of North Carolina, Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge. ARCADIS G&M of North Carolina, Inc. is licensed to practice geology and engineering in North Carolina. The certification numbers of the company are C-155 (geology) and C-1869 (engineering).

Table of Contents

1. Introduction

On October 22 – 23, 2013, on behalf of ExxonMobil Environmental Services Company (EMES), ARCADIS G&M of North Carolina (ARCADIS) subcontracted Parratt-Wolff Inc. (PW) to properly abandon the potable well located at 2710 Pindals Road and all groundwater monitoring wells associated with groundwater incident #24265 and former ExxonMobil facility #99GNC (the site), located at 5009 Summit Avenue, Greensboro, Guilford County, North Carolina. A site location map is included as **Figure 1**. The monitoring wells were abandoned as per email correspondence with the North Carolina Department of Environment and Natural Resources (NCDENR) in advance of the redevelopment of the property for use in the proposed Greensboro Loop (NCDOT Project #U-2525C). A copy of the email correspondence is provided in **Appendix A**.

2. Potable & Monitoring Well Abandonment

Eleven (11) groundwater monitoring/soil vapor extraction (SVE) wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7/SVE-2, MW-8/SVE-1, MW-9/SVE-3, MW-10, and MW-11), three (3) air sparge wells (AS-1, AS-2, and AS-3), and one potable well (2710 Pindals Road) were properly abandoned by PW, a North Carolina licensed well driller (Cert. #3544), on October 22 - 23, 2013. The groundwater monitoring/SVE wells and air sparge wells were housed in 8-inch diameter round manholes and the SVE wells were housed in 2 foot by 2 foot square vaults. The potable well at 2710 Pindals Road was housed within a 12-inch diameter above-ground circular concrete well vault. Abandonment of the monitoring/SVE wells, air sparge wells, and potable well was performed in accordance with 15A NCAC 2C Well Construction Standards as follows:

- ARCADIS personnel gauged each monitoring/SVE, air sparge, and potable well prior to abandonment. Depth to water was measured from the top of casing of each monitoring/SVE, air sparge, and potable well using an electronic oil/water interface probe accurate to 0.01 foot. Current and historical groundwater elevations are summarized in **Table 1**.

- Monitoring/SVE, air sparge, and potable wells were abandoned in-place via tremie-grout methods. The monitoring/SVE, air sparge, and potable wells were filled from the bottom up with a cement grout mixture consisting of Portland cement and powdered bentonite.

- Following tremie-grouting of the monitoring/SVE, air sparge, and potable wells, the manhole and vault voids were returned to grade using a concrete cap to ground

surface. Due to high vehicle and pedestrian traffic at the site, monitoring/SVE, air sparge, and potable well vault manhole lids were abandoned in place and secured by the concrete cap. Before, during, and after photographs of monitoring well abandonment are included in **Appendix B** as an example of the monitoring well abandonment activities.

The locations of the former monitoring/SVE and air sparge wells are illustrated in **Figure 2**. The location of the former potable well (2710 Pindals Road) and the route of the Greensboro Loop (NCDOT Project #U-2525C) are presented in **Figure** 3. The Well Abandonment Records are included in **Appendix C**.

As per the email correspondence with the NCDENR, ARCADIS respectfully recommends the completion of a Notice of Residual Petroleum (NORP) for the subject incident number. The proposed NORP will be completed and filed with the Guilford County Register of Deeds. Upon completion of the NORP requirements, ARCADIS will respectfully request No Further Action (NFA) status be granted for the subject incident number.

ARCADIS

Tables

Table 1: Groundwater Gauging Data

Revision Date: 11/4/2013

Incident Number: 24265

Facility ID #: Former ExxonMobil Facility #99GNC

Well ID	Gauging Date	Top of Casing Elevation (ft)	Well Casing (ft btoc)	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Depth to Product (ft btoc)	Product Thickness (ft)	Groundwater Elevation (ft)	Measured Depth to Bottom (ft)	Well Diameter (inches)
MW-1	06/27/02	100.00	0-25	25-40	32.07	70.46	2.53	67.93	40.00	2"
	07/29/02				32.37	72.01	4.38	67.63	40.00	2"
	08/27/02				37.40	67.10	4.50	62.60	40.00	2"
	09/09/02				37.36	67.15	4.51	62.64	40.00	2"
	10/02/02				35.30	66.30	1.60	64.70	40.00	2"
	11/18/02				35.03	68.85	3.88	64.97	40.00	2"
	12/17/02				30.81	69.55	0.36	69.19	40.00	2"
	01/10/03				30.26	70.10	0.36	69.74	40.00	2"
	02/24/03				29.10	71.20	0.30	70.90	40.00	2"
	03/18/03				27.94	72.24	0.18	72.06	40.00	2"
	04/11/03				26.63	73.55	0.18	73.37	40.00	2"
	05/14/03				26.04	74.25	0.29	73.96	40.00	2"
	06/05/03				25.52	74.71	0.23	74.48	40.00	2"
	07/08/03				24.65	--	--	75.35	40.00	2"
	08/11/03				24.65	--	--	75.35	40.00	2"
	09/03/03				24.60	--	--	75.40	40.00	2"
	09/15/03				24.50	--	--	75.50	40.00	2"
	03/09/04				24.70	--	--	75.30	40.00	2"
	01/03/06				30.00	--	--	70.00	40.00	2"
	12/26/07				Dry	--	--	Dry	27.85	2"
	03/31/08				33.07	--	--	66.93	39.82	2"
	08/14/08				31.50	--	--	68.50	40.00	2"
	06/02/09				30.32	--	--	69.68	40.20	2"
	11/05/09				33.11	--	--	66.89	40.00	2"
	08/09/10				29.17	--	--	70.83	41.00	2"
	11/04/10				32.32	--	--	67.68	40.00	2"
	02/01/11				32.10	--	--	67.90	NM	2"
	04/26/11				31.80	--	--	68.20	38.80	2"
	10/25/11				32.19	--	--	67.81	40.10	2"
	01/18/12				33.25	--	--	66.75	NM	2"
	02/10/12				31.04	--	--	68.96	40.10	2"
	03/20/12				30.86	--	--	69.14	40.10	2"
	04/25/12				30.20	--	--	69.80	40.10	2"
	05/23/12				28.00	--	--	72.00	40.10	2"
	06/26/12				28.10	--	--	71.90	40.10	2"
	07/25/12				29.13	--	--	70.87	40.10	2"
	08/29/12				32.00	--	--	68.00	40.10	2"
	09/26/12				Monitoring Well Inaccessible - Disabled Vehicle Parked over Well					
	10/25/12				29.24	--	--	70.76	40.10	2"
	11/08/12				29.97	--	--	70.03	40.10	2"
	11/14/12				33.90	--	--	66.10	40.10	2"
	12/05/12				33.95	--	--	66.05	40.10	2"
	10/22/13				30.40	--	--	69.60	40.00	2"
	Monitoring Well Abandoned on October 22, 2013									
MW-1R	12/26/07	--	Unknown	Unknown	Dry	--	--	Dry	31.80	--
	03/31/08	--			Dry	--	--	Dry	39.10	--
MW-2	06/27/02	100.12	0-25	25-40	32.92	67.35	0.15	67.20	40.00	2"
	07/29/02				35.15	67.87	2.90	64.97	40.00	2"
	08/27/02				36.00	66.52	2.40	64.12	40.00	2"
	09/09/02				35.95	66.52	2.35	64.17	40.00	2"
	10/02/02				35.00	66.07	0.95	65.12	40.00	2"
	11/18/02				34.50	68.17	2.55	65.62	40.00	2"
	12/17/02				30.45	--	--	69.67	40.00	2"
	01/10/03				30.41	--	--	69.71	40.00	2"
	02/24/03				29.30	--	--	70.82	40.00	2"
	03/18/03				28.40	--	--	71.72	40.00	2"
	01/01/00				27.11	--	--	73.01	40.00	2"

Table 1: Groundwater Gauging Data

Revision Date: 11/4/2013 Incident Number: 24265 Facility ID #: Former ExxonMobil Facility #99GNC

Well ID	Gauging Date	Top of Casing Elevation (ft)	Well Casing (ft btoc)	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Depth to Product (ft btoc)	Product Thickness (ft)	Groundwater Elevation (ft)	Measured Depth to Bottom (ft)	Well Diameter (inches)
MW-2 Continued	05/14/03	100.12	0-25	25-40	26.40	--	--	73.72	40.00	2"
	06/05/03				25.95	--	--	74.17	40.00	2"
	07/08/03				25.25	--	--	74.87	40.00	2"
	09/15/03				24.90	--	--	75.22	40.00	2"
	03/09/04				25.08	--	--	75.04	40.00	2"
	01/03/06				30.25	--	--	69.87	40.00	2"
	12/26/07				33.85	--	--	66.27	49.20	2"
	08/14/08				32.95	--	--	67.17	35.40	2"
	06/02/09				32.01	--	--	68.11	34.30	2"
	11/05/09				32.45	--	--	67.67	34.44	2"
	08/09/10				26.71	--	--	73.41	34.69	2"
	11/04/10				28.68	--	--	71.44	40.00	2"
	02/01/11				Dry	--	--	--	NM	2"
	04/26/11				32.20	--	--	67.92	34.40	2"
	10/25/11				31.95	--	--	68.17	34.17	2"
	01/18/12				33.00	--	--	67.12	NM	2"
	02/10/12				31.84	--	--	68.28	34.20	2"
	03/20/12				31.51	--	--	68.61	34.30	2"
	04/25/12				29.65	--	--	70.47	34.30	2"
	05/23/12				27.40	--	--	72.72	34.30	2"
	06/26/12				30.50	--	--	69.62	34.30	2"
	07/25/12				31.18	--	--	68.94	34.30	2"
	08/29/12				31.90	--	--	68.22	34.30	2"
	09/26/12				31.96	--	--	68.16	34.30	2"
	10/25/12				31.00	--	--	69.12	34.30	2"
	11/08/12				30.17	--	--	69.95	34.30	2"
	11/14/12				33.68	--	--	66.44	34.30	2"
	12/05/12				32.80	--	--	67.32	34.30	2"
	10/22/13				30.76	--	--	69.36	34.50	2"
	Monitoring Well Abandoned on October 22, 2013									
MW-3	10/04/02	100.12	0-20	20-45	37.30	--	--	62.82	45.00	2"
	03/09/04				24.74	--	--	75.38	45.00	2"
	12/26/07				35.91	--	--	64.21	44.25	2"
	03/31/08				33.51	--	--	66.61	44.02	2"
	08/14/08				33.56	--	--	66.56	44.18	2"
	06/02/09				30.35	--	--	69.77	45.12	2"
	11/05/09				35.75	--	--	64.37	44.10	2"
	08/09/10				31.43	--	--	68.69	44.22	2"
	11/04/10				34.73	--	--	65.39	45.00	2"
	02/01/11				35.30	--	--	64.82	NM	2"
	04/26/11				32.70	--	--	67.42	44.00	2"
	10/25/11				Not Located					2"
	03/20/12				32.89	--	--	67.23	44.00	2"
	11/08/12				34.25	--	--	65.87	44.10	2"
	10/22/13				31.93	--	--	68.19	44.00	2"
	Monitoring Well Abandoned on October 22, 2013									
MW-4	06/27/02	98.61	0-27	27-45	31.35	--	--	67.26	42.00	2"
	03/09/04				22.55	--	--	76.06	42.00	2"
	12/26/07				30.25	--	--	68.36	34.80	2"
	03/31/08				33.02	--	--	65.59	40.52	2"
	08/14/08				30.44	--	--	68.17	41.00	2"
	06/02/09				27.86	--	--	70.75	40.21	2"
	11/05/09				32.17	--	--	66.44	39.75	2"
	08/09/10				28.38	--	--	70.23	40.15	2"
	11/04/10				30.80	--	--	67.81	40.00	2"
	02/01/11				30.00	--	--	68.61	NM	2"
	04/26/11				29.45	--	--	69.16	40.00	2"
	10/25/11				33.30	--	--	65.31	40.10	2"

Table 1: Groundwater Gauging Data

Revision Date: 11/4/2013 Incident Number: 24265 Facility ID #: Former ExxonMobil Facility #99GNC

Well ID	Gauging Date	Top of Casing Elevation (ft)	Well Casing (ft btoc)	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Depth to Product (ft btoc)	Product Thickness (ft)	Groundwater Elevation (ft)	Measured Depth to Bottom (ft)	Well Diameter (inches)
MW-4 Continued	03/20/12	98.61	0-27	27-45	29.78	--	--	68.83	40.00	2"
	11/08/12				32.18	--	--	66.43	40.00	2"
	10/22/13				29.47	--	--	69.14	40.10	2"
	Monitoring Well Abandoned on October 22, 2013									
MW-5	06/27/02	94.32	0-20	20-40	27.35	--	--	66.97	40.00	2"
	03/09/04				19.85	--	--	74.47	40.00	2"
	12/26/07				NL					
	03/31/08				NL					
	08/14/08				26.94	--	--	67.38	39.70	2"
	06/02/09				NL					
	11/05/09				22.23	--	--	72.09	39.75	2"
	08/09/10				24.82	--	--	69.50	39.73	2"
	11/04/10				26.77	--	--	67.55	40.00	2"
	02/01/11				27.10	--	--	67.22	NM	2"
	04/26/11				24.70	--	--	69.62	39.70	2"
	10/25/11				28.62	--	--	65.70	39.75	2"
	03/20/12				24.90	--	--	69.42	39.65	2"
	11/08/12				26.25	--	--	68.07	39.65	2"
	10/22/13				27.75	--	--	66.57	40.00	2"
	Monitoring Well Abandoned on October 22, 2013									
MW-6	10/04/02	101.10	0-20	20-45	35.80	--	--	65.30	45.00	2"
	03/09/04				26.00	--	--	75.10	45.00	2"
	12/26/07				34.56	--	--	66.54	44.70	2"
	03/31/08				33.28	--	--	67.82	44.46	2"
	08/14/08				32.61	--	--	68.49	44.38	2"
	06/02/09				30.58	--	--	70.52	44.65	2"
	11/05/09				34.11	--	--	66.99	44.78	2"
	08/09/10				30.43	--	--	70.67	44.68	2"
	11/04/10				33.12	--	--	67.98	45.00	2"
	02/01/11				34.00	--	--	67.10	NM	2"
	04/26/11				32.30	--	--	68.80	44.60	2"
	10/25/11				35.49	--	--	65.61	44.60	2"
	03/20/12				32.20	--	--	68.90	44.60	2"
	11/08/12				33.46	--	--	67.64	44.60	2"
	10/22/13				31.62	--	--	69.48	44.60	2"
	Monitoring Well Abandoned on October 22, 2013									
MW-7/SVE-2	03/09/04	100.12	0-8	8-33	24.81	--	--	75.31	38.00	4"
	12/26/07				32.41	--	--	67.71	36.33	4"
	03/31/08				NL					
	08/14/08				30.75	--	--	69.37	31.42	4"
	06/04/09				24.64	--	--	75.48	38.60	4"
	11/05/09				32.17	--	--	67.95	33.60	4"
	08/09/10				Dry	--	--	Dry	26.31	4"
	11/04/10				26.25	--	--	73.87	38.20	4"
	02/01/11				22.90	--	--	77.22	NM	4"
	04/26/11				30.70	--	--	69.42	33.50	4"
	10/25/11				21.90	--	--	78.22	37.20	4"
	03/20/12				27.95	--	--	72.17	37.10	4"
	11/08/12				26.22	--	--	73.90	37.10	4"
	10/22/13				29.08	--	--	71.04	37.20	4"
	Monitoring / Soil Vapor Extraction Well Abandoned on October 22, 2013									

Table 1: Groundwater Gauging Data

Revision Date: 11/4/2013 Incident Number: 24265 Facility ID #: Former ExxonMobil Facility #99GNC

Well ID	Gauging Date	Top of Casing Elevation (ft)	Well Casing (ft btoc)	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Depth to Product (ft btoc)	Product Thickness (ft)	Groundwater Elevation (ft)	Measured Depth to Bottom (ft)	Well Diameter (inches)
MW-8/SVE-1	03/09/04	99.55	0-8	8-33	24.15	--	--	75.40	33.00	4"
	01/03/06				29.00	--	--	70.55	33.00	4"
	12/26/07				33.78	--	--	65.77	49.00	4"
	08/14/08				Dry	--	--	Dry	26.70	4"
	06/04/09				Could Not Access					
	11/05/09				Dry	--	--	Dry	28.90	4"
	08/09/10				Dry	--	--	Dry	28.33	4"
	11/04/10				24.22	--	--	75.33	32.15	4"
	02/11/11				19.05	--	--	80.50	NM	4"
	04/26/11				30.50	--	--	69.05	31.70	4"
	10/25/11				Dry	--	--	Dry	31.30	4"
	01/18/12				Dry	--	--	Dry	31.15	4"
	02/10/12				30.92	--	--	68.63	31.60	4"
	03/20/12				29.05	--	--	70.50	31.40	4"
	04/25/12				24.68	--	--	74.87	31.40	4"
	05/23/12				24.72	--	--	74.83	31.40	4"
	06/26/12				23.86	--	--	75.69	31.40	4"
	07/25/12				29.38	--	--	70.17	31.40	4"
	08/29/12				30.00	--	--	69.55	31.40	4"
	09/26/12				30.01	--	--	69.54	31.40	4"
	10/25/12				30.02	--	--	69.53	31.40	4"
	11/08/12				21.48	--	--	78.07	31.40	4"
	11/14/12				30.01	--	--	69.54	31.40	4"
	12/05/12				29.42	--	--	70.13	31.40	4"
	10/22/13				29.08	--	--	70.47	31.50	4"
	Monitoring / Soil Vapor Extraction Well Abandoned on October 22, 2013									
MW-9/SVE-3	03/09/04	100.10	0-9	9-39	24.85	--	--	75.25	39.00	4"
	01/03/06				29.85	--	--	70.25	39.00	4"
	03/31/08				32.77	--	--	67.33	36.70	4"
	08/14/08				30.98	--	--	69.12	36.32	4"
	06/04/09				29.99	--	--	70.11	36.80	4"
	11/05/09				32.48	--	--	67.62	36.00	4"
	08/09/10				28.78	--	--	71.32	35.65	4"
	11/04/10				26.80	--	--	73.30	37.15	4"
	02/01/11				22.75	--	--	77.35	NM	4"
	04/26/11				30.70	--	--	69.40	33.90	4"
	10/25/11				Dry	--	--	Dry	35.40	4"
	03/20/12				30.94	--	--	69.16	34.90	4"
	11/08/12				27.81	--	--	72.29	34.90	4"
	10/22/13				30.05	--	--	70.05	36.40	4"
	Monitoring / Soil Vapor Extraction Well Abandoned on October 22, 2013									
MW-10	03/31/08	96.55	Unknown	Unknown	28.37	--	--	68.18	34.60	4"
	08/14/08				28.53	--	--	68.02	34.79	2"
	06/02/09				25.48	--	--	71.07	34.77	2"
	11/05/09				29.52	--	--	67.03	34.80	2"
	08/09/10				25.75	--	--	70.80	35.82	2"
	11/04/10				28.82	--	--	67.73	34.70	2"
	02/11/11				29.00	--	--	67.55	NM	2"
	04/26/11				26.90	--	--	69.65	34.60	2"
	10/25/11				30.85	--	--	65.70	34.70	2"
	03/20/12				27.48	--	--	69.07	34.70	2"
	11/08/12				28.35	--	--	68.20	34.70	2"
	10/22/13				28.73	--	--	67.82	34.90	2"
	Monitoring Well Abandoned on October 22, 2013									

Table 1: Groundwater Gauging Data

Revision Date: 11/4/2013

Incident Number: 24265

Facility ID #: Former ExxonMobil Facility #99GNC

Well ID	Gauging Date	Top of Casing Elevation (ft)	Well Casing (ft btoc)	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Depth to Product (ft btoc)	Product Thickness (ft)	Groundwater Elevation (ft)	Measured Depth to Bottom (ft)	Well Diameter (inches)
MW-11	11/05/09	NA	Unknown	Unknown	30.13	--	--	NA	37.20	2"
	08/09/10	NA			26.37	--	--	NA	37.00	2"
	11/04/10	NA			29.36	--	--	NA	37.00	2"
	02/01/11	NA			29.90	--	--	NA	NM	2"
	04/26/11	NA			27.50	--	--	NA	36.50	2"
	10/25/11	NA			31.49	--	--	NA	36.65	2"
	03/20/12	NA			27.88	--	--	NA	36.60	2"
	11/08/12	NA			29.03	--	--	NA	36.60	2"
	10/22/13	NA			29.76	--	--	NA	36.65	2"
	Monitoring Well Abandoned on October 22, 2013									
VE-1	06/27/02	100.11	0-55	55-70	54.95	--	--	45.16	70.00	2"
	03/09/04				24.66	--	--	75.45	70.00	2"
	12/26/07				34.45	--	--	65.66	69.20	2"
	VE-1 Converted to AS-1 in 2007									
AS-1	12/26/07	100.12	0-55	55-70	32.41	--	--	67.71	36.33	2"
	03/31/08				Dry	--	--	Dry	26.75	2"
	10/22/13				30.70	--	--	69.42	49.00	2"
	Air Sparge Well Abandoned on October 22, 2013									
AS-2	10/22/13	NA	Unknown	Unknown	31.49	--	--	NA	70.00	2"
	Air Sparge Well Abandoned on October 22, 2013									
AS-3	10/22/13	NA	Unknown	Unknown	29.94	--	--	NA	49.40	2"
	Air Sparge Well Abandoned on October 22, 2013									
2710 Pindals Road	10/22/13	NA	NA	NA	28.00	--	--	NA	67.00	6"
	Potable Well Abandoned on October 22 - 23, 2013									

Notes:
ft = feet
btoc = below top of well casing
-- = not detected or not applicable
NM = not measured
NL= not located
NG= not gauged
NA = not available

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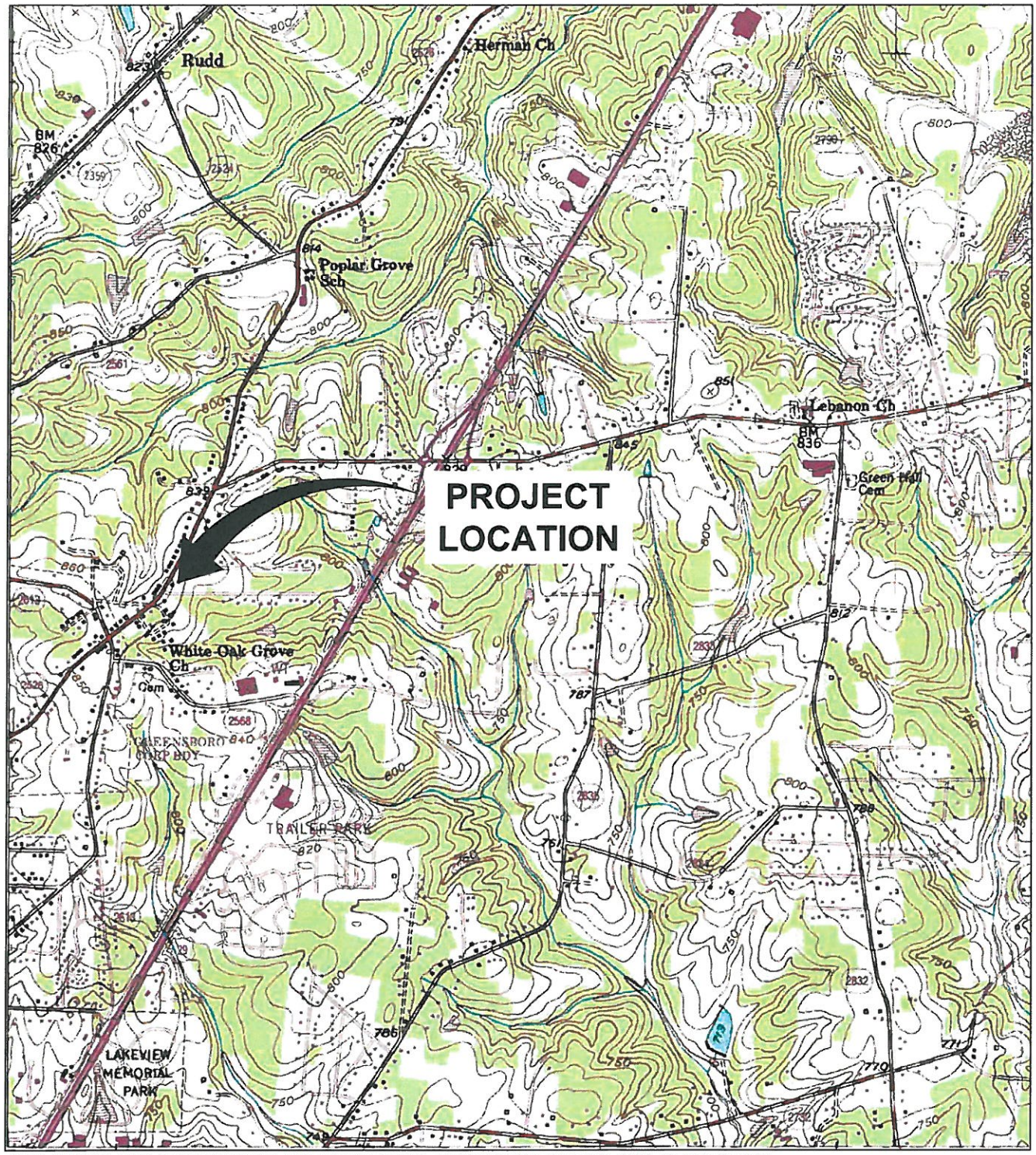
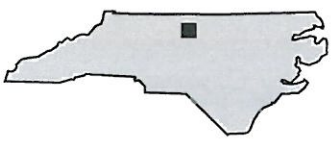
Figures



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., BROWNS SUMMIT, NC, 1951, REVISED 1994.

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.



NORTH CAROLINA

EXXONMOBIL ENVIRONMENTAL SERVICES
EXXONMOBIL FACILITY #99-GNC
5009 SUMMIT AVENUE, GREENSBORO, NC
MONITORING WELL ABANDONMENT REPORT - 2013

SITE LOCATION MAP

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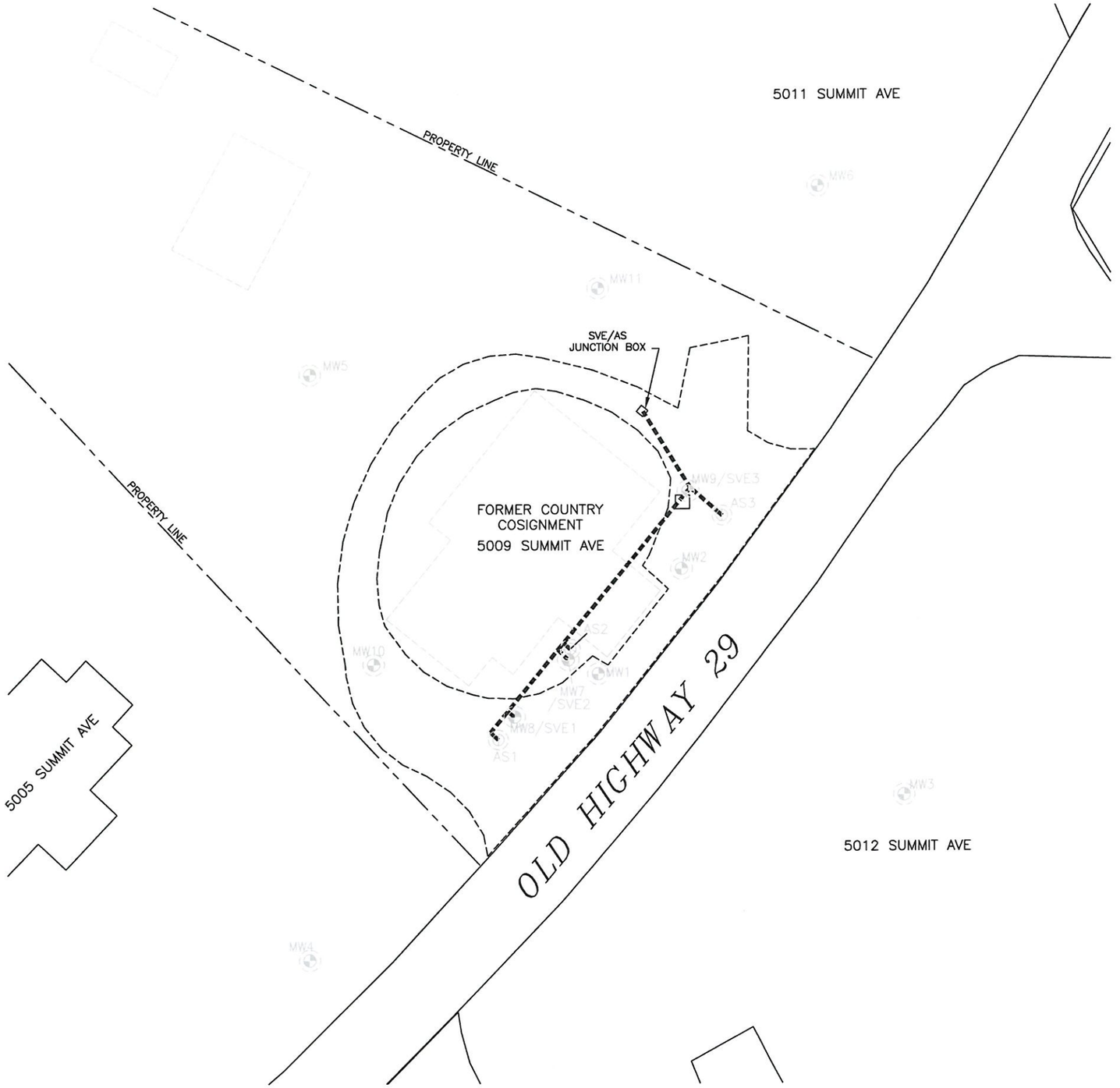
FIGURE 1

CITY: SYRACUSE, NY DIV/GROUP: ENV/REM-WIM-DV DB: P. LISTER PM/TM: J. FARLEY TR: P. GOODELL LYR:(Opt)ON="OFF="REF"
G:\ENVCAD\SYRACUSE\ACT\B0085851\0047\00006\DWG\85851N01.dwg LAYOUT: 1 SAVED: 10/25/2013 3:11 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: — PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 10/25/2013 3:12 PM BY: LISTER, PAUL

XREFS: IMAGES: PROJECTNAME: —
NC_Browns_Summit.tif
NC_Charlotte West.tif



LEGEND:

- MONITORING WELL LOCATION
- AIR SPARGE WELL LOCATION
- ABANDONED MONITORING WELL LOCATION
- ABANDONED AIR SPARGE WELL LOCATION

NOTES:

1. BASE MAP PREPARED FROM A DRAWING PROVIDED BY GES; DATED AUGUST 7, 2010; SCALE 1"=30'.
2. ALL LOCATIONS ARE APPROXIMATE.

0 30' 60'

GRAPHIC SCALE

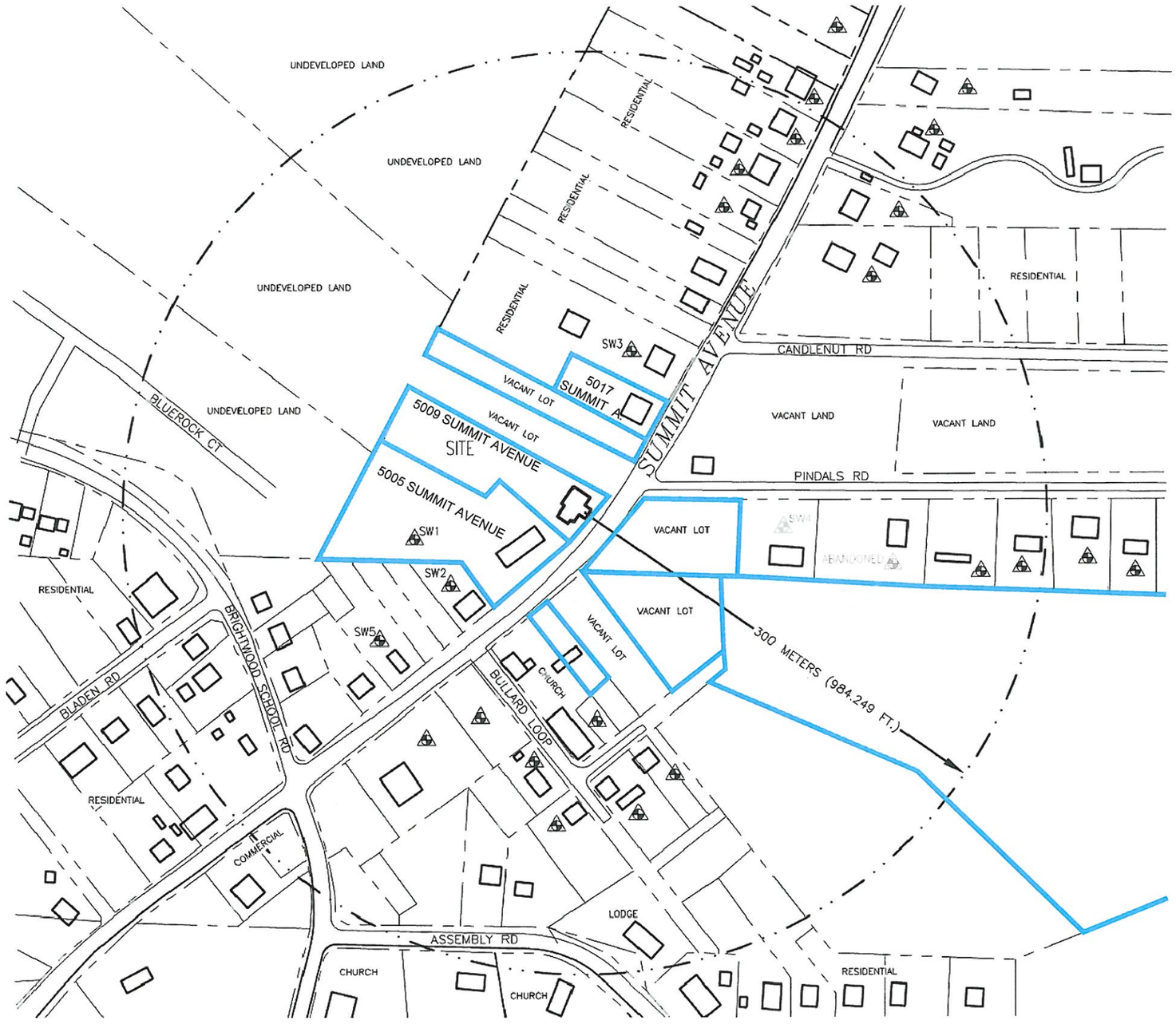
EXXONMOBIL ENVIRONMENTAL SERVICES
FORMER EXXON SERVICE STATION #99-GNC
5009 SUMMIT AVENUE, GREENSBORO, NC
MONITORING WELL ABANDONMENT REPORT - 2013

SITE MAP

ARCADIS

FIGURE
2

CITY: SYRACUSE, NY DIV/GROUP: ENV/REM-WIM-DV DB: P. LISTER PM/TM: J. FARLEY TR: P. GOODELL LYR(ON)="OFF=*REF*"
G:\ENV\CAD\SYRACUSE\ACTIVE\00858951\004\T00008\DWG\858951B01.dwg LAYOUT: 2 SAVED: 10/25/2013 3:35 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: —
XREFS: IMAGES: PROJECTNAME: —



LEGEND

- WATER SUPPLY WELL
- PROPERTIES IN BLUE HAVE BEEN PURCHASED BY THE NCDOT FOR USE IN THE PROPOSED GREENSBORO LOOP (NCDOT PROJECT #U-2525C)
- PROPOSED PATH OF THE HIGHWAY
- ABANDONED WATER SUPPLY WELL

NOTES:

1. BASE MAP PREPARED FROM A DRAWING PROVIDED BY GES; DATED AUGUST 7, 2010; SCALE 1"=30'.
2. ALL LOCATIONS ARE APPROXIMATE.
3. SW-4 WAS THE POTABLE WELL THAT SERVICED 2710 PINDALS ROAD. THIS WELL WAS ABANDONED ON 10/22-10/23/2013.

0 250' 500'

GRAPHIC SCALE

EXXONMOBIL ENVIRONMENTAL SERVICES
FORMER EXXON SERVICE STATION #99-GNC
5009 SUMMIT AVENUE, GREENSBORO, NC
MONITORING WELL ABANDONMENT REPORT - 2013

POTABLE WELL LOCATION MAP

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FIGURE 3

CITY: SYRACUSE_NY DIV/GROUP: ENV/REM-WIM-DV DB: P. LISTER PM/TM: J. FARLEY TR: P. GOODELL LYR:(ON)ON=*;OFF=*REF*
G:\ENV\CAD\SYRACUSE\ACTIB\085551\00\A700006\DWG\085551IB02.DWG LAYOUT: 3 SAVED: 10/25/2013 4:36 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: —
XREFS: IMAGES: PROJECTNAME: —
85851X01 potable well map.tif

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Appendix **A**

Email Correspondence with the NCENR – May – June 2013

From: Gene Mao <GMAO@co.guilford.nc.us>
Sent: Wednesday, June 12, 2013 2:17 PM
To: Farley, Jon
Subject: RE: Incident #24265 - Former ExxonMobil Facility #99GNC - Potable Well Sampling

I think after the closing the well can be abandoned. Then you can move forward for site closure under the risk-based rules.

Thank.

From: Farley, Jon [mailto:Jon.Farley@arcadis-us.com]
Sent: Wednesday, June 12, 2013 2:08 PM
To: Gene Mao
Subject: RE: Incident #24265 - Former ExxonMobil Facility #99GNC - Potable Well Sampling

Thank you Mr. Mao.

Please keep us posted. It is our understanding that the home will only be occupied for another 4 to 8 weeks and then the NCDOT will assume ownership as part of the Greensboro Loop Project.

From: Gene Mao [mailto:GMAO@co.guilford.nc.us]
Sent: Wednesday, June 12, 2013 2:05 PM
To: Farley, Jon
Subject: RE: Incident #24265 - Former ExxonMobil Facility #99GNC - Potable Well Sampling

I have submitted the results and request to the State and hopefully hear from them soon.

Thanks.

From: Farley, Jon [mailto:Jon.Farley@arcadis-us.com]
Sent: Wednesday, June 12, 2013 1:31 PM
To: Gene Mao
Cc: Cox, Jewel G; Mattingly, Michael; Goodell, Paul
Subject: RE: Incident #24265 - Former ExxonMobil Facility #99GNC - Potable Well Sampling

Hello Mr. Mao,

I just wanted to follow up with you and confirm that it is acceptable to proceed with our plan to provide bottled water to Ms. Morris' residence. Delivery is scheduled for this afternoon (06/12/13).

Thank you,
Jon

From: Farley, Jon
Sent: Tuesday, June 11, 2013 4:50 PM
To: 'Gene Mao'
Cc: 'Cox, Jewel G'; Mattingly, Michael (Michael.Mattingly@arcadis-us.com); Goodell, Paul (Paul.Goodell@arcadis-us.com)
Subject: RE: Incident #24265 - Former ExxonMobil Facility #99GNC - Potable Well Sampling

Hello Mr. Mao,

We were able to visit the property at 2710 Pindals Road in Greensboro, NC and also meet with the current property owner (Ms. Janet King Morris) yesterday (06/10/13) evening. We provided Ms. Morris with the potable well sampling results from the two (2) potable water samples that were collected previously (05/14/13 and 05/30/13 – laboratory analytical results attached) from the spigot on the side of the home. We were also able to collect two additional potable water samples from the home (bathroom faucet and kitchen faucet) to confirm COC concentrations from the previous two sampling events.

Ms. Morris also confirmed that she has signed an agreement with the NCDOT and expects to vacate the property within the next 4 to 8 weeks. Ms. Morris' home phone number is 336-291-6911.

At this point we plan to move forward with providing Ms. Morris with bottled water for drinking. The bottled water delivery service to the residence will begin tomorrow (06/12/13).

Once we receive the laboratory analytical results from the additional confirmation potable well samples collected yesterday (06/10/13) we will pass those along to all parties.

If you have any questions please let me know.

Thank you,
Jon

From: Gene Mao [mailto:GMAO@co.guilford.nc.us]
Sent: Monday, June 10, 2013 2:15 PM
To: Farley, Jon
Subject: RE: Incident #24265 - Former ExxonMobil Facility #99GNC - Potable Well Sampling

Jon Farley,

I concur with your plan.

Thanks.

Gene Mao

From: Farley, Jon [mailto:Jon.Farley@arcadis-us.com]
Sent: Monday, June 10, 2013 11:58 AM
To: Gene Mao
Cc: Cox, Jewel G; Mattingly, Michael; Goodell, Paul
Subject: RE: Incident #24265 - Former ExxonMobil Facility #99GNC - Potable Well Sampling

Hello Mr. Mao,

I wanted to follow up with you regarding incident #24265, former ExxonMobil facility #99GNC located at 5009 Summit Avenue in Greensboro, NC, and the recent potable well sampling events at the property located at 2710 Pindals Road (SW-4 on the attached figure).

A second potable well sample was collected from the potable well (same location as the first sample was collected – spigot on side of home) located at 2710 Pindals Road (SW4) on May 30, 2013 to confirm concentrations of 1,2-Dichloroethane (see email chain below). Laboratory analytical results (attached) indicated 1,2-Dichloroethane was

detected in the second sample collected at a concentration of 1.17 micrograms per Liter (ug/L) exceeding the North Carolina Groundwater Quality 2L Standard of 0.40 ug/L for 1,2-Dichloroethane.

However, since collecting the potable well samples we learned that the North Carolina Department of Transportation (NCDOT) has come to an agreement to purchase the property located at 2710 Pindals Road from the property owner (Ms. Janet King Morris) as part of the planned Greensboro, NC Loop Road Project. The property will be closed on within the next three (3) weeks (please see attached email from Ms. Heather Fulghum with the NCDOT). As a result, the property will be vacant and the well will no longer be in use. The property will also eventually become part of the planned road project (please see attached site map showing location of potable well at 2710 Pindals Road and the planned Greensboro, NC Loop Road Project construction).

At this time it is unknown if Ms. Morris is still residing at the property or if she has vacated (telephone number we have is no longer in service). We are planning to send someone to the property to inform Ms. Morris of the sampling results and confirm if the property is vacant and the well is still in use. If the well is still in use we would also like to collect multiple potable water samples from inside the property to confirm if concentrations of 1,2-Dichloroethane are from the potable well or from an alternate source within the structure.

Please let me know if our plan of action is acceptable and how we should proceed. Also, please let me know if you have any questions.

Thank you,
Jon

From: Goodell, Paul
Sent: Friday, May 24, 2013 10:35 AM
To: Gene Mao
Cc: Farley, Jon
Subject: RE: Incident #24265

Thank you Mr. Mao. We are utilizing TestAmerica for both sets of samples.

From: Gene Mao [mailto:GMAO@co.guilford.nc.us]
Sent: Friday, May 24, 2013 10:21 AM
To: Goodell, Paul
Subject: RE: Incident #24265

Mr. Goodell,

Thanks for the update. Resampling the well will be OK. Do you use the same lab or other lab?

Gene

From: Goodell, Paul [mailto:Paul.Goodell@arcadis-us.com]
Sent: Friday, May 24, 2013 10:08 AM
To: Gene Mao
Cc: Farley, Jon
Subject: RE: Incident #24265

Good morning Mr. Mao,

This email is in regards to incident #24265, Former ExxonMobil Facility #99GNC, which is located at 5009 Summit Avenue in Greensboro, NC. ARCADIS completed a round of potable well sampling at the four properties surrounding the site that we discussed last week. One property, 2710 Pindals Road (SW-4 on the attached figure), contained a detection for 1,2-dichloroethane at 1.32 ug/L which exceeds the 2L standard of 0.40 ug/L. No other dissolved-phase chemicals of concern (COCs) were detected above the minimum laboratory detection limits for this monitoring well. Additionally, none of the other potable wells sampled contained detections of dissolved-phase COCS.

The detection of 1,2-dicholorethane at 2710 Pindals Road is likely an anomaly compared with the non-detections for all other COCs at this location and the other sampled wells. I would like to propose to resample 2710 Pindals Road, only, early next week to confirm the detection.

Thank you

Paul

Paul Goodell, CES | Staff Environmental Scientist | paul.goodell@arcadis-us.com
ARCADIS U.S., Inc. |801 Corporate Center Drive, Suite 300 | Raleigh, NC, 27607
T. 919-415-2299 | M. 919-741-0870 | F. 919.854.5448
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Appendix **B**

Well Abandonment Photographs

Appendix B – Monitoring Well Abandonment Photographs

Revision Date: November 2013 Incident: #24265 Facility Name: Former ExxonMobil Facility #99GNC

Photograph 1: Potable well at 2710 Pindals Road prior to abandonment

Photograph 2: Potable well at 2710 Pindals Road during abandonment

Photograph 3: Potable well at 2710 Pindals Road after abandonment

Photograph 4: Typical monitoring well prior to abandonment

Appendix B – Monitoring Well Abandonment Photographs

Revision Date: November 2013 Incident: #24265 Facility Name: Former ExxonMobil Facility #99GNC

Photograph 5: Typical monitoring well during abandonment

Photograph 6: Typical monitoring well during abandonment

Appendix B – Monitoring Well Abandonment Photographs

Revision Date: November 2013 Incident: #24265 Facility Name: Former ExxonMobil Facility #99GNC

Photograph 7: Typical remediation system well prior to abandonment

Photograph 8: Typical remediation system well during abandonment

Photograph 9: Typical remediation system well after abandonment

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Appendix **C**

Well Abandonment Records

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☑Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.145909 N 79.743349 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MW-1

6b. Total well depth: 40.0 (ft.)

6c. Borehole diameter: 2.0 (in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☑ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

4 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

10/29/13

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☑Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.145961 N 79.743286 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MW-2

6b. Total well depth: 34.5 (ft.)

6c. Borehole diameter: 2.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☑ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

3-1/2 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

10/28/13

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☑Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5012 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.145664 N 79.742874 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MW-3

6b. Total well depth: 44.0 (ft.)

6c. Borehole diameter: 2.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☑ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

4-1/2 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

10/29/13

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☑Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5005 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.145503 N 79.743652 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MW-4

6b. Total well depth: 40.1 (ft.)

6c. Borehole diameter: 2.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☑ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

4 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

10/29/13

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☑Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.146087 N 79.743593 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MW-5

6b. Total well depth: 40.0 (ft.)

6c. Borehole diameter: 2.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☑ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

4 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

10/24/13

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☑Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.146365 N 79.742781 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MW-6

6b. Total well depth: 44.6 (ft.)

6c. Borehole diameter: 2.0 (in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☑ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

4-1/2 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

10/29/13

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☑Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.145921 N 79.743361 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MW-7

6b. Total well depth: 37.2 (ft.)

6c. Borehole diameter: 4.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☑ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

3-1/2 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

10/29/13

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☑Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.145835 N 79.743472 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MW-8

6b. Total well depth: 31.5 (ft.)

6c. Borehole diameter: 4.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☑ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

3 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

10/29/13

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☑Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.146000 N 79.743248 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MW-9

6b. Total well depth: 36.4 (ft.)

6c. Borehole diameter: 4.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☑ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

3-1/2 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

10/29/13

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☑Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees: (if well field, one lat/long is sufficient)

36.145870 N 79.743589 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MW-10

6b. Total well depth: 34.9 (ft.)

6c. Borehole diameter: 2.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☑ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

3-1/2 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

10/29/13

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☑Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.146122 N 79.743330 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MW-11

6b. Total well depth: 36.65 (ft.)

6c. Borehole diameter: 2.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☑ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

3-1/2 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

10/29/13

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☑Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.145824 N 79.743532 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: AS-1

6b. Total well depth: 49.0 (ft.)

6c. Borehole diameter: 2.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☑ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

5 bags

7g. Provide a brief description of the abandonment procedure:

Air sparge well

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

10/29/13

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☑Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.145901 N 79.743422 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: AS-2

6b. Total well depth: 70.0 (ft.)

6c. Borehole diameter: 2.0 (in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☑ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

7 bags

7g. Provide a brief description of the abandonment procedure:

Air sparge well

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

10/29/13

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☑Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees: (if well field, one lat/long is sufficient)

36.146008 N 79.743263 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: AS-3

6b. Total well depth: 49.4 (ft.)

6c. Borehole diameter: 2.0 (in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☑ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

5 bags

7g. Provide a brief description of the abandonment procedure:

Air sparge well

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

10/22/13

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☑Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

2710 Pindals Road, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.145992 N 79.741523 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: SW-4

6b. Total well depth: 67.0 (ft.)

6c. Borehole diameter: 4.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): 48.0 (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: Chlorine tablets

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☑ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

6-1/2 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

10/29/13

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

R E P O R T

PRELIMINARY SITE ASSESSMENT
MABEL L. CHILTON PROPERTY
GUILFORD COUNTY,
NORTH CAROLINA

STATE PROJECT: 6.498003T
(TIP: U-2525B)

Prepared for
North Carolina Department of Transportation
Century Center
1020 Birch Ridge Drive
P.O. Box 25201
Raleigh, NC 27611-5201
Tel. (919) 250-4088

April 6, 2001

URS Corporation – Maryland
3109 Poplarwood Court, Suite 301
Raleigh, North Carolina 27604-1043
Job D6-00055146.04-00001
Tel. (919) 850-9511
Fax. (919) 790-0217

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1.1 PROJECT INTRODUCTION AND ORGANIZATION

This report documents a Preliminary Site Assessment (PSA) for the NCDOT Parcel 948 performed by URS Corporation – Maryland (URS) on behalf of the North Carolina Department of Transportation (NCDOT). The subject site of this PSA report is 5009 Summit Avenue, the west side of SR 2525 Guilford County, North Carolina. The NCDOT Parcel is currently the property of Mabel L. Chilton (see Figure 1). The PSA was performed in general accordance with: NCDOT's January 25, 2001 *Request for Technical and Cost Proposal for Preliminary Site Assessment, Parcel 948 – Mabel L. Chilton Property (Former L.R. Chilton Grocery)*; and URS's February 2, 2001 *Technical and Cost Proposal for Preliminary Site Assessment, Greensboro Eastern Loop, from US 70 Relocation to US 29 North of Greensboro; Parcel 948 – Mabel L. Chilton Property (Former L.R. Chilton Grocery)* (the Proposal). URS received a letter dated February 5, 2001 from NCDOT providing Notice To Proceed and establishing a due date no later than April 5, 2001 for the final PSA report.

The project included determination of UST content constituents, soil sampling using a Geoprobe rig, groundwater sampling for suspected contamination, and laboratory analyses of selected soil samples. The five UST's were located by the NCDOT. Soil borings were conducted on February 8th and 9th, 2001 under the supervision of URS personnel by URS's subcontractor, Probe Technology, Inc. of Concord, North Carolina. Analysis of soil samples were performed by Prism Laboratories, Inc. (Prism) of Charlotte, North Carolina under direct contract with NCDOT. URS's project manager, Lee Rhea, communicated any unforeseen conditions and project milestones to NCDOT via telephone and email during execution of the work scope.

1.2 PROJECT BACKGROUND

The location of the property is shown in Figure 1. The structure located on the subject property on the west side of State Route 2525, with the address 5009 Summit Avenue, is an abandoned gas station and grocery store. The business opened in the 1930's and the gas station operated until the early 1960's. There are five suspected UST's at the site, none of which are registered with the North Carolina Department of Environment and Natural Resources (NCDENR) Division of Water Quality (DWQ). The structure seems to be in good condition, but according to the property owner has not been used in 15 years. Based on discussions with a neighbor, it was discovered that there is a water well on the property located north of the building, although URS was unable to locate it. The pump island is approximately 24 feet, or 7.32 meters (m), from the centerline of SR 2525.

The property is 0.15 miles (241 m) north of the Greensboro City Limits. There are several neighborhoods surrounding the property. Most of the surrounding houses use drinking water wells and are not supplied by city water, according to the neighbors. The area directly west of the property is a wooded area with no houses. The lot across to the east, across Summit Avenue, is also a wooded lot. There is a Texaco Gas Station 0.3 miles (483 m) north of the property on Summit Avenue.

2.1 TANK SAMPLING

NCDOT performed a Ground Penetrating Radar (GPR) survey to determine the approximate sizes of the five suspected UST's. Based on the GPR survey results, tanks #4 and #5 each have an approximate diameter of three feet and Tanks #2 and #3 each have an approximate diameter of four feet. The size of Tank #1 could not be determined.

URS made an attempt to collect samples from each of the UST's. However, URS located only three vents, and only those for Tanks #2 and #3 were reasonably accessible (see Figure 3). These tanks were sampled using disposable bailers. It was discovered that Tank #3 was completely empty, and Tank #2 contained approximately two inches of water with a trace of product.

2.2 SOIL SAMPLING RATIONALE AND PROCEDURES

URS conducted environmental screening sampling in targeted areas within the property to identify whether the subsurface had been impacted by potential contaminants. Initial sampling locations were selected based on existing information provided by the NCDOT and the locations of the UST's. Additional borings were conducted to delineate the extent of impact where evidence of significant petroleum impacts was encountered.

Soil samples were collected and logged continuously at each boring. Soil sample aliquots were divided into approximately 2-foot (0.610 m) increments for field screening with a photo-ionization detection (PID) and flame ionization detection (FID) instrument. However, due to difficulties with the FID as described below, it was not used for screening all borings. Groundwater was encountered in two of the borings, but the subsurface material was too impermeable to collect a representative groundwater sample. Completed borings were back-filled with bentonite pellets.

The soil field-screening instrument selected for this project was a Foxboro TVA with both flame-ionization detection (FID) and photo-ionization detection (PID) capabilities. However, the FID portion of the unit malfunctioned, and was completely unusable for three out of the fourteen borings completed. Therefore, borings GP-7, GP-13, and GP-14 were screened using only the PID.

Samples were collected for laboratory analysis in borings where headspace field screening analysis indicated possible impact. If impact was indicated at more than one depth, vertical delineation samples were collected from the zone with the highest headspace detection, the lowest headspace detection, and in most cases from the bottom of the boring. Each sample was analyzed for TPH Diesel Range Organics (DRO) (EPA Method 8015 mod./3550), TPH Gasoline Range Organics (GRO) (EPA Method 8015 mod./5030), and oil and grease (EPA Method 9071).

2.2.1 Quality Control/Quality Assurance Procedures

2.2.1.1 Sample Documentation and Labeling

The purpose of sample management is to create a "cradle to grave", legally defensible, traceable and documented chain-of-custody (COC) for samples from the time of collection in the field through shipment, receipt by the laboratory, and final receipt of analytical data by URS. A copy of the COC forms for samples submitted for off-site commercial laboratory analyses has been maintained by the laboratory as part of the data package, and by URS in the project files.

In the field, data was collected on standard boring logs as well as in a logbook maintained by the URS field representative. All pertinent field data collection activities and observations were recorded on either of these two media. In addition, field sketches have been made in the field logbooks when appropriate, with reference points tied to existing structures in the area (i.e. buildings). The field logbook and supporting boring log forms are identified by a project-specific number, client, and location, and are stored in the field project files when not in use.

2.2.1.2 Sample Identification and Labeling

Each sample collected was assigned a unique sample identification number and placed in the appropriate sample container. The sample numbering system provides a tracking number to allow retrieval and cross-referencing of sample information. Each sample container had a pre-printed sample label affixed to the outside with the site name, type of sample the sample identification number, and chemical preservatives added, if any. All documentation was completed in waterproof ink.

2.2.1.3 Sample Containers

URS collected samples for off-site commercial laboratory analyses in containers appropriate for the matrix being sampled and the parameters being analyzed. URS acquired commercially cleaned (to Unites States Environmental Protection Agency standards) sample containers from the analytical laboratory.

2.2.1.4 Sample Preservation and Holding Times

Sample preservation efforts commenced at the time of sample collection and continued until analyses were performed. Samples collected for laboratory analyses were stored on ice in insulated coolers immediately following collection. Where appropriate, sample preservatives were included in sample containers supplied by the laboratory.

2.2.1.5 Chain of Custody Protocol

URS has established a program of sample COC that was followed during sample handling activities in both field and laboratory operations. The primary purpose of COC procedures is to document the possession of the samples from collection through shipping, storage, analysis, data reporting, and disposal. The Project Manager or his/her designee has been responsible for monitoring compliance with COC procedures.

During field sampling activities, traceability of the sample was maintained from the time the samples were collected until laboratory data were issued. Initial information concerning collection of the samples was recorded in the field logbook. Information on the custody, transfer, handling, and shipping of all samples was recorded on a COC form.

The sampler was responsible for filling out the COC form initiated by the laboratory. The field team members were responsible for the care and custody of the samples collected until the samples were received at the laboratory. When transferring custody of the samples, the individual who relinquished custody of the samples had verified sample numbers and condition and would document the sample acquisition and transfer by signing, with date and time, the COC. Each cooler was hand delivered to the laboratory accompanied by a COC form.

2.2.2 Management of Investigation Derived Waste

Minimal investigative waste is generated when the Geoprobe direct push methodology is used. Soil from the Geoprobe borings that was not used as sample material was spread on the ground surface after field screening results in accordance with the Proposal. No containerized waste was generated during this investigation.

3.1 REGIONAL CONDITIONS

According to the United States Department of Agriculture Soil Conservation Service's December 1977 *Soil Survey of Guilford County, North Carolina*, overburden soils in the Site vicinity are classified as within the Enon-Mecklenburg (EoB2) and Cecil-Madison (CeB2) associations. Both of these soil associations are described as gently sloping and sloping, well-drained surficial soils with a loamy or clayey subsoil.

The Enon soils have a three inch thick surface layer of dark grayish brown fine sandy loam. The subsurface soil is about five inches thick and consists of yellowish brown fine sandy loam. The underlying subsoil is 25 inches thick, with the upper part consisting of a light olive brown sandy clay loam, and the lower part a yellowish brown clay. The underlying material, to a depth of 75 inches, is mottled brownish yellow, black, and dark greenish gray loam. Enon soils are described as being well drained.

The Mecklenburg soils are described as having a surface layer three inches thick that is a dark, grayish brown fine sandy loam. The subsoil is 31 inches thick and is composed of an upper mottled yellowish red and red clay and a lower yellowish red clay loam. The underlying material, to a depth of 70 inches, is mottled red and brownish yellow silty clay loam. Mecklenburg soils are also well drained.

The Cecil soils have a six inch thick brown sandy loam surface layer. The subsoil is 46 inches thick, with the upper part consisting of a yellowish red sandy clay loam, the middle part a red clay, and the lower part a mottled red clay loam. The underlying material to a depth of 85 inches is mottled red and yellow loam. Cecil soils are well drained.

The Madison soils are composed of a surface layer that is reddish brown sandy loam about five inches thick. The subsoil is 29 inches thick, with the upper part consisting of red clay and the lower part of mottled red clay loam. The underlying material, to a depth of 80 inches, is mottled reddish yellow sandy clay loam in the upper part and mottled reddish yellow sandy loam in the lower part. Madison soils are also well drained.

According to the North Carolina Geological Survey's 1985 *Geologic Map of North Carolina*, the site region is located within the Carolina Slate Belt. Bedrock in this region consists predominantly of well foliated, megacrystic, metamorphosed granite rock that locally contains horneblende (late Proterozoic to late Cambrian).

3.2 SITE CONDITIONS

Boring logs for the PSA Geoprobe explorations are provided in Appendix B. Borings GP-1 through GP-14 were performed at the NCDOT Parcel 948, 5009 Summit Avenue. Geoprobe borings were conducted at locations surrounding the UST's and at or near the property boundaries. The number of sampling locations was based on NCDOT's request to screen this area and does not necessarily reflect NCDEHR guidelines for UST investigations. Figure 3 shows the boring locations at this property. Boring depths ranged from 16 to 39 feet (4.88 to

11.9 m). Groundwater was detected in GP-1 and GP-3 at approximately 31.5 feet (9.61 m), but URS determined there was not enough water present to collect a groundwater sample.

The primary soil in the area was a clayey silt to silt with clayey saprolite. Resistance increased with depth in the saprolite, reaching effective refusal at depths from 23.5 to 39 feet (7.17 to 11.9 m) below the ground surface.

Geoprobe borings were first conducted south of the pump island, in the area of Tanks #2, #4, and #5. Initially, six borings designated GP-6 through GP-11 were selected to delineate the impacted area. Native soil (saprolite) was encountered in each boring. There was little resistance in the first 4-foot increment of GP-6, where an apparent void was encountered. The Geoprobe then encountered increasing resistance with depth and finally encountered refusal at 39 feet (11.9 m) below the ground surface (BGS). Borings GP-7 through GP-11 all hit refusal between 29.5 to 35 feet (9.00 to 10.68 m) BGS. Elevated headspace readings occurred during the field screening and strong petroleum odors were noted for each boring. Three soil samples were collected from GP-6, one from GP-7, two from GP-8, two from GP-9, three from GP-10, and one from GP-11.

GP-12 was placed approximately 30 feet (9.15 m) south of GP-10. Based on field screening results, the soil at this location also appeared to be impacted. Three soil samples were collected from GP-12. GP-14 was placed approximately 10 feet (3.05 m) west and 8 feet (2.44 m) south of the porch attached to the south end of the structure. GP-14 was advanced to 28 feet (8.54 m) BGS, but no samples were taken because no odors or elevated headspace results were detected.

Five borings were placed around Tanks #1 and #3. No obvious location for a former excavation was evident. In this area, groundwater was detected at GP-1 and GP-3 at approximately 31.5 feet (9.61 m) BGS. The Geoprobe encountered refusal at 31.5 feet (9.61 m) BGS at GP-4 and at 29 feet (8.85 m) BGS at GP-5, with no indications of the groundwater table. GP-1 was placed approximately 2 feet (0.610 m) north of Tank #1 and 6.25 feet (1.91 m) east of the building. GP-3 was located north of Tank #3 and east of Tank #1. GP-4 was placed approximately 8 feet (2.44 m) east of the former pump island. GP-5 was located adjacent to the former pump island. Petroleum odors were noted and elevated headspace reading occurred in all four boring locations. Two samples were collected from GP-1, two from GP-3, one from GP-4, and three from GP-5. GP-2 was placed approximately 2 feet (0.610 m) east of the building, south of Tank #1. GP-2 was advanced to 16 feet (4.88 m) BGS and no odors or signs of impacted soil were detected; therefore the boring was stopped. Upon further screening, the PID/FID detected elevated headspace readings, and two samples were taken from GP-2.

GP-13 was placed 36 feet (11.0 m) north of the former pump island, near the north edge of the property boundary. GP-13 was advanced to 30 feet (9.15 m) BGS into the saprolite. Because GP-13 yielded significantly lower field screening results in comparison to other borings, only one sample was collected.

All samples collected from the facility were sent to the contract laboratory and the analytical results are documented in Table 1 of this report. The complete laboratory report is included in Appendix C.

Fourteen borings were completed and 27 samples were collected at the Mabel L. Chilton Property. Out of the 27 samples collected, 23 exceeded the NCDENR Groundwater Section "Action Level" or TPH clean-up standard[1]. Borings GP-5, GP-7 and GP-9 were among the highest reported results from the soil samples, indicating they were nearest to the source area. At the northern portion of the property, GP-13 did detect minor amounts of TPH, but not above the reportable quantity. This appears to be the extent of the impacted soil on the north side of the property. GP-12 had two sample depths, at 8 and 23.5 feet (2.44 and 7.16 m), that reported below the reportable quantities for TPH, and a third from a depth of 14 feet (4.27 m) reported above the Action Level for Oil and Grease. This indicates the impacted soil is nearing the edge of extent. See Figure 3 for the suspected dimensions of the plume.

4.1 CALCULATION OF IMPACTED SOIL

Borings GP-12, GP-13, and GP-14 were placed at the south, north, and southwest edges of the property boundary. GP-12, at the south edge, and GP-13, at the north edge, were both slightly impacted. This is most likely an indication of the north and south horizontal extent of impact. GP-14, at the southwest corner, does not appear to have any impact from the contaminated source area. No borings were placed inside the footprint of the structure or in the empty wooded lot across Summit Avenue, therefore the east and west horizontal delineation has not been determined. Based upon the available field screening and laboratory analysis, however, URS estimates there are approximately 3,212 tons of impacted beneath the Mabel L. Chilton Property (see Appendix D). Actual tonnage may vary due to uncertainty of the extent of impact to soil beneath the structure and Summit Avenue.

4.2 WELL SURVEY

Due to the likelihood of soil contamination on-site, URS conducted a well survey within a 1,500-foot (457 m) radius of the site (see Figure 4). The Mabel L. Chilton Property is approximately 0.15 mile (241 m) north the Greensboro City Limit. The property is bordered by wooded areas to the west, northwest and southwest. The property is mainly surrounded by residential neighborhoods. There are rows of houses north and south of the property. Across Summit Avenue to the northeast, Pindals Road has about a dozen houses on the south side of the dead end street and is wooded on the north side of the street. From discussions with the neighbors, most of the surrounding houses have drinking water wells. It was not determined if the neighborhoods south of the Greensboro City Limit are connected to city water or have drinking water wells. There is a Texaco Gas Station near the intersection of Hicone Road and Summit Avenue and a BBQ Restaurant on the corner of Pineneedle Drive and Summit Avenue.

[1] NCDENR Division of Water Quality, Groundwater Section. October 4, 1999 Memorandum to Environmental Service Companies, Consultants, and other interested parties, entitled: Revised Policy for Soil Analytical Methods.

PSA field observations and laboratory analytical results of soil samples indicate significant petroleum hydrocarbon contamination exists in on-site soils. Based on the available data for soils and the inferred groundwater flow direction in the area, it is possible that petroleum hydrocarbon contamination could exist in groundwater, and could have migrated south and east of the property.

Petroleum hydrocarbons in the soil have apparently migrated down to the water table and have likely contaminated groundwater. URS estimates the volume of impacted soils on-site to be approximately 3,212 tons (Appendix D). This estimation does not include any possible off-site contamination.

Tables

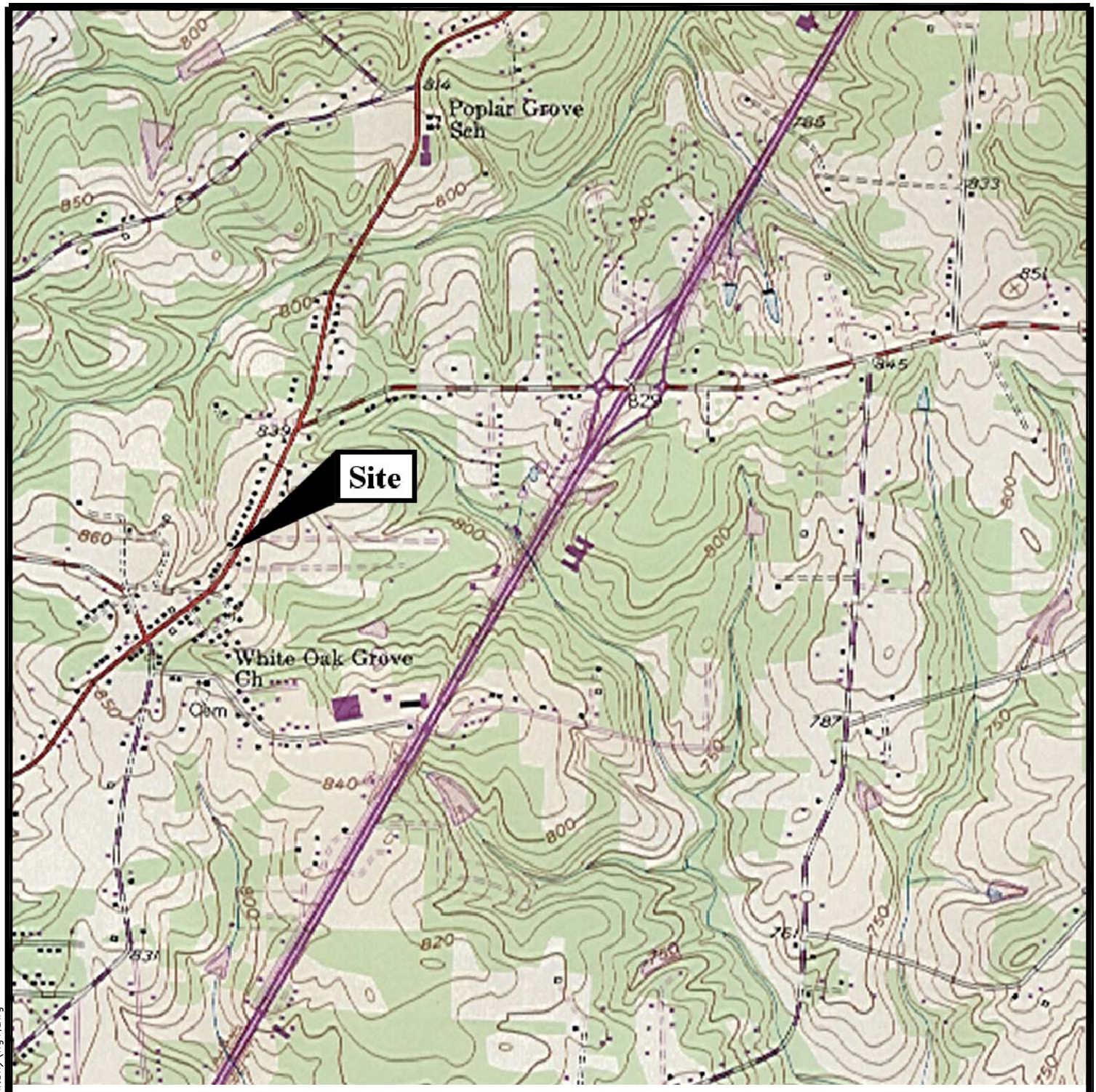
TABLE 1
SOIL LABORATORY ANALYTICAL RESULTS
NCDOT PARCEL 948 - MABEL L. CHILTON PROPERTY
GUILFORD COUNTY, NORTH CAROLINA
NCDOT PROJECT 8.1690303
(TIP: R-2616 AA)

	UNITS	Petroleum Hydrocarbons		
Analysis		**GRO**	**DRO**	**Oil and Grease**
STANDARDS				
Reportable Quantity	mg/kg	10	10	250
TPH Action Level	mg/kg	10	40	250
Soil-To-Groundwater	mg/kg	NE	NE	NE
Remediation Goal	mg/kg	NE	NE	NE
ANALYTICAL RESULTS				
GP-1-4	mg/kg	<1.0	<10	**320**
GP-1-16	mg/kg	<1.0	<10	**260**
GP-1-31	mg/kg	**14**	<10	**320**
GP-2-4	mg/kg	<1.0	<10	**380**
GP-2-14	mg/kg	<1.0	<10	**450**
GP-3-4	mg/kg	**90**	**120**	**280**
GP-3-28	mg/kg	**210**	<10	210
GP-4-30	mg/kg	**420**	<10	**330**
GP-5-8	mg/kg	**61**	<10	**450**
GP-5-16	mg/kg	**6000**	**64**	**520**
GP-5-29	mg/kg	**2500**	35	**360**
GP-6-4	mg/kg	<1.0	<10	**320**
GP-6-20	mg/kg	4.4	<10	**220**
GP-6-39	mg/kg	**1200**	<10	**260**
GP-7-20	mg/kg	**20000**	**220**	**330**
GP-8-2	mg/kg	<1.0	<10	170
GP-8-31.5	mg/kg	**42**	34	**330**
GP-9-4	mg/kg	<1.0	<10	**260**
GP-9-28	mg/kg	**2500**	**81**	**280**
GP-10-8	mg/kg	**17**	27	**410**
GP-10-18	mg/kg	**22**	**350**	**1300**
GP-10-32	mg/kg	**230**	15	**350**
GP-11-28	mg/kg	**780**	<10	**440**
GP-12-8	mg/kg	<1.0	<10	120
GP-12-14	mg/kg	1.2	<10	**730**
GP-12-23.5	mg/kg	2.5	<10	130
GP-13-20	mg/kg	7.2	<10	150

NOTES:

1. Soil samples were collected by Probe Technology of Concord, NC under the supervision of URS on 2-9-01 and submitted by URS under chain-of-custody protocols to Prism Laboratories, Inc. of Charlotte, NC for analyses.
2. Results for selected analytes are shown; see Appendix B for a full listing of results.
3. "<" denotes a non-detection (the detection limit follows).
4. "()" denotes an aqueous concentration.
5. STANDARDS are taken from guidance provided by the North Carolina Department of Environment and Natural Resources (NCDENR), including the Oct. 4, 1999 Division of Water Quality, Groundwater Section memorandum to environmental service companies, consultants and other interested parties entitled: Revised Policy for Soil Analytical Methods; the Jan. 2, 1998 Guidelines for the Investigation and Remediation of Soil and Groundwater, Volume II; and the NCDENR Division of Waste Management, Superfund Section, Inactive Hazardous Sites Branch Aug. 1996 Guidelines for Assessment and Cleanup
6. "NE" - Not established

Figures



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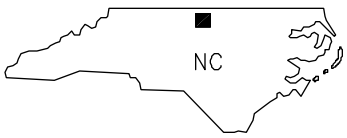


QUADRANGLE LOCATION

URS
URS Corporation

CLIENT: NCDOT
LOCATION: Guilford County, NC

PROJECT No. D6-00055146.05
DATE: MARCH 29, 2001
CHK'D. LKR

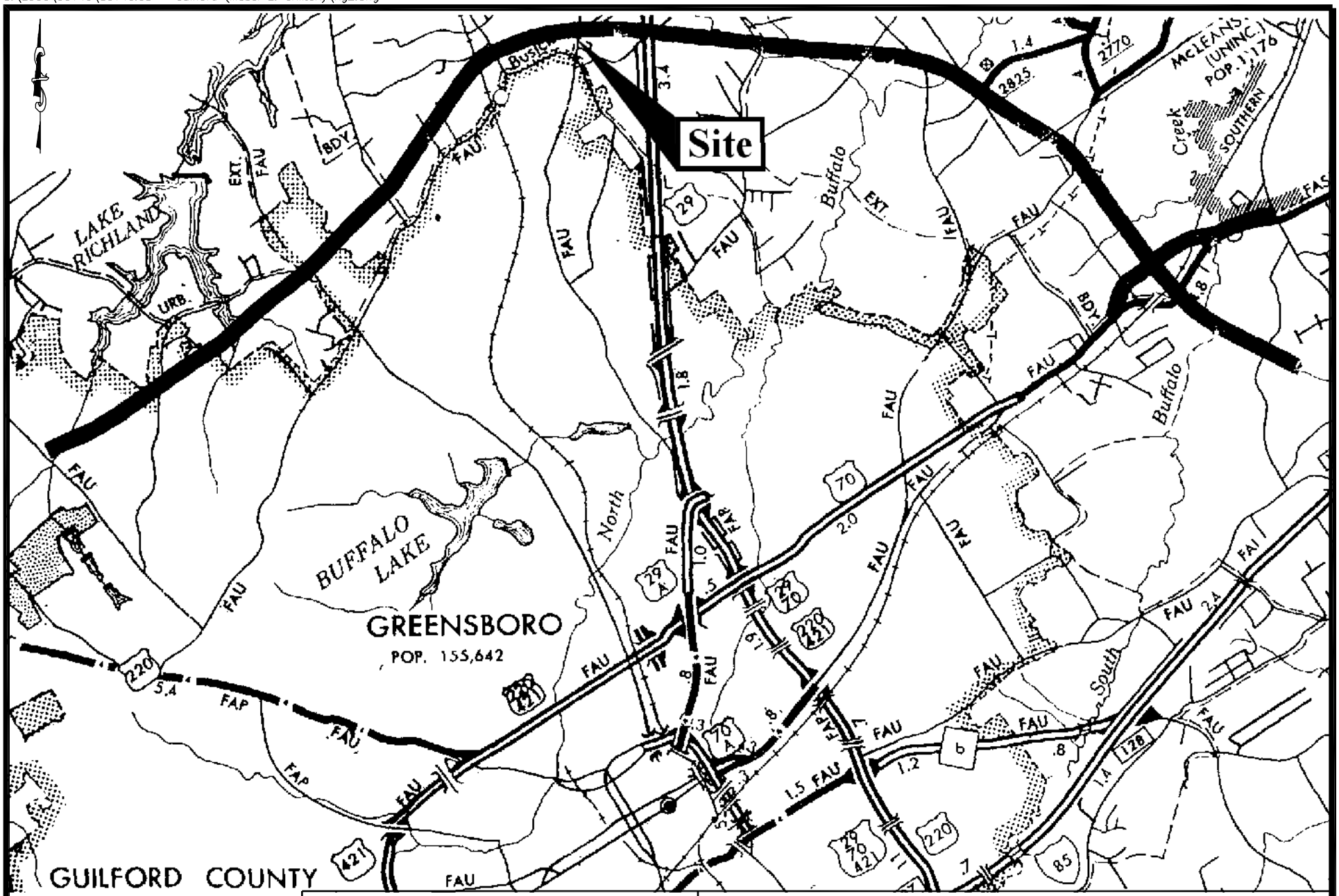
SCALE: 1" = 1000'

SITE LOCATION MAP

FIGURE: 1

S:\2000\55148\55146.05 - Guilford (Mabel L. Chilton)\fig1.dwg

S:\2000\55146\55146.05 – Guilford (Mabel L. Chilton)\fig2.dwg



URS

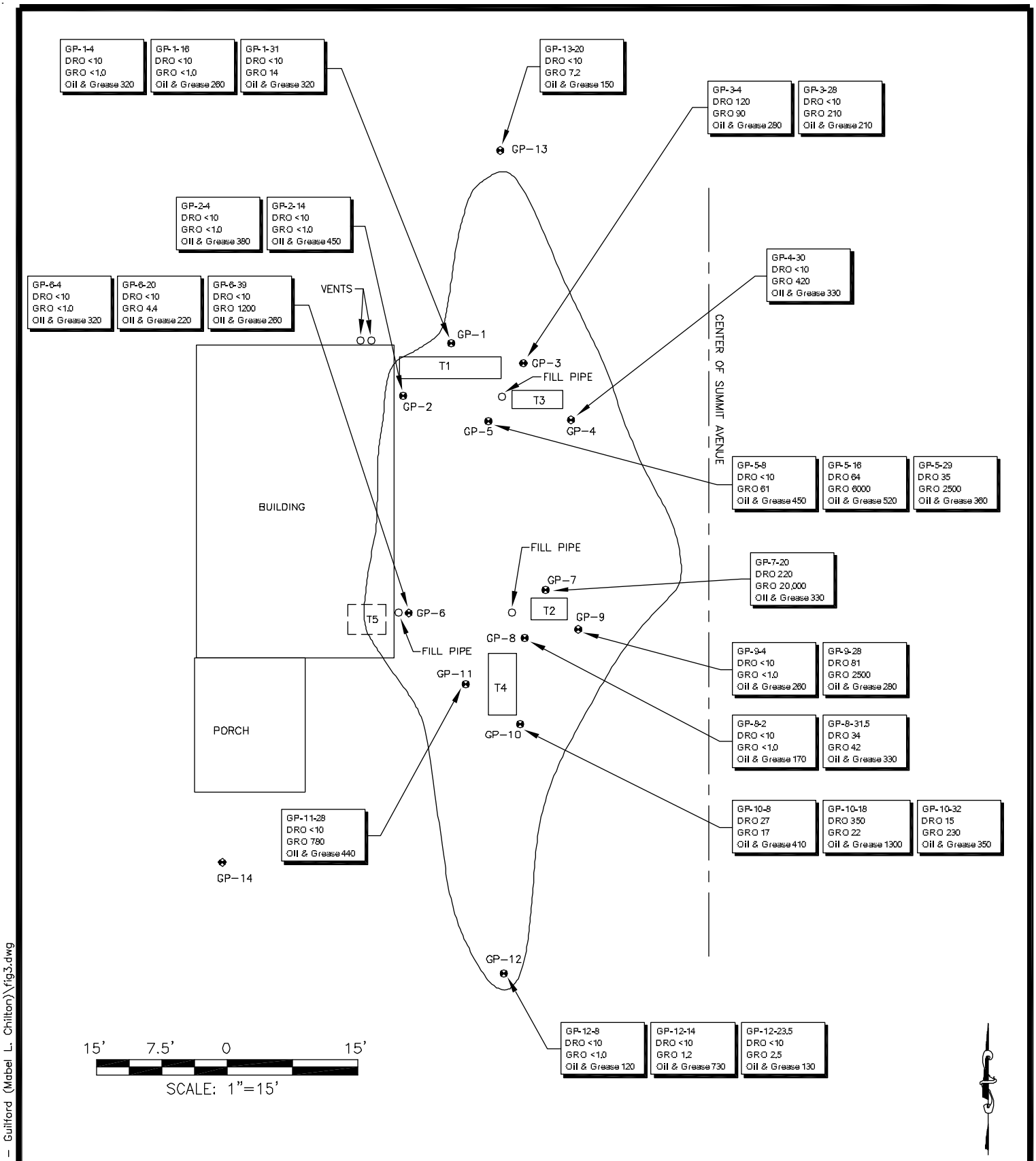
URS Corporation

PROJECT No. D6–00055146.05	DATE: MARCH 29, 2001 CHK'D. LKR
SCALE: N.T.S.	

CLIENT: NCDOT
LOCATION: Guilford County, NC

GREENSBORO EASTERN LOOP

FIGURE: 2



URS Corporation

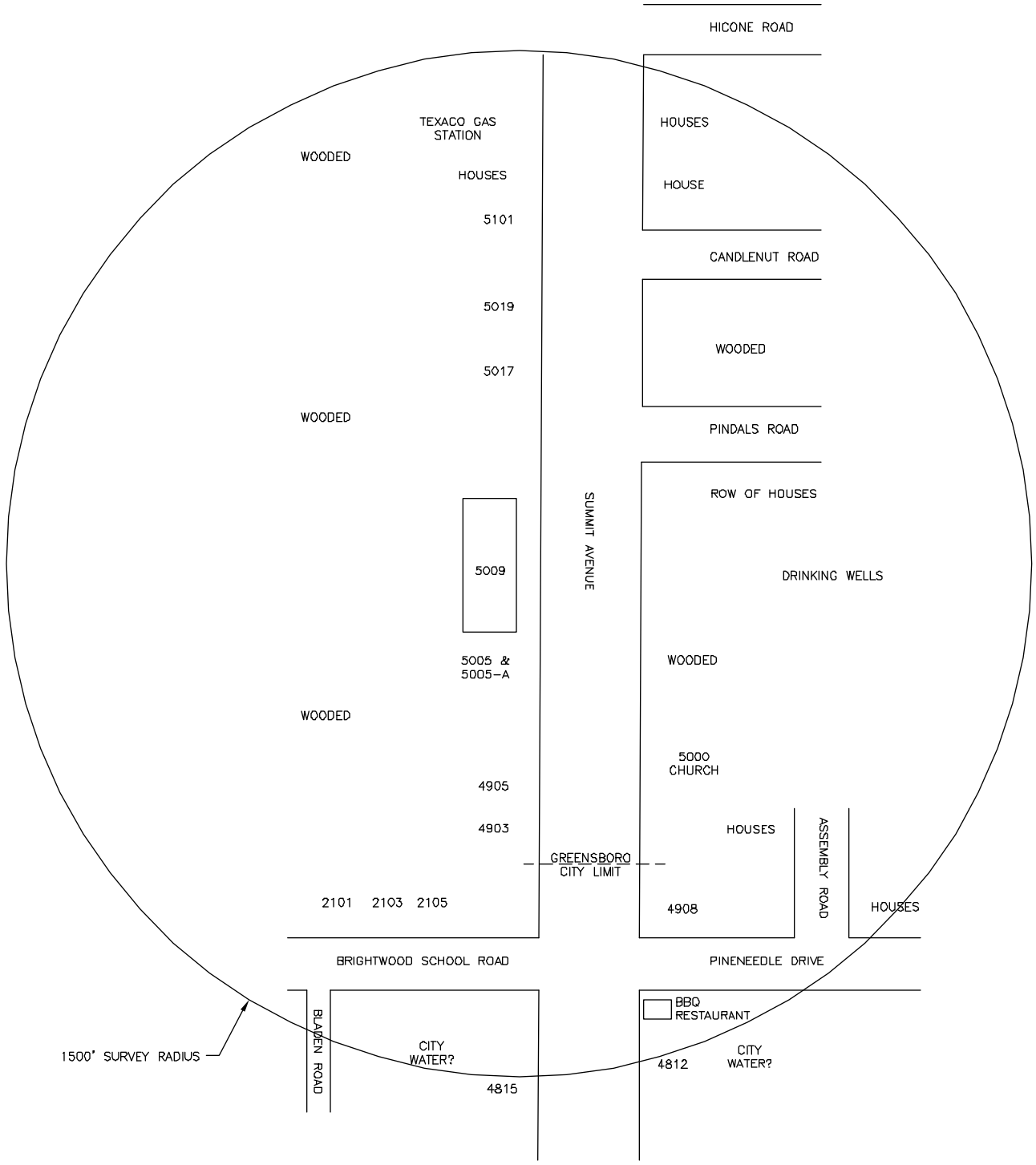
PROJECT No. D6-00055146.05	DATE: MARCH 29, 2001 CHK'D. LKR
SCALE: AS SHOWN	

CLIENT: NCDOT
LOCATION: Guilford County, NC

EXTENT OF INVESTIGATION
SOIL BORING LOCATIONS

FIGURE: 3

S:\2000\55146\55146.05 - Guilford (Mabel L. Chilton)\fig3.dwg



URS Corporation

CLIENT: NCDOT
LOCATION: Guilford County, NC

PROJECT No. D6-00055146.05
DATE: MARCH 29, 2001
CHK'D. LKR
SCALE: N.T.S.

1,500' RADIUS WELL SURVEY

FIGURE: 4

S:\2000\55146\55146.05 - Guilford (Mabel L. Chilton)\fig4.dwg

Appendix A
Photo Documentation

Appendix B
Boring Logs

Locations	Distance
GP-1	2 ft north of T1, 6.25 ft east of building
GP-2	2 ft south of T1, 1.5 ft east of building
GP-3	3 ft north of T3, 14.5 ft east of building
GP-4	2 ft south of T3, 19.5 ft east of building
GP-5	5 ft south of T1, 12 ft east of building
GP-6	2 ft east of T5 fillport
GP-7	2 ft north of T2, 18 ft east of building
GP-8	3.5 ft south of T2, 16.5 ft east of building
GP-9	2 ft east-southeast of T2, 22 ft east of building
GP-10	17 ft south of pump island, 2 ft southeast of T4
GP-11	11.5 ft south of pump island, 10.5 ft east of building
GP-12	30 ft south of T4
GP-13	36 ft north of pump island
GP-14	From porch on southend of building, 8 ft south, 10 ft west

APPENDIX C
BORING LOCATION DATA
GUILFORD COUNTY, NORTH CAROLINA
NCDOT PROJECT
(TIP: U-2525B)

DEPTH	PEN.	REC.	DESCRIPTION	PID Max	FID Max	Sample ID
BORING GP-1						
0 to 1	3.8	2.8	6" of gravel and topsoil.			
1 to 2						
2 to 3			Dry, red clayey SILT, with some saprolite.			
3 to 4				76	440	GP-1-4
4 to 5	3.8	3.6	Same			
5 to 6				47	135	
6 to 7						
7 to 8				61	228	No Odor
8 to 9	3.8	3.1	Same			
9 to 10				120	680	
10 to 11						
11 to 12				80	400	No Odor
12 to 13	3.8	3.6	Same			
13 to 14				133	760	
14 to 15			Slightly moist, red clayey SILT, with saprolite.			Trace Odors
15 to 16				68	82	GP-1-16
16 to 17	3.8	3.6	Same			
17 to 18				90	400	
18 to 19			Same			
19 to 20				160	720	Odor
20 to 21	3.8	3.2	Dry, tan and white saprolite.			
21 to 22				123	724	
22 to 23			Same			
23 to 24				98	530	Odor
24 to 25	3.8	3.3	Dry, tan, brown and white saprolite.			
25 to 26				95	280	
26 to 27			Same, becoming slightly moist.			
27 to 28				108	622	Odor
28 to 29	3.3	3.3				
29 to 30			Same	120	740	Odor
30 to 31						
31 to 32			**Groundwater @ 31.5' End of Boring**	350	2400	Odor

NOTES:

1. Geoprobe explorations were completed on 2/9/01 by Mike Tynan (Probe Technology, Inc. of Concord, NC) using a Geoprobe rig under the supervision of Corlista Urtz (URS). Sampling was performed using an acetate-lined four-foot long steel sampler.
2. Field Photo Ionization Detector (PID) and Flame Ionization Detector (FID) screening was performed using a Foxboro Total Vapor Analyzer (TVA).
3. All penetration, recovery, and depth measurements are expressed in units of feet; PID and FID measurements are expressed as parts per million relative to isobutylene and methane standards.
4. Groundwater was encountered at 31.5'. Boring backfilled with granular bentonite.
5. ND indicates No Detection.

APPENDIX C
BORING LOCATION DATA
GUILFORD COUNTY, NORTH CAROLINA
NCDOT PROJECT
(TIP: U-2525B)

DEPTH	PEN.	REC.	DESCRIPTION	PID Max	FID Max	Sample ID
BORING GP-2						
0 to 1	3.8	1.0	6" gravel and topsoil			
1 to 2						
2 to 3			Slightly moist, red clayey SILT.			No Odor
3 to 4						GP-2-4
4 to 5	3.8	3.8	Slightly moist, red clayey SILT, with saprolite.			
5 to 6				200	>900	
6 to 7						
7 to 8				24	35	No Odor
8 to 9	3.8	3.2	Same			
9 to 10				20	22	
10 to 11						
11 to 12				20	101	No Odor
12 to 13	3.8	3.8	Same			
13 to 14				53	210	GP-2-14
14 to 15						
15 to 16			**End of Boring**	69	283	No Odor

NOTES:

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2. Field Photo Ionization Detector (PID) and Flame Ionization Detector (FID) screening was performed using a Foxboro Total Vapor Analyzer (TVA).
3. All penetration, recovery, and depth measurements are expressed in units of feet; PID and FID measurements are expressed as parts per million relative to isobutylene and methane standards.
4. No groundwater was encountered. Boring backfilled with granular bentonite.
5. ND indicates No Detection.

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BORING LOCATION DATA
GUILFORD COUNTY, NORTH CAROLINA
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(TIP: U-2525B)

DEPTH	PEN.	REC.	DESCRIPTION	PID Max	FID Max	Sample ID
BORING GP-3						
0 to 1	3.8	3.2	6" gravel and topsoil			
1 to 2			Dry, red clayey SILT, with saprolite.			
2 to 3						Trace Odors
3 to 4				32	8	GP-3-4
4 to 5	3.8	3.5	Same			
5 to 6				52	203	
6 to 7						
7 to 8			Dry, tan and white clayeye SILT, with saprolite.	145	1200	Odors
8 to 9	3.8	3.8	Same			
9 to 10				175	806	
10 to 11						
11 to 12				180	844	Odors
12 to 13	3.8	3.8	Same			
13 to 14				125	632	
14 to 15						
15 to 16				110	450	Odors
16 to 17	3.8	3.7	Same			
17 to 18				102	366	
18 to 19						
19 to 20				32	135	Odors
20 to 21	3.8	3.5	Same			
21 to 22				72	133	
22 to 23						
23 to 24				58	112	Odors
24 to 25	3.8	3.5	Same			
25 to 26				42	98	
26 to 27						Odors
27 to 28				49	105	GP-3-28
28 to 29	3.3	3.3	Same			
29 to 30						
30 to 31			Slightly moist, white saprolite.	54	110	Odors
31 to 32			**Groundwater @ 31.5' End of Boring**			

NOTES:

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DEPTH	PEN.	REC.	DESCRIPTION	PID Max	FID Max	Sample ID
BORING GP-4						
0 to 1	3.8	3.8	6" gravel and topsoil			
1 to 2			Dry, red-tan clayey SILT.	40	210	
2 to 3						
3 to 4			Dry, red-brown, clayey SILT, with saprolite.	9	8	No Odor
4 to 5	3.8	3.8				
5 to 6			Dry, light red and white, clayey SILT, with saprolite.	17	28	
6 to 7						
7 to 8			Dry, tan, some sand, clayey SILT, with saprolite.	140	550	Trace Odors
8 to 9	3.8	3.8	Same			
9 to 10				30	55	
10 to 11						
11 to 12			Dry, red, tan and white, clayey SILT, with saprolite.	40	95	Odors
12 to 13	3.8	3.8				
13 to 14			Dry, dark red, clayey SILT, saprolite.	110	400	
14 to 15						
15 to 16			Same	55	140	Odors
16 to 17	3.8	3.8				
17 to 18			Same	110	120	
18 to 19						
19 to 20			Dry, dark red, some black soil, clayey SILT, with saprolite.	80	360	Trace Odors
20 to 21	3.8	3.5				
21 to 22			Same	120	1400	
22 to 23						
23 to 24			Slightly moist, red clayey SILT.	200	1400	Trace Odors
24 to 25	3.8	3.7				
25 to 26			Slightly moist, brown, some black soil, clayey SILT.	300	1400	
26 to 27						
27 to 28			Same	400	1400	Trace Odors
28 to 29	3.3	3.3				
29 to 30				440	1400	GP-4-30
30 to 31			Same	180	1400	Trace Odors
31 to 32			**Refusal @ 31.5'**			

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DEPTH	PEN.	REC.	DESCRIPTION	PID Max	FID Max	Sample ID
BORING GP-5						
0 to 1	3.8	3.3	1' topsoil and gravel			
1 to 2			Dry, red clay, some SILT.	200	1400	
2 to 3						
3 to 4			Dry, red clay, some SILT, saprolite.	20	40	Trace Odors
4 to 5	3.8	3.8	Same			
5 to 6				80	330	
6 to 7						Odors
7 to 8			Red clay, and white-purple saprolite.	10	9	GP-5-8
8 to 9	3.8	3.8				
9 to 10			Dry, red clayey SILT, saprolite.	220	1400	
10 to 11						
11 to 12			Dry, red clayey SILT, some sand, saprolite.	110	1400	Odors
12 to 13	3.8	3.8				
13 to 14			Dry, tan and white, clayey SILT, saprolite.	150	240	
14 to 15						Odors
15 to 16				450	1400	GP-5-16
16 to 17	3.8	3.8				
17 to 18			Same, with some purple coloring.	40	110	
18 to 19						
19 to 20			Dry, tan and white, clayey SILT, saprolite.	100	450	Odors
20 to 21	3.8	3.8				
21 to 22				140	580	
22 to 23						
23 to 24				200	1400	Odors
24 to 25	3.8	3.7	Same			
25 to 26				240	1400	
26 to 27						
27 to 28				240	1400	Odors
28 to 29	1.5	1.5		180	1400	GP-5-29
29 to 30			**Refusal @ 29'**			

NOTES:

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DEPTH	PEN.	REC.	DESCRIPTION	PID Max	FID Max	Sample ID
BORING GP-6						
0 to 1	3.8	1.3	6" of asphalt and gravel			
1 to 2						
2 to 3			~2' voidspace			No Odors
3 to 4			Moist, red-brown, clayey SILT.	90	100	GP-6-4
4 to 5	3.8	2.8				
5 to 6			Slightly moist, red clay, saprolite.	1600	2100	
6 to 7						
7 to 8			Slightly moist, red clayey SILT, with saprolite.	50	420	Odors
8 to 9	3.8	3.8				
9 to 10			Dry, red clayey SILT.	8000	936	
10 to 11						
11 to 12			Dry, red clayey SILT, with saprolite.	5000	820	Trace Odors
12 to 13	3.8	3.8				
13 to 14			Same	40	320	
14 to 15						
15 to 16				105	890	Odors
16 to 17	3.8	3.8				
17 to 18			Dry, red and white, some clayey SILT, mostly saprolite.	75	550	
18 to 19						Odors
19 to 20			Dry, brown clayey SILT.	25	60	GP-6-20
20 to 21	3.8	3.8				
21 to 22				73	380	
22 to 23						
23 to 24			Same, lighter in color.	50	380	Odors
24 to 25	3.8	3.8				
25 to 26			Dry, tan and white, some clayey SILT, mostly saprolite.	385	5000	
26 to 27						Petroleum and
27 to 28				580	450	sulfur odors
28 to 29	3.8	3.8				
29 to 30			Dry, white saprolite	250	500	
30 to 31						
31 to 32				150	930	Odors
32 to 33	3.8	3.6	Same			
33 to 34				950	3600	
34 to 35						
35 to 36			Dry, tan and white saprolite.	36	240	Odors
36 to 37	3.0	3.0				
37 to 38						Odors
38 to 39			Dry, brown and white saprolite.	111	286	GP-6-39
39 to 40			**Refusal @ 39'**			

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DEPTH	PEN.	REC.	DESCRIPTION	PID Max	FID Max	Sample ID
BORING GP-7						
0 to 1	3.8	3.8	6" asphalt and gravel			
1 to 2			Dry, red clayey SILT, with saprolite.	140	460	
2 to 3						
3 to 4				110	350	Odors
4 to 5	3.8	3.8	Same			
5 to 6				500		
6 to 7						
7 to 8				505		Odors
8 to 9	3.8	3.8	Same			
9 to 10				520		
10 to 11						
11 to 12			Dry, tan and white, clayey SILT, with saprolite.	530		Odors
12 to 13	3.8	3.8				
13 to 14			Same	675		
14 to 15						
15 to 16			Dry, red and white, clayey SILT, saprolite.	665		Odors
16 to 17	3.8	3.8				
17 to 18				540		
18 to 19						Odors
19 to 20			Slightly moist, red-brown, clayey SILT.	710		GP-7-20
20 to 21	3.8	3.6				
21 to 22			Dry, brown, clayey SILT, saprolite.	520		
22 to 23						
23 to 24				460		Odors
24 to 25	3.8	3.3	Same			
25 to 26				510		
26 to 27						
27 to 28			Dry, tan and white, clayey SILT, with saprolite.	330		Odors
28 to 29	3.8	3.8				
29 to 30			Dry, dark brown, clayey SILT.	350		
30 to 31						
31 to 32			Dry, tan and white, clayey SILT, with saprolite.	245		Odors

Refusal @ 32'

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BORING LOCATION DATA
GUILFORD COUNTY, NORTH CAROLINA
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DEPTH	PEN.	REC.	DESCRIPTION	PID Max	FID Max	Sample ID
BORING GP-8						
0 to 1	3.8	3.8	6" topsoil			
1 to 2			Dry, red clayey SILT.	90	430	GP-8-2
2 to 3						
3 to 4			Dry, red clayey SILT, with saprolite.	69	199	No Odor
4 to 5	3.8	3.8				
5 to 6			Same	230	1400	
6 to 7						
7 to 8			Dry, white and tan, clayey SILT, with saprolite.	245	1400	Trace Odors
8 to 9	3.8	3.8				
9 to 10			Same	420	1400	
10 to 11						
11 to 12			Same	111	586	Odors
12 to 13	3.8	3.8				
13 to 14			Dry, red clayey SILT.	210	1400	
14 to 15						
15 to 16				260	1400	Odors
16 to 17	3.8	3.8	Same			
17 to 18						
18 to 19						
19 to 20				200	1400	Odors
20 to 21	3.8	3.8	Same			
21 to 22				265	1400	
22 to 23						
23 to 24			Dry, white and tan, clayey SILT, with saprolite.	400	1400	Odors
24 to 25	3.8	3.8	Same			
25 to 26						
26 to 27						
27 to 28				186	740	Odors
28 to 29	3.3	3.3	Same			
29 to 30						Odors
30 to 31			Dry, white saprolite.	340	1400	GP-8-31.5
31 to 32			**Refusal @ 31.5**			

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BORING LOCATION DATA
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DEPTH	PEN.	REC.	DESCRIPTION	PID Max	FID Max	Sample ID
BORING GP-9						
0 to 1	3.8	3.2	6" gravel			
1 to 2			Dry, red and white, clayey SILT, with saprolite.			
2 to 3						No Odors
3 to 4				66	70	GP-9-4
4 to 5	3.8	3.7	Same			
5 to 6				72	625	
6 to 7						
7 to 8			Dry, tan and white, clayey SILT, saprolite.	80	810	Odors
8 to 9	3.8	3.8	Same			
9 to 10				135	1210	
10 to 11						
11 to 12				410	1400	Odors
12 to 13	3.8	3.5	Same			
13 to 14				565	1400	
14 to 15						
15 to 16			Dry, tan and white, clayey SILT, saprolite.	550	1400	Odors
16 to 17	3.8	3.7	Same			
17 to 18				700	1400	
18 to 19						
19 to 20				650	1400	Odors
20 to 21	3.8	3.8	Same			
21 to 22				625	1400	
22 to 23						
23 to 24				470	1400	Odors
24 to 25	3.8	3.8	Same			
25 to 26				390	1020	
26 to 27						Odors
27 to 28				210	920	GP-9-28
28 to 29	3.8	3.8	Same			
29 to 30			Slightly moist, brown saprolite.	125	810	
30 to 31						
31 to 32				80	410	
32 to 33	3.0	3.0	Same			
33 to 34						
34 to 35			**Refusal @ 35'**	60	120	Odors

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DEPTH	PEN.	REC.	DESCRIPTION	PID Max	FID Max	Sample ID
BORING GP-10						
0 to 1	3.8	2.9	1' asphalt and gravel			
1 to 2			Slightly moist, brown, clayey SILT, some sand.	72	352	
2 to 3						
3 to 4				26	78	No Odors
4 to 5	3.8	3.8				
5 to 6			Slightly moist, red, clayey SILT, with saprolite.	51	274	
6 to 7						Odors
7 to 8				25	80	GP-10-8
8 to 9	3.8	3.8	Same			
9 to 10			Dry, red and brown, some purple, clayey SILT, with saprolite.	44	351	
10 to 11						
11 to 12				90	270	Odors
12 to 13	3.8	3.8				
13 to 14			Dry, tan and white saprolite.	141	388	
14 to 15						
15 to 16				175	600	Odors
16 to 17	3.8	3.8				
17 to 18			Dry, white saprolite.	220	1400	GP-10-18
18 to 19						
19 to 20			Dry, tan and white saprolite.	60	410	Odors
20 to 21	3.8	3.8	Same			
21 to 22				72	550	
22 to 23						
23 to 24				100	410	Odors
24 to 25	3.8	3.8	Same			
25 to 26				68	310	
26 to 27						
27 to 28				60	210	Odors
28 to 29	3.8	3.2	Same			
29 to 30				150	1400	Heavy Odors
30 to 31						in bedrock.
31 to 32			Dry, white saprolite.	160	800	GP-10-32

Refusal @ 35'

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DEPTH	PEN.	REC.	DESCRIPTION	PID Max	FID Max	Sample ID
BORING GP-11						
0 to 1	3.8	3.1	6" asphalt and gravel			
1 to 2			Dry, red clayey SILT.	12	28	
2 to 3						
3 to 4				480	220	No Odors
4 to 5	3.8	3.8				
5 to 6			Slightly moist, red clayey SILT, with saprolite.	252	550	
6 to 7						
7 to 8				18	90	No Odors
8 to 9	3.8	3.6	Same			
9 to 10				2800	256	
10 to 11						
11 to 12				17	35	Trace Odors
12 to 13	3.8	3.8	Same			
13 to 14				1800	6000	
14 to 15						
15 to 16			Dry, tan SILT, with saprolite.	22	68	Odors
16 to 17	3.8	3.8				
17 to 18			Slightly moist, red clayey SILT, with saprolite.	1200	380	
18 to 19						
19 to 20			Dry, brown and white, clayey SILT, with saprolite.	43	160	Odors
20 to 21	3.8	3.4	Same			
21 to 22				140	710	
22 to 23						
23 to 24				80	165	Odors
24 to 25	3.8	3.4	Same			
25 to 26				1200	7500	
26 to 27						
27 to 28				5800	4022	Odors
28 to 29	1.5	1.5	Dry, white saprolite.			
29 to 30			**Refusal @ 29.5**	5800	3600	GP-11-29.5

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DEPTH	PEN.	REC.	DESCRIPTION	PID Max	FID Max	Sample ID
BORING GP-12						
0 to 1	3.8	3.8	6" topsoil and gravel			
1 to 2			Dry, red and brown clay.	4	1	
2 to 3						
3 to 4			Dry, tan and white, clayey SILT, with saprolite.	4	1	No Odors
4 to 5	3.8	3.8	Same			
5 to 6				4	3	
6 to 7						
7 to 8				3	1	GP-12-8
8 to 9	3.8	3.8				
9 to 10			Dry, brown, clayey SILT.	12	29	
10 to 11						
11 to 12				60	300	No Odors
12 to 13	3.8	3.8	Same			
13 to 14				55	140	GP-12-14
14 to 15						
15 to 16				50	290	Trace Odors
16 to 17	3.8	3.5				
17 to 18			Dry, tan and white, clayey SILT, with saprolite.	30	85	
18 to 19						
19 to 20				110	320	Trace Odors
20 to 21	3.3	3.3	Same			
21 to 22				220	680	
22 to 23			Saprolite.			
23 to 24			**Refusal @ 23.5'**	500	1400	GP-12-23.5

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APPENDIX C
BORING LOCATION DATA
GUILFORD COUNTY, NORTH CAROLINA
NCDOT PROJECT
(TIP: U-2525B)

DEPTH	PEN.	REC.	DESCRIPTION	PID Max	FID Max	Sample ID
BORING GP-13						
0 to 1	3.8	3.5	6" topsoil and sand			
1 to 2			Dry, red and brown, clayey SILT, with saprolite.	19		
2 to 3						
3 to 4				17		No Odor
4 to 5	3.8	3.8				
5 to 6			Dry, tan and white, clayey SILT, with saprolite.	15		
6 to 7						
7 to 8			Dry, brown clayey SILT, with saprolite.	13		No Odor
8 to 9	3.8	3.7	Same			
9 to 10				12		
10 to 11						
11 to 12				18		No Odor
12 to 13	3.8	3.5				
13 to 14			Dry, red, clayey SILT, with saprolite.	13		
14 to 15						
15 to 16				14		No Odor
16 to 17	3.8	3.3	Same			
17 to 18				62		
18 to 19						
19 to 20				100		GP-13-20
20 to 21	3.8	3.8				
21 to 22			Dry, tan, clayey SILT, with saprolite.	47		
22 to 23						
23 to 24				38		No Odor
24 to 25	3.8	3.4	Same			
25 to 26				63		
26 to 27						
27 to 28			Dry, white saprolite.	72		No Odor
28 to 29	2.0	2.0				
29 to 30			**Refusal @ 30'**	16		

NOTES:

1. Geoprobe explorations were completed on 2/9/01 by Mike Tynan (Probe Technology, Inc. of Concord, NC) using a Geoprobe rig under the supervision of Corlista Urtz (URS). Sampling was performed using an acetate-lined four-foot long steel sampler.
2. Field Photo Ionization Detector (PID) and Flame Ionization Detector (FID) screening was performed using a Foxboro Total Vapor Analyzer (TVA).
3. All penetration, recovery, and depth measurements are expressed in units of feet; PID and FID measurements are expressed as parts per million relative to isobutylene and methane standards.
4. No groundwater was encountered. Boring backfilled with granular bentonite.
5. ND indicates No Detection.

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BORING LOCATION DATA
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NCDOT PROJECT
(TIP: U-2525B)

DEPTH	PEN.	REC.	DESCRIPTION	PID Max	FID Max	Sample ID
BORING GP-14						
0 to 1	3.8	3.6	6" topsoil			No Odor
1 to 2			Dry, red and brown, clayey SILT.	2		No Samples
2 to 3						
3 to 4				2		
4 to 5	3.8	3.8	Same			
5 to 6				1		
6 to 7						
7 to 8			Dry, red and brown, clayey SILT, with saprolite.	3		No Odor
8 to 9	3.8	3.7	Same			
9 to 10				2		
10 to 11						
11 to 12				2		No Odor
12 to 13	3.8	3.8	Same			
13 to 14				2		
14 to 15						
15 to 16				2		No Odor
16 to 17	3.8	3.8	Same			
17 to 18				3		
18 to 19						
19 to 20			Dry, brown, clayey SILT, with saprolite.	2		No Odor
20 to 21	3.8	3.8	Same			
21 to 22				3		
22 to 23						
23 to 24				3		No Odor
24 to 25	3.8	3.8	Same			
25 to 26				3		
26 to 27						
27 to 28			**End of Boring 28'**	2		No Odor

NOTES:

1. Geoprobe explorations were completed on 2/9/01 by Mike Tynan (Probe Technology, Inc. of Concord, NC) using a Geoprobe rig under the supervision of Corlista Urtz (URS). Sampling was performed using an acetate-lined four-foot long steel sampler.
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5. ND indicates No Detection.

Appendix C
Laboratory Results

Appendix D
Calculations of Impacted Soil

Mabel L. Chilton Property

Soil Volume Calculation:

Using planimeter on concentration contour, see Figure 3:

1,835.2 sq. ft

Assuming an average soil column to be removed of 31.5 feet:

1,835.2 Sq. feet x 31.5 feet = 57,809 cu. feet

Assuming a conversion of 1.5 tons per in place cubic yard

57,809 cu. feet x 1 cu. yard/ 27 cu. feet x 1.5 tons per cu. yard = 3,212 tons.

Calculated soil impact within the Mabel L. Chilton Property is 3,212 tons.

PROJECT REFERENCE NO.	SHEET
U-2525C	2H-1

GEOENVIRONMENTAL ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 31499 ENGINEER CYRUS F. PARKER

DocuSigned by: Cyrus F. Parker 4/6/2016
C96492AF5E824DF...

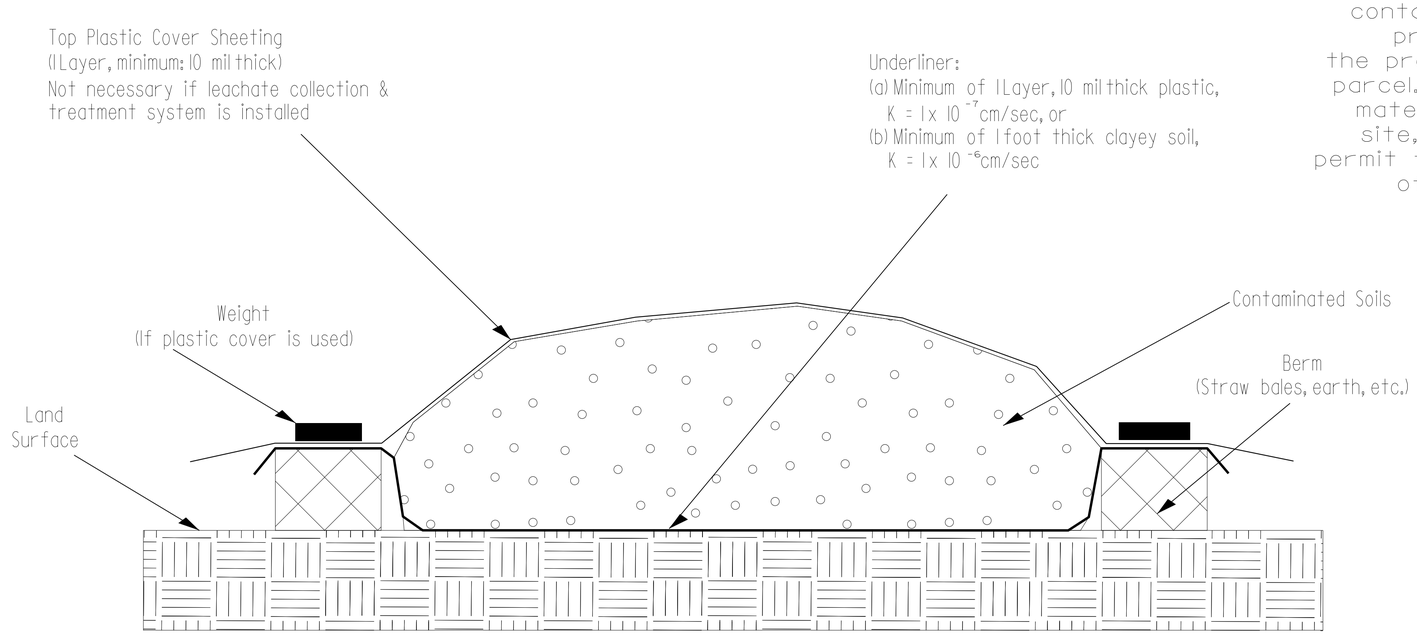
SIGNATURE DATE

ENGINEER

SIGNATURE DATE

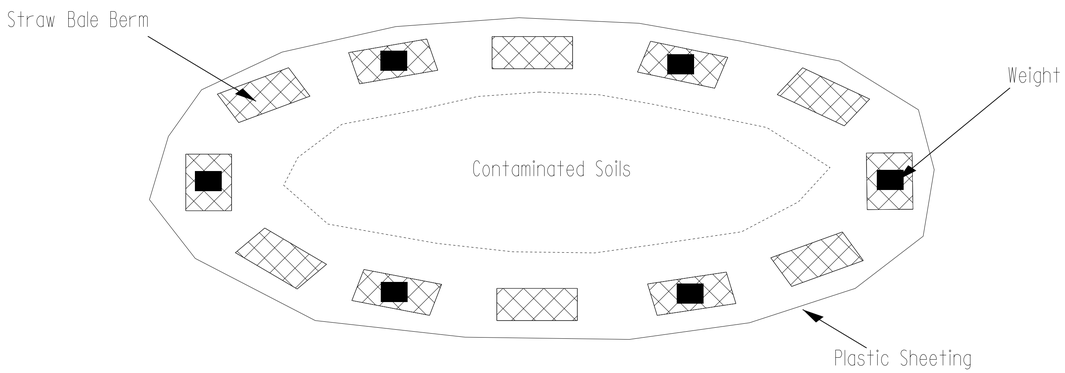
Detail for Temporary Containment of Contaminated Soil

Cross-Section View



NOTE:
The Contractor shall stockpile all contaminated soil excavated from a property in a location within the property boundaries of the source parcel. If the volume of contaminated material exceeds available space on site, the Contractor shall obtain a permit from the NCDENR UST Section for off-site temporary storage.

Map View



PREPARED BY:	DATE:
REVIEWED BY:	DATE:

GEOTECHNICAL ENGINEERING UNIT

☐ EASTERN REGIONAL OFFICE
☐ WESTERN REGIONAL OFFICE
☒ CONTRACT OFFICE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STOCKPILE CONTAINMENT DETAIL

REVISIONS

NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		