Initial Abatement including UST Closure
Sam's Mart
5601 East Independence Blvd
Charlotte NC

ID# 0-014323

Contacts:

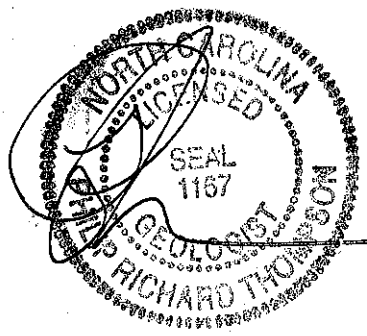
***UST Owner**: Alpha Omega Group, (Keith Glenn) PO Box 3196 Matthews NC 28106 (704)821-6501*
Closure Contractor; *Law Petroleum, (Pete Law),11025 Arlington Church Road Mint Hill NC 28227 (704) 573-3535*
Consultant; *Philip Thompson PG., 2411 Lawyers Road West, Indian Trail NC 28079 (704) 882-2788*
Laboratory; *Accutest, 4405 Vinland Road, Orlando Fl. 32811 NC ID # 573 (704) 919-1533*

Tank NO •	Installation Date	Site in Gallons	Tank Dimensions	last Contents	Prevjous Contents
1	1990s	10,000	8'10" x 21'	Gasoline	Gasoline
2.	1990s	10,000	8'10" by 21'	Gasoline	Gasoline
3.	1990s	10,000	8'10" x 21'	Gasoline	Gasoline
4	1990s	10,000	8'10" x 21'	Diesel	Diesel

Date of release discovery: February
Quanity of Realease: Unknown
Source of release: Lines and Dispensers
Type of release: Gasoline and Diesel

Longitude and Latitude of the Site.
35° 10' 59.4" N 80° 45' 20.3" W

Philip Thompson PG



Philip R. Thompson P.G.
Geological and Environmental Services
2411 Lawyers Road West Indian Trail NC 28079 (704) 882-2788

Thursday, April 19, 2012
Dan Bowser
NCDENT UST Section
610 East Center Ave.
Mooresville NC 28115

Re: ***Initial Abatement and 20 day Report including Permanent Closure by Removal of Three 10,000-Gallon Gasoline Underground Storage Tank (USTs) and one 10,000-gallon Diesel UST located at Alpha and Omega Sam's Mart, 5601 East Independence Blvd, Charlotte NC***

Facility ID # ID# 0-014323

Dear Mr. Bowser

I respectfully submit for your review and comment, this letter report that summarizes the permanent closure of. Permanent Closure by Removal of Three 10,000-Gallon Gasoline Underground Storage Tank (USTs) and one 10,000-gallon Diesel UST located at Sam's Mart, 5601 East Independence Blvd, Charlotte NC. The location of the facility is illustrated on an excerpt from the United States Geological Survey (USGS) 7.5-minute topographic map for Charlotte East NC and is presented as Figure 1.

UST Owner: Alpha Omega Group, (Keith Glen) PO Box 3196 Matthews NC 28106 (704)821-6501
Closure Contractor; Law Petroleum, (Pete Law),11025 Arlington Church Road Mint Hill NC 28227 (704) 573-3535
Consultant; Philip Thompson PG., 2411 Lawyers Road West, Indian Trail NC 28079 (704) 882-2788
Laboratory; Accutest Laboratories;, 4405 Vinland Road, Orlando Fl. 32811 NC ID # 573 (704) 919-1533

Tank NO •	Installation Date	Site in Gallons	Tank Dimensions	last Contents	Prevjous Contents
1	1990s	10,000	8'10" x 21'	Gasoline	Gasoline
2.	1990s	10,000	8'10" by 21'	Gasoline	Gasoline
3.	1990s	10,000	8'10" x 21'	Gasoline	Gasoline
4	1990s	10,000	8'10" x 21'	Gasoline	Gasoline

Based on field observations and the Geologic Map of North Carolina (1985), the site is located over Meta-volcanic rocks of the Charlotte Belt. The Site drains into an unnamed tributary of Campbell Creek, part of the Catawba River Water shed.

The methods and results of the UST closures are discussed below.

Site History

The property was owned by Alpha Omega Enterprises and leased to Sam's Mart. The site was closed due to road widening on East Independence.

Documentation of Tank Closure

Prior to UST closure, NCDENR was notified of the date of closure. A permit was obtained from the City of Charlotte Boone and the Fire Marshall was notified prior to closure. On February 22, 2012 Law Petroleum and TGES commenced excavation and UST removal activities at the site.

The USTs were emptied of all liquid contents prior to closure by Alpha and Omega, less than 1/2" of water remained in the USTs at time of closure.

The tops of the 10,000-Gallon USTs were situated approximately two foot below the ground surface. The base of the 10,000-Gallon USTs was located approximately 11 feet below the ground surface (BLGS). The dimensions of the USTs were approximately 8'10" by 21''.

Three samples were collected from beneath each UST, the location and depth of the samples is indicated on Table 1. Samples were also collected from along the piping trench and from under each dispenser. Under direction of the property owner, no soil was excavated and removed from the site.. The location of the samples is indicated on Figure 2. The analytical data for the confirmation samples are presented on Table 1.

The USTs were found to be in excellent condition except for damage done during removal. The data indicates the release at the facility was due to spillage and line leaks.

New latex gloves were donned during the collection of each sample. Immediately upon collection, representative portions of the soil samples were screened by visual and olfactory methods. The soil samples were then placed in glassware provided by the analyzing laboratory and stored in a cooler with ice packs. Soil samples were also classified in general accordance with the Unified Soil Classification System. The soils were determined to be predominantly moderately reddish brown Silty Clays. Soil color was determined using Rock Color chart prepared by the G.S.A.

The twenty one (21) collected soil samples were shipped by courier to Accutest Laboratories; 4405 Vinland Road, Orlando Fl. 32811 NC ID # 573 (704) 919-1533. Soil sample collection, handling and preservation were conducted in accordance with accepted protocol, including Chain-of-Custody documentation. Accutest analyzed the soil samples from the using EPA Methods 5030 and 3550 where applicable..

The USTs were transported to Gold Express LLC for cut up and disposal. A copy of the tank disposal manifest is attached in Attachment C.

Results

Soil exceeded the reportable for limits for samples collected beneath UST #3 and UST #4, the diesel UST. Minor soil contamination was detected beneath the lines Pump Island #2. Major soil contamination was detected beneath the Diesel dispenser. Soil samples and laboratory analytical results are summarized in Table 1. Chain-of-Custody Records and verification soil sample data sheets are presented in Attachment D. The complete analytical results are presented in Attachment E.

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Recommendations

Additional Excavation will be required to close the site, if soil cannot be successfully excavated a Limited Site Assessment will be required to close the site. TGES estimates less than 600 yards of soil will need to be excavated to remediate the site. The site is served by public water and sewer. If you have any further questions or need additional information, please call me at (704) 882 2788.

Sincerely

Philip R. Thompson P.G.
Geologist

Attachments

TABLE

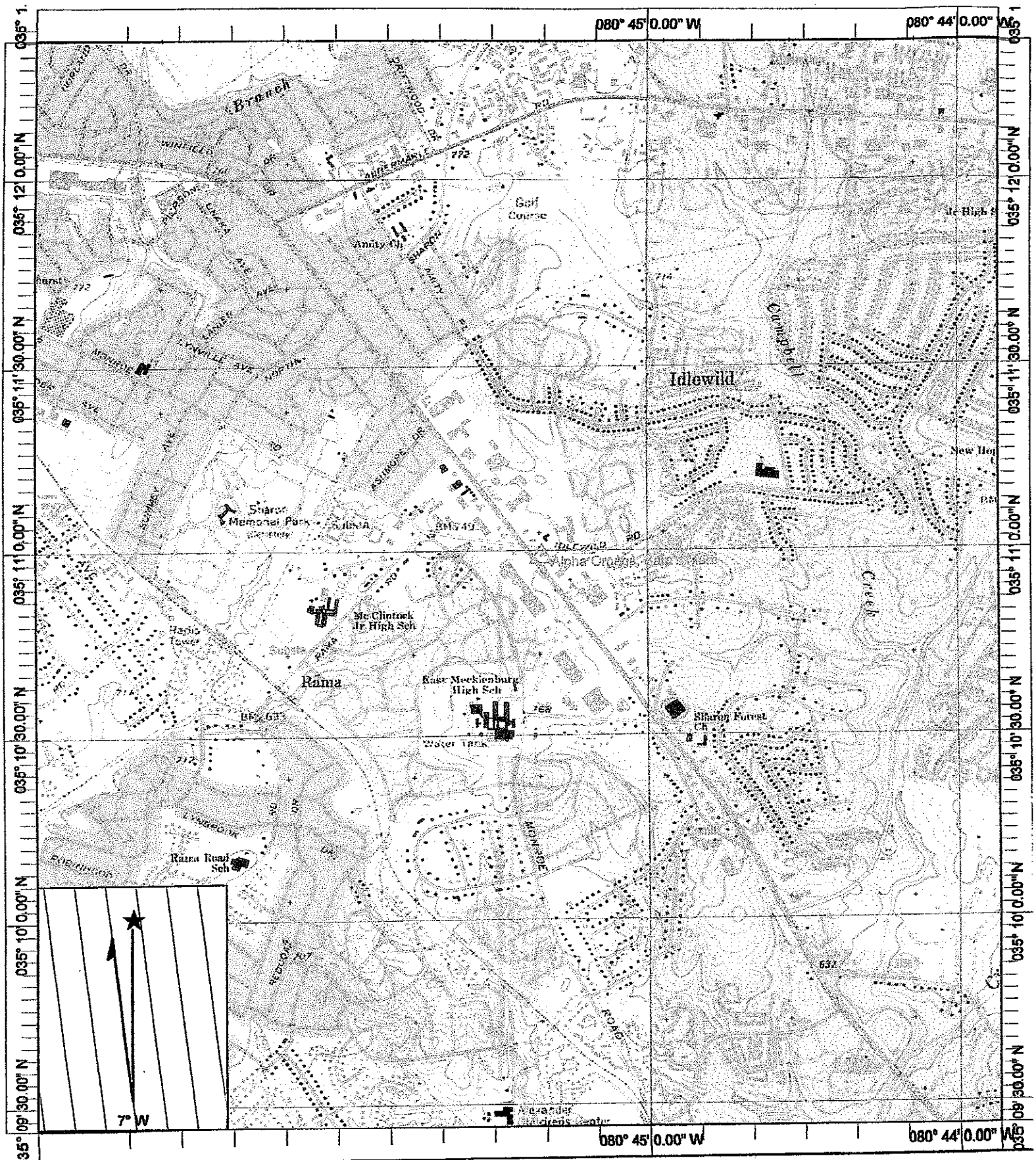
Table 1. Soil Analytical Data
Alpha Omega Property
5601 East Independ

SAMPLE #	S-1	S-2	S-3	S-4	S-5	S-6	S-7
DATE	2/22/2012	2/22/2012	2/22/2012	2/22/2012	2/22/2012	2/22/2012	2/23/2012
Depth	11' to 12'	11' to 12'	11' to 12'	11' to 12'	11' to 12'	11' to 12'	11' to 12'
TPH 5030	ND	ND	ND	ND	ND	ND	ND
TPH 3550	NA	NA	NA	NA	NA	NA	NA

SAMPLE #	S-8	S-9	S-10	S-11	S-12	LS-1	LS-2
DATE	2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/23/2012
Depth	11' to 12'	11' to 12'	11' to 12'	11' to 12'	11' to 12'	3'	3'
TPH 5030	145	99.20	123.00	89.8	53.30	15.8	79.1
TPH 3550	NA	NA	9.84	ND	11.40	NA	NA

SAMPLE #	DI-1	DI-2	LS-3	LS-4	PI-3	PI-4	PI-5
DATE	2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/23/2012
Depth	3'	3'	3'	3'	3'	3'	3'
TPH 5030	ND	36.30	12	10.2	ND	1190	ND
TPH 3550	NA	NA	ND	7.03	ND	1340	NA

FIGURES



Name: CHARLOTTE EAST
Date: 4/25/2012
Scale: 1 inch equals 2000 feet

Location: 035° 10' 54.3" N 080° 45' 24.8" W
Caption: Figure 1. Site Location map
Alpha Omega Sam's Mart
5601 Easr Independence Blvd.
Charlotte NC

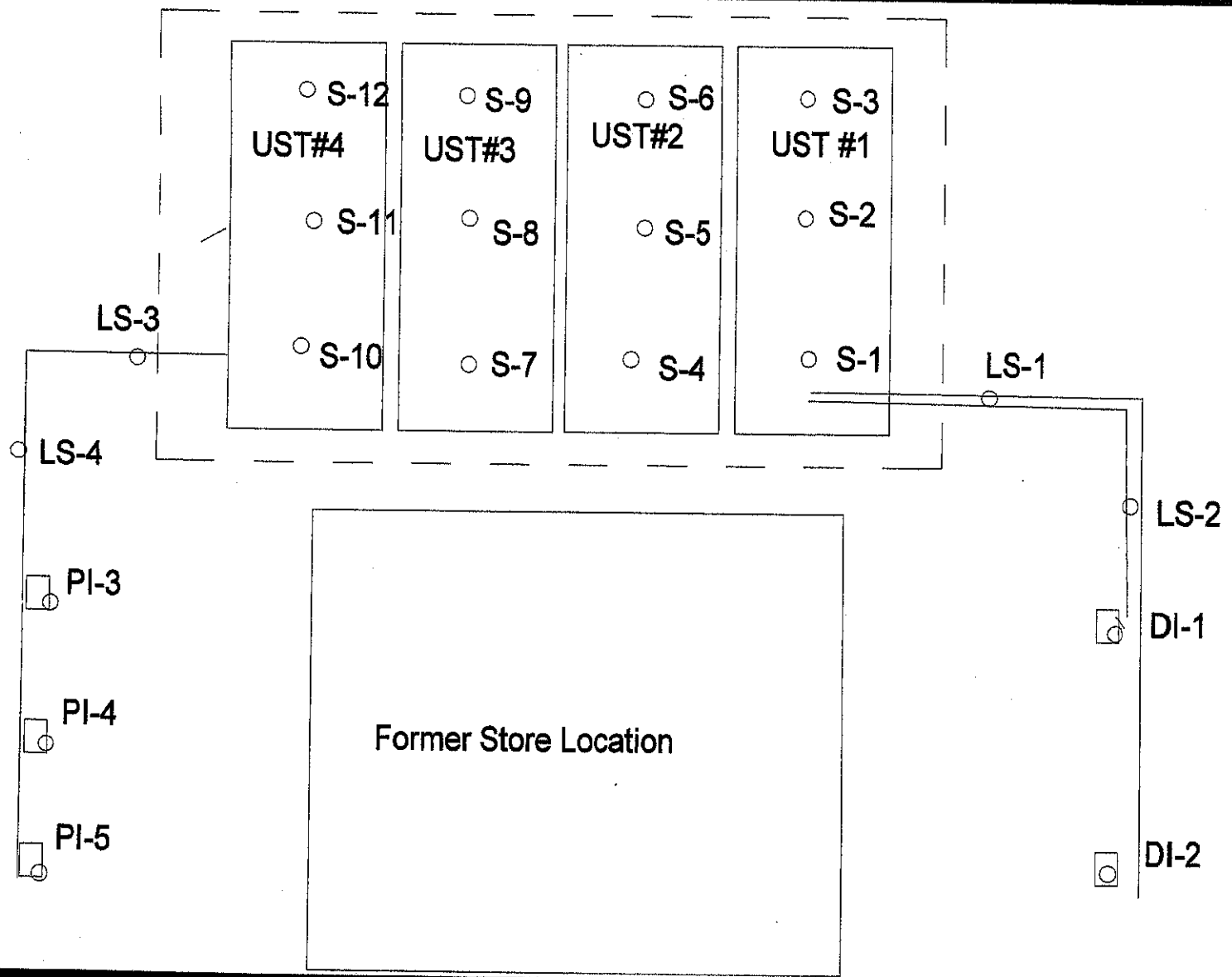


Figure 2. Sample Location Map
Sam's Mart (Alpha- Omega)
5601 East Independence Blvd
Charlotte NC

11/9/11

Scale 1" =16'

Philip Thompson PG #1167
Geological & Environmental
2411 Lawyers Road West
Indian Trail NC 28079
(704) 882-2788

ATTACHMENT A
Notification of Intent to Close
(GW/UST-3)

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

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

STATE USE ONLY
I.D. #
Date Received

INSTRUCTIONS (READ THIS FIRST)

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

Completed UST closure or change-in-service site assessment reports, along with a copy of the UST-2 form, should be submitted to the appropriate Division of Waste Management (DWM) Regional Office within thirty (30) days following closure activities. The UST-2 form should also be submitted to the Central Office in Raleigh so that the status of the tanks may be changed to permanently closed and your tank fee account can be closed out.

UST closure and change-in-service site assessments must be completed in accordance with the latest version of the *Guidelines for Tank Closure*. The *Guidelines for Tank Closure* can be obtained at www.wastenotnc.org.

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

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity): Alfa omega
Street Address: PO Box 3196
City: Mathews
County: Union
State: NC
Zip Code: 28106
Phone Number:

II. LOCATION

Facility Name or Company: Sam's Mart
Facility ID # (If known): 0-014323
Street Address: 5601 E Independence Blvd.
City: Charlotte
County: Meck.
Zip Code:
Phone Number:

III. CONTACT PERSONNEL

Name:	Company Name:	Job Title:	Phone Number:
Keith Glover	Alfa omega	Estimator	821-6510

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

1. Contact local fire marshal.
2. Plan entire closure event.
3. Conduct Site Soil Assessment.
4. If removing tanks or closing in place, refer to 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 (including the form UST-2) within thirty (30) days following the site investigation.
7. If a release from the tanks 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. 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 three (3) years.

V. WORK TO BE PERFORMED BY

Contractor Name: Petl Lawr
Contractor Company Name: Lawr Petroleum
Address: 11025 arlington Church RD
State: NC
Zip Code: 28227
Phone No: 573-3535
Primary Consultant Name: Phil thompson
Primary Consultant Company Name: TGES
Consultant Phone No: 704-882-2788

VI. TANKS SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE

Tank ID No.	Size in Gallons	Last Contents	Proposed Activity: Closure – Removal	Proposed Activity: Closure – Abandonment in Place *	Proposed Activity: Change-In-Service – New Contents Stored
1	10,000	gasoline	☑	☐	
2	"	"	☑	☐	
3	"	"	☑	☐	
4	"	Diesel	☑	☐	
			☐	☐	

* Prior written approval to abandon a tank in place must be received from a DWM Regional Office.

VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

I understand that I can be held responsible for environmental damage resulting from the improper disposal of my USTs.

Print name and official title: Phil Thompson
Signature:
Date Signed: 4/10/11
SCHEDULED REMOVAL DATE: Oct Yalm
Notify your DWM Regional Office 48 hours before this date if scheduled removal date changes

ATTACHMENT B
Site Report For Permanent Closure
(GW/UST-2)

Jarron Ray 919-516-0006

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

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

STATE USE ONLY:
I.D. #_____
Date Received_____

INSTRUCTIONS (READ THIS FIRST)

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

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

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

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

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

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.

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity): Alta Owner
Street Address: P.O. Box 3196
City: Matthews County: Union
State: N.C. Zip Code: 28106
Phone Number: 704-821-6570

II. LOCATION OF TANKS

Facility Name or Company: Sam's Mart
Facility ID # (If known): 0-014323
Street Address: 5601 E Independence Blvd
City: Charlotte County: N.C. Zip Code:
Phone Number:

III. CONTACT PERSONNEL

Contact for Facility: Keith Cleaver		Job Title: Employee	Phone No: 821-6510
Closure Contractor Name: P.J.'s Law	Closure Contractor Company: Law Petroleum	Address: 11025 Arlington Blvd	Phone No: 573-3535
Primary Consultant Name: Phil Thompson	Primary Consultant Company: TGGS	Address: 2411 Lawyer Rd W	Phone No: 704-882-2788

IV. UST INFORMATION FOR REGISTERED UST SYSTEMS

V. EXCAVATION CONDITION

Tank ID No.	Size in Gallons	Tank Dimensions	Last Contents	Last Use Date	Permanent Close Date	Change-in-Service Date	Water in excavation Yes	Water in excavation No	Free product Yes	Free product No	Notable odor or visible soil contamination Yes	Notable odor or visible soil contamination No
1	10,000	8'10" x 21'	gasoline	Oct/2011	2/22/12		☐	☒	☐	☒	☐	☒
2	"	"	~~Diesel~~ "	"	"		☐	☒	☐	☒	☐	☒
3	"	"	"	"	"		☐	☒	☐	☒	☒	☐
4	"	"	Diesel	"	"		☐	☒	☐	☒	☒	☐
							☐	☐	☐	☐	☐	☐

VI. UST INFORMATION FOR UNREGISTERED UST SYSTEMS

VII. EXCAVATION CONDITION

Tank ID No.	Size in Gallons	Tank Dimensions	Last Contents	Last Use Date	Permanent Close Date	Tank Owner Name *	Water in excavation Yes	Water in excavation No	Free product Yes	Free product No	Notable odor or visible soil contamination Yes	Notable odor or visible soil contamination No
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐

* If the tank owner address is different from the one listed in Section I., then enter the street address, city, state, zip code and telephone no. below:

VIII. CERTIFICATION

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

Print name and official title of owner or owner's authorized representative	Signature	Date Signed
Phillip Thompson / Owners Rep		3/15/12

ATTACHMENT C
Certificate of Tank Disposal

CERTIFICATE OF TANK CLOSURE AND DISPOSAL

GOLD EXPERSS, LLC
P. O. BOX 5030
CONCORD, N. C. 28027
704/788-1603

DESCRIPTION & PRODUCT STORED: 3 – 10,000 GALLON TANKS – GASOLINE
1 – 10,000 GALLON TANK – DIESEL

LOCATION OF TANKS PRIOR TO REMOVAL:
ALPHA OMEGA
5601 E. INDEPENDENCE BLVD.
CHARLOTTE, NORTH CAROLINA

TANK (S) REMOVAL DATE: FEBRUARY 22, 2012

TANK (S) REMOVAL BY: LAW PETROLEUM
11025 ARLINGTON CHURCH ROAD
CHARLOTTE, NC 28227

REMOVAL WITNESSED BY: THOMPSON GEOLOGICAL

ENVIRONMENTAL REPORTS TO BE DONE BY THOMPSON GEOLOGICAL

TANK DISPOSAL METHOD: TANKS HAD ALREADY BEEN PUMPED.

GOLD EXPRESS, LLC HAULED OFF AND DISPOSED OF THE TANKS AT FOILS, HARRISBURG, NC FOR SCRAP.

I HEREBY CERTIFY THAT THESE TANKS WERE HANDLED AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE US.S. EPA AND STATE REGULATIONS APPLYING TO PETROLEUM UNDERGROUND STORAGE TANKS.

Kerry D. Beaver
GOLD EXPRESS, LLC

4-13-12
Date

ATTACHMENT D
Chain-of-Custody

ACCUTEST LABORATORIES

Accutest Laboratories Southeast
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # F90674

PAGE 1 OF 2

Accutest Quote #

SKIFF#

Client / Reporting Information

Company Name: Phil Thompson
Address: 2411 [illegible]
City: [illegible] State: [illegible] Zip: [illegible]
Project Contact: [illegible] E-mail: [illegible]
Phone#: 704 - [illegible]
Sampler(s) Name(s) (Printed):

Project Information

Project Name: AΩ Idlewild 74
Street: Alpha Omega Idlewild # 74
City: State:
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI Water	MeOH	GRO	DRO	Lab Use Only
1	S-1	2/22	12:00	PT												X		
2	S-2	"	12:30	"												X		
3	S-3	"	1:00	"												X		
4	S-4	"	1:30	"												X		
5	S-5	"	2:00	"												X		
6	S-6	"	2:30	"												X		
7	S-7	2/23	10:00	"												X		
8	S-8	"	10:30	"												X		
9	S-9	"	11:00	"												X		
10	S-10	"	11:30	"												X	X	
11	S-11	"	12:00	"												X	X	
12	S-12	"	12:30	"												X	X	

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL - Sludge, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid, WP - Wipe

TURNAROUND TIME (Business Days) — Approved By: / Rush Code

- ☐ 10 Days Standard
- ☐ 7 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

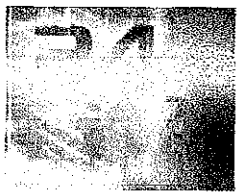
Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 [signature]	2/24 8:30	2 [signature]	3 [signature]	2/24 1500	4 FX
Relinquished by: 5 FX 02-25-12	Date Time: 0930	Received By: 02-25-12 0930 6 [signature] ALSE	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 2.6

ATTACHMENT E
Soil Analytical Results

Southeast
ACCUTEST
LABORATORIES



Technical Report for

Thompson Geological

Alpha Omega; Idlewild, NC

Accutest Job Number: F90674

Sampling Dates: 02/22/12 - 02/23/12

Report to:

Thompson Geological
2411 Lawyers Rd West
Indian Trail, NC 28079
philip_thom@msn.com

ATTN: Phil Thompson

Total number of pages in report: 53

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Muna Mohammed 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

Test results relate only to samples analyzed.

Table of Contents

Sections: 1 2 3 4 5 6

Sample Summary

Thompson Geological

Alpha Omega; Idlewild, NC

Job No: F90674

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F90674-1	02/22/12	12:00	PT	02/25/12	SO	Soil	S-1
F90674-2	02/22/12	12:30	PT	02/25/12	SO	Soil	S-2
F90674-3	02/22/12	13:00	PT	02/25/12	SO	Soil	S-3
F90674-4	02/22/12	13:30	PT	02/25/12	SO	Soil	S-4
F90674-5	02/22/12	14:00	PT	02/25/12	SO	Soil	S-5
F90674-6	02/22/12	14:30	PT	02/25/12	SO	Soil	S-6
F90674-7	02/23/12	10:00	PT	02/25/12	SO	Soil	S-7
F90674-8	02/23/12	10:30	PT	02/25/12	SO	Soil	S-8
F90674-9	02/23/12	11:00	PT	02/25/12	SO	Soil	S-9
F90674-10	02/23/12	11:30	PT	02/25/12	SO	Soil	S-10
F90674-11	02/23/12	12:00	PT	02/25/12	SO	Soil	S-11
F90674-12	02/23/12	12:30	PT	02/25/12	SO	Soil	S-12
F90674-13	02/23/12	13:00	PT	02/25/12	SO	Soil	LS-1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Thompson Geological

Alpha Omega; Idlewild, NC

Job No: F90674

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F90674-14	02/23/12	13:30	PT	02/25/12	SO	Soil	LS-2
F90674-15	02/23/12	14:00	PT	02/25/12	SO	Soil	DI-1
F90674-16	02/23/12	14:30	PT	02/25/12	SO	Soil	DI-2
F90674-17	02/23/12	14:45	PT	02/25/12	SO	Soil	LS-3
F90674-18	02/23/12	15:00	PT	02/25/12	SO	Soil	LS-4
F90674-19	02/23/12	15:30	PT	02/25/12	SO	Soil	PI-3
F90674-20	02/23/12	15:45	PT	02/25/12	SO	Soil	PI-4
F90674-21	02/23/12	16:00	PT	02/25/12	SO	Soil	PI-5

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Thompson Geological **Job No:** F90674

Site: Alpha Omega; Idlewild, NC **Report Date** 3/6/2012 9:31:56 AM

21 Samples were collected between 02/22/2012 and 02/23/2012 and were received at Accutest on 02/25/2012 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of F90674. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GC By Method SW846 8015C

Matrix: SO **Batch ID:** GQR2893

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F90674-15MS, F90674-15MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for TPH-GRO (C6-C10) are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Matrix: SO **Batch ID:** GUV2884

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F90674-1MS, F90674-1MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for TPH-GRO (C6-C10) are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Extractables by GC By Method SW846 8015C

Matrix: SO **Batch ID:** OP40780

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F90663-30MS, F90663-30MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for TPH (C10-C28) are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

F90674-18 for TPH (C10-C28): Petroleum hydrocarbon pattern extends beyond C28.

Matrix: SO **Batch ID:** OP40811

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F90725-2MS, F90725-2MSD were used as the QC samples indicated.

Sample(s) F90674-20 has surrogates outside control limits. Probable cause due to matrix interference.

F90674-20 for o-Terphenyl: Outside control limits due to dilution.

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN48685

Sample(s) F90674-16DUP, F90674-1DUP were used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN48687

Sample(s) F90683-2DUP was used as the QC samples for Solids, Percent.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

Date: March 6, 2012

Lovelie Metzgar, QA Assistant (signature on file)

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	S-1		
Lab Sample ID:	F90674-1	Date Sampled:	02/22/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C	Percent Solids:	68.9
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV051533.D	1	03/02/12	CP	n/a	n/a	GUV2884
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.12 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	9.3	4.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	89%		56-136%
98-08-8	aaa-Trifluorotoluene	103%		61-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S-2		
Lab Sample ID:	F90674-2	Date Sampled:	02/22/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C	Percent Solids:	72.2
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV051534.D	1	03/02/12	CP	n/a	n/a	GUV2884
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.84 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	9.1	4.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	89%		56-136%
98-08-8	aaa-Trifluorotoluene	102%		61-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S-3		
Lab Sample ID:	F90674-3	Date Sampled:	02/22/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C	Percent Solids:	66.6
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV051535.D	1	03/02/12	CP	n/a	n/a	GUV2884
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.73 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	9.1	4.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		56-136%
98-08-8	aaa-Trifluorotoluene	98%		61-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S-4		
Lab Sample ID:	F90674-4	Date Sampled:	02/22/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C	Percent Solids:	69.9
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV051536.D	1	03/02/12	CP	n/a	n/a	GUV2884
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.31 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	8.9	4.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		56-136%
98-08-8	aaa-Trifluorotoluene	100%		61-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S-5		
Lab Sample ID:	F90674-5	Date Sampled:	02/22/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C	Percent Solids:	66.3
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV051537.D	1	03/02/12	CP	n/a	n/a	GUV2884
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.57 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	9.3	4.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		56-136%
98-08-8	aaa-Trifluorotoluene	82%		61-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S-6		
Lab Sample ID:	F90674-6	Date Sampled:	02/22/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C	Percent Solids:	67.6
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV051538.D	1	03/02/12	CP	n/a	n/a	GUV2884
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.51 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		56-136%
98-08-8	aaa-Trifluorotoluene	99%		61-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S-7		
Lab Sample ID:	F90674-7	Date Sampled:	02/23/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C	Percent Solids:	70.1
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV051539.D	1	03/02/12	CP	n/a	n/a	GUV2884
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.86 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	9.5	4.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		56-136%
98-08-8	aaa-Trifluorotoluene	94%		61-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S-8		
Lab Sample ID:	F90674-8	Date Sampled:	02/23/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C	Percent Solids:	70.4
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR066743.D	1	03/05/12	CP	n/a	n/a	GQR2893
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.97 g	5.0 ml	50.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	145	18	9.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		56-136%
98-08-8	aaa-Trifluorotoluene	121%		61-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S-9		
Lab Sample ID:	F90674-9	Date Sampled:	02/23/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C	Percent Solids:	70.5
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR066754.D	1	03/05/12	CP	n/a	n/a	GQR2893
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.39 g	5.0 ml	50.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	99.2	17	8.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	114%		56-136%
98-08-8	aaa-Trifluorotoluene	120%		61-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S-10		
Lab Sample ID:	F90674-10	Date Sampled:	02/23/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C	Percent Solids:	66.6
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR066744.D	1	03/05/12	CP	n/a	n/a	GQR2893
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.97 g	5.0 ml	50.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	123	20	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	114%		56-136%
98-08-8	aaa-Trifluorotoluene	118%		61-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S-10		
Lab Sample ID:	F90674-10	Date Sampled:	02/23/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C SW846 3550C	Percent Solids:	66.6
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL39877.D	1	03/02/12	SJL	02/29/12	OP40780	GLL1536
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	9.84	12	4.9	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		49-108%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S-11		
Lab Sample ID:	F90674-11	Date Sampled:	02/23/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C	Percent Solids:	70.6
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV051545.D	1	03/02/12	CP	n/a	n/a	GUV2884
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.58 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	89.8	9.8	4.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	129%		56-136%
98-08-8	aaa-Trifluorotoluene	118%		61-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S-11		
Lab Sample ID:	F90674-11	Date Sampled:	02/23/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C SW846 3550C	Percent Solids:	70.6
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL39878.D	1	03/02/12	SJL	02/29/12	OP40780	GLL1536
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	12	4.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		49-108%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S-12		
Lab Sample ID:	F90674-12	Date Sampled:	02/23/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C	Percent Solids:	70.2
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV051546.D	1	03/02/12	CP	n/a	n/a	GUV2884
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.25 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	53.3	11	5.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		56-136%
98-08-8	aaa-Trifluorotoluene	118%		61-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S-12		
Lab Sample ID:	F90674-12	Date Sampled:	02/23/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C SW846 3550C	Percent Solids:	70.2
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL39879.D	1	03/02/12	SJL	02/29/12	OP40780	GLL1536
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	11.4	12	4.7	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		49-108%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	LS-1		
Lab Sample ID:	F90674-13	Date Sampled:	02/23/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C	Percent Solids:	80.9
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV051547.D	1	03/02/12	CP	n/a	n/a	GUV2884
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.13 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	15.8	7.2	3.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		56-136%
98-08-8	aaa-Trifluorotoluene	102%		61-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	LS-2		
Lab Sample ID:	F90674-14	Date Sampled:	02/23/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C	Percent Solids:	76.0
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR066745.D	1	03/05/12	CP	n/a	n/a	GQR2893
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.21 g	5.0 ml	50.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	79.1	14	6.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		56-136%
98-08-8	aaa-Trifluorotoluene	112%		61-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DI-1		
Lab Sample ID:	F90674-15	Date Sampled:	02/23/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C	Percent Solids:	69.4
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR066741.D	1	03/05/12	CP	n/a	n/a	GQR2893
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.87 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	8.3	4.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		56-136%
98-08-8	aaa-Trifluorotoluene	104%		61-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DI-2		
Lab Sample ID:	F90674-16	Date Sampled:	02/23/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C	Percent Solids:	75.6
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV051554.D	1	03/03/12	CP	n/a	n/a	GUV2884
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.69 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	36.3	7.4	3.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	115%		56-136%
98-08-8	aaa-Trifluorotoluene	108%		61-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	LS-3		
Lab Sample ID:	F90674-17	Date Sampled:	02/23/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C	Percent Solids:	84.7
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV051555.D	1	03/03/12	CP	n/a	n/a	GUV2884
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.97 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	12.1	5.1	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		56-136%
98-08-8	aaa-Trifluorotoluene	93%		61-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	LS-3		
Lab Sample ID:	F90674-17	Date Sampled:	02/23/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C SW846 3550C	Percent Solids:	84.7
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL39880.D	1	03/02/12	SJL	02/29/12	OP40780	GLL1536
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	9.7	3.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		49-108%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	LS-4		
Lab Sample ID:	F90674-18	Date Sampled:	02/23/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C	Percent Solids:	77.0
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR066742.D	1	03/05/12	CP	n/a	n/a	GQR2893
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.62 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	10.2	7.3	3.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		56-136%
98-08-8	aaa-Trifluorotoluene	120%		61-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	LS-4		
Lab Sample ID:	F90674-18	Date Sampled:	02/23/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C SW846 3550C	Percent Solids:	77.0
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL39881.D	1	03/02/12	SJL	02/29/12	OP40780	GLL1536
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28) [a]	7.03	11	4.3	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		49-108%

(a) Petroleum hydrocarbon pattern extends beyond C28.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PI-3		
Lab Sample ID:	F90674-19	Date Sampled:	02/23/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C	Percent Solids:	78.0
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV051557.D	1	03/03/12	CP	n/a	n/a	GUV2884
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.8	3.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		56-136%
98-08-8	aaa-Trifluorotoluene	92%		61-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PI-3		
Lab Sample ID:	F90674-19	Date Sampled:	02/23/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C SW846 3550C	Percent Solids:	78.0
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL39882.D	1	03/02/12	SJL	02/29/12	OP40780	GLL1536
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	11	4.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		49-108%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PI-4		
Lab Sample ID:	F90674-20	Date Sampled:	02/23/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C	Percent Solids:	77.7
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR066748.D	1	03/05/12	CP	n/a	n/a	GQR2893
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	5.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	1190	160	79	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		56-136%
98-08-8	aaa-Trifluorotoluene	119%		61-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PI-4		
Lab Sample ID:	F90674-20	Date Sampled:	02/23/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C SW846 3550C	Percent Solids:	77.7
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL39908.D	10	03/03/12	SJL	03/02/12	OP40811	GLL1537
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	1340	110	42	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		49-108%

(a) Outside control limits due to dilution.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PI-5		
Lab Sample ID:	F90674-21	Date Sampled:	02/23/12
Matrix:	SO - Soil	Date Received:	02/25/12
Method:	SW846 8015C	Percent Solids:	80.6
Project:	Alpha Omega; Idlewild, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR066749.D	1	03/05/12	CP	n/a	n/a	GQR2893
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.63 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	7.9	4.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		56-136%
98-08-8	aaa-Trifluorotoluene	104%		61-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (NC)
- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST. LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # F90674

PAGE 1 OF 2

Accutest Quote #	SKIFF#

Client / Reporting Information		Project Information	
Company Name	Phil Thompson	Project Name	A Ω Tellwild 74
Address	2411 Lacy ...	Street	Alpha Omega Idlewild & 74
City	Idle Trail State NC Zip 28079	City / State	
Project Contact	Phil Thompson E-mail philip...	Project #	
Phone #	704-882-3???	Fax #	
Sampler(s) Name(s) (Printed)		Client Purchase Order #	

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI Water	MeOH	GRO	DRO
1	S-1	2/22	12:0	PT												X	
2	S-2	"	12:30	"												X	
3	S-3	"	1:00	"												X	
4	S-4	"	1:30	"												X	
5	S-5	"	2:00	"												X	
6	S-6	"	2:30	"												X	
7	S-7	2/23	10:00	"												X	
8	S-8	"	10:30	"												X	
9	S-9	"	11:00	"												X	
10	S-10	"	11:30	"												X	X
11	S-11	"	12:00	"												X	X
12	S-12	"	12:30	"												X	X

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

LAB USE ONLY

Analytical Information

TURNAROUND TIME (Business Days) — Approved By: / Rush Code

- ☐ 10 Days Standard
- ☐ 7 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 [signature]	2/24 8:30	2 [signature]	3 [signature]	2/24 1500	4 FX
Relinquished by: 5 FX 02-25-12	Date Time: 0930	Received By: 02-25-12 0930 6 [signature] ALSE	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 2.6

4.1

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F90674: Chain of Custody
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Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

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www.accutest.com

Accutest JOB # F90674 PAGE 2 OF 2

Client / Reporting Information	Project Information	Accutest Quote #	SKIFF#
Company Name: Pat Thompson	Project Name: KQ		
Address: 2411 Longue Drive	Street:		
City: Fort Pierce State: FL Zip: 34984	City: State:		
Project Contact: Patricia Thompson Email:	Project #:		
Phone: 772-882-2768	Fax #:		
Sampler(s) Name(s) (Printed): Pat Thompson	Client Purchase Order #		

Analytical Information: GRO, DRO

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	Total # of Bottles	Container Information	GRO	DRO
13	LS-1	02/23	1:00	PT				X	
14	LS-2	"	1:30	"				X	
15	DI-1	"	2:00	"				X	
16	PI-2	"	2:30	"				X	
17	LS-3	"	2:45	"				X	X
18	LS-4	"	3:00	"				X	X
19	PI-3	"	3:30	"				X	X
20	PI-4	"	3:45	"				X	X
21	PI-5	"	4:00	"				X	X

LAB USE ONLY

TURNAROUND TIME (Business Days) — Approved By: / Rush Code

- [ ] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Labiink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
	2/24 8:30		3	2/24 8:30	4
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5 FX 02-25-12	0930	02-25-12 0930	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 2.6

4.1

F90674: Chain of Custody
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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F90674 CLIENT: Phil Thompson PROJECT: Alpha Omega

DATE/TIME RECEIVED: 02-25-12 0930 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8986 3340 0047

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [X] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [✓] TRIP BLANK NOT PROVIDED
- [✓] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 2.8
- [ ] CORRECTED TEMPS: 2.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: No Matrix Marked (Soil)
SAMPLE DATES/TIMES MISSING FROM ALL SAMPLE LABELS

TECHNICIAN SIGNATURE/DATE: K. Williams 02-25-12 REVIEWER SIGNATURE/DATE: 02/25/12

NF 12/10 receipt confirmation 122910.xls

4.1

F90674: Chain of Custody
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Southeast ACCUTEST LABORATORIES

GC

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F90674
Account: TGNCIT Thompson Geological
Project: Alpha Omega; Idlewild, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV2884-MB	UV051532.D	1	03/02/12	CP	n/a	n/a	GUV2884

5.1.1

The QC reported here applies to the following samples: Method: SW846 8015C

F90674-1, F90674-2, F90674-3, F90674-4, F90674-5, F90674-6, F90674-7, F90674-11, F90674-12, F90674-13, F90674-16, F90674-17, F90674-19

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	90%	56-136%
98-08-8	aaa-Trifluorotoluene	99%	61-121%

Method Blank Summary

Job Number: F90674
Account: TGNCIT Thompson Geological
Project: Alpha Omega; Idlewild, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR2893-MB	QR066737.D	1	03/05/12	CP	n/a	n/a	GQR2893

5.1.2

The QC reported here applies to the following samples: Method: SW846 8015C

F90674-8, F90674-9, F90674-10, F90674-14, F90674-15, F90674-18, F90674-20, F90674-21

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	92%	56-136%
98-08-8	aaa-Trifluorotoluene	101%	61-121%

Blank Spike Summary

Job Number: F90674
Account: TGNCIT Thompson Geological
Project: Alpha Omega; Idlewild, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV2884-BS	UV051531.D	1	03/02/12	CP	n/a	n/a	GUV2884

5.2.1

The QC reported here applies to the following samples: Method: SW846 8015C

F90674-1, F90674-2, F90674-3, F90674-4, F90674-5, F90674-6, F90674-7, F90674-11, F90674-12, F90674-13, F90674-16, F90674-17, F90674-19

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	23.5	118	74-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	108%	56-136%
98-08-8	aaa-Trifluorotoluene	112%	61-121%

Blank Spike Summary

Job Number: F90674
Account: TGNCIT Thompson Geological
Project: Alpha Omega; Idlewild, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR2893-BS	QR066736.D	1	03/05/12	CP	n/a	n/a	GQR2893

5.2.2

The QC reported here applies to the following samples: Method: SW846 8015C

F90674-8, F90674-9, F90674-10, F90674-14, F90674-15, F90674-18, F90674-20, F90674-21

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	23.7	119	74-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	111%	56-136%
98-08-8	aaa-Trifluorotoluene	108%	61-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F90674
Account: TGNCIT Thompson Geological
Project: Alpha Omega; Idlewild, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F90674-1MS	UV051560.D	1	03/03/12	CP	n/a	n/a	GUV2884
F90674-1MSD	UV051561.D	1	03/03/12	CP	n/a	n/a	GUV2884
F90674-1	UV051533.D	1	03/02/12	CP	n/a	n/a	GUV2884

5.3.1

The QC reported here applies to the following samples: Method: SW846 8015C

F90674-1, F90674-2, F90674-3, F90674-4, F90674-5, F90674-6, F90674-7, F90674-11, F90674-12, F90674-13, F90674-16, F90674-17, F90674-19

CAS No.	Compound	F90674-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		37.4	45.7	122*	44.6	119	2	74-121/17

CAS No.	Surrogate Recoveries	MS	MSD	F90674-1	Limits
460-00-4	4-Bromofluorobenzene	116%	95%	89%	56-136%
98-08-8	aaa-Trifluorotoluene	90%	102%	103%	61-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F90674
Account: TGNCIT Thompson Geological
Project: Alpha Omega; Idlewild, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F90674-15MS	QR066750.D	1	03/05/12	CP	n/a	n/a	GQR2893
F90674-15MSD	QR066751.D	1	03/05/12	CP	n/a	n/a	GQR2893
F90674-15	QR066741.D	1	03/05/12	CP	n/a	n/a	GQR2893

The QC reported here applies to the following samples: Method: SW846 8015C

F90674-8, F90674-9, F90674-10, F90674-14, F90674-15, F90674-18, F90674-20, F90674-21

CAS No.	Compound	F90674-15 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		33.4	40.3	121	40.7	122*	1	74-121/17

CAS No.	Surrogate Recoveries	MS	MSD	F90674-15	Limits
460-00-4	4-Bromofluorobenzene	111%	110%	93%	56-136%
98-08-8	aaa-Trifluorotoluene	113%	119%	104%	61-121%

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F90674
Account: TGNCIT Thompson Geological
Project: Alpha Omega; Idlewild, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40780-MB	LL39855.D	1	03/02/12	SJL	02/29/12	OP40780	GLL1536

The QC reported here applies to the following samples: Method: SW846 8015C

F90674-10, F90674-11, F90674-12, F90674-17, F90674-18, F90674-19

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	83%	49-108%

Method Blank Summary

Job Number: F90674
Account: TGNCIT Thompson Geological
Project: Alpha Omega; Idlewild, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40811-MB	LL39907.D	1	03/03/12	SJL	03/02/12	OP40811	GLL1537

The QC reported here applies to the following samples: Method: SW846 8015C

F90674-20

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	94%	49-108%

Method Blank Summary

Job Number: F90674
Account: TGNCIT Thompson Geological
Project: Alpha Omega; Idlewild, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40811-MB	LL39907.D	1	03/03/12	SJL	03/02/12	OP40811	GLL1537

The QC reported here applies to the following samples: Method: SW846 8015C

F90674-20

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	94%	49-108%

Blank Spike Summary

Job Number: F90674
Account: TGNCIT Thompson Geological
Project: Alpha Omega; Idlewild, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40780-BS	LL39854.D	1	03/01/12	SJL	02/29/12	OP40780	GLL1536

The QC reported here applies to the following samples: Method: SW846 8015C

F90674-10, F90674-11, F90674-12, F90674-17, F90674-18, F90674-19

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C28)	33.3	25.1	75	60-107

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	79%	49-108%

Blank Spike Summary

Job Number: F90674
Account: TGNCIT Thompson Geological
Project: Alpha Omega; Idlewild, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40811-BS	LL39906.D	1	03/03/12	SJL	03/02/12	OP40811	GLL1537

The QC reported here applies to the following samples: Method: SW846 8015C

F90674-20

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C28)	33.3	26.8	80	60-107

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	85%	49-108%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F90674
Account: TGNCIT Thompson Geological
Project: Alpha Omega; Idlewild, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40780-MS	LL39864.D	1	03/02/12	SJL	02/29/12	OP40780	GLL1536
OP40780-MSD	LL39865.D	1	03/02/12	SJL	02/29/12	OP40780	GLL1536
F90663-30	LL39863.D	1	03/02/12	SJL	02/29/12	OP40780	GLL1536

The QC reported here applies to the following samples: Method: SW846 8015C

F90674-10, F90674-11, F90674-12, F90674-17, F90674-18, F90674-19

CAS No.	Compound	F90663-30 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	4.91	J	38.5	29.4	64	27.5	59*	7	60-107/36

CAS No.	Surrogate Recoveries	MS	MSD	F90663-30	Limits
84-15-1	o-Terphenyl	76%	72%	74%	49-108%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F90674
Account: TGNCIT Thompson Geological
Project: *Alpha Omega; Idlewild, NC*

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40811-MS	LL39920.D	1	03/03/12	SJL	03/02/12	OP40811	GLL1537
OP40811-MSD	LL39921.D	1	03/03/12	SJL	03/02/12	OP40811	GLL1537
F90725-2	LL39910.D	1	03/03/12	SJL	03/02/12	OP40811	GLL1537

The QC reported here applies to the following samples: Method: SW846 8015C

F90674-20

CAS No.	Compound	F90725-2 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	ND		40.6	33.7	83	30.3	75	11	60-107/36

CAS No.	Surrogate Recoveries	MS	MSD	F90725-2	Limits
84-15-1	o-Terphenyl	87%	81%	78%	49-108%

Blank Spike Summary

Job Number: F90674
Account: TGNCIT Thompson Geological
Project: Alpha Omega; Idlewild, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40780-BS	LL39854.D	1	03/01/12	SJL	02/29/12	OP40780	GLL1536

The QC reported here applies to the following samples: Method: SW846 8015C

F90674-10, F90674-11, F90674-12, F90674-17, F90674-18, F90674-19

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C28)	33.3	25.1	75	60-107

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	79%	49-108%

Blank Spike Summary

Job Number: F90674
Account: TGNCIT Thompson Geological
Project: Alpha Omega; Idlewild, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40811-BS	LL39906.D	1	03/03/12	SJL	03/02/12	OP40811	GLL1537

The QC reported here applies to the following samples: Method: SW846 8015C

F90674-20

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C28)	33.3	26.8	80	60-107

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	85%	49-108%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F90674
Account: TGNCIT Thompson Geological
Project: Alpha Omega; Idlewild, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40780-MS	LL39864.D	1	03/02/12	SJL	02/29/12	OP40780	GLL1536
OP40780-MSD	LL39865.D	1	03/02/12	SJL	02/29/12	OP40780	GLL1536
F90663-30	LL39863.D	1	03/02/12	SJL	02/29/12	OP40780	GLL1536

The QC reported here applies to the following samples: Method: SW846 8015C

F90674-10, F90674-11, F90674-12, F90674-17, F90674-18, F90674-19

F90663-30	Spike	MS	MS	MSD	MSD	Limits

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F90674
Account: TGNCIT Thompson Geological
Project: Alpha Omega; Idlewild, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40811-MS	LL39920.D	1	03/03/12	SJL	03/02/12	OP40811	GLL1537
OP40811-MSD	LL39921.D	1	03/03/12	SJL	03/02/12	OP40811	GLL1537
F90725-2	LL39910.D	1	03/03/12	SJL	03/02/12	OP40811	GLL1537

The QC reported here applies to the following samples: Method: SW846 8015C

F90674-20

CAS No.	Compound	F90725-2 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	ND		40.6	33.7	83	30.3	75	11	60-107/36

CAS No.	Surrogate Recoveries	MS	MSD	F90725-2	Limits
84-15-1	o-Terphenyl	87%	81%	78%	49-108%

Southeast
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LABORATORIES

Technical Report for

Thompson Geological

2512 Normandin

Accutest Job Number: F90077

Sampling Date: 02/02/12

Report to:

Thompson Geological
2411 Lawyers Rd W
Indian Trail, NC 28079
philip_thom@msn.com

ATTN: Phil Thompson

Total number of pages in report: 13

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Muna Mohammed 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

Thompson Geological

2512 Normandin

Job No: F90077

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F90077-1	02/02/12	16:00	PT	02/04/12	SO	Soil	CS-1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Thompson Geological	Job	F90077
Site:	2512 Normandin	Report Date	2/8/2012 1:52:54 PM

1 Sample was collected on 02/02/2012 and was received at Accutest on 02/04/2012 properly preserved, at 2.8 Deg. C and intact. This Sample received an Accutest job number of F90077. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GC By Method SW846 8015C

Matrix: SO Batch ID: OP40429

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F90077-1MS, F90077-1MSD were used as the QC samples indicated.

Matrix Spike and Matrix Spike Duplicate Recovery(s) for TPH (C10-C28) are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.
Sample(s) F90077-1, OP40429-MS, OP40429-MSD have surrogates outside control limits due to dilution caused by level of TPH exceeding calibration curve range

Wet Chemistry By Method SM19 2540G

Matrix: SO Batch ID: GN48327

Sample F89969-1DUP was used as the QC sample for Solids, Percent.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Kim Benham, Client Services (signature on file)

Date: February 8, 2012

Southeast
ACCUTEST
LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	CS-1		
Lab Sample ID:	F90077-1	Date Sampled:	02/02/12
Matrix:	SO - Soil	Date Received:	02/04/12
Method:	SW846 8015C SW846 3550C	Percent Solids:	81.3
Project:	2512 Normandin		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL39360.D	400	02/06/12	SJL	02/06/12	OP40429	GLL1517
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	15500	4000	1600	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		49-108%

(a) Outside control limits due to dilution.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (NC)
- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

F90077

Accutest JOB # PAGE ____ OF ____

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: Phil Thompson P.G.
Address: 2811 Lawyers Rd W.
City: Indian Trail State: N.C. Zip: 28079
Project Contact: Phil T Email: phil@phillthompsonpg.com
Phone#: 704. 882 - 2258
Sampler(s) Name(s) (Printed): PHIL Thompson

Project Information

Project Name: 2512 Normandie
Street:
City: State:
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

DRO X

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Collection: DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	Container Information	LAB USE ONLY
1	CS-1	2/2	1400	MT	Sol	1		

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [ ] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [x] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

2828 C ACCUTEST QUEEN CT / DR QL1 NC 28273

Comments / Remarks

Rush

Sample Custody must be documented below each time samples change possession, including courier delivery.

1 Relinquished by Sampler:	Date Time: 2/3 10:15	2 Received By:	3 Relinquished by:	Date Time: 2/3 5PM	4 Received By: FX		
5 Relinquished by: FX 2-4-12	Date Time: 0900	6 R. Wilson MCSE	7 Relinquished by:	Date Time:	8 Received By:		

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 2.8

F90077: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F90077 CLIENT: Phil Thompson PROJECT: 2512 Normolia

DATE/TIME RECEIVED: 2-4-12 0900 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8986 3539 4699

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS? _____

NUMBER OF LAB FILTERED METALS? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.0
- [ ] CORRECTED TEMPS: 2.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE: R. Wilson 2-4-12 REVIEWER SIGNATURE/DATE: C. 2-4-12

NF 12/10 receipt confirmation 122910.xls

4.1

4

F90077: Chain of Custody
Page 2 of 2

Southeast ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F90077
Account: TGNCIT Thompson Geological
Project: 2512 Normandin

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40429-MB	LL39351.D	1	02/06/12	SJL	02/06/12	OP40429	GLL1517

The QC reported here applies to the following samples: Method: SW846 8015C

F90077-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	87%	49-108%

Blank Spike Summary

Job Number: F90077
Account: TGNCIT Thompson Geological
Project: 2512 Normandin

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40429-BS	LL39350.D	1	02/06/12	SJL	02/06/12	OP40429	GLL1517

5.2.1

The QC reported here applies to the following samples: Method: SW846 8015C

F90077-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C28)	33.3	30.9	93	60-107

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	92%	49-108%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F90077
Account: TGNCIT Thompson Geological
Project: 2512 Normandin

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40429-MS	LL39361.D	400	02/06/12	SJL	02/06/12	OP40429	GLL1517
OP40429-MSD	LL39362.D	400	02/06/12	SJL	02/06/12	OP40429	GLL1517
F90077-1	LL39360.D	400	02/06/12	SJL	02/06/12	OP40429	GLL1517

The QC reported here applies to the following samples: Method: SW846 8015C

F90077-1

CAS No.	Compound	F90077-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	15500		41.1	14400	-2674* [a]	15100	-982* [a]	5	60-107/36

CAS No.	Surrogate Recoveries	MS	MSD	F90077-1	Limits
84-15-1	o-Terphenyl	0%* [b]	0%* [b]	0%* [b]	49-108%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Outside control limits due to dilution.