# UNDERGROUND STORAGE TANK CLOSURE FLOWERS STORE ON NC HIGHWAY 42 EAST CLAYTON, NORTH CAROLINA



## Underground Storage Tank Closure Flowers Store on NC Highway 42 East Clayton, North Carolina

For Mr. Tommy Thompson Action Oil Equipment Company Zebulon, North Carolina

By
Froehling & Robertson, Inc.
Raleigh, North Carolina

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## FROEHLING & ROBERTSON, INC.

GEOTECHNICAL • ENVIRONMENTAL • MATERIALS ENGINEERS • LABORATORIES "OVER ONE HUNDRED YEARS OF SERVICE"

P. O. Box 2551, Raleigh, NC 27602

Telephone: (919) 828-3441 FAX No.: (919) 828-5751

September 29, 1994

Mr. Tommy Thompson Action Oil Company Route 1, Box 280D Zebulon, North Carolina 27597

Re: Underground Storage Tank Closure

Flowers Store on N.C. 42 East

Clayton, North Carolina

Dear Mr. Thompson:

Froehling & Robertson, Inc. (F&R) is pleased to submit the results of the underground storage tank (UST) closure performed at the above referenced site on August 29, 1994. Froehling & Robertson, Inc. served as the environmental consultant for this project under direct contract with Action Oil Equipment Company (Action Oil).

#### 1.0 PROJECT INFORMATION

The project site is located on N.C. 42 three miles east of Clayton, North Carolina (see Drawing No. 1 in Appendix A). The three USTs at this site were removed by Action Oil Company of Zebulon, North Carolina. The regional Division of Environmental Management (DEM) office was notified of the removal by the DFR in accordance with DEM Form GW/UST-3.

The USTs at this site are registered as a 8,000 gallon UST (UST No. 1, gasoline: unknown installation date), a 1,000 gallon UST (UST No. 2, kerosene/diesel; unknown installation date) and a 6,000 gallon UST (UST No. 3, diesel; unknown installation date).

HEADQUARTERS: 3015 DUMBARTON ROAD • BOX 27524 • RICHMOND, VA 23261-7524 TELEPHONE (804) 264-2701 • FAX (804) 264-1202

BRANCHES:

ASHEVILLE, NC • BALTIMORE, MD • CHARLOTTE, NC • CHESAPEAKE, VA CROZET, VA • FAYETTEVILLE, NC • FREDERICKSBURG, VA GREENVILLE, SC • RALEIGH, NC • ROANOKE, VA • STERLING, VA



2

The UST locations are presented on Drawings No. 3 and No. 4 which are located in Appendix A of this report. The USTs had been temporarily closed for some time and all product was removed from the tank at that time, with the exception of UST-3 which contained approximately 2,000 gallons of diesel fuel. Action Oil removed the fuel and transported the diesel fuel to Noble Oil for disposal. The fuel dispensers and concrete dispenser pad also had not been removed. The end of each UST was within about 5 to 8 feet of the dispenser pad.

Public water is not available to the surrounding area. The area within 1,500 feet of the site is sparsely populated. There are four (4) residences within 1500 feet of the site. None of the residents in the surrounding area reported a petroleum taste or odor in their well water.

## 2.0 <u>CLOSURE ACTIVITIES</u>

The USTs were removed on August 29 and 30, 1994. The North Carolina Division of Environmental Management (DEM) was notified by the Action oil prior to removal of the UST. The local fire marshall was contacted and informed of the planned UST removal. All of the UST closure activities were performed in general accordance with the DEM guidelines for permanent UST closure (15A NCAC 2N .0801 to .0805), the activities required by DEM Form GW/UST-2, the American Petroleum Institute (API) Publications 1604 and 2015 and the National Institute for Occupational Safety and Health (NIOSH) publication "Criteria for a Recommended Standard: Working in Confined Spaces". The UST removal and disposal was performed by Action Oil. An OSHA Health and Safety trained geologist and/or environmental technician from F&R was on-site at all times of the removal process to document and verify the closure activities.

The USTs had been temporarily closed for some time and were empty of free product at the time of the removal activities, except for UST-3 which contained approximately 2,000 gallons of diesel fuel. Action Oil pumped the diesel fuel into a holding tank and transported it to Noble Oil.





Initially, a hole was excavated down to the top of the USTs and the vent and fill pipes were removed. The USTs were then purged with compressed air to remove explosive vapors. After each UST had been purged, it was removed and a hole was cut into the end such that all of the sludge could be removed. Each UST was inspected by F&R. There was no evidence of holes or leaks in the USTs or product piping. Some severe pitting was present. After the USTs were accessed and the sludge was removed, the USTs were cut into pieces, loaded on a dump truck and hauled to K & L Scrap Metal Company in Raleigh, NC for disposal (see Tank Removal/Disposal Certificate in Appendix B).

During the excavation the soil samples were scanned with a HNU photoionization detector (PID) unit. The PID scans were performed to help detect the presents of organic vapors in the soil samples. Soil samples from the excavation were placed in glass jars which were tightly covered with foil. The tip of the PID was inserted through the foil into each jar and the total volatile organic concentrations were measured in parts per million.

Soil samples were collected by F&R in accordance with current DEM protocol. The soil samples were obtained from the backhoe bucket using a stainless steel scoop. The scoop was cleaned in a soap solution and double rinsed between each sample. All of the soil samples were immediately placed in pre-cleaned glass jars with vapor/fluid tight teflon lids. The jars were completely filled before capping.

All of the samples were stored on ice in a cooler and shipped overnight to the chemical analysis laboratory. EPA recommended chain-of-custody procedures were maintained throughout the sampling and analysis program.

#### 2.1 UST REMOVAL



The USTs were removed without major problems. Approximately 24 inches of earth was encountered over each of the USTs. The soils within the UST excavation consisted if reddish-tan and red clayey silts. Groundwater was not encountered in any of the UST excavations.

There was no olfactory evidence of soil contamination above or around the USTs. A mild odor was noted along the bottom of the 1,000 gallon kerosene/diesel UST (UST-2). The PID readings were on the order of 200 ppm which closely approximates the SSE action level. A Site Sensitivity Evaluation (SSE) was performed at this site. A cleanup level of 160 ppm for diesel was determined.

There was no visual evidence of leaks or holes on any of the USTs. Some severe pitting was noted. The product piping connections appeared to be in good condition and there was no evidence of staining or odors around the piping/UST connections.

Two soil samples were obtained at depths of 1.5 to 2 feet below each UST for chemical analysis in accordance with DEM protocol. The analytical chemical test results appear in Appendix C. The soil sample locations are shown on Drawing No. 4 in Appendix A. A summary of the field and laboratory results is as follows:

UST 1 - 8,000 GALLON GASOLINE										
Lab Sample	Field Sample	Location	Depth	PID (ppm)	TPH Method 5030 (ppm)	TPH Method 3550 (ppm)				
S-1	UST1-1	North	12'	0	<5	-				
S-2	UST1-2	Center	12'	0	<5	8				
S-3	UST1-3	South	12'	0	< 5	-				



	UST 2 - 1,000 GALLON KEROSENE/DIESEL										
Lab Sample	Field Sample	Location	1 1		TPH Method 5030 (ppm)	TPH Method 3550 (ppm)					
S-4	UST2-1	West	8'	50	567	11,100					
S-5	UST2-2	East	8'	200	2,900	17,800*					

<sup>\*</sup> Lab re-tested sample, result was 11,000 ppm.

UST 3 - 6,000 GALLON DIESEL										
Lab Sample	Field Sample	Location	Depth	PID (ppm)	TPH Method 5030 (ppm)	TPH Method 3550 (ppm)				
S-6	UST3-1	North	10'	2.4	<5	18				
S-7	UST3-2	Center	10'	7.2	<5	21				
S-8	UST3-3	South	10'	113	<5	90				

# 2.2 <u>DISPENSER ISLAND/PRODUCT PIPING</u>

As previously noted, the dispenser island had not been removed prior to the UST removal activities. Two samples were obtained beneath the three dispensers which were all located on the same dispenser island. The PID and analytical chemical results are as follows:

DISPENSER ISLAND										
Lab Sample	Field Sample	Location	Depth	PID (ppm)	TPH Method 5030 (ppm)	TPH Method 3550 (ppm)				
S-9	Gas-1	Center	2'	0	<5	-				
S-10	Gas-2	Center	2'	16	<5	-				
S-11	Diesel	Center	2'	2	<5	<8				



Since the dispensers were located within 5 to 8 feet of the USTs soil samples were not obtained for analytical testing on the product piping. F&R inspected the area around the product piping. There was no evidence of petroleum odors or leaks.

## 3.0 CONCLUSIONS

Based on F&R's observations and documentation of the UST closure activities, it is our opinion that the closure activities were performed in substantial accordance with DEM, API and NIOSH guidelines. DEM Form GW/UST-2 has been completed and is included with this report in Appendix B.

Although there was no obvious evidence of contamination in the field, the analytical chemical test data indicated a number of elevated TPH-High boiling point (diesel) measurements. Since these measurements were above the minimum DEM action levels (10 ppm-gasoline, 40 ppm-diesel), a site sensitivity analysis was performed. The site sensitivity analysis (included in Appendix D) indicated an action level of 160 ppm for diesel soil contamination, respectively for this site. Based on this criteria, two of the analytical chemical results are above the DEM action level.

It is our conclusion that a leak has occurred from UST-2. We recommend that the contaminated soil above the SSE action level should be removed and transported to a DEM approved facility. Further action with respect to UST-1 and UST-3 is not recommended.

#### 4.0 LIMITATIONS

This report has been prepared for the exclusive use of the North Carolina Division of Forest Resources and/or their assignees. This report has been prepared in accordance with generally accepted environmental practices. No other warranty, expressed or implied, is made. This report should not be construed in any way to indicate F&R's recommendation to either purchase, sell or develop the project site. F&R by virtue of providing the services described in this report,



does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state or federal public agencies any conditions at the site that may present a potential danger to public health, safety or the environment.

F&R appreciates the opportunity to have served you as your environmental consultant on this project. If you have any questions regarding this report or if we can be of further assistance to you, please do not hesitate to contact us.

Very truly yours,

FROEHLING & ROBERTSON, INC.

Michael J. Burns Staff Geologist

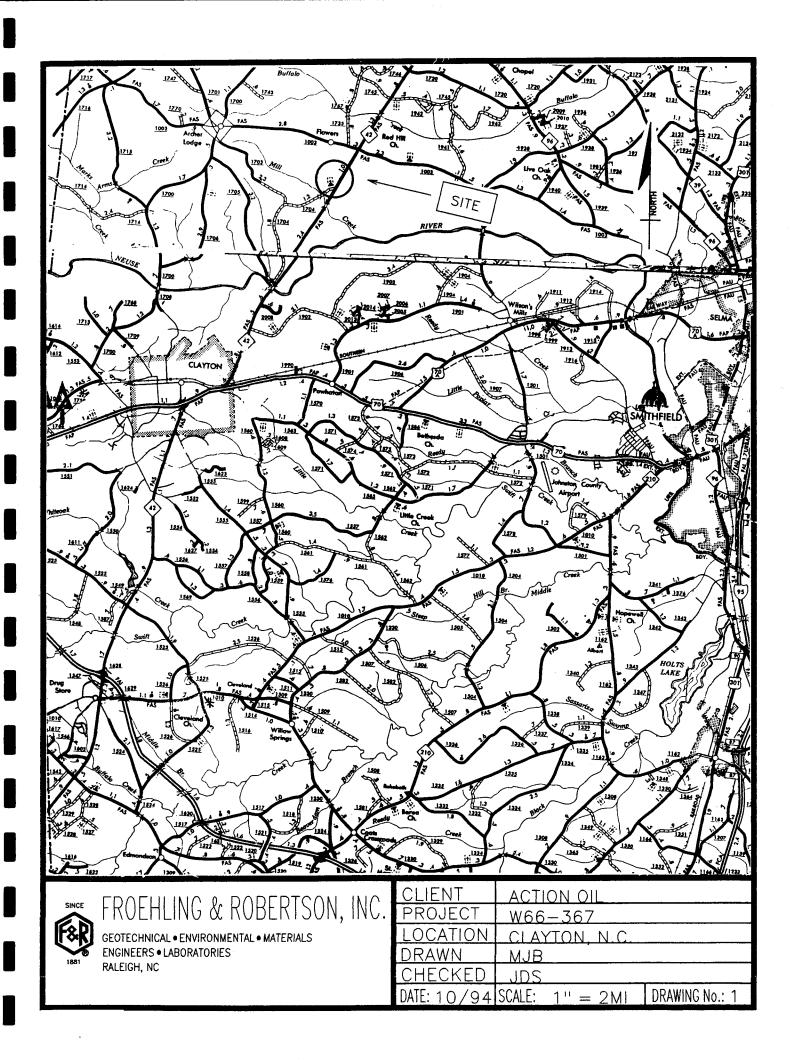
J.D. Solomon, P.E.

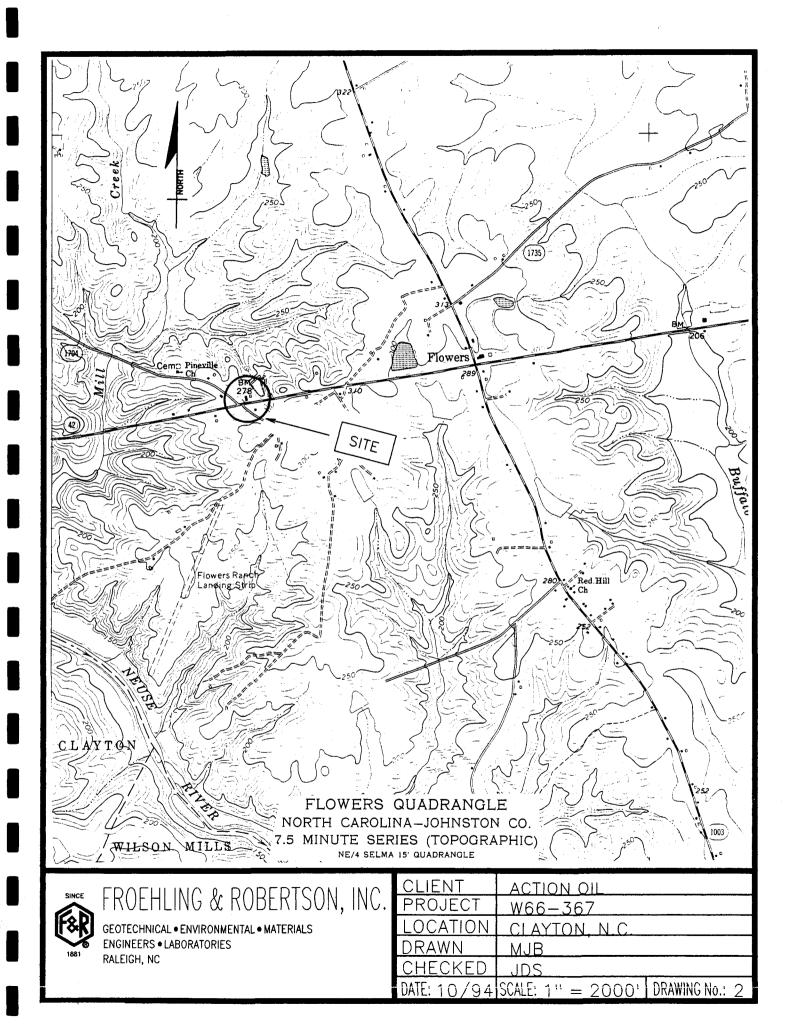
Project Manager

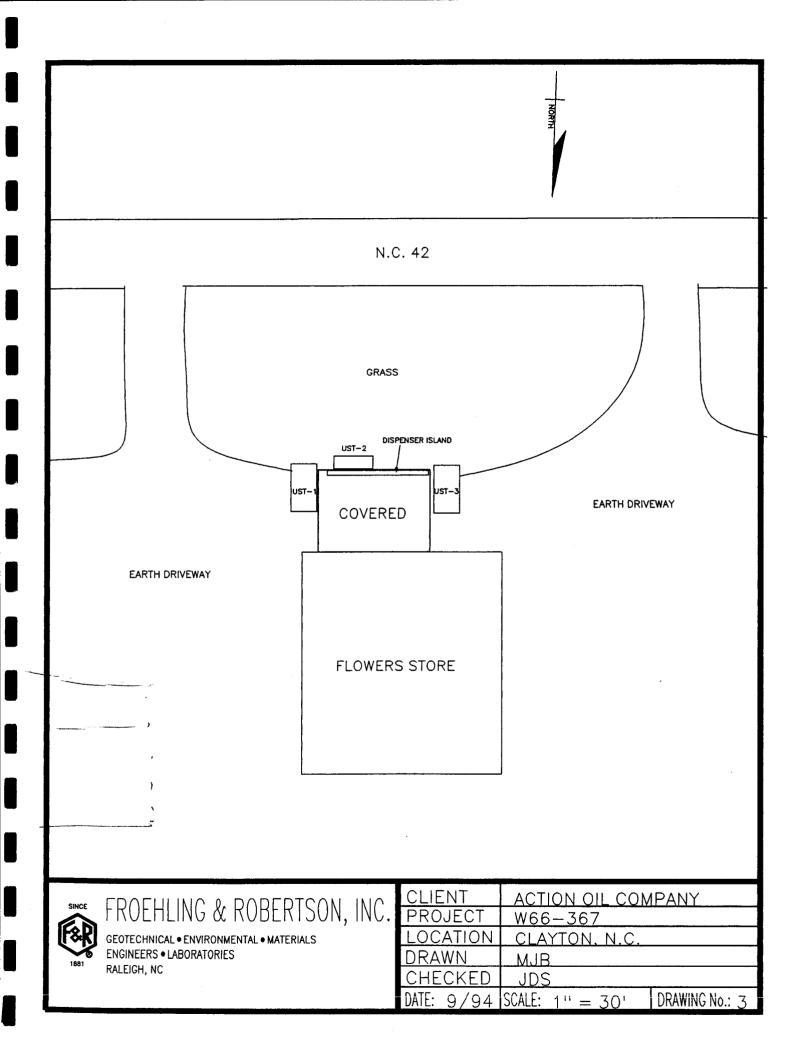
MJB/JDS:mc

APPENDIX A

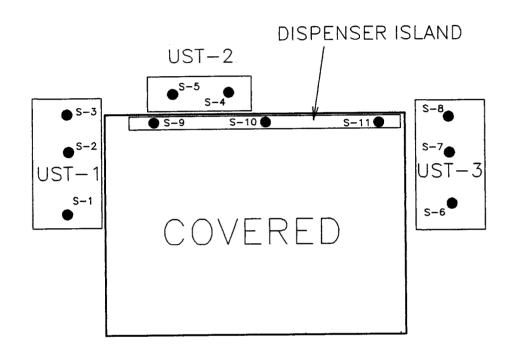
**DRAWINGS** 







NORTH





# FROEHLING & ROBERTSON, INC.

GEOTECHNICAL • ENVIRONMENTAL • MATERIALS ENGINEERS • LABORATORIES RALEIGH, NC

CLIENT	ACTION OIL COMPANY
PROJECT	W66-367
LOCATION	CLAYTON, N.C.
DRAWN	MJB
CHECKED	JDS
DATE: 9/94	SCALE: 1'' = 20' DRAWING No.: 4

# APPENDIX B

TANK DISPOSAL CERTIFICATE AND DEM FORM GW/UST-2



TANK DISPOSAL CERTIFICATE

7-	29 + 8/31/94		
OWNER'S NAME: Mrs.	Gladys I-lowers	· •	
LOCATION OF JOB SITE:	Jimmy Flowers S Itwy 42 Clay.hm	Tace	
QUANTITY	NN ES	CONTENTS	
$\mathcal{A}$	8.000 Gal	lon gas	
	8,000 gal	lm ciesel	7
			<del></del>
en e	····		
TANK(S) DISPOSED OF AT	: KLLScray	p Metal	~
		[[]	Tura
•	Ko	ction Oil Equipment	Officer

011	(/IOT-0-	-04	Investigation Day		or Do		ont-6	leevee	on Ob	ones in Comiss of U.C.T.		
F( TAI I	NKS   Th N [SI	turn Completed For e appropriate DEM F		to the c	county o	of the fa	cility's l	ocation.	State Use Only I.D. Number Date Received			
IV	C	, , , , , , , , , , , , , , , , , , , ,		INST	RUCTIC	NS						
			Complete and return within				oletion of	site inves	tigation.			
		. Ownership of Tan	k(s)					11. 1	Location	of Tank(s)		
Owne	r Name:	Mrs. Gladys F	lowers			Facili	ty Name	; F1c	owers :	Store		
Corpora		ublic Agency, or Other Entity) NC Highway 42			·   -	(or Con	npany)	f available	):			
Count		Johnston			`   <sup>-</sup>		t Addres	N.C	Highw	ay 42		
City:	Clayto	n <sub>State:</sub> NC	Zip Code: 2752	0		(or Stat	e Road) ty: Jo	hnstor	ı City	y:Clayton Zip Code: 27520		
Telepl	one Number	:()			_	Telep	hone Nu	-				
		(Area Code)		III. Co	ntact P	Parson		(Ai	rea Code)			
		The same story	Job Title: (				i 1			Tel. No. : (919) 365-3746		
Name:		ny Thompson						ahulan	NC	Tel. No. (919) 365-3746		
		Tommy Thompson						leigh		Tel. No. (919) 828-3441		
	/ Consultant:	Froehling & R			<del></del>			leigh		Tel. No. (919) 828-3441		
Lab:		Froehling & R V. U.S.T. Information		310			n Cond		NO	VI. Additional Information Required		
Tank	Size in	Tank	Last		ater in avation	Fre Prod			Odor or Contamination	Soo royarsa sida af piak cany		
No.	Gallons	Dimensions	Contents	Yes	No	Yes	No	Yes	No	(owner's copy) for additional		
1	8,000	8' ø x 22'	Gasoline		х		х		х	information required by N.C DEM in the written report and sketch.		
2	1,000	4' 6 x 12'	Diesel/Kerosene		x		x	х		NOTE: The site assessment portion		
3	6,000	8' ø x 15'	Diesel		x		x		x	of the tank closure must be con- ducted under the supervision of a		
										Professional Engineer or Licensed Geologist. After Jan.1, 1994, all		
					<del> </del>					closure site assessment reports		
										must be signed and sealed by a P.E. or L.G.		
			VII. Check List	Chor	k tha s	ctivitio	e comr	oleted)				
					K lile a	Cuville	s comp	neted)				
X X X	Contact loc Notify DEM Drain & flui Remove al Excavate c Clean and Remove di	cal fire marshal.  I Regional Office before sh piping into tank.  I product and residuals lown to tank. inspect tank. cop tube, fill pipe, gauge	from tank.  pipe, vapor recovery tank co		ons,	AI	Fill Plu	g or cap al connect ar	material ov Il openings nd cap or r	verflows tank opening. s. remove vent line. d - specify:		
<u>x</u>	Cap or plug Purge tank Cut one or Backfill the Date Tank	(s) Permanently close	nt and fill lines. able vapors. tanks.				X Lab X Dis Fina	eate vent h bel tank. pose of tar al tank des	nk in approstination:	oved manner. Scrap -		
	Date of Ch	nange-in-Service:						K & L	Scrap	Metal		
docur subm	nents, and itted inforn	that based on my nation is true, accu	have personally examininguity of those individuate, and complete.  Ber's authorized representative	ned an uals im	d am f	amiliar	with the	ne inform	nation subtaining	ubmitted in this and all attached the information, I believe that the		
J	. D. So	lomon, P.E., P	roject Manager			///	A	J. X.	m	- 9/30/94		
GW/U	ST-2 (Rev	·.12/01/93)	White Copy	y - Regio	onal Offi	<b>d</b> e	Ye	llow Capy	- Central	Office Pink Copy - Owner		

APPENDIX C

CHEMICAL ANALYSIS RESULTS



# FROEHLING & ROBERTSON, INC.

GEOTECHNICAL . ENVIRONMENTAL . MATERIALS **ENGINEERS • LABORATORIES** "OVER ONE HUNDRED YEARS OF SERVICE"

**CERTIFICATE OF ANALYSIS** 

September 19, 1994

Page 1 of 1

LAB #: **CLIENT:**  9409027 F&R Raleigh

Attn: J.D. Solomon

**PROJECT:** 

**Action Oil-Jimmy Flowers** 

PROJECT #:

W66-367

**SAMPLE COLLECTOR:** 

C. Seabright, M. Burns

LAB RECEIPT:

9/03/94, 1445

PA	RA	M	EΤΙ	ΞR

#### **ANALYSIS DATE/TIME**

#### **METHOD**

**ANALYST** 

TPH-GC Low BP TPH-GC High BP

9/08/94,1052 9/09/94,1349 SW846/5030/8015 CAL/SW846/8015M KR/IS KR

#### **RESULTS:**

F&R #:	SAMPLE ID:	TYPE:	DATE/TIME:	TPH-GC Low BP:	TPH-GC High BP:
9409027-01 9409027-02	UST-1,N UST-1,C	Soil/Grab	8/29/94,1150 8/29/94,1200 8/29/94,1210	BDL BDL BDL	
9409027-03 9409027-04 9409027-05	UST-1,S UST-2,W UST-2,E	Soil/Grab Soil/Grab Soil/Grab	8/29/94,1325 8/29/94,1330	567 mg/kg 2,900 mg/kg	11,100 mg/kg 17,800 mg/kg
9409027-06 9409027-07	UST-3,N UST-3,C	Soil/Grab Soil/Grab	8/30/94,1010 8/30/94,1012	BDL BDL	18 mg/kg 21 mg/kg
9409027-08 9409027-09 9409027-10	UST-3,S Gas-1,Pump Is. Gas-2,Pump Is.	Soil/Grab Soil/Grab Soil/Grab	8/30/94,1015 8/30/94,1033 8/30/94,1035	BDL BDL BDL	90 mg/kg
9409027-11	Diesel, Pump Is.	Soil/Grab	8/30/94,1030	BDL	BDL
			Det'n Limit:	5 mg/k <b>g</b>	8 mg/kg

Soil results are reported on dry weight basis unless otherwise noted.

\* 9409027-05 TPH HBP Rerun 9/15/94, 0740, Result 11,000 mg/kg.

mg/kg: Milligram per kilogram

**BDL:** Below detection limit

Audrey N. Brubeck **Laboratory Supervisor** 

AB/cb

HEADQUARTERS: 3015 DUMBARTON ROAD • BOX 27524 • RICHMOND, VA 23261-7524

TELEPHONE (804) 264-2701 • FAX (804) 264-1202

**BRANCHES:** 

ASHEVILLE, NC . BALTIMORE, MD . CHARLOTTE, NC . CHESAPEAKE, VA CROZET, VA • FAYETTEVILLE, NC • FREDERICKSBURG, VA GREENVILLE, SC . RALEIGH, NC . ROANOKE, VA . STERLING, VA

CHAIN OF CUSTODY RECORD
Please Print - CLIENT NAME ADDRESS
ADDRESS

FROEHLING & ROBERTSON, INC.
P.O. BOX 27524
RICHMOND, VIRGINIA 23261
TEL:(804) 264-2701
FAX: (804) 264-1202

PHONE/FAX (919) 828. 3441

1 AB DROIECT # CLIENT DOOLECT NAME/NIMABER Disses Drint	Diosea Drint	•		Please
	7 /	SAMPLE	4	REQUESTED TEST PARAMETERS - Print
1970/1027 Action Dil- Immy Flowers	JONETS/W56 -	N DESCRIPTION	100	
SAMPLERS (SIGNATURE AND PRINT)		(WAIRIM) W	511	(18
Mat Too buck to Michael Burner		0F N	10 m	25.5
SAMPLE DATE TIME S G SAMPLE!	SAMPLE LOCATION - Please Print	n Er S	OS HOL	E
01 9/29/94 11:50 X UST-1	N 1-	1 Soil		
02 8/24/94 13:00 X UST-	1, Cen	:	>	
03 8/24/4 12:10 X UST-1	(\S\)	,,	/	
X UST	3 a	2 "		
150 X	- 2 年	: 7		
06 graph 10:10 X UST-3	,3, N	17	\	
X 21,01 April X	UST-3, CEN	7 "1	\	
X	-3,5	7	\	
07 93994 10:33 X Gas-1	-1 Punp Tsland	=		
メ	. ` .		\	
×	1 Rmp	2	)	
BX_(SIGNATURE) DATE		DATE	TIME	FIELD COMMENTS: Please Print
Nyldk	OA C	18/2 -	4 4	🔾
RELINQUISHED BY (SIGNATURE) DATE TIME	IE RECEIVED BY	IWO 1	TIME	
TIME TOWNSHIP WE CONTRINCE	av ava uskensken eva	DV	J.	
		<b>.</b>		
SHIPPED VIA	DATE	_		
				FORM NO. 1029

APPENDIX D
SITE SENSITIVITY EVALUATION

## TABLE 3

## SSE SITE CATEGORY DESCRIPTIONS

# CATEGORY A (Site meets any one of the criteria)

- 1. Water supply well(s) contaminated and not served by accessible public water supply.
- 2. Vapors present in confined areas at explosive or health concern levels.
- 3. Treated surface water supply in violation of the safe drinking water standards.

# CATEGORY B (Site meets any one of the criteria)

- 1. Water supply well(s) contaminated, but served by accessible public water supply.
- 2. Water supply well(s) within 1500 feet of site, but not contaminated and not served by accessible public water supply.
- 3. Vapors present in confined areas but not at explosive or health concern levels.

# CATEGORY C (Site meets both of the criteria)

- 1. No known water supply well(s) contaminated.
- 2. Water supply well(s) greater than 1500 feet from site but not served by accessible public water supply.

# <u>CATEGORY D</u> (Site meets <u>both</u> of the criteria)

- 1. No known water supply well(s) contaminated.
- 2. Water supply well(s) within 1500 feet of site but served by accessible public water supply.

# CATEGORY E (Site meets both of the criteria)

- 1. No known water supply well(s) contaminated or within 1500 feet of site.
- 2. Area served by accessible public water supply.

3/10/93

## Table 1

# Site Sensitivity Evaluation (SSE)

Site Characteristics Evaluation (Step 1)

Characteristic	Condition	Rating	
Grain Size*	Gravel Sand Silt Clay	150 100 50 0	
Are relict structures, sedimentary structures, and/or textures present in the zone of contamination and underlying "soils"?	Present and intersecting the water table.  Present but <u>not</u> intersecting the water table.	10 5	50
Distance from location of deepest contaminated soil** to water table.	None present.  0 -5 feet (C, D & E sites only) 5 - 10 feet >10 - 40 feet	20 20 10 0	\$ 10
Is the top of bedrock or transmissive indurated sediments located above the water table?	> 40 feet  Yes No	20 0	20
Artificial conduits present within the zone of contamination.	Present and intersecting the water table. Present but <u>not</u> intersecting the water table. Not present.	10 5 0	10

**Total Site Characteristics Score:** 

110

<sup>\*</sup> **Predominant** grain size based on Unified Soil Classification System or U.S. Dept. of Agriculture's Soil Classification Method.

<sup>\*\* (&</sup>gt;10 ppm TPFH by Method 5030; >40 ppm TPFH by Method 3550; >250 ppm O&G by Method 9071)

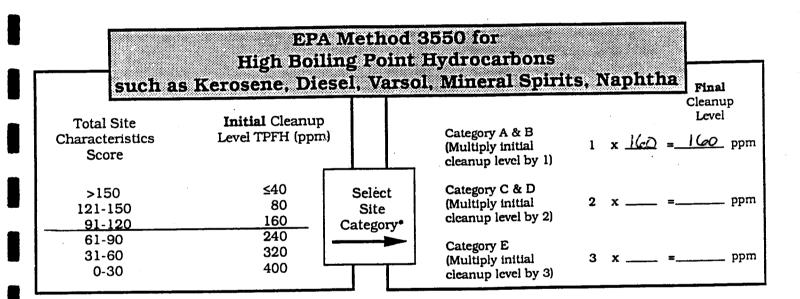
Site Sensitivity Evaluation (SSE)

Final Cleanup Level Initial Cleanup Level (Step 3) (Step 2) EPA Method 5030 for Low Boiling Point Hydrocarbons such as Gasoline, Aviation Fuels, Gasohol Final Cleanup Level Initial Cleanup **Total Site** Category A & B  $1 \times 40 = 40$  ppm Level TPFH (ppm) Characteristics (Multiply initial cleanup level by 1) Score Category C & D ≤10 >150 Select ppm (Multiply initial 20 121-150 Site cleanup level by 2) 91-120 40 Category\* 60 61-90 Category E 80 ppm 31-60 (Multiply initial

100

0-30

cleanup level by 3)



such a	Heavy Fuel	ls - Oil	d 9071 for & Grease (O&G) Motor Oil, Hydraul	ic Fluid	<b>Final</b> Cleanup
Total Site Characteristics Score	Initial Cleanup Level O&G (ppm)		Category A & B (Multiply initial cleanup level by 1)	1 x	Level ppr
>150 121-150 91-120	≤250 400 550	Select Site Categor	(Multiply initial	2 x	= pp
61-90 31-60 0-30	700 850 1000		Category E (Multiply initial cleanup level by 3)	3 x	= pp

<sup>\*</sup> See Site Category Descriptions, Table 3 3/10/93