## APPENDIX A GROUND-WATER QUALITY ANALYSES

Page 1

TORIEDE CORP.

REPORT

Work Order # 93-02-035

Received: 02/03/93

02/05/93 16:04:22

REPORT	HANDEX OF FLORIDA	PREPARED TOXIKON CORPORATION
		BY 225 VILDHOOD AVE.
	MOUNT DORA. FL 32726	
	(904)735-1800 FAX 5990	CERTIFIED BY
ATTEN	JOHR WEITZ	ATTEN PAUL LEZBERG
		PNONE (617) 933-6903 CONTACT JIM
CLIENT	NAMPLES 6	
		NA CERT # MAGGA: TRACE METALS, SULFATE CYANIDE TURB, RES. FRE
		CHLORINE. Co. TOTAL ALK., TDS. DH. THUS. VOC. PEST., MUTRIENTS
	MOUNT DORA, FL 32726	
		FL NRS E87143, NJ DEP 59538, NC DNR286, SC 88002, NN 204091-C
MOSK ID	C.F.1075/9738 US17-92 DEBARY	TO THE DAY AND DEST STORE ME SHADOW, ME CONSTITUTE
	2/2/93	VERIFIED BY:
		FLA DHRS - CERT # MRS # E87143
	MAYTER	121111111111111111111111111111111111111
	under seperate cover	
SAPLE	E INENTIFICATION	YEST CODES and MANES used on this workorder
of TRIP S	SLANK 602M	PURGEABLE AROMATICS 602
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		FEB 1 1 1993
		168/ 1 g CES

Page 2

Received: 02/03/93

TOXINOM CORP.

REPORT

Work Order # 93-02-035

Results by Sample

SAMPLE ID TRIP BLANK

FRACTION 01A TEST CODE 602N NAME PURGEABLE ARGMATICS 602
Date & Time Collected 02/02/93 05:15:00 Category MATER

EPA 602 v	th HTBE
	RESULT LIMIT
Benzene	<u> </u>
Toluene	<u> </u>
Ethylbenzene	
Xylenes (Total)	
Methyl-t-Butyl Ether	ND1.0
Notes and Definiti	ons for this Reports
UNITS: DATE RUN: AMALYST: INSTRUMENT: DIL. FACTOR:	02/04/93 AP 
IID = not detected a	at detection limit

Page 3

TURING CORP.

REPORT

Line's Device & OR\_M\_\_

Received: 02/03/93

Results by Sample

SAMPLE ID EGITPMENT BLANK

FRACTION 02A TEST CODE 602N NAME PRESEABLE ARGUATICS 602
Date & Time Collected 02/02/93 10:45:00 Category MATER

EPA 602	vith MTBE
	RESIRT LIMIT
Benzene	<u> </u>
Toluene	HO1.0
Ethylbenzene	<u> </u>
Xylenes (Total)	
Methyl-t-Butyl Ether	<u> </u>
Notes and Definiti	ons for this Report:
UNITS: DATE RUN: ANALYST: INSTRUMENT: DIL. FACTOR:	ug/L 02/04/93 _AP 
ND = not detected a	at detection limir

Paga 4		
Barra launda	CO MOT	84 X 7

TONTINON CORP.

REPORT

Work Order # 93-02-035

**A**.....

Results by Sample

SAMPLE ID A

FRACTION OTA TEST CODE 602M NAME PURSEABLE ABDREATICS 602
Date & Time Collected 02/02/93 11:20:00 Category MATER

#### BPA 602 with MTBB

 RESULT
 LIMIT

 Benzene
 NO
 1.0

 Toluene
 NO
 1.0

 Ethylbenzene
 NO
 1.0

 Xylenes (Total)
 NO
 1.0

 Methyl-t-Butyl Ether
 NO
 1.0

Notes and Definitions for this Reports

UNITS:

ug/L

DATE MM:

02/04/93

AMALYST:

AP

INSTRUMENT:

2000

DIL. FACTOR:

MD = not detected at detection limit

Page 5 Received: 02/03/93 TOXISON CORP.

REPORT

Work Order # 93-02-035

E 02/03/93 Results by Sample

SAMPLE ID B

FRACTION 04A TEST CODE 602N NAME PURGEABLE ARCHATICS 602
Date & Time Collected 62/02/93 11:35:08 Category MATER

#### EPA 602 with KTBE

RESULT LIMIT

Benzene <u>#6</u> <u>1.0</u>

Toluene HD 1.0

Ethylbenzene ND 1.0

Xylenes (Total) HO 1.0

Hethyl-t-Butyl Ether MD 1.0

Notes and Definitions for this Report:

UNITS:

ug/L

DATE RUM:

02/05/93

ANALYST:

AP

INSTRUMENT: DIL. FACTOR:

ID = not detected at detection limit

Page 6	
Received:	02/03/93

TOXINON CORP.

REPORT

Work Order # 93-02-035

SAMPLE ID C

Results by Sample

FRACTION USA TEST CODE 602M NAME PURGEABLE ARONATICS 602 Date & Time Collected 02/02/93 11:48:00 Category WATER

#### EPA 602 with MTBE

RESULT LIMIT Genzene 10 1.0 Toluene 10 1.0 Ethylbenzene <u>10 1.0</u> Xylenes (Total) <u> 10</u> 1.0 Methyl-t-Butyl Ether 

Notes and Definitions for this Report:

UNITS: DATE RUN: ug/L

02/04/93

ANALYST: AP

INSTRUMENT:

DIL. FACTOR:

ND = not detected at detection limit

Page 7	
Recorivaci:	02/03/93

TOXINGE COMP.

REPORT

Work Order # 93-02-035

Results by Sample

SAMPLE ID D

FRACTION DEA TEST CODE 602H NAME PURGEABLE ABOMATICS 602
Date & Time Collected 81/28/93 12:00:00 Category MATER

#### BPA 602 with MTBB

RESULT LINIT

Benzene

Toluene

Ethylbonzene

<u>ND 1.0</u>

Xylenes (Total)

Hethyl-t-Butyl Ether

<u> 10 1.0</u>

Notes and Definitions for this Report:

UNITS:

ug/L

DATE RUN:

02/04/93

ANALYST:

AP

INSTRUMENT: DIL. FACTOR:

NO = not detected at detection limit

Pege 8

Received: 02/03/93

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REPORT

Test Nethodology

Work Order # 93-02-035

TEST CODE 602M HAVE PURCEASIE ARCHATICS 602

EPA Nethod 602: Volatile Aromatic Compounds

Reference: Hethods for Organic Chemical Analysis of Municipal and Industrial Wastewater, Appendix A. 40CFR Part 136. Federal Register Vol. 49, No. 209, 1984.

225 Wildwood Ave., Woburn, MA 01801 Telephone: (617) 933-6903 Fax: (617) 933-9186

CHAIN OF CUSTODY RECORD

WORK ORDER #: (5-1)?- 751 DUE DATE

ANALYBES		COMM				SPECIAL INSTRUCTIONS:	LI HUSH, DAY TURN AROUND  CI-ROUTINE
T.	1. WATER P. PLASTIC 2. SOIL G. GLASS 3. SLUDGE V. VOA 4. OIL 5. TISSUE OTHER	PRESERVATIVE		* * * *		DATE: 2 7 - 73	DATE:
ADDRESS : 30941 San and I DAIDA	1 × 12/2	SAMPLE CONTAINER BANFLING TYPE # DATE TIME	Equipment 1	10021 2 1 1 2 C C C C C C C C C C C C C C C		RELUNGUISHED BY:  ACTUAL OF THE: 12 - 5 THE CONTROL OF THE CONTROL	RELINGUISMED BY: DATE: - RECEIVED FOR LAB BY:  METHOD OF SHIPMENT:

# APPENDIX B MONITORING WELL GAUGING DATA

#### MONITOR WELL GAUGE REPORT

FOR:

Cumberland Farms #1075

LOCATION:

9738 U.S. 17-92, Debary, FL

JOB NUMBER:

106377

LPH = Liquid Phase Hydrocarbons (gallons)

DATE	WELL #	CASING ELEV. (FEET)	LPH DEPTH (FEET)	WATER DEPTH (FEET)	LPH THICK. (FEET)	LPH ELEV. (FEET)	WATER ELEV. (FEET)
02-02-93	Α			3.03	0.00	0.00	0.00
	В	•		2.27	0.00	0.00	0.00
	C			2.67	0.00	0.00	0.00
	D			3.26	0.00	0.00	0.00
		t of LPH re				0.00	gallons gallons

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FOR:

Cumberland Farms #1075

LOCATION:

9738 U.S. 17-92, Debary, FL

JOB NUMBER:

106377

LPH = Liquid Phase Hydrocarbons (gallons)

DATE	WELL #	CASING ELEV. (FEET)	LPH DEPTH (FEET)	WATER DEPTH (FEET)		LPH THICK. (FEET)	LPH ELEV. (FEET)		WATER ELEV. (FEET)
06-20-93	MW-1	10.00		5.25	*	0.00	0.00	*	4.75
	MW-2	9.00		4.46	*	0.00	0.00	*	4.75 4.54
	MW-3	10.22		5.36	快	0.00	0.00	*	4.86
		t of LPH re PH accumu					0.00 0.00		gallons gallons

## 649803355

## ALTERNATIVE PROCEDURE REMEDIAL ACTION REPORT

560 South U.S. Highway 17/92 & Barwick Road DeBary, Volusia County, Florida WRS Project No. 200112

Submitted to:

State of Florida
Department of Transportation
719 South Woodland Boulevard
DeLand, Florida 32720

Submitted by:

WRS Infrastructure & Environment, Inc. 221 Hobbs Street, Suite 108 Tampa, Florida 33619 Telephone: (813) 684-4400

Facsimile: (813) 684-9177

November 2000





<u>Corporate Office:</u> 221 Hobbs Street, Suite 108 Tampa, Florida 33619 (813) 684-4400 Fax: (813) 684-9177

November 17, 2000

Mr. S. Randy Stafford
Hazardous Materials Coordinator
District Environmental Management Office
Florida Department of Transportation – District 5
719 South Woodland Boulevard
DeLand, Florida 32720-6834

Reference: Construction and Remediation Services

Contract No.

:BB-695

FM No.

:240793-1-52-02

State Project No.

:79040-3544

County

:Volusia

Subject:

Alternative Procedure Remedial Action Report (APRAR)

**Construction Support Services** 

DeBary Tank No. 1

560 South US Highway 17/92

DeBary, Florida

WRS Project No. 200112

Dear Mr. Stafford:

At the request of the Florida Department of Transportation (FDOT), WRS Infrastructure and Environment, Inc. (WRS) has prepared this Alternative Procedure Remedial Action Report pursant to the scope of the above referenced contract.

#### Introduction

The FDOT is in the process of installing a force main near the intersection of South US Highway 17/92 and Barwick Road in DeBary, Florida. A regulated steel underground storage tank (UST) of approximately 600 gallons containing petroleum product was encountered along the FDOT right-of-way during current construction activities. A site map showing the location of the subject area is depicted as **Figure 1**.

The Volusia County Environmental Management Department (VCEMD) requested that cleanup activities take place at the location prior to the continuation of construction activities.

Mr. Ron Freeman, VCEMD Tanks Section, indicated during telephone conversations that conducting an Alternative Procedure Remedial Action by well over pumping or dewatering, as needed, would be allowed based on the current and future land use at the site. UST removal activities took place from May 16 through May 25, 2000. On June 12, 2000, WRS submitted a Limited Tank Closure Report to the FDOT detailing the tank closure activities. Laboratory analytical results indicated that levels of benzene, toluene, total xylenes, naphthalene and benzo (b) fluoranthene were present in the groundwater samples obtained from temporary monitor wells TMW-001 and TMW-002. These constituents exceeded the groundwater cleanup target levels (GCTLs) as set forth in Chapter 62-777, Florida Administrative Code (FAC). The laboratory analytical results from the Limited Tank Closure Report are summarized in **Table 1** and attached as **Appendix A**.

#### Soil Methodology and Results

WRS performed hand-augered soil borings to delineate potentially-contaminated soils above the groundwater table that were not completely removed during the tank removal procedures. These soil borings were conducted during the installation of four temporary monitor wells. Soils were horizontally and vertically delineated based on results from headspace analysis utilizing an organic vapor analyzer (OVA). The soil samples were collected by filling two 16-ounce mason jars halfway and then covering them with aluminum foil. The organic vapor readings were recorded by using an inline non-filtered and filtered probe. The filtered readings were subtracted from the unfiltered readings for net results of hydrocarbons in parts per million (ppm). WRS delineated soils to below 50 ppm and installed four temporary monitor wells within selected soil borings.

#### **Groundwater Remediation**

On July 12, 2000, WRS mobilized to the site to conduct initial site activities. WRS contracted with Mid States Dewatering of Sebring, Florida for the installation of twenty (20) 2-inch diameter PVC well points and associated piping. The dewatering points were set to a depth of 15 feet below land surface (bls) along the eastern perimeter of the treatment area bordering Highway 17/92. The well points along the western perimeter of the treatment area were set to a depth of 7 feet bls, above a confining clay layer, discovered during soil boring installations within this western portion of the site. The well points were placed in a grid pattern with 8-foot centers as illustrated on Figure 2.

On July 16, 2000, groundwater treatment activities began as influent groundwater was recovered from the dewatering well point system utilizing a 2-inch centrifugal pump and transferred into a 2,500-gallon holding tank. An air sparge system was designed by WRS for the holding pool to aid in the reduction of petroleum hydrocarbons. Recovered groundwater within the holding tank was discharged through a 9,000-pound and a 6,000-pound granular activated carbon (GAC) cell, coupled in series. The effluent from the carbon cells was discharged into a stormwater catch basin to the west of the treatment system. The groundwater treatment system was set up to allow the fluctuation of the water table to capture petroleum contamination trapped within the soils of the capillary fringe zone.

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On July 26, 2000, WRS installed four temporary monitor wells (TMW-004 through TMW-007) to evaluate groundwater quality at the conclusion of remediation operations. The temporary monitor wells were installed with a stainless-steel hand auger to advance soil borings for the completion of temporary monitor wells to the desired depth. The wells ranged in depth from approximately 6 to 7 ft bls. Groundwater depths ranged from 4.5 to 5.85 ft bls. **Table 2** provides well completion and groundwater elevation data.

#### **Groundwater Analysis**

In order to evaluate the efficiency of the groundwater treatment system, influent and effluent samples were collected beginning July 16, 2000. Influent samples were collected from the intake port of the carbon cells and effluent samples were collected from the discharge port of the carbon cells. The groundwater samples were analyzed for volatile organic aromatics (VOA) and volatile organic halocarbons (VOH) by EPA Method 8021, EPA Method 8100 for polynuclear aromatic hydrocarbons (PAHs) and Florida petroleum range organics (FL-PRO) by the FDEP-UST method.

Laboratory analytical results were compiled by Southern Research Laboratories, Inc. (SRL) of Orlando, Florida under FDEP-approved CompQAP Number 940079. Influent samples collected from the treatment system revealed levels of petroleum contamination above GCTLs per Chapter 62-777, F.A.C. Results from two influent sampling events revealed constituents of toluene at 25 micrograms per liter ( $\mu$ g/l) on July 17, 2000 and benzo (k) anthracene at 1.2  $\mu$ g/l on July 20, 2000. The respective GCTLs for toluene and benzo (k) anthracene are 20  $\mu$ g/l and 0.5  $\mu$ g/l. Groundwater petroleum constituents from the influent analytical results beyond July 20, 2000 have been below their respective GCTLs.

Temporary monitor wells TMW-4 through TMW-7 were sampled on July 26, 2000. Laboratory analysis of groundwater samples collected from the four monitor wells indicated that petroleum constituents were below detectable limits (BDL), except for TMW-6. Laboratory analytical results from TMW-6 indicated that benzo (k) fluoranthene was detected at 1.2 μg/l, which exceeds its GCTL of 0.5 μg/l. However, levels of benzo (k) fluoranthene detected at TMW-6 were below Natural Attenuation Default Source Concentrations (NADSC). A summary of the groundwater treatment system and monitor well groundwater analytical results are presented in **Table 3** and a copy of the laboratory analytical reports and associated chain-of-custody forms are included in **Appendix A**.

#### Conclusions and Recommendations

WRS completed soil and groundwater assessment and remediation activities at the referenced subject site. These remedial activities were based on the findings from the UST removal activities in May 2000. Soil samples were collected at the locations of the installed temporary monitor wells. Soil samples from each boring were collected to the depth of groundwater.

On July 16, 2000, groundwater remediation was initiated to remove petroleum-impacted groundwater from the work area. A total of approximately 90,000 gallons of petroleum

impacted groundwater was treated and discharged. Based on laboratory analytical results, WRS concludes that the groundwater treatment system effectively reduced the levels of petroleum contamination to below GCTLs allowing for FDOT project expansion to continue. WRS recommends no further groundwater remediation at this location.

On July 26, 2000, temporary monitor wells TMW-4 through TMW-7 were sampled to evaluate groundwater quality following remedial activities. Laboratory analytical results from TMW-6 exceeded GCTLs for benzo (k) fluoranthene; however, these levels were below the NADSC for this constituent. Therefore, WRS recommends no further action in the area of TMW-6 and proposes that natural attenuation processes will lower levels of benzo (k) fluoranthene at this location to below GCTLs.

WRS appreciates the opportunity to provide this work for the Department. If you have any questions or require additional information, please contact me at (813) 684-4400.

Sincerely,

WRS INFRASTRUCTURE & ENVIRONMENT, INC.

FOR! Gary Winter, CHMM

Contract Manager

cc: Ms. Emma Jean Edmondson, Environmental Specialist, Volusia County Environmental Management Department

#### **ATTACHMENTS**

#### **Tables**

- 1 Summary of Groundwater Analytical Results
- 2 Temporary Monitor Well Completion and Groundwater Level Data
- 3 Summary of Groundwater Treatment System and Monitor Well Groundwater Analytical Results

#### Figures

- 1 Site Vicinity Map
- 2 Site Map

#### **Appendix**

A Laboratory Analytical Reports and Associated Chain-of-Custody Forms



**TABLES** 

TABLE 1

# Summary of Groundwater Analytical Results DeBary UST Removal, May 2000

	Sample				Total				
Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	2-Methyl Napth.	1-Methyl Naph.	Benzo (b)Fluoranthene
GCTL		I	40	30	20	20	20	20	0.2
NADSC		100	400	300	200	200	200	200	20
TMW001		118	16	27	137	25	16	5.7	QN
TMW002	5/17/00	ON	ON.	ND	QN	QN	QN	ND	
TMW003		ON	ON	ND	ND	ND	ND	ND	ND

## Notes

GCTL = Groundwater Cleanup Target Level as per Chapter 62-777, F.A.C.

NADSC - Natural Attenuation Default Source Concentration as per Chapter 62-770, F.A.C.

ND = Not Detected

1-Methyl Naph. = 1-Methylnaphthalene

2-Methyl Naph. = 2-Methylnaphthalene

All data recorded in micrograms per liter

Bolded and shaded values exceed GCTLs

TABLE 2

Temporary Monitor Well Completion and Groundwater Level Data

Location	Well	Total	Depth to	Screened	Depth to	Water-Level
A	Diameter	Depth	Groundwater	Interval	Groundwater	Measurement
		(ft bls)	(ft bls)	(ft bls)	(ft btoc)	Date
TMW-004	2-inch	8.5	5.76	3-8	7.76	7/26/00
TMW-005	2-inch	7.3	5.01	1.8-6.8	8.21	7/26/00
TMW-006	2-inch	6.3	4.50	0.8-5.8	8.70	00/92/2
TMW-007	2-inch	8.1	5.85	2.6-7.6	8.25	7/26/00

Notes:

ft bls = feet below land surface ft btoc = feet below top of casing

TABLE 3

Summary of Groundwater Treatment System and Monitor Well Groundwater Analytical Results

	Sample				Total		
Sample No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	Benzo (k) Fluoranthene
TLOS		1	40	30	20	20	0.5
NADSC		100	400	300	200	200	50
Effluent	2/16/00	QN	QN	ND	ΩN	Q.	GN
Effluent	1/17/00	QN	£	ND ON	QQ.	Ð	GN
Effluent	7/19/00	QN	R	QN.	S S	ND	QN
Effluent	7/20/00	ND	ON	QX	£	QN	QN.
Effluent	7/21/00	ND	ND	QN	ND	QN	QN
Effluent	7/22/00	ND	ND	QN	QN	Q.	QX
Effluent	7/23/00	ND	ND	QN.	Ð	NO NO	QN
Effluent	7/24/00	ND	ND	Q.	QN	QN	QN
Effluent	7/25/00	ND	ND	Q.	Q	R	QN
Influent	7/18/00	ND	4	5	. 25	QN.	QN
Influent	7/20/00	ND	1	2	10	QN.	1.2
Influent	7/24/00	ND	3	2	15	ND	ND
Effluent Cell #1	7/18/00	ND	ON.	QN	R	ON	ND
Effluent Cell #1	7/24/00	NO NO	QN	N N	R	N N	QN.
TMW-4DB1	1/26/00	ND	Q.	N ON	QN.	- QX	CN
TMW-5DB1	1/26/00	QN	Ð	R	ND	R	UN
TMW-6DB1	1/26/00	Q2	QN ON	N N	QN.	QN	12
TMW-7DB1	2/26/00	ND	£	R	R	QQ	UN.
<b>4</b>							

Notes:

GCTL = Groundwater Cleanup Target Level as per Chapter 62-777, F.A.C.

NADSC - Natural Attenuation Default Source Concentration as per Chapter 62-777, F.A.C.

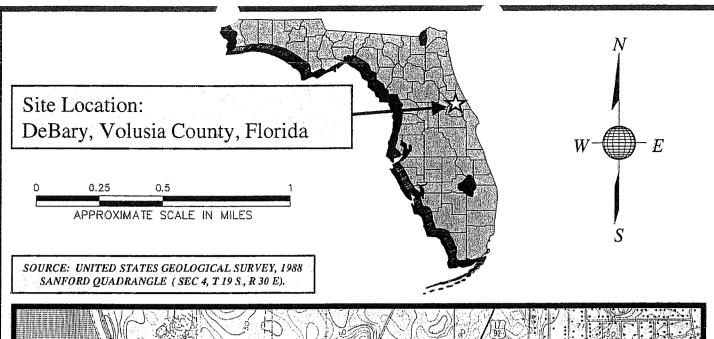
ND = Not Detected

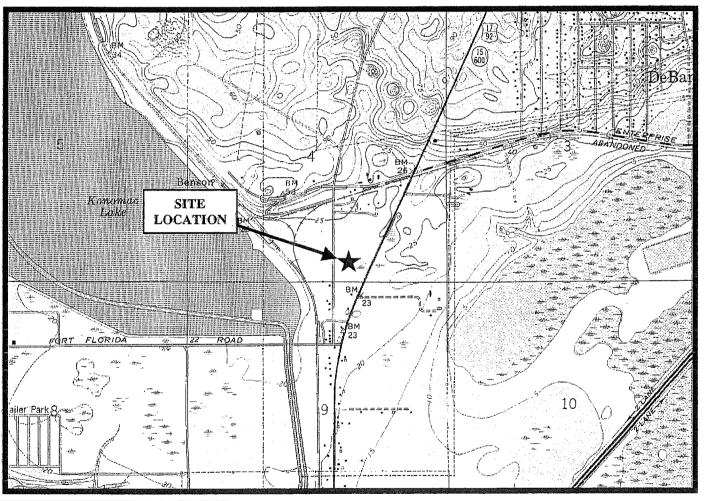
TMW-Temporary Monitor Well

Bolded and shaded values exceed GCTLs

All values recorded in micrograms per liter

**FIGURES** 





DRAWING STATUS DRAFT FINAL

PROJECT NO.: 200112 SCALE: AS SHOWN

REV DATE

CADD ID: 2001 1205.PPT

PROJECT MANAGER: GARY WINTER PLOT DATE: 10/1800

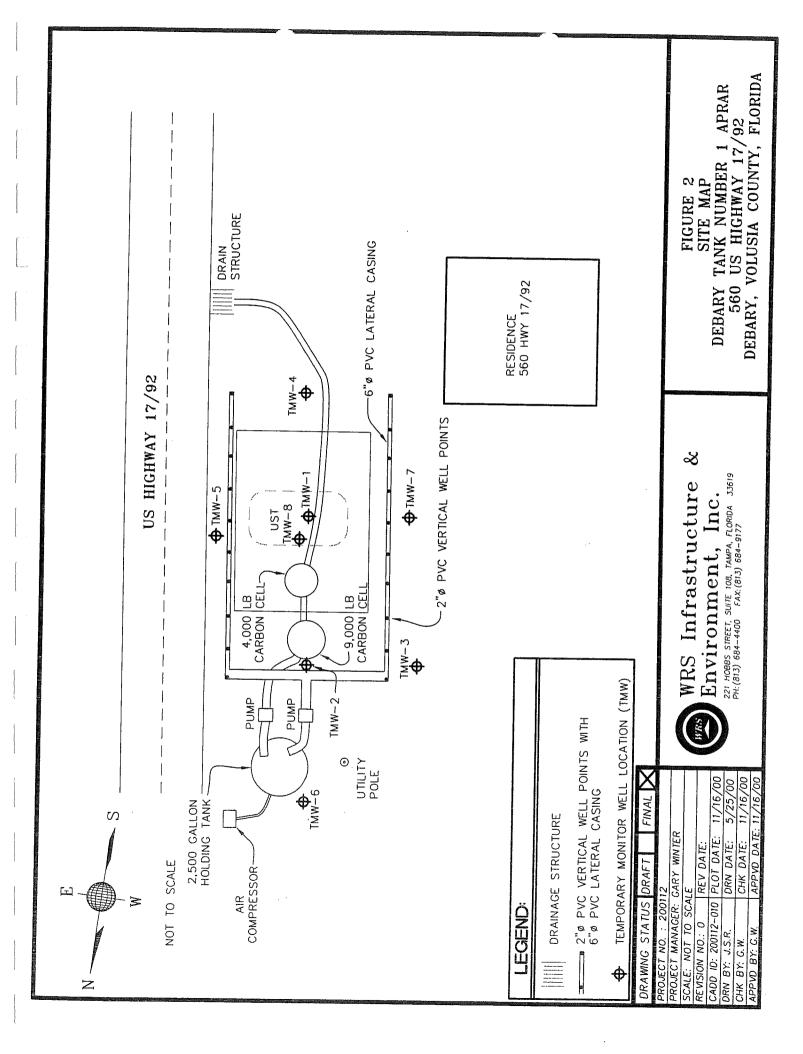
CHK BY: G.W. APPVD BY: G.W. CHK DATE: 1/0/18/00 APPVD DATE: 10/18/00

REVISION NO.:

WRS Infrastructure & Environment, Inc.

221 HOBBS STREET, SUITE 108, TAMPA, FLORIDA 33619 PH:(813) 684-4400 FAX:(813) 684-9177

FIGURE 1 SITE VICINITY MAP DEBARY TANK NUMBER 1 APRAR 560 US HIGHWAY 17/92 DEBARY, VOLUSIA COUNTY, FLORIDA



#### APPENDIX A

## LABORATORY ANALYTICAL REPORTS AND ASSOCIATED CHAIN-OF-CUSTODY FORMS