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INITIAL REMEDIAL ACTION TANK CLOSURE ASSESSMENT REPORT FOR BUILDING 7174
MCCOY ANNEX NTC ORLANDO FL
10/1/1997
ABB ENVIRONMENTAL

INITIAL REMEDIAL ACTION
TANK CLOSURE ASSESSMENT REPORT
BUILDING 7174
McCOY ANNEX

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

UNIT IDENTIFICATION CODE: N65928
CONTRACT NO.: N62467-89-D-0317/107

OCTOBER 1997

SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORTH CHARLESTON, SOUTH CAROLINA
29419-9010

PRINTED ON RECYCLED PAPER

ABB

March 3, 1998

Document No.: 02530.058

Mr. John Mitchell
State of Florida
Department of Environmental Protection
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Subject: **Initial Remedial Action/Tank Closure Assessment Report**
Navy Exchange Building 7174
McCoy Annex, Naval Training Center, Orlando, Florida
CTO 107, Contract No.: N62467-89-D-0317/107

Dear Mr. Mitchell:

Enclosed for your review and approval is the Intial Remedial Action/Tank Closure Assessment Report for the above referenced facility, as required by Chapter 62-770.300, Florida Administrative Code. This Initial Remedial Action/Tank Closure Assessment Report was completed in October, 1997 following guidelines of Chapter 62-770, F.A.C. before it was revised. A Site Assessment Report will be submitted for the site following the revised Chapter 72-770, F.A.C..

Should you have any questions or comments regarding this report please contact the undersigned at (407) 895-8845.

Very Truly Yours,
ABB ENVIRONMENTAL SERVICES, INC.

Manuel Alonso, P.G.
Project Technical Lead

Mirna Barq
Project Engineer

MA/MB/lak
Enclosure

cc: Nick Ugolini, Southern Division
Lt. Gary Whipple, NTC, Orlando
Mark Zill, NTC, Orlando
File

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ABB Environmental Services Inc.

Sponsor Special Olympics World Games Connecticut 1998

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Orlando, Florida 32803

Telephone (407) 895-8845
Fax (407) 896-6150

CERTIFICATION OF TECHNICAL
DATA CONFORMITY (MAY 1987)

The Contractor, ABB Environmental Services, Inc., hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-89-D-0317/107 are complete and accurate and comply with all requirements of this contract.

DATE: October 20, 1997

NAME AND TITLE OF CERTIFYING OFFICIAL: John Kaiser
Task Order Manager

NAME AND TITLE OF CERTIFYING OFFICIAL: Manuel Alonso, P.G.
Project Technical Lead

(DFAR 252.227-7036)

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Tank Closure Assessment Report
Building 7174, McCoy Annex
Naval Training Center
Orlando, Florida

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REFERENCE

ATTACHMENTS

Attachment A: Photographs
Attachment B: Tank Decontamination and Recycling Certification
Attachment C: UST Installation and Removal Form
Attachment D: Initial Remedial Action Notification Form
Attachment E: Preburn and Postburn Laboratory Analytical Reports
Attachment F: Initial Remedial Action Report Form
Attachment G: Preburn and Postburn Laboratory Analytical Reports for the Former Landfarm Contaminated Soil

GLOSSARY

ABB-ES	ABB Environmental Services, Inc.
bls	below land surface
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
IRA	initial remedial action
OVA	organic vapor analyzer
ppm	parts per million
PWC	Public Works Center
RCRA	Resource Conservation and Recovery Act
SOUTHNAV-FACENGCOM	Southern Division, Naval Facilities Engineering Command
TRPH	total recoverable petroleum hydrocarbons
USEPA	U.S. Environmental Protection Agency
UST	underground storage tank
VOA	volatile organic aromatic
yd^3	cubic yard

1.0 INTRODUCTION

1.1 SITE LOCATION AND BACKGROUND INFORMATION. ABB Environmental Services, Inc. (ABB-ES), was contracted by Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM) to supervise and document initial remedial action (IRA) and tank closure activities associated with petroleum contamination at Building 7174. The site is located in the McCoy Annex, which is approximately 12 miles south of the Main Base, Naval Training Center in Orlando, Orange County, Florida (as shown on Figure 1).

Eight underground storage tanks (USTs) and associated piping were removed from the site: six near the pump islands on the southwest side of Building 7174, which were abandoned in place in 1986 by filling the tanks with sand and concrete to conform with Florida Department of Environmental Protection (FDEP) abandonment procedures, and two from the northeast side of Building 7174. Photos of the removed underground storage tanks are shown in Attachment A. On May 20 through June 5, 1997, five 5,000-gallon USTs, one 3,000-gallon gasoline UST, and two 1,000-gallon waste oil USTs were removed from the excavation, cleaned, and properly disposed of by the Public Works Center (PWC), Pensacola. The IRA was continued on June 9, 10, 11, and 13, 1997. This report will discuss the activities associated with the tank closure and IRA conducted at Building 7174.

1.2 SCOPE OF WORK. The scope of work performed during the IRA included the following tasks:

- documented the removal of two USTs from the northeast side of Building 7174,
- documented the removal of six USTs and excavation of petroleum-impacted soil,
- conducted environmental sampling for the transport and disposal of the excessively contaminated (saturated with petroleum product) soil to a stationary thermal treatment facility,
- conducted environmental sampling for the transport and landfarming of excessively contaminated soil, and
- prepared an IRA and Tank Closure report describing all field activities and providing the supplemental information.

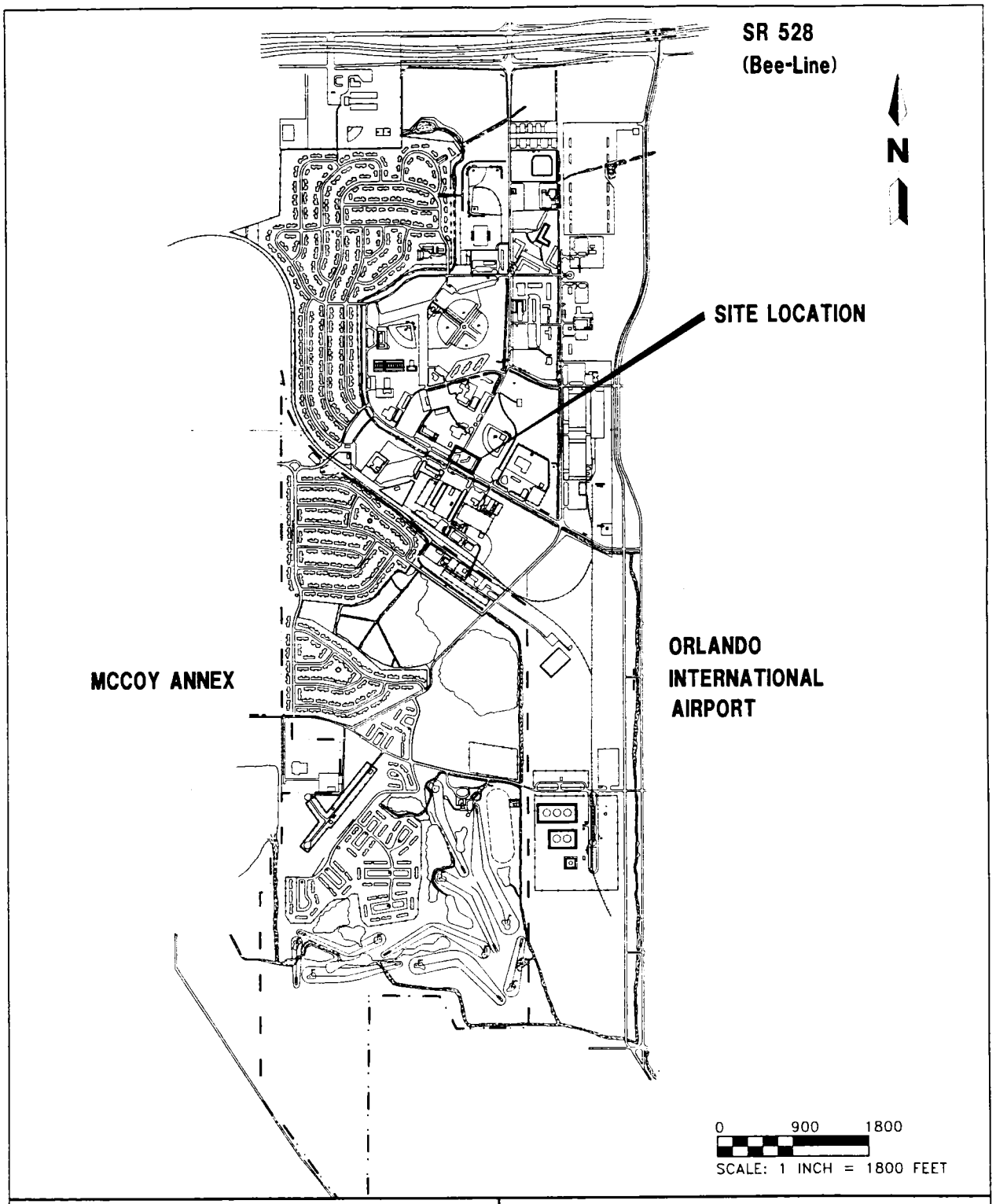

FIGURE 1
SITE VICINITY MAP

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INITIAL REMEDIAL ACTION PLAN
TANK CLOSURE ASSESSMENT
REPORT, BUILDING 7174
MCCOY ANNEX
NAVAL TRAINING CENTER
ORLANDO, FLORIDA

2.0 FIELD ACTIVITIES

2.1 TANK CLOSURE. On May 20, 1997, PWC, Pensacola removed two 1,000-gallon USTs and their associated piping from the northeast area of Building 7174. These two tanks contained waste oil (nonregulated per Chapter 62-761, Florida Administrative Code [FAC]). On May 28 through June 3, 1997, PWC, Pensacola removed six USTs and associated piping. Tank locations are shown on Figure 2. Prior to removal, 300 gallons of water mixed with fuel was pumped from Tank 1 (3,000-gallon), 500 gallons from Tank 2 (5,000-gallon), 450 gallons from Tank 3 (5,000-gallon), 400 gallons from Tank 4 (5,000-gallon), 500 gallons from Tank 5 (5,000-gallon), and 650 gallons from Tank 6 (5,000-gallon). During the removal of Tanks 7 and 8 on the northeast side of Building 7174, samples were taken from soil surrounding the tanks, and the organic vapor analyzer (OVA) readings were all below detection limits, as shown in Table 1. A copy of the initial Remedial Action Notification Form and a copy of the Initial Remedial Action Report Form are included in Attachment D and F, respectively.

The water and fuel mixture was pumped from inside the tanks into a tanker and disposed of by International Petroleum Services, Inc. The certificate for disposal of petroleum-contaminated water is included in Attachment B. The eight USTs were cleaned and transported to Defense Reutilization and Marketing Office on June 10, 1997, for disposal. A copy of the Tank Decontamination and Recycling Certificates for the UST is included in Attachment B. The UST Installation and Removal Form is included in Attachment C.

2.2 SOIL EXCAVATION. The IRA began on June 4, 1997, and concluded on June 12, 1997. Petroleum-contaminated soil that exhibited corrected organic vapor readings of 500 parts per million (ppm) or greater was excavated as excessively contaminated soil.

The excavation was terminated at 12 feet below land surface (bls). Figure 3 shows the soil sample locations collected during the IRA. Table 2 summarizes the OVA readings for the site conducted on May 28 through June 12, 1997.

A portable flame ionization detector (Foxboro-128) was used to screen soil samples during the excavation. Organic vapor measurements of the headspace were performed in the soil samples collected from depths of 4, 6, 8, and 12 feet bls following guidelines established in Chapter 62-770.200, FAC, and FDEP's *Guidelines for the Assessment and Remediation of Petroleum Contaminated Soils* (FDEP, 1992). Figure 3 shows the excavated areas within a grid pattern that shows the soil sample locations. Soil sample organic vapor concentration readings corresponding to the sample locations are summarized in Table 3.

Two separate stockpiles of soil were stored on site. The first pile, approximately 2,100 cubic yards (yd^3) of excessively contaminated soil (soil that exhibits organic vapors exceeding 500 ppm), was placed on Visqueen™ to transport later to a nearby landfarm designed by PWC, Pensacola. The second pile was approximately 200 yd^3 of soil saturated with free product. This soil was removed from inside and around the tanks. The pile was placed on and covered with 10 mils of thick plastic prior to being thermally treated at an off-site facility.

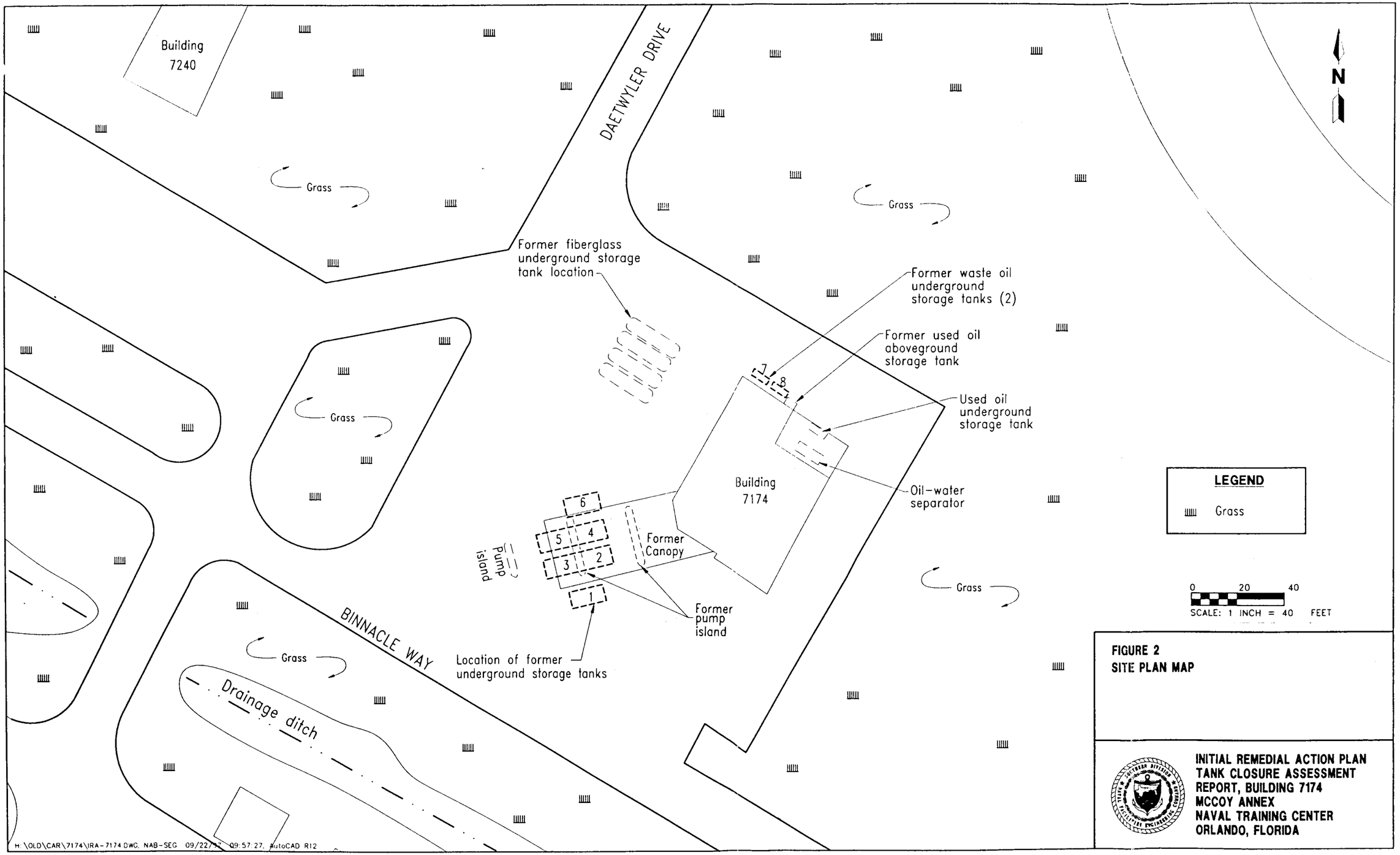


FIGURE 2
SITE PLAN MAP

INITIAL REMEDIAL ACTION PLAN
TANK CLOSURE ASSESSMENT
REPORT, BUILDING 7174
MCCOY ANNEX
NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Table 1
Summary of Organic Vapor Analysis, May 20, 1997

Initial Remedial Action
Tank Closure Assessment Report
Building 7174, McCoy Annex
Naval Training Center
Orlando, Florida

Soil Sample	Location	Unfiltered[1] (ppm)	Filtered[2] (ppm)	Total Hydrocarbons (ppm)	Soil Profile and Comments
Tank 7					
SS-1	fillport	5	<1	5	Well sorted, fine-grained, brown to dark brown sand; no odor.
SS-2	north	10	<1	10	Well sorted, fine-grained, brown to dark brown sand; no odor.
SS-3	east	10	<1	10	Well sorted, fine-grained, brown to dark brown sand; no odor.
SS-4	south	10	<1	10	Well sorted, fine-grained, brown to dark brown sand; no odor.
SS-5	west	10	<1	10	Well sorted, fine-grained, brown to dark brown sand; no odor.
SS-6	bottom	5	<1	5	Well sorted, fine-grained, brown to dark brown sand; no odor.
Tank 8					
SS-1	fillport	20	10	10	Well sorted, fine-grained, brown to dark brown sand; no odor.
SS-2	north	20	10	10	Well sorted, fine-grained, brown to dark brown sand; no odor.
SS-3	east	30	10	20	Well sorted, fine-grained, brown to dark brown sand; no odor.
SS-4	south	20	10	10	Well sorted, fine-grained, brown to dark brown sand; no odor.
SS-5	west	28	10	18	Well sorted, fine-grained, brown to dark brown sand; no odor.
SS-6	bottom	10	<1	10	Well sorted, fine-grained, brown to dark brown sand; no odor.

[1] Unfiltered sample readings are for total hydrocarbons, including methane.
[2] Filtered sample readings are for methane only.

Notes: <1 ppm indicates the nondetectable limit for Foxboro-128™.

ID = identification.
ppm = parts per million.
< = less than.

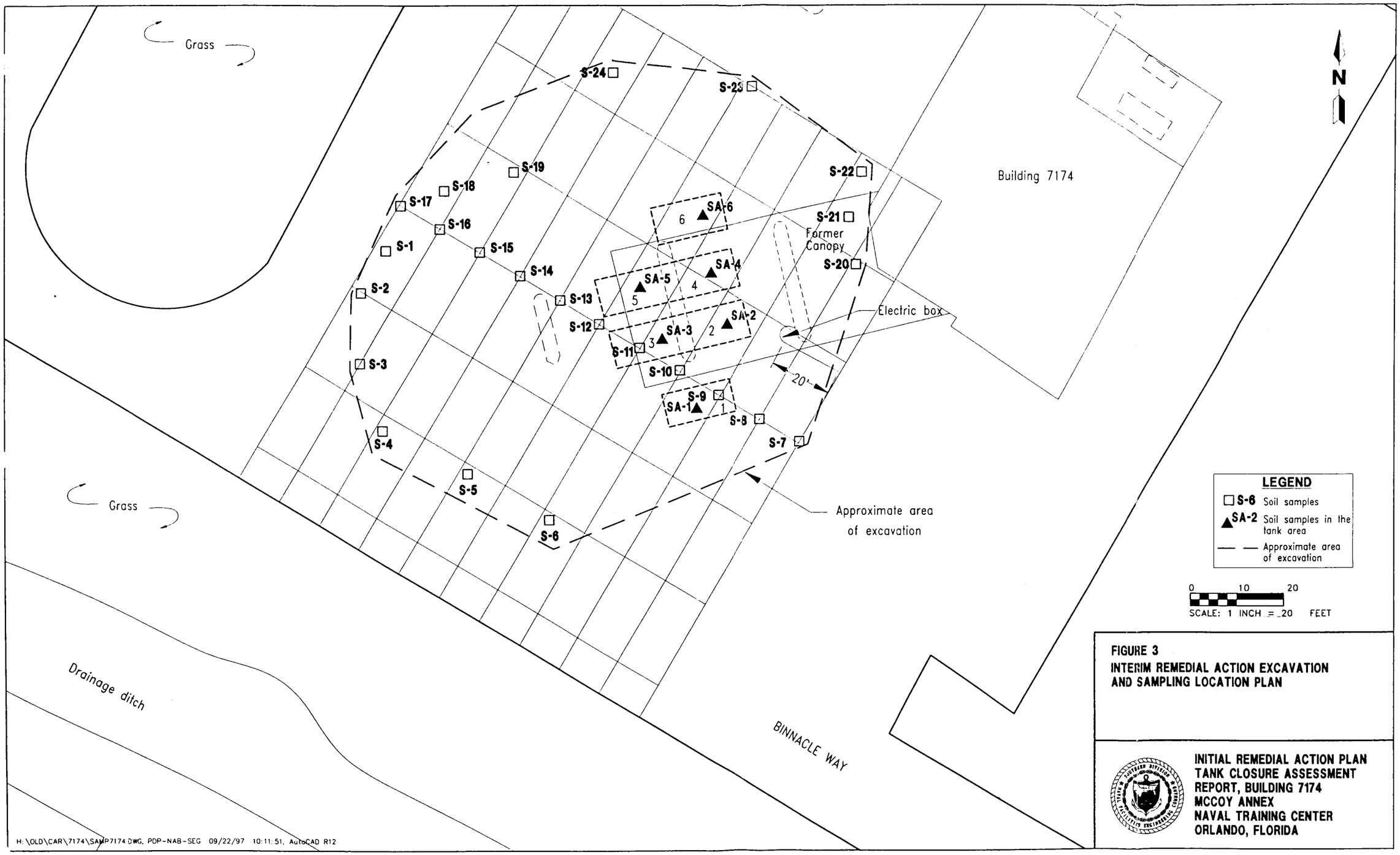


FIGURE 3
INTERIM REMEDIAL ACTION EXCAVATION AND SAMPLING LOCATION PLAN

INITIAL REMEDIAL ACTION PLAN
TANK CLOSURE ASSESSMENT REPORT, BUILDING 7174
MCCOY ANNEX
NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Table 2
Summary of Organic Vapor Analysis, May 28 and 29, 1997

Initial Remedial Action
Tank Closure Assessment Report
Building 7174, McCoy Annex
Naval Training Center
Orlando, Florida

Soil Sample	Depth (feet bls)	Unfiltered[1] (ppm)	Filtered[2] (ppm)	Total Hydrocarbons (ppm)	Soil Profile and Comments
Tank 1					
SA-1	4	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	6	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	8	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	10	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	12	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
					Water table at 12 feet bls.
Tank 2					
SA-2	4	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	6	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	8	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	10	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	12	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
					Water table at 12 feet bls.
Tank 3					
SA-3	4	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	6	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	8	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	10	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	12	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
					Water table at 12 feet bls.

See notes at end of table.

Table 2 (Continued)
Summary of Organic Vapor Analysis, May 28 and 29, 1997

Initial Remedial Action
Tank Closure Assessment Report
Building 7174, McCoy Annex
Naval Training Center
Orlando, Florida

Soil Sample	Depth (feet bls)	Unfiltered[1] (ppm)	Filtered[2] (ppm)	Total Hydrocarbons (ppm)	Soil Profile and Comments
Tank 4					
SA-4	4	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	6	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	8	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	10	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	12	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor. Water table at 12 feet bls.
Tank 5					
SA-5	4	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	6	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	8	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	10	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	12	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor. Water table at 12 feet bls.
Tank 6					
SA-6	4	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	6	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	8	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	10	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor.
	12	>1,000	<1	>1,000	Poorly sorted, fine-grained, dark brown silty sand; strong odor. Water table at 12 feet bls.

[1] Unfiltered sample readings are for total hydrocarbons, including methane.
[2] Filtered sample readings are for methane only.

Notes: <1 ppm indicates the nondetectable limit for Foxboro-128™.

ID = identification.
bls = below land surface.
ppm = parts per million.
> = greater than.
< = less than.

Table 3
Summary of Organic Vapor Analysis, June 9, 1997

Initial Remedial Action
Tank Closure Assessment Report
Building 7174, McCoy Annex
Naval Training Center
Orlando, Florida

Soil Sample	Depth (feet bls)	Unfiltered[1] (ppm)	Filtered[2] (ppm)	Total Hydrocarbons (ppm)	Soil Profile and Comments
S-1	4	150	--	150	Well sorted, fine-grained, dark gray sand; slight odor.
	6	210	--	210	Well sorted, fine-grained, dark gray sand; slight odor.
	8	>1,000	50	950	Well sorted, fine-grained, dark gray sand; slight odor.
					Water table at 10 feet bls.
S-2	4	30	--	30	Well sorted, fine-grained, light gray to dark gray sand; slight odor.
	6	100	--	100	Well sorted, fine-grained, light gray to dark gray sand; slight odor.
	8	>1,000	>1,000	0	Well sorted, fine-grained, light gray to dark gray sand; slight odor.
					Water table at 10 feet bls.
S-3	4	230	--	230	Well sorted, fine-grained, light gray to dark gray sand; slight odor.
	6	260	--	260	Well sorted, fine-grained, light gray to dark gray sand; slight odor.
	8	810	60	850	Well sorted, fine-grained, light gray to dark gray sand; slight odor.
					Water table at 10 feet bls.
S-4	4	60	--	60	Well sorted, fine-grained, dark gray sand; slight odor.
	6	230	--	230	Well sorted, fine-grained, dark gray sand; slight odor.
	8	260	20	240	Well sorted, fine-grained, dark gray sand; slight odor.
					Water table at 10 feet bls.

See notes at end of table.

Table 3 (Continued)
Summary of Organic Vapor Analysis, June 9, 1997

Initial Remedial Action
Tank Closure Assessment Report
Building 7174, McCoy Annex
Naval Training Center
Orlando, Florida

Soil Sample	Depth (feet bls)	Unfiltered[1] (ppm)	Filtered[2] (ppm)	Total Hydrocarbons (ppm)	Soil Profile and Comments
S-5	4	80	--	80	Well sorted, fine-grained, light gray to dark gray sand; slight odor.
	6	160	15	145	Well sorted, fine-grained, light gray to dark gray sand; slight odor.
	8	290	20	270	Well sorted, fine-grained, light gray to dark gray sand; slight odor.
					Water table at 10 feet bls.
S-6	4	5	--	5	Well sorted, fine-grained, light gray to dark gray sand; slight odor.
	6	15	--	15	Well sorted, fine-grained, light gray to dark gray sand; slight odor.
	8	55	--	55	Well sorted, fine-grained, light gray to dark gray sand; slight odor.
					Water table at 10 feet bls.
S-7	4	600	10	590	Well sorted, fine-grained, dark brown silty sand; strong odor.
	6	>1,000	200	800	Well sorted, fine-grained, dark brown silty sand; strong odor.
	8	>1,000	60	940	Well sorted, fine-grained, dark brown silty sand; strong odor.
					Water table at 10 feet bls.
S-8	4	>1,000	60	940	Well sorted, fine-grained, dark brown silty sand; strong odor.
	6	>1,000	200	800	Well sorted, fine-grained, dark brown silty sand; strong odor.
	8	>1,000	100	900	Well sorted, fine-grained, dark brown silty sand; strong odor.
					Water table at 10 feet bls.

See notes at end of table.

Table 3 (Continued)
Summary of Organic Vapor Analysis, June 11, 1997

Initial Remedial Action
Tank Closure Assessment Report
Building 7174, McCoy Annex
Naval Training Center
Orlando, Florida

Soil Sample	Depth (feet bls)	Unfiltered[1] (ppm)	Filtered[2] (ppm)	Total Hydrocarbons (ppm)	Soil Profile and Comments
S-9	4	>1,000	15	985	Well sorted, fine-grained. dark brown silty sand; strong odor.
	6	>1,000	15	985	Well sorted, fine-grained. dark brown silty sand; strong odor.
	8	>1,000	5	995	Well sorted, fine-grained, dark brown silty sand; strong odor.
					Water table at 10 feet bls.
S-10	4	>1,000	25	975	Well sorted, fine-grained, dark brown silty sand; strong odor.
	6	>1,000	55	945	Well sorted, fine-grained, dark brown silty sand; strong odor.
	8	>1,000	65	935	Well sorted, fine-grained, dark brown silty sand; strong odor.
					Water table at 10 feet bls.
S-11	4	>1,000	150	850	Well sorted, fine-grained, dark brown silty sand; strong odor.
	6	>1,000	10	990	Well sorted, fine-grained, dark brown silty sand; strong odor.
	8	650	<1	650	Well sorted, fine-grained, dark brown silty sand; strong odor.
					Water table at 10 feet bls.
S-12	4	>1,000	900	100	Well sorted, fine-grained, dark brown silty sand; strong odor.
	6	>1,000	450	550	Well sorted, fine-grained, dark brown silty sand; strong odor.
	8	>1,000	10	990	Well sorted, fine-grained, dark brown silty sand; strong odor.
					Water table at 10 feet bls.

See notes at end of table.

Table 3 (Continued)
Summary of Organic Vapor Analysis, June 11, 1997

Initial Remedial Action
Tank Closure Assessment Report
Building 7174, McCoy Annex
Naval Training Center
Orlando, Florida

Soil Sample	Depth (feet bls)	Unfiltered[1] (ppm)	Filtered[2] (ppm)	Total Hydrocarbons (ppm)	Soil Profile and Comments
S-13	4	>1,000	20	980	Well sorted, fine-grained, dark brown silty sand; strong odor.
	6	>1,000	<1	>1,000	Well sorted, fine-grained, dark brown silty sand; strong odor.
	8	>1,000	10	990	Well sorted, fine-grained, dark brown silty sand; strong odor.
					Water table at 10 feet bls.
S-14	4	>1,000	<1	>1,000	Well sorted, fine-grained, dark brown silty sand; strong odor.
	6	>1,000	10	990	Well sorted, fine-grained, dark brown silty sand; strong odor.
	8	>1,000	<1	>1,000	Well sorted, fine-grained, dark brown silty sand; strong odor.
					Water table at 10 feet bls.
S-15	4	>1,000	<1	>1,000	Well sorted, fine-grained, dark brown silty sand; strong odor.
	6	>1,000	<1	>1,000	Well sorted, fine-grained, dark brown silty sand; strong odor.
	8	>1,000	<1	>1,000	Well sorted, fine-grained, dark brown silty sand; strong odor.
					Water table at 10 feet bls.
S-16	4	500	150	350	Well sorted, fine-grained, dark brown silty sand; strong odor.
	6	150	<1	150	Well sorted, fine-grained, dark brown silty sand; strong odor.
	8	100	10	90	Well sorted, fine-grained, dark brown silty sand; strong odor.
					Water table at 10 feet bls.

See notes at end of table.

Table 3 (Continued)
Summary of Organic Vapor Analysis, June 12, 1997

Initial Remedial Action
Tank Closure Assessment Report
Building 7174, McCoy Annex
Naval Training Center
Orlando, Florida

Soil Sample	Depth (feet bls)	Unfiltered[1] (ppm)	Filtered[2] (ppm)	Total Hydrocarbons (ppm)	Soil Profile and Comments
S-17	4	>1,000	<1	>1,000	Well sorted, fine-grained, dark brown silty sand; strong odor.
	6	>1,000	200	800	Well sorted, fine-grained, dark brown silty sand; strong odor.
	8	550	50	500	Well sorted, fine-grained, dark brown silty sand; strong odor.
					Water table at 10 feet bls.
S-18	4	50	20	30	Well sorted, fine-grained, dark brown silty sand; strong odor.
	6	10	--	10	Well sorted, fine-grained, dark brown silty sand; strong odor.
	8	60	--	60	Well sorted, fine-grained, dark brown silty sand; strong odor.
					Water table at 10 feet bls.
S-19	4	200	75	125	Well sorted, fine-grained, dark brown silty sand; strong odor.
	6	80	--	80	Well sorted, fine-grained, dark brown silty sand; strong odor.
	8	4	--	4	Well sorted, fine-grained, dark brown silty sand; strong odor.
					Water table at 10 feet bls.
S-20	4	520	10	510	Well sorted, fine-grained, dark brown silty sand; strong odor.
	6	120	40	80	Well sorted, fine-grained, dark brown silty sand; strong odor.
	8	>1,000	<1	>1,000	Well sorted, fine-grained, dark brown silty sand; strong odor.
	10	250	20	230	Well sorted, fine-grained, dark brown silty sand; strong odor.
					Water table at 10 feet bls.

See notes at end of table.

Table 3 (Continued)
Summary of Organic Vapor Analysis, June 12, 1997

Initial Remedial Action
Tank Closure Assessment Report
Building 7174, McCoy Annex
Naval Training Center
Orlando, Florida

Soil Sample	Depth (feet bls)	Unfiltered[1] (ppm)	Filtered[2] (ppm)	Total Hydrocarbons (ppm)	Soil Profile and Comments
S-21	4	550	50	500	Well sorted, fine-grained, dark brown silty sand; strong odor.
	6	200	80	120	Well sorted, fine-grained, dark brown silty sand; strong odor.
	8	>1,000	<1	>1,000	Well sorted, fine-grained, dark brown silty sand; strong odor.
					Water table at 10 feet bls.
S-22	4	20	--	20	Well sorted, fine-grained, dark brown silty sand; strong odor.
	6	4	--	4	Well sorted, fine-grained, dark brown silty sand; strong odor.
	8	100	–	100	Well sorted, fine-grained, dark brown silty sand; strong odor.
					Water table at 10 feet bls.
S-23	4	50	--	50	Well sorted, fine-grained, dark brown silty sand; strong odor.
	6	60	--	60	Well sorted, fine-grained, dark brown silty sand; strong odor.
	8	120	20	100	Well sorted, fine-grained, dark brown silty sand; strong odor.
					Water table at 10 feet bls.
S-24	4	70	10	60	Well sorted, fine-grained, dark brown silty sand; strong odor.
	6	30	–	30	Well sorted, fine-grained, dark brown silty sand; strong odor.
	8	110	–	110	Well sorted, fine-grained, dark brown silty sand; strong odor.
					Water table at 10 feet bls.

[1] Unfiltered sample readings are for total hydrocarbons, including methane.
[2] Filtered sample readings are for methane only.

Notes: <1 ppm indicates the nondetectable limit for Foxboro-128™.

ID = identification.
bls = below land surface.
ppm = parts per million.
-- = not sampled.
> = greater than.
< = less than.

2.3 TRANSPORT AND DISPOSAL OF SOIL. Three composite soil samples were collected from the second pile (free-product saturated soil) for analysis prior to disposal. Preburn soil samples were composited from samples of different depths and mixed in stainless-steel bowls. The samples were then placed in sample containers, logged on a chain-of-custody form, and delivered to PC&B Environmental Laboratories in Oviedo, Florida, to be analyzed for volatile halocarbons (U.S. Environmental Protection Agency [USEPA] Method 8010), volatile organic aromatics (VOAs) (USEPA Method 8020), total recoverable petroleum hydrocarbons (TRPH) (USEPA Method 9073), and eight Resource Conservation and Recovery Act (RCRA) metals. Laboratory analytical reports are included in Attachment E.

The saturated soil was transported by PWC, Pensacola to C.A. Meyer Paving and Construction Co., in Clermonte, Florida, to be thermally treated. Preburn and postburn laboratory analytical reports and the Certificate of Materials Recycling are included as Attachment E.

The nonsaturated contaminated soil (1,900 yd^3) was transported on June 12, 1997, to two separate landfarming areas. Landfarm area 1 (70 feet by 270 feet) contained about 1,000 yd^3 of contaminated soil, and landfarm area 2 (80 feet by 300 feet) contained about 900 yd^3 of contaminated soil. Site plan for landfarm areas 1 and 2 are shown on Figures 4 and 5, respectively. The landfarming areas were tilled daily for the first week, then once a week. The soil was covered with clear plastic after tilling. ABB-ES was responsible for sampling the soil at the landfarm areas and analyzing soil samples using an OVA. Soil sampling and analysis was conducted periodically. The OVA results show that readings were greater than 1,000 ppm in most of the sampled locations within the landfarms. On July 16, 1997, SOUTHNAVFACENGCOM decided to burn the 1,900 yd^3 of petroleum-contaminated soils.

On July 21, 1997, PWC, Pensacola stockpiled the contaminated soil from the former landfarm areas 1 and 2 and covered it with thick plastic liner in preparation for transfer to a thermal treatment facility. On July 24, 1997, ABB-ES collected eight composite soil samples from both piles at the former landfarm areas. Preburn soil samples were composited from samples of different depths within the stockpiles and mixed in stainless-steel bowls. The samples were then placed in sample containers, logged on a chain-of-custody form, and delivered to ENCO Environmental Laboratories in Orlando, Florida, to be analyzed for volatile halocarbons (USEPA Method 8010), VOAs (USEPA Method 8020), TRPH (USEPA Method 9073), and eight RCRA metals. Laboratory analytical reports are included in Attachment G.

2.4 SITE RESTORATION. The excavated area on the southwest side of Building 7174 was backfilled with clean fill material (well sorted, light gray, fine sand) to surface grade in order to bring the site to the preexisting grade before the tank removal and the IRA.

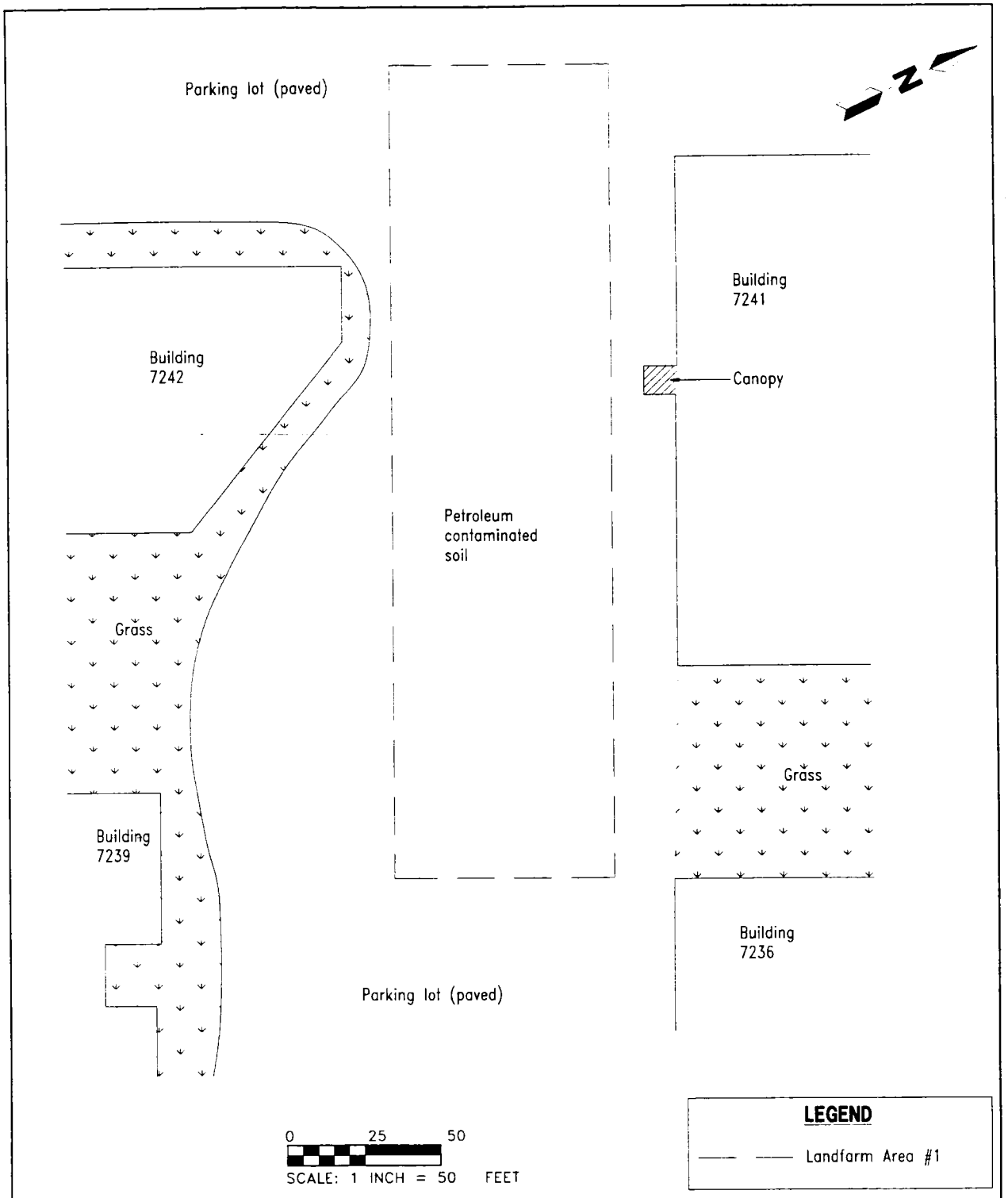


FIGURE 4
SITE PLAN FOR LANDFARM AREA 1

H:\OLD\CONSDPL2.DWG, PDP-NP-SEG 09/22/97 11:02:44, AutoCAD R12

INITIAL REMEDIAL ACTION PLAN
TANK CLOSURE ASSESSMENT
REPORT, BUILDING 7174
MCCOY ANNEX
NAVAL TRAINING CENTER
ORLANDO, FLORIDA

3.0 CONCLUSIONS AND RECOMMENDATIONS

The IRA activities conducted at Building 7174, McCoy Annex, were conducted in conjunction with the proper closure of the eight petroleum USTs. A total of 2,100 yd^3 of excessively contaminated soil was excavated: 200 yd^3 from inside the tanks and 1,900 yd^3 surrounding the tanks. The excessively contaminated soil was transported to C.A. Meyer Paving and Construction Co., in Clermonte, Florida, for thermal treatment. Based on the information included in this report, ABB-ES recommends the preparation of a Contamination Assessment Report for the site in accordance with Chapter 62-770, FAC, to determine the impact to the groundwater at the subject site.

REFERENCE

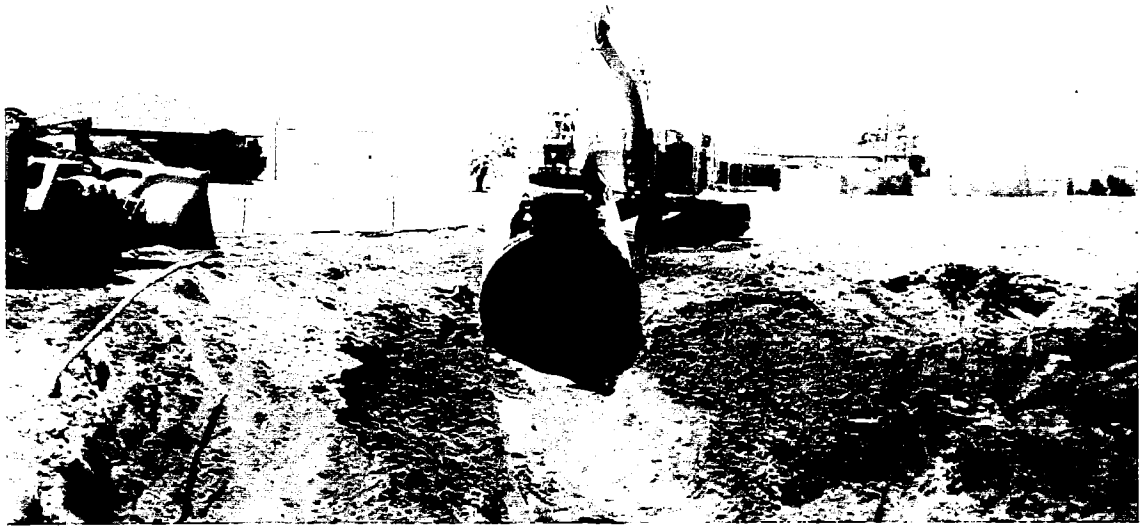
FDEP. 1992. *Guidelines for the Assessment and Remediation of Petroleum Contaminated Soils*. Tallahassee, Florida (May).

ATTACHMENT A

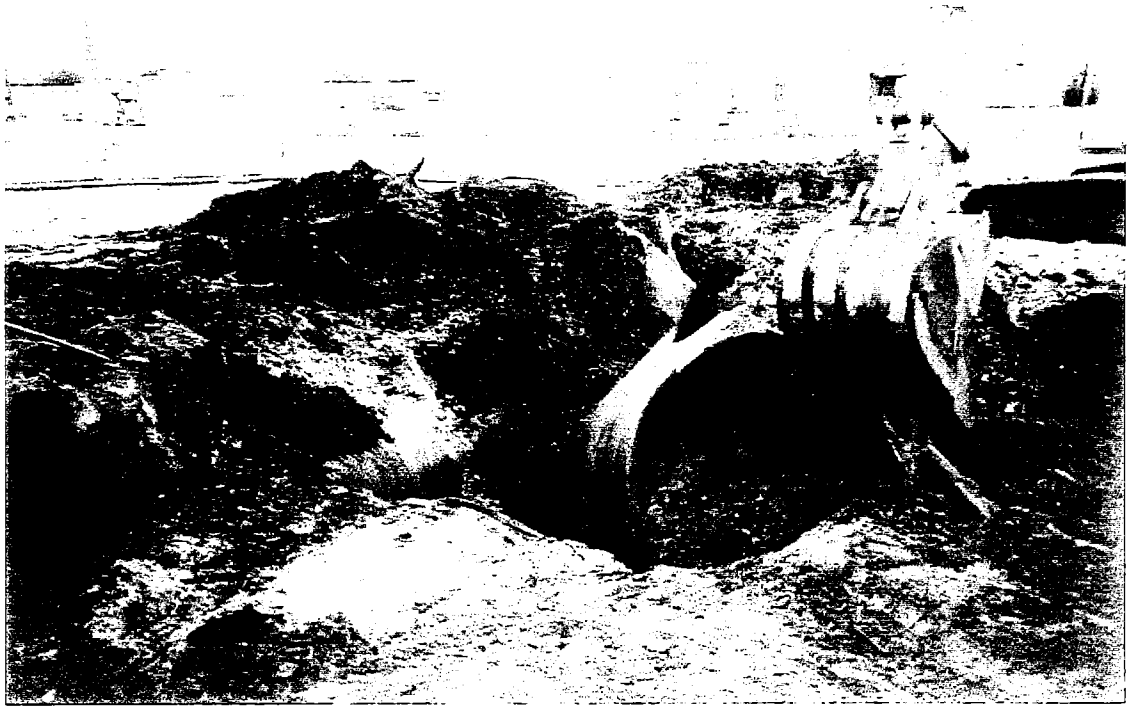
PHOTOGRAPHS

Photograph 1: View of UST 7 being removed, Building 7174.

Photograph 2: View of UST 8 being removed, Building 7174.

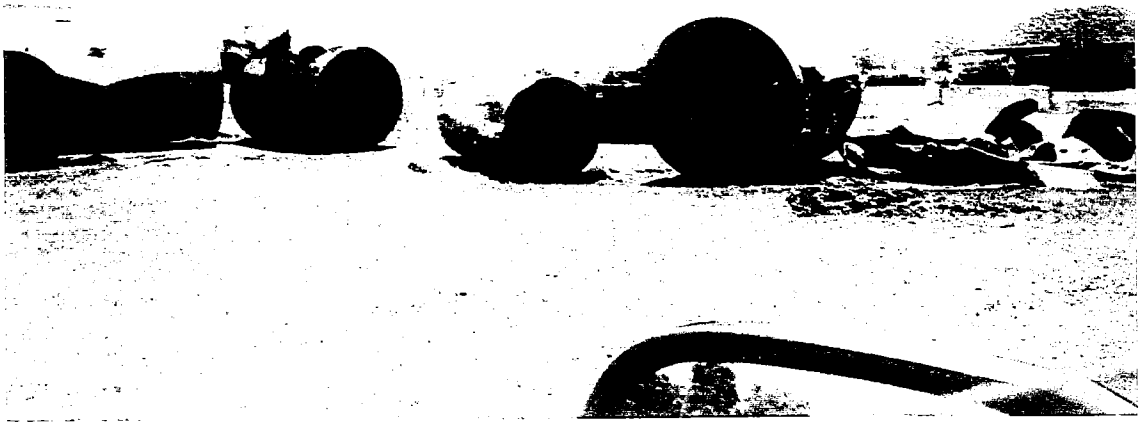


Photograph 3: View of the removed 5,000-gallon UST, Building 7174.



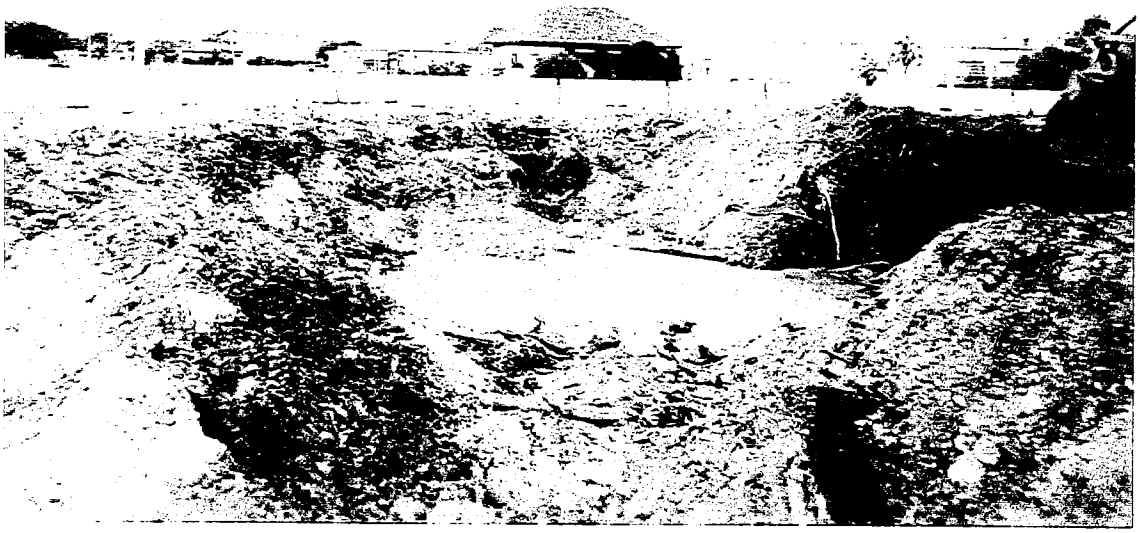
Photograph 4: View of excavation while pulling UST.

Photograph 5: View of the removed 3,000-gallon UST, Building 7174.



Photograph 6: View of the removed tanks, Building 7174.

Photograph 7: View of the bottom of the excavation, facing east.



Photograph 8: View of the bottom of the excavation, facing west, showing water table.

ATTACHMENT B

TANK RECYCLING CERTIFICATION

INTERNATIONAL OIL SERVICE

TRANSPORTATION AND
RECEIVING MANIFEST

DIV. OF INTERNATIONAL PETROLEUM CORP.

STATE CERTIFIED RECYCLER, TRANSPORTER AND COLLECTION FACILITY

EPA I.D. No. FLD 065580613
SO. 29-181143

LAD 082096106

MOD 961114061
LA I.D. No. GT—186

☐ PLANT CITY, FL 33566
105 SE ALEXANDER ST.
(813) 754-1504
TAMPA, FL
(813) 229-1739
(800) 282-9585
FAX: 1. (813) 754-3788

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(800) 523-9071

☐ WILMINGTON, DE 19801
506 S. MARKET ST.
(302) 421-9367

☐ BALTIMORE, MD 21224
6306 E. LOMBARD ST.
(800) 222-2511

IDENTIFICATION

U369 US WC — Date Shipped 6/17/97
1537 Gr[illegible] Hyer — Time
Orlando FL 32813 — Phone 645-4651
CITY STATE ZIP

INFORMATION

PROPER SHIPPING NAME	HAZARD CLASS	IDENTIFICATION NUMBER	PACKING GROUP	N.A.E.R.G.
COMBUSTIBLE LIQUID, N.O.S. (CONTAINS PETROLEUM OIL)	COMBUSTIBLE LIQUID	NA 1993	III	128

SOURCE TYPE (USED OIL)
COIA $0.14 water

PETROLEUM CONTACT WATER
NOT MIXED WITH ANY OTHER
HAZARDOUS CONSTITUANT

N165114 97M 2385

SPECIAL HANDLING INSTRUCTIONS
END USE CODE MIN/SR

EMERGENCY RESPONSE NUMBER
CHEMTREC 1-800-424-9300

CERTIFICATION

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

This is to further certify under penalty of law that the above-named materials have not been mixed with hazardous waste according to the rules of the U.S. Environmental Protection Agency and the Florida Department of Environmental Protection.

X [signature] 6/17/97
GENERATOR SIGNATURE DATE

[signature] 6/17/97
TRANSPORTER No. 2 SIGNATURE / DATE

SIGNATURE DATE

CONTAINERS		QUANTITY T.	UNIT
1	TT		GAL
No.	TYPE		

DEDUCTIONS
NET GALLONS 1800
PRICE PER GALLON .50
FREIGHT —
TOTAL 900.00

97-PC 9555
MANIFEST DOCUMENT NO.

☐ CASH ☑ CHARGE (INVOICE TO FOLLOW)

White - Original Yellow - Receiving Facility Pink - Transporter G'rod - Generator

prestige printing pp-3094R 7/89

INTERNATIONAL OIL SERVICE

TRANSPORTATION AND
RECEIVING MANIFEST

DIV. OF INTERNATIONAL PETROLEUM CORP.

STATE CERTIFIED RECYCLER, TRANSPORTER AND COLLECTION FACILITY

EPA I.D. No. FLD 065680613
SQ 29-181143

☑ PLANT CITY, FL 33566
108 SE ALEXANDER ST.
(813) 754-1504
TAMPA, FL
(813) 229-1739
(800) 282-9685
FAX 1 (813) 754-3789

☐ WILMINGTON, DE 19801
506 S. MARKET ST.
(302) 421-9307

LAD 082099106

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14890 INTRACOASTAL DR.
(504) 254-9021
(800) 523-9971

☐ BALTIMORE, MD 21224
6305 E. LOMBARD ST.
(800) 222-2511

IDENTIFICATION

Generator/Shipper: N1731 Nav Ex # 7174 — Date Shipped: 6/13/97
Address: Bldg 16 Tank — Time:
City: Orlando, FL — State — Zip: 32827 — Phone: 646-4351

INFORMATION

PROPER SHIPPING NAME	HAZARD CLASS	IDENTIFICATION NUMBER	PACKING GROUP	N.A.E.R.G.
COMBUSTIBLE LIQUID, N.O.S. (CONTAINS PETROLEUM OIL)	COMBUSTIBLE LIQUID	NA 1993	III	128

SOURCE TYPE (USED OIL)
ODA
N657M-97-M-2385

PETROLEUM CONTACT WATER
NOT MIXED WITH ANY OTHER
HAZARDOUS CONSTITUANT

SPECIAL HANDLING INSTRUCTIONS
END USE CODE MINI/SR

EMERGENCY RESPONSE NUMBER
CHEMTREC 1-800-424-9300

CERTIFICATION

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

This is to further certify under penalty of law that the above-named materials have not been mixed with hazardous waste according to the rules of the U.S. Environmental Protection Agency and the Florida Department of Environmental Protection.

Generator's Signature — Date: 6/13/97

Transporter No. 2 Signature & Date: 6/17/97

Signature — Date

CONTAINERS		QUANTITY	UNIT
1	TT		GAL
No.	TYPE		

DEDUCTIONS
NET GALLONS: 1600
PRICE PER GALLON: .50
FREIGHT
TOTAL: 800.00

97-PC 9556
MANIFEST DOCUMENT NO.

☐ CASH ☑ CHARGE (INVOICE TO FOLLOW)

White - Original Yellow - Receiving Facility Pink - Transporter G'rod - Generator

prestige printing pp-3004/V 7/93

DD FORM 1348-1A (3C), JUL 91 ISSUE RELEASE/RECEIPT DOCUMENT

*U.S. GOVERNMENT PRINTING OFFICE 1994-385-800

DI OD CE NT	RI FROM	M & S	UI NS IT	QUANTITY	SER	SUPPLEMENTARY ADDRESS	SIG	FUND	DISTRIBUTION	PROJECT	PRI	RDD EEA OLT DE	ADV	RI	O/P	CONDITION	MGT
A5J	063S	LT0001		2S	S/R/T		N/A							H			

1 TOTAL PRICE: UNIT PRICE DOLLARS $ 20 CTS 0; DOLLARS $ 60 CTS .00

2. SHIP FROM: NTC Orlando

3. SHIP TO: DRMO SY2354

4. MARK FOR: HM or HW

5 DOC DATE: 7153

6. NMFC

7. FRT RATE

8. TYPE CARGO

9. PS

10 QTY RECD

11 UP

12. UNIT WEIGHT: 25.00

13 UNIT CUBE

14. UFC

15 SL

16 FREIGHT CLASSIFICATION NOMENCLATURE: Piping, Storage tank

17 ITEM NOMENCLATURE: Piping, Storage tank

18 TY CONT

19 NO CONT

20 TOTAL WEIGHT: 75.0

21 TOTAL CUBE

22 RECEIVED BY

23 DATE RECEIVED

24 DOCUMENT NUMBER & SUFFIX (30-44)

N6592871530551
MSDS#:

25 NATIONAL STOCK NO & ADD (6-22)

NSN#: 4710-LL-piping

RCRA CODE:
DOT:

HZBLDG137

26 PIC (44) UI (23-24) QTY (25-29) CON CODE (71) DEST (55-58) UP (74-80)

PACKAGED IN ACCORDANCE WITH DOT 49 CFR 170-189

Mark S. Zill

MARK S. ZILL
ENVIRONMENTAL MANAGEMENT

EDWARD H. WALKER
PROPERTY MANAGEMENT

27 ADDITIONAL DATA

Bill to: N65928
CLIN #: 0000 $0.00
Total Disposal Cost: $0000.00
AA 1771804.62M4 250 065928 0 068566 2D 71250551 065928-7-18-07QQ
DOT Shipping Name: Piping, Storage tank

PREVIOUS EDITION MAY BE USED

S/N 0102-LF-016-4100

DD FORM 1348-1A (3C), JUL 91 ISSUE RELEASE/RECEIPT DOCUMENT

U.S. GOVERNMENT PRINTING OFFICE 1994-385-800

DI OD CE NT	RI FROM	M & S	UI NS IS T	QUANTITY	SER	SUPPLEMENTARY ADDRESS	SIG	FUND	DISTRIBUTION	PROJECT	PRI	RDD EEA OLT DE	ADV	RI	O/P	CONT	MGT
A5J	063S	EA0008					2S	S/R/T				N/A			H		

UNIT PRICE		DOLLARS	CTS
$5000.0		$40000.00	

1. TOTAL PRICE

2. SHIP FROM: NTC Orlando

3. SHIP TO: DRMO SY2354

4. MARK FOR: HM or HW

5. DOC DATE	6. NMFC	7. FRT RATE	8. TYPE CARGO	9. PS
7153				

10. QTY. REC'D	11. UP	12. UNIT WEIGHT	13. UNIT CUBE	14. UFC	15. SL
	2000	.00			

16. FREIGHT CLASSIFICATION NOMENCLATURE: Undergroung Fuel Storage Tank

17. ITEM NOMENCLATURE: Underground Fuel Storage Tank

18. TY CONT	19. NO CONT	20. TOTAL WEIGHT	21. TOTAL CUBE
		6000.0	

22. RECEIVED BY

23. DATE RECEIVED

24. DOCUMENT NUMBER & SUFFIX (30-44)

N6592871530550

MSDS#:

25. NATIONAL STOCK NO. & ADD (6-22)

NSN# 5430-LL-gastanks

Tanks were triple rinsed
Ends have been removed

Tanks: 7174 1-6 &-11,-12

26. REC (4-6) UI (23-24) QTY (25-29) CON CODE (71) DIST (135-50) UP (74-80)

PACKAGED IN ACCORDANCE WITH DOT 49 CFR 170-189

MARK S. ZILL
ENVIRONMENTAL MANAGEMENT

EDWARD H. WALKER
PROPERTY MANAGEMENT

27. ADDITIONAL DATA

Bill to: N65928
CLIN #: 0000 @ $0.00
Total Disposal Cost: $00.00
AA 1771804.62M4 250 065928 0 068566 2D 71530550 065928-7-18-07QQ
DOT Shipping Name: Storage Tanks, Gen Haz, Non Reg

PREVIOUS EDITION MAY BE USED

S/N 0102-LF-016-4100

DOC. IDENT. | RI FROM | M&S | STOCK NUMBER FSC 9520 | NIIN WST 00 PIPES | UNIT OF ISSUE LB | QUANTITY 2000 | DOCUMENT NUMBER N65114-7072-9000 | SUPPLEMENTARY ADDRESS | SIGNAL | FUND | DISTRIBUTION | PROJECT | PRIORITY | REQ DELIV DATE RN6 | ADVICE | RI | UNIT PRICE DOLLARS CTS

SHIPPED FROM: NAVI PWC FL917002 4567 452-2170 A

SHIP TO: DRMO FL917002 4567 452-4334 B

MARK FOR: MATERIAL C

PROJECT: Navy exchange Shopping mall D

TOTAL PRICE DOLLARS CTS E

WAREHOUSE LOCATION: NPWC 912 BLDG. 3819 F

TYPE OF CARGO G | UNIT PACK H | UNIT WEIGHT I | UNIT CUBE J | U F C K | N M F C L | FREIGHT RATE M | N | DOCUMENT DATE O | MAT COND P | QUANTITY Q | R | S

SUBSTITUTE DATA (ITEM ORIGINALLY REQUESTED) T

FREIGHT CLASSIFICATION NOMENCLATURE U UNDERGROUND PIPES

W

ITEM NOMENCLATURE X SCRAP METAL

V

Y

SHIPPERS USE

SELECTED BY AND DATE 1 | TYPE OF CONTAINER(S) 2 | TOTAL WEIGHT 3

PACKED BY AND DATE 4 | NO. OF CONTAINER(S) 5 | TOTAL CUBE 6

RECEIVERS USE

RECEIVED BY AND DATE 7 M Fallon 3/13/97 | INSPECTED BY AND DATE 8

WAREHOUSED BY AND DATE 9 | WAREHOUSE LOCATION 10

REMARKS: AA BB CC DD EE

FIRST DESTINATION ADDRESS 11 | DATE SHIPPED 12

13 TRANSPORTATION CHARGEABLE TO FF

14 B/LADING, AWB, OR RECEIVER'S SIGNATURE (AND DATE) 3-13-97 GG

15 RECEIVER'S DOCUMENT NUMBER

DD FORM 1348-1 1 MAR 74 S/N 0102-LF-013-1040

EDITION OF 1 JAN 64 MAY BE USED UNTIL EXHAUSTED

DOD SINGLE LINE ITEM RELEASE/RECEIPT DOCUMENT

2

ATTACHMENT C

UST INSTALLATION AND REMOVAL FORM

Florida Department of Environmental Regulation
Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

DER Form # 17-761.900(5)
Form Title Underground Storage Tank Installation & Removal Form for Certified Contractors
Effective Date December 10, 1990
DER Application No. _____ (Filled in by DER)

Underground Storage Tank Installation and Removal Form For Certified Contractors

Pollutant Storage System Specialty Contractors as defined in Section 489.113, Florida Statutes (Certified contractors as defined in Section 17-761.200, Florida Administrative Code) shall use this form to certify that the installation, replacement or removal of the storage tank system(s) located at the address listed below was performed in accordance with Department Reference Standards.

General Facility Information

1. DER Facility Identification No.: 4 98840202 48/8513213 48/9631018
2. Facility Name: US Navy Naval Training Center Telephone: (407) 646-4663
3. Street Address (physical location): Service Station, Building 7174
   Naval Training Center, McCoy Annex, Orlando, Florida
4. Owner Name: Commander, Naval Training Center Telephone: (407) 646-4663
5. Owner Address: 1350 Grace Hopper Avenue (Code 010E), Orlando, Florida
6. Number of Tanks: a. Installed at this time _____ b. Removed at this time 7
7. Tank(s) Manufactured by: Unknown
8. Date Work Initiated: 5/20/97 9. Date Work Completed: 6/3/97

Underground Pollutant Tank Installation Checklist

Please certify the completion of the following installation requirements by placing an (X) in the appropriate box.

1. The tanks and piping are corrosion resistant and approved for use by State and Federal Laws. ☐
2. Excavation, backfill and compaction completed in accordance with NFPA (National Fire Protection Association) 30(87), API (American Petroleum Institute) 1615, PEI (Petroleum Equipment Institute) RP100-87 and the manufacturers' specifications. ☐
3. Tanks and piping pretested and installed in accordance with NFPA 30(87), API 1615, PEI/RP100(87) and the manufacturers' specifications. ☐
4. Steel tanks and piping are cathodically protected in accordance with NFPA 30(87), API 1632, UL (Underwriters Laboratory) 1746, STI (Steel Tank Institute) R892-89 and the manufacturer's specifications. ☐
5. Tanks and piping tested for tightness after installation in accordance with NFPA 30(87) and PEI RP100-87. ☐
6. Monitoring well(s) or other leak detection devices installed and tested in accordance with Section 17-761.640, Florida Administrative Code (F.A.C.) ☐
7. Spill and overfill protection devices installed in accordance with Section 17-761.500, F.A.C. ☐
8. Secondary containment installed for tanks and piping as applicable in accordance with Section 17-761.500, F.A.C. ☐

Please Note: The numbers following the abbreviations (e.g. API 1615) are publication or specification numbers issued by these instututions.

Underground Pollutant Tank Removal Checklist

Closure assessment performed in accordance with Section 17-761.800, F.A.C. ☐

Underground tank removed and disposed of as specified in API 1604 in acordance with Section 17-761.800, F.A.C. ☒

Northwest District 160 Governmental Center Pensacola, Florida 32501-5794 904-436-8300
Northeast District 7825 Baymeadows Way, Suite B 200 Jacksonville, Florida 32207 904-798-4200
Central District 3319 Maguire Blvd. Suite 232 Orlando, Florida 32803-3767 407-894-7555
Southwest District 4520 Oak Fair Blvd Tampa, Florida 33610-7347 813-623-5561
South District 2269 Bay St Fort Myers, Florida 33901-2896 813 332 6975
Southeast District 1800 S. Congress Ave., Suite A West Palm Beach, Florida 33406 407 433 2650

ATTACHMENT D

INITIAL REMEDIAL ACTION NOTIFICATION FORM

INITIAL REMEDIAL ACTION NOTIFICATION FORM

This notification provides written confirmation of initial remedial action (IRA) as required by Chapter 17-770.300(5) and (8), Florida Administrative Code. Notification must be within three working days of initiation of an IRA. The notification must be submitted to the appropriate contracted local program and/or:

Florida Department of Environmental Protection
Bureau of Waste Cleanup
Engineering Support Section
2600 Blair Stone Road
Tallahassee, FL 32399-2400
(904) 488-3935

Upon completion of the IRA program task, an Initial Remedial Aciton Report (or its equivalency) should be submitted for technical review.

I. **FACILITY NAME:** Site 7174

Facility Address: McCoy Annex, NTC Orlando

DER Facility Number (if applicable): N/A

Date IRA Initiated: 5-28-97 Date IRA Completed: 6-12-97

II. **FREE PRODUCT RECOVERY**

A. Type(s) of Product Discharged: Unleaded andleaded gasoline product.

B. Quantity

1. Estimated Gallons Lost: Unknown

C. Method of Product Recovery: N/A

D. Type of Discharge During Product Recovery: N/A

E. Type of Treatment, i.e., Oil/Water Separator: and Expected Effluent Quality from Any Discharge: N/A

F. Quantity and Disposal of Recovered Product: N/A

III. SOIL EXCAVATION

A. Estimated Volume of Excessively Contaminated Soil Excavated in Cubic Yards: 2,200 cyds

B. Estimated Dimensions of Excavation Including Depth of Excavation(s): 105' X 125' X 12'

C. Type(s) of Product in Soil: _____

D. Type of Instrument and Method Used to Determine Excessive Soil Contamination: Porta FID organic vapor analyzer.

IV. ADDITIONAL COMMENTS: N/A

Mirna Barg
Print Person Completing Form

_____ Project Engineer
Signature, Date **Title, Affiliation**

ABB Environmental Services

1080 Woodcock Rd. Orlando, FL.
Company Address

(407) 895-8845
Phone Number

ATTACHMENT E

PREBURN AND POSTBURN LABORATORY ANALYTICAL REPORTS

PC&B Environmental Laboratories, Inc.
210 Park Road, Oviedo, Florida 32765
Phone: 407-359-7194 Fax: 407-359-7197

COPY

06-11-1997

John Kaiser
ABB Environmental Services
1080 Woodcock Road, Suite 100
Orlando, FL 32803-

Dear John Kaiser:

Enclosed are the results of the analysis of your samples received 06/04/1997.

Our laboratory is certified by the Florida DHRS (Lab #E83239) and operates under an FDEP approved Comprehensive Quality Assurance Plan (#900134G). Unless otherwise noted, all results are reported as wet weight. All data were determined in accordance with published procedures (EPA-600/4-79-020), Methods for Chemical Analysis of Water and Wastes, Revised March 1983 and/or Standard Methods for the examination of Water and Wastewater, 18th Edition 1989 and/or Test Methods for Evaluating Solid Waste (EPA-SW-846, Revised January 1995), unless stated otherwise in our CompQapp under method modifications.

If you have any questions, please do not hesitate to give me a call.

Sincerely,

Declan Cowley
Laboratory Director

PC&B Environmental Laboratories, Inc.

210 Park Road, Oviedo, Florida 32765
Phone: 407-359-7194 Fax: 407-359-7197

Client : ABB Environmental Services
1080 Woodcock Road, Suite 100
Orlando, FL 32803-

Contact : John Kaiser
Phone : (407) 895-8845

Laboratory Reference Number : 97060023

Project Name : Site 7174
Project Number :
Sample temperature at time of receipt: 4 degrees C

Chain of Custody : 52866

Laboratory ID	Matrix	Client ID	Status	Date/Time Sampled
97060023-1	Soil	SS-1 (SOUTH)	RUN	06/04/1997 08:40
97060023-2	Soil	SS-2 (WEST)	RUN	06/04/1997 08:45
97060023-3	Soil	SS-3 (NORTH)	RUN	06/04/1997 08:50

Number	Parameter	Description
3	Group Test	EPA 8010/8020 Volatile Organics
3	Group Test	RCRA Metals by ICAP in Soil
3	EPA 9073	TRPH by IR

PC&B Environmental Laboratories, Inc.
210 Park Road
Oviedo, FL 32765
PHONE: 407-359-7194
FAX: 359-7197

Halogenated Volatile Organics

CLIENT NAME: ABB Environmental Services
PROJECT NAME: Site 7174
PROJECT NUMBER:
DATE RECEIVED: 06/04/1997
ANALYTICAL PROTOCOL: EPA 8010

Lab Reference Number	97060023-1	97060023-2	97060023-3
Client Sample ID	SS-1 (SOUTH)	SS-2 (WEST)	SS-3 (NORTH)
Date Sampled	06/04/1997	06/04/1997	06/04/1997
Date Extracted	06/05/1997	06/05/1997	06/10/1997
Date Analyzed	06/05/1997	06/05/1997	06/10/1997
Sample Matrix (as Received)	Soil	Soil	Soil
Analysis Confirmed	GCMS	GCMS	GCMS
Dilution Factor	1	1	1
Result Units	ug/kg	ug/kg	ug/kg
Bromobenzene	5 U	5 U	5 U
Bromodichloromethane	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U
Bromomethane	5 U	5 U	5 U
Carbon tetrachloride	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U
Chloroethane	5 U	5 U	5 U
2-Chloroethyl vinyl ether	5 U	5 U	5 U
Chloroform	5 U	5 U	5 U
Chloromethane	5 U	5 U	5 U
Dibromochloromethane	5 U	5 U	5 U
Dibromomethane	5 U	5 U	5 U
1,2-Dichlorobenzene	5 U	5 U	5 U
1,3-Dichlorobenzene	5 U	5 U	5 U
1,4-Dichlorobenzene	5 U	5 U	5 U
1,1-Dichloroethane	5 U	5 U	5 U
Dichlorodifluoromethane	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	5 U
trans-1,2-Dichloroethene	5 U	5 U	5 U
1,2-Dichloropropane	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U
trans-1,3-Dichloropropene	5 U	5 U	5 U
Methylene chloride	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U
1,1,1,2-Tetrachloroethane	5 U	5 U	5 U
Tetrachloroethene	5 U	5 U	5 U
1,1,1-Trichloroethane	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U
Trichloroethene	5 U	5 U	5 U
Trichlorofluoromethane	5 U	5 U	5 U
1,2,3-Trichloropropane	5 U	5 U	5 U
Vinyl chloride	5 U	5 U	5 U
cis-1,2-Dichloroethene	5 U	5 U	5 U

U = Undetected. The value preceeding the 'U' is the MDL for the analyte, based on dilution. Results reported on a Wet Weight basis.

FDEP CompQAPP # 900134G - FHRS Certification # E83239/83353

Reviewed by : _____

Quality Control Report for Spike/Spike Duplicate Analysis

Halogenated Volatile Organics

Matrix: Soil
Lab Sample ID: 9706028-2
QC Batch ID: 9706MS1009
Spike Units: ug/kg

Analysis Date: 06/05/1997
Preparation Date: 06/05/1997
Method: EPA 8010
Analyst: NM

Analyte	Spike Amount	Sample Result	Spike Result	Spike Percent Recovery	MSD Result	MSD Percent Recovery	RPD
Carbon tetrachloride	50	0	43	86	47	94	9
Chlorobenzene	50	0	46	92	50	100	8
1,4-Dichlorobenzene	50	0	44	88	50	100	13
1,1-Dichloroethene	50	0	50	100	48	96	4
Trichloroethene	50	0	49	98	52	104	6

Quality Control Limits

Analyte	Lower Limit	Upper Limit	RPD
Carbon tetrachloride	65	136	12
Chlorobenzene	72	124	9
1,4-Dichlorobenzene	38	161	21
1,1-Dichloroethene	63	143	13
Trichloroethene	64	137	12

Quality Control Report for LCS Analysis

Halogenated Volatile Organics

Matrix: Soil
Lab Sample ID: LCS
QC Batch ID: 9706MS1009
LCS Units: ug/kg

Analysis Date: 06/05/1997
Preparation Date: 06/05/1997
Method: EPA 8010
Analyst: NM

Analyte	LCS Conc	LCS Result	Percent Recovery	Lower Control Limit	Upper Control Limit
Carbon tetrachloride	20	17	85	62	134
Chlorobenzene	20	17	85	68	128
1,4-Dichlorobenzene	20	24	120	76	132
1,1-Dichloroethene	20	19	95	61	142
Trichloroethene	20	19	95	65	130

PC&B Environmental Laboratories, Inc.
210 Park Road
Oviedo, FL 32765
PHONE: 407-359-7194
FAX: 359-7197

Aromatic Volatile Organics

CLIENT NAME: ABB Environmental Services
PROJECT NAME: Site 7174
PROJECT NUMBER:
DATE RECEIVED: 06/04/1997
ANALYTICAL PROTOCOL: EPA 8020

Lab Reference Number	97060023-1	97060023-2	97060023-3
Client Sample ID	SS-1 (SOUTH)	SS-2 (WEST)	SS-3 (NORTH)
Date Sampled	06/04/1997	06/04/1997	06/04/1997
Date Extracted	06/05/1997	06/05/1997	06/10/1997
Date Analyzed	06/05/1997	06/05/1997	06/10/1997
Sample Matrix (as Received)	Soil	Soil	Soil
Analysis Confirmed	GCMS	GCMS	GCMS
Dilution Factor	1	1	1
Result Units	ug/kg	ug/kg	ug/kg
Benzene	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U
1,2-Dichlorobenzene	5 U	5 U	5 U
1,3-Dichlorobenzene	5 U	5 U	5 U
1,4-Dichlorobenzene	5 U	5 U	5 U
Ethylbenzene	9	9	5 U
MTBE	5 U	5 U	5 U
Toluene	5 U	5 U	5 U
Xylenes, Total	295	66	5 U

U = Undetected. The value preceeding the 'U' is the MDL for the analyte, based on dilution. Results reported on a Wet Weight basis.

FDEP CompQAPP # 900134G - FHRS Certification # E83239/83353

Reviewed by : _____

Quality Control Report for Spike/Spike Duplicate Analysis

Aromatic Volatile Organics

Matrix: Soil
Lab Sample ID: 9706028-2
QC Batch ID: 9706MS1009
Spike Units: ug/kg

Analysis Date: 06/05/1997
Preparation Date: 06/05/1997
Method: EPA 8020
Analyst: NM

Analyte	Spike Amount	Sample Result	Spike Result	Spike Percent Recovery	MSD Result	MSD Percent Recovery	RPD
Benzene	50	0	48	96	53	106	10
Ethylbenzene	50	0	45	90	46	92	2
MTBE	50	0	63	126	64	128	2
Toluene	50	0	51	102	52	104	2
Xylenes, Total	150	0	141	94	139	93	1

Quality Control Limits

Analyte	Lower Limit	Upper Limit	RPD
Benzene	55	150	12
Ethylbenzene	59	135	4
MTBE	51	165	5
Toluene	54	143	4
Xylenes, Total	62	131	3

Quality Control Report for LCS Analysis

Aromatic Volatile Organics

Matrix: Soil
Lab Sample ID: LCS
QC Batch ID: 9706MS1009
LCS Units: ug/kg

Analysis Date: 06/05/1997
Preparation Date: 06/05/1997
Method: EPA 8020
Analyst: NM

Analyte	LCS Conc	LCS Result	Percent Recovery	Lower Control Limit	Upper Control Limit
Benzene	20	17	85	**57**	**141**
Ethylbenzene	20	16	80	**59**	**127**
MTBE	20	23	115	**59**	**155**
Toluene	20	20	100	**60**	**135**
Xylenes, Total	60	54	90	**59**	**132**

PC&B Environmental Laboratories, Inc.
210 Park Road
Oviedo, FL 32765
PHONE: 407-359-7194

Report of Analysis

CLIENT NAME: ABB Environmental Services
PROJECT NAME: Site 7174
PROJECT NUMBER:
DATE RECEIVED: 06/04/1997

Reference Number			97060023-1	97060023-2	97060023-3
Client Sample ID			SS-1 (SOUTH)	SS-2 (WEST)	SS-3 (NORTH)
Date Sampled			06/04/1997	06/04/1997	06/04/1997
Sample Matrix (as Received)			Soil	Soil	Soil
EPA 6010	Arsenic, Total	mg/kg	0.5 U	0.5 U	0.5 U
EPA 6010	Barium, Total	mg/kg	12.0	2.0	7.6
EPA 6010	Cadmium, Total	mg/kg	0.1 U	0.1 U	0.1 U
EPA 6010	Chromium, Total	mg/kg	3.0	1.7	3.0
EPA 6010	Lead, Total	mg/kg	6.1	1.7	6.7
EPA 7471	Mercury, Total	mg/kg	0.10 U	0.10 U	0.10 U
EPA 6010	Selenium, Total	mg/kg	0.5 U	0.5 U	0.5 U
EPA 6010	Silver, Total	mg/kg	0.5 U	0.5 U	0.5 U
EPA 9073	TRPH	mg/kg	44	85	320

U = Undetected. The value preceeding the 'U' is the MDL for the analyte. Results reported on a Wet Weight basis.

FDEP CompQAPP # 900134G - FHRS Certification # E83239/83353

Reviewed by :

Quality Control Report for Spike Analysis

INORGANICS

Matrix: Soil
Lab Sample ID: 9706019-7

Analysis Date: 06/05/1997
Preparation Date: 06/05/1997

Analyte	Spike Amount	Sample Result	Spike Result	Percent Recovery	Lower Control Limit	Upper Control Limit
Arsenic, Total	20.0 mg/kg	0.0	20.5	103	67	118
Barium, Total	50.0 mg/kg	2.3	59.0	113	64	128
Cadmium, Total	10.0 mg/kg	0.0	10.4	104	66	118
Chromium, Total	10.0 mg/kg	1.3	12.0	107	63	130
Lead, Total	10.0 mg/kg	0.7	11.4	107	58	126
Selenium, Total	10.0 mg/kg	0.0	8.2	82	55	103
Silver, Total	10.0 mg/kg	0.0	9.6	96	63	109
Mercury, Total	0.50 mg/kg	0.00	0.45	90	81	124

Quality Control Report for Spike Analysis

INORGANICS

Matrix: Soil
Lab Sample ID: 9706019-7

Analysis Date: 06/05/1997
Preparation Date: 06/05/1997

Analyte	Spike Amount	Sample Result	Spike Result	Percent Recovery	Lower Control Limit	Upper Control Limit
Arsenic, Total	20.0 mg/kg	0.0	20.5	103	67	118
Barium, Total	50.0 mg/kg	2.3	59.0	113	64	128
Cadmium, Total	10.0 mg/kg	0.0	10.4	104	66	118
Chromium, Total	10.0 mg/kg	1.3	12.0	107	63	130
Lead, Total	10.0 mg/kg	0.7	11.4	107	58	126
Selenium, Total	10.0 mg/kg	0.0	8.2	82	55	103
Silver, Total	10.0 mg/kg	0.0	9.6	96	63	109
Mercury, Total	0.50 mg/kg	0.00	0.45	90	81	124

Quality Control Report for Spike Analysis

INORGANICS

Matrix: Soil
Lab Sample ID: 9706023-1

Analysis Date: 06/06/1997
Preparation Date: 06/06/1997

Analyte	Spike Amount	Sample Result	Spike Result	Percent Recovery	Lower Control Limit	Upper Control Limit
TRPH	250 mg/kg	44	264	88	73	121

Quality Control Report for LCS Analysis

INORGANICS

Matrix: Soil
Lab Sample ID: LCS

Analysis Date: 06/06/1997
Preparation Date: 06/06/1997

Analyte	LCS Conc			LCS Result	Percent Recovery	Lower Control Limit	Upper Control Limit
TRPH	250	mg/kg	0	264	106	70	125

Chain of Custody Record

Quanterra Environmental Services

9706023

QUA-4124-1

Client: ABB-ES

Address: 1080 Woodcock Rd-Suite 100

City: Orlando | State: FL | Zip Code: 32801

Project Name: Site 7174

Contract/Purchase Order/Quote No.

Project Manager: John Kaiser

Telephone Number (Area Code)/Fax Number: 895-8845 / 896-6150

Site Contact: Mirna Barg

Lab Contact

Carrier/Waybill Number

Date: 6/4/97

Lab Number

Chain Of Custody Number

Page 1 of 1

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH		8010, 8020, 9073 & RCRA metals
~~SS-1 (Nor~~	~~6/4/9~~													
SS-1 (South)	6/4/97	8:40			X		1							1
SS-2 (West)	6/4/97	8:45			X		1							1
SS-3 (North)	6/4/97	8:50			X		1							1

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Mirna Barg	6/4/97	9:46	1. Received By: [illegible]	6/4/97	1510
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION. TE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - [illegible] opy

BOTTORF Associates inc.

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Soil Analysis Report

Sample Received From: C.A. Meyer Paving
P.O. Box 555727
Orlando, FL 32855-5727

Lab Control Number: 13982

Sample Name: 1028A
Date Received: July 24, 1997
Date Reported: July 30, 1997

NTC Orlando, McCoy Annex

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Total Petroleum Hydrocarbons	FLPRO	mg/kg	1.0	7/28/97	KB	<1.0
Arsenic	7061	mg/kg	0.4	7/30/97	KB	0.51
Barium	7080	mg/kg	0.025	7/30/97	KB	4.12
Cadmium	7131	mg/kg	0.05	7/30/97	KB	0.19
Chromium	7191	mg/kg	0.1	7/30/97	KB	3.50
Lead	7421	mg/kg	0.05	7/30/97	KB	0.70
Mercury	7471	mg/kg	0.001	7/30/97	KB	<0.001
Selenium	7740	mg/kg	0.5	7/30/97	KB	<0.5
Silver	7760	mg/kg	0.05	7/30/97	KB	<0.05
Methyl-tert-butyl-ether	8020	ug/kg	1.4	7/29/97	KB	<1.4
Benzene	8020	ug/kg	0.9	7/29/97	KB	<0.9
Toluene	8020	ug/kg	0.7	7/29/97	KB	<0.7
Chlorobenzene	8020	ug/kg	1.7	7/29/97	KB	<1.7
Ethyl benzene	8020	ug/kg	0.8	7/29/97	KB	<0.8
m & p-Xylene	8020	ug/kg	1.6	7/29/97	KB	<1.6
o-Xylene	8020	ug/kg	0.8	7/29/97	KB	<0.8
m-Dichlorobenzene	8020	ug/kg	1.6	7/29/97	KB	<1.6
p-Dichlorobenzene	8020	ug/kg	1.6	7/29/97	KB	<1.6
o-Dichlorobenzene	8020	ug/kg	1.6	7/29/97	KB	<1.6
Total BTEX	8020	ug/kg	n/a	n/a	n/a	<1.7
8020 Dilution Factor	8020	x	n/a	n/a	n/a	1

Data Release Authorization

The sample integrity and reliability was verified by Laboratory personnel prior to analysis. Analysis method used are in accordance with F.A.C. 62-775 and applicable EPA protocols. Laboratory Quality Assurance is in accordance with Bottorf Associates Comprehensive Quality Assurance Plan No. 910102.

Kent D. Bottorf
Laboratory Director

Signature

7/30/97
Date

BOTTORF Associates inc.

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Soil Analysis Report

Sample Received From: C.A. Meyer Paving
P.O. Box 555727
Orlando, FL 32855-5727

Lab Control Number: 13981

Sample Name: 1027B
Date Received: July 24, 1997
Date Reported: July 30, 1997

NTC Orlando, McCoy Annex

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Total Petroleum Hydrocarbons	FLPRO	mg/kg	1.0	7/28/97	KB	<1.0
Arsenic	7061	mg/kg	0.4	7/30/97	KB	0.61
Barium	7080	mg/kg	0.025	7/30/97	KB	4.13
Cadmium	7131	mg/kg	0.05	7/30/97	KB	0.18
Chromium	7191	mg/kg	0.1	7/30/97	KB	3.22
Lead	7421	mg/kg	0.05	7/30/97	KB	0.69
Mercury	7471	mg/kg	0.001	7/30/97	KB	<0.001
Selenium	7740	mg/kg	0.5	7/30/97	KB	<0.5
Silver	7760	mg/kg	0.05	7/30/97	KB	<0.05
Methyl-tert-butyl-ether	8020	ug/kg	1.4	7/29/97	KB	<1.4
Benzene	8020	ug/kg	0.9	7/29/97	KB	<0.9
Toluene	8020	ug/kg	0.7	7/29/97	KB	<0.7
Chlorobenzene	8020	ug/kg	1.7	7/29/97	KB	<1.7
Ethyl benzene	8020	ug/kg	0.8	7/29/97	KB	<0.8
m & p-Xylene	8020	ug/kg	1.6	7/29/97	KB	<1.6
o-Xylene	8020	ug/kg	0.8	7/29/97	KB	<0.8
m-Dichlorobenzene	8020	ug/kg	1.6	7/29/97	KB	<1.6
p-Dichlorobenzene	8020	ug/kg	1.6	7/29/97	KB	<1.6
o-Dichlorobenzene	8020	ug/kg	1.6	7/29/97	KB	<1.6
Total BTEX	8020	ug/kg	n/a	n/a	n/a	<1.7
8020 Dilution Factor	8020	x	n/a	n/a	n/a	1

Data Release Authorization

The sample integrity and reliability was verified by Laboratory personnel prior to analysis. Analysis method used are in accordance with F.A.C. 62-775 and applicable EPA protocols. Laboratory Quality Assurance is in accordance with Bottorf Associates Comprehensive Quality Assurance Plan No. 910102.

Kent D. Bottorf
Laboratory Director

Signature

7/30/97
Date

BOTTORF Associates inc.

Soil Analysis Report

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Sample Received From: C.A. Meyer Paving
P.O. Box 555727
Orlando, FL 32855-5727

Lab Control Number: 13983

Sample Name: 1028B
Date Received: July 24, 1997
Date Reported: July 30, 1997

NTC Orlando, McCoy Annex

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Total Petroleum Hydrocarbons	FLPRO	mg/kg	1.0	7/28/97	KB	1.1
Arsenic	7061	mg/kg	0.4	7/30/97	KB	0.55
Barium	7080	mg/kg	0.025	7/30/97	KB	3.98
Cadmium	7131	mg/kg	0.05	7/30/97	KB	0.21
Chromium	7191	mg/kg	0.1	7/30/97	KB	3.23
Lead	7421	mg/kg	0.05	7/30/97	KB	0.77
Mercury	7471	mg/kg	0.001	7/30/97	KB	<0.001
Selenium	7740	mg/kg	0.5	7/30/97	KB	<0.5
Silver	7760	mg/kg	0.05	7/30/97	KB	<0.05
Methyl-tert-butyl-ether	8020	ug/kg	1.4	7/29/97	KB	<1.4
Benzene	8020	ug/kg	0.9	7/29/97	KB	<0.9
Toluene	8020	ug/kg	0.7	7/29/97	KB	<0.7
Chlorobenzene	8020	ug/kg	1.7	7/29/97	KB	<1.7
Ethyl benzene	8020	ug/kg	0.8	7/29/97	KB	<0.8
m & p-Xylene	8020	ug/kg	1.6	7/29/97	KB	<1.6
o-Xylene	8020	ug/kg	0.8	7/29/97	KB	<0.8
m-Dichlorobenzene	8020	ug/kg	1.6	7/29/97	KB	<1.6
p-Dichlorobenzene	8020	ug/kg	1.6	7/29/97	KB	<1.6
o-Dichlorobenzene	8020	ug/kg	1.6	7/29/97	KB	<1.6
Total BTEX	8020	ug/kg	n/a	n/a	n/a	<1.7
8020 Dilution Factor	8020	x	n/a	n/a	n/a	1

Data Release Authorization

The sample integrity and reliability was verified by Laboratory personnel prior to analysis. Analysis method used are in accordance with F.A.C. 62-775 and applicable EPA protocols. Laboratory Quality Assurance is in accordance with Bottorf Associates Comprehensive Quality Assurance Plan No. 910102.

Kent D. Bottorf
Laboratory Director

Signature

7/30/97
Date

C. A. Meyer Paving & Construction Co.
4978 L.B. McLeod Road
Orlando, Florida 32811

CERTIFICATE OF RECLAMATION AND RECYCLING

Certificate No. 1639

Whereas, C. A. Meyer Paving & Construction Co., is a corporation organized under the laws of the State of Florida, with it's principle place of business in Orlando, Florida and

Whereas, C. A. Meyer Paving & Construction Co., operates a facility which processes, reclaims and recycles various waste materials under the authority of the Florida Department of Environmental Regulation.

Now, therefore, C. A. Meyer Paving & Construction Co., does hereby issue this certificate to:

Department of The Navy
Officer in Charge NAVFAC Contracts
520 Turner St.
Pensacola, FL 32508-5225

Contract
N65114-97-M-2384

To evidence the total reclamation and recycling of 327.94 tons of soil contaminated with petroleum products.

Said processing, reclamation and recycling has been completed in a manner consistent with acceptable engineering standards and in compliance with applicable rules and regulations set forth by Federal, state, and local rules and regulations on or about the date stated above.

C. A. Meyer Paving & Construction Co.

SEAL

ATTACHMENT F

INITIAL REMEDIAL ACTION REPORT FORM

PETROLEUM CONTAMINATION
INITIAL REMEDIAL ACTION REPORT FORM

An Initial Remedial Action report, summarizing the initial remedial action (IRA), should be prepared to satisfy the requirements of Chapters 17-770.630(1)14; 17-773.500(1)(a)4; and 17-773.500(2)(a)4, Florida Administrative Code, (FAC). This form may be used for the IRA report. The report should be sent to the appropriate local program and:

Florida Department of Environmental Regulation
Bureau of Waste Cleanup
Engineering Support Section
2600 Blair Stone Road
Tallahassee, FL 32399-2400

I. FACILITY NAME: Site 7174

Facility Address: McCoy Annex, NTC Orlando

DER Facility Number (if applicable): _____

Date IRA Initiated: 5-28-97 Date IRA Completed: 6-12-97

II. FREE PRODUCT RECOVERY

A. Type(s) of Product Discharged: Unknown

B. Quantity

1. Estimated Gallons Lost: Unknown
2. Gallons Recovered: _____ through _____ (date)
3. Attach Exhibit Indicating Amount of Product Recovered, Dates and Cumulative Totals.

C. Attach a Scaled Site Plan, Indicating the Locations and Product Thickness in Wells, Boreholes, Excavations, or Utility Conduits and Wells Utilized for Recovery of Free Product.

D. Method of Product Recovery: N/A

E. Type of Discharge During Product Recovery: N/A

F. Type of Treatment, i.e., Oil/Water Separator: N/A

G. Attach Written Proof of Proper Disposal of Recovered Product: N/A

III. SOIL EXCAVATION

NOTE: Soil shall be defined as excessively contaminated using the procedure stated in Chapter 17-770.200(2), FAC. Representative soil sampling shall be performed as close to the time of excavation as possible, but at no time shall exceed three (3) months prior to the start of excavation. Stockpiled soils greater than thirty (30) days on site waiting for treatment and disposal, must be re-sampled immediately prior to disposal to assure soils are still excessively contaminated.

If soil sampling data indicates that the amount of soil that is excessively contaminated exceeds 1500 cubic yards, treatment of all excessively contaminated soil at the site shall be addressed in a remedial action plan, and no soil IRA activities shall be performed except for the removal of soils in the immediate vicinity of the tanks.

Only soil above the ambient water table at the time of excavation can be considered as excessively contaminated soil.

Unless the established weight per unit volume of 1.4 tons/cubic yard (as referenced in FAC Rule 17-775) is used for the excavated soil, the weight per unit volume must be determined by a field test (in which an accurately measured volume of soil is weighed) at the time of excavation.

A. Volume of Contaminated Soil Excavated in Cubic Yards: 2,200 cyds. Dimensions Including Depth of Excavation(s): Approximately 105' X 125' X 12'

NOTE: Attach written proof from the Department in the form of an Alternate Procedure Approval Order authorizing excavating over 1500 cubic yards if applicable. Authorization must be prior to the excavation of soils.

B. Type(s) of Product in Soil: Unknown

C. Depth (ft) to Ambient Groundwater at the Time of Excavation(s): 12 feet

D. Did Dewatering (i.e. groundwater depression) Occur at Time of Excavation?: N/A

E. Type of Instrument and Method Used to Determine Excessive Soil Contamination: Portable organic vapor analyzer (Sensidyne flame Ionization Detecbor)

F. Attach a table that compares the OVA-FID readings taken with charcoal filter verses readings without filter. Include vertical depths for each sample.

G. Using the OVA procedure for defining excessively contaminated soil as referenced in Rule 17-770.200(2), FAC, include a scaled site plan with the information listed below:

1. Location of excavation, old tank farm, dispensers, and product lines, present tank farm, and all soil samples. The corresponding OVA-FID readings for each soil sample (with charcoal filter and without) and its depth must be given.

2. Sampling Procedure is as follows:

Start sampling in a location where it is suspected that excessively contaminated soil exists. Sample from the first soil boring outward in a grid pattern, at five (5) to ten (10) foot intervals, until the perimeter of the excessively contaminated soil plume is defined. Vertical sampling should be performed starting approximately at the initial area of contamination and continued at three (3) foot intervals, or fraction thereof, until a depth approximately one (1) foot above the water table is reached.

H. Copies of Laboratory Analyses for Pre Treatment Soil Samples as Required in Chapter 17-775.410(3), Table II, FAC Must be Attached.

I. Were Tanks Replaced at this Site?: No

IV. SOIL TREATMENT AND DISPOSAL

A. Method of Treatment of Excessively Contaminated Soil: Thermal treatment

B. For Off Site Treatment and Disposal at Permitted STTF, Land Farms, or Landfills Attach Documentation From the Treatment Facility Which Confirms the Weight or Volume of Soil Treated and Date Received.

For Other Treatment and Disposal Methods (i.e. On-Site Land Farming, Bioremediation), Attach Post Treatment Laboratory Analyses for Each 250-300 Cubic Yards of Treated Soil in Accordance With Chapter 17-775.400 and the "Guidelines for Assessment and Remediation of Petroleum Contaminated Soils", Edition February 1991 or Most Current Revision.

For Mobile Thermal Treatment Units, Attach Laboratory Analysis per Chapter 17-775(5), FAC.

C. Method of Disposal of Contaminated Soil and Indicate Recipient and Address: N/A

V. ADDITIONAL COMMENTS: N/A

Mirna Barq
Person Completing Form

Signature, Date

Project Engineer
Title, Affiliation

ATTACHMENT G

PREBURN AND POSTBURN LABORATORY ANALYTICAL REPORTS FOR THE FORMER LANDFARM CONTAMINATED SOIL

C. A. Meyer Paving & Construction Co.
4978 L.B. McLeod Road
Orlando, Florida 32811

CERTIFICATE OF RECLAMATION AND RECYCLING

Certificate No. 1665

Whereas, C. A. Meyer Paving & Construction Co., is a corporation organized under the laws of the State of Florida, with it's principle place of business in Orlando, Florida and

Whereas, C. A. Meyer Paving & Construction Co., operates a facility which processes, reclaims and recycles various waste materials under the authority of the Florida Department of Environmental Regulation.

Now, therefore, C. A. Meyer Paving & Construction Co., does hereby issue this certificate to:

Department of the Navy
Officer In Charge NAVFAC Contracts
520 Turner St.
Pensacola, FL 32508-5225

Contract N65114-97-2424

NTC, McCoy Annex

To evidence the total reclamation and recycling of 2,384.26 tons of soil contaminated with petroleum products.

Said processing, reclamation and recycling has been completed in a manner consistent with acceptable engineering standards and in compliance with applicable rules and regulations set forth by Federal, state, and local rules and regulations on or about the date stated above.

C. A. Meyer Paving & Construction Co.

SEAL

BOTTORF Associates inc.

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Soil Analysis Report

Sample Received From: C.A. Meyer Paving
P.O. Box 555727
Orlando, FL 32855-5727

Lab Control Number: 15668

Sample Name: **1066A**
Date Received: January 28, 1998
Date Reported: February 12, 1998

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Total Petroleum Hydrocarbons	Fl-Pro	mg/kg	1.0	2/9/98	KB	7.8
Arsenic	7061	mg/kg	0.4	2/7/98	KB	2.9
Barium	7080	mg/kg	0.025	2/11/98	KB	140
Cadmium	7131	mg/kg	0.05	2/10/98	KB	0.2
Chromium	7191	mg/kg	0.1	2/10/98	KB	10.4
Lead	7421	mg/kg	0.05	2/10/98	KB	5.4
Mercury	7471	mg/kg	0.001	2/10/98	KB	<0.001
Selenium	7740	mg/kg	0.5	2/7/98	KB	0.1
Silver	7760	mg/kg	0.05	2/7/98	KB	0.1
Methyl-tert-butyl-ether	8020	ug/kg	1.4	2/3/98	KB	<1.4
Benzene	8020	ug/kg	0.9	2/3/98	KB	<0.9
Toluene	8020	ug/kg	0.7	2/3/98	KB	<0.7
Chlorobenzene	8020	ug/kg	1.7	2/3/98	KB	<1.7
Ethyl benzene	8020	ug/kg	0.8	2/3/98	KB	<0.8
m & p-Xylene	8020	ug/kg	1.6	2/3/98	KB	<1.6
o-Xylene	8020	ug/kg	0.8	2/3/98	KB	<0.8
m-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
p-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
o-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
Total BTEX	8020	ug/kg	n/a	n/a	KB	<1.6
8020 Dilution Factor	8020	x	n/a	n/a	n/a	1

Data Release Authorization

The sample integrity and reliability was verified by Laboratory personnel prior to analysis. Analysis method used are in accordance with F.A.C. 62-775 and applicable EPA protocols. Laboratory Quality Assurance is in accordance with Bottorf Associates Comprehensive Quality Assurance Plan No. 910102.

Kent D. Bottorf
Laboratory Director

Signature

2/12/98
Date

BOTTORF Associates inc.

Soil Analysis Report

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Sample Received From: C.A. Meyer Paving
P.O. Box 555727
Orlando, FL 32855-5727

Lab Control Number: 15669

Sample Name: **1066B**
Date Received: January 28, 1998
Date Reported: February 12, 1998

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Total Petroleum Hydrocarbons	Fl-Pro	mg/kg	1.0	2/9/98	KB	7.5
Arsenic	7061	mg/kg	0.4	2/7/98	KB	2.9
Barium	7080	mg/kg	0.025	2/11/98	KB	200
Cadmium	7131	mg/kg	0.05	2/10/98	KB	0.2
Chromium	7191	mg/kg	0.1	2/10/98	KB	5.6
Lead	7421	mg/kg	0.05	2/10/98	KB	6.2
Mercury	7471	mg/kg	0.001	2/10/98	KB	<0.001
Selenium	7740	mg/kg	0.5	2/7/98	KB	<0.5
Silver	7760	mg/kg	0.05	2/7/98	KB	0.1
Methyl-tert-butyl-ether	8020	ug/kg	1.4	2/3/98	KB	<1.4
Benzene	8020	ug/kg	0.9	2/3/98	KB	<0.9
Toluene	8020	ug/kg	0.7	2/3/98	KB	<0.7
Chlorobenzene	8020	ug/kg	1.7	2/3/98	KB	<1.7
Ethyl benzene	8020	ug/kg	0.8	2/3/98	KB	<0.8
m & p-Xylene	8020	ug/kg	1.6	2/3/98	KB	<1.6
o-Xylene	8020	ug/kg	0.8	2/3/98	KB	<0.8
m-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
p-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
o-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
Total BTEX	8020	ug/kg	n/a	n/a	KB	<1.6
8020 Dilution Factor	8020	x	n/a	n/a	n/a	1

Data Release Authorization

The sample integrity and reliability was verified by Laboratory personnel prior to analysis. Analysis method used are in accordance with F.A.C. 62-775 and applicable EPA protocols. Laboratory Quality Assurance is in accordance with Bottorf Associates Comprehensive Quality Assurance Plan No. 910102.

Kent D. Bottorf
Laboratory Director

Signature

2/12/98
Date

BOTTORF Associates inc.

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Soil Analysis Report

Sample Received From: C. A. Meyer
P.O. Box 555727
Orlando, Fl 32855-5727

Lab Control Number: 15670

Sample Name: 1067A
Date Received: January 28, 1998
Date Reported: February 12, 1998

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Total Petroleum Hydrocarbons	Fl-Pro	mg/kg	1.0	2/9/98	KB	12
Arsenic	7061	mg/kg	0.4	2/7/98	KB	2.9
Barium	7080	mg/kg	0.025	2/11/98	KB	255
Cadmium	7131	mg/kg	0.05	2/10/98	KB	0.2
Chromium	7191	mg/kg	0.1	2/10/98	KB	5.8
Lead	7421	mg/kg	0.05	2/10/98	KB	16.4
Mercury	7471	mg/kg	0.001	2/10/98	KB	<0.001
Selenium	7740	mg/kg	0.5	2/7/98	KB	0.1
Silver	7760	mg/kg	0.05	2/7/98	KB	<0.05
Methyl-tert-butyl-ether	8020	ug/kg	1.4	2/3/98	KB	<1.4
Benzene	8020	ug/kg	0.9	2/3/98	KB	<0.9
Toluene	8020	ug/kg	0.7	2/3/98	KB	<0.7
Chlorobenzene	8020	ug/kg	1.7	2/3/98	KB	<1.7
Ethyl benzene	8020	ug/kg	0.8	2/3/98	KB	<0.8
m & p-Xylene	8020	ug/kg	1.6	2/3/98	KB	<1.6
o-Xylene	8020	ug/kg	0.8	2/3/98	KB	<0.8
m-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
p-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
o-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
Total BTEX	8020	ug/kg	n/a	2/3/98	KB	<0.7
8020 Dilution Factor	8020	x	n/a	n/a	n/a	1

Data Release Authorization

The sample integrity and reliability was verified by Laboratory personnel prior to analysis. Analysis method used are in accordance with F.A.C. 62-775 and applicable EPA protocols. Laboratory Quality Assurance is in accordance with Bottorf Associates Comprehensive Quality Assurance Plan No. 910102-5.

Kent D. Bottorf
Laboratory Director

Signature

2/12/98
Date

BOTTORF Associates inc.

Soil Analysis Report

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Sample Received From: C. A. Meyer
P.O. Box 555727
Orlando, Fl 32855-5727

Lab Control Number: 15670

Sample Name: **1067A**
Date Received: January 28, 1998
Date Reported: February 12, 1998

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Dichlorodiflouroethane	8010	ug/kg	1.2	2/3/98	KB	<1.2
Bromomethane	8010	ug/kg	1.7	2/3/98	KB	<1.7
Chloroethane	8010	ug/kg	2.5	2/3/98	KB	<2.5
1,1-Dichloroethene	8010	ug/kg	1.3	2/3/98	KB	<1.3
Methylene Chloride	8010	ug/kg	1.3	2/3/98	KB	<1.3
trans 1,2-Dichloroethylene	8010	ug/kg	1.1	2/3/98	KB	<1.1
1,1-Dichloroethane	8010	ug/kg	1.3	2/3/98	KB	<1.3
Chloroform	8010	ug/kg	1.0	2/3/98	KB	<1.0
1,1,1-Trichlorethane	8010	ug/kg	1.3	2/3/98	KB	<1.3
Carbon Tetrachloride	8010	ug/kg	1.1	2/3/98	KB	<1.1
Trichloroethylene	8010	ug/kg	1.8	2/3/98	KB	<1.8
1,2-Dichloropropane	8010	ug/kg	1.5	2/3/98	KB	<1.5
Bromodichloromethane	8010	ug/kg	9.0	2/3/98	KB	<9.0
cis 1,3-Dichloropropane	8010	ug/kg	1.2	2/3/98	KB	<1.2
trans 1,3-Dichloropropane	8010	ug/kg	1.4	2/3/98	KB	<1.4
1-Chloro 2-Bromomethane	8010	ug/kg	1.2	2/3/98	KB	<1.2
1,1,2-Trichloroethane	8010	ug/kg	1.3	2/3/98	KB	<1.3
Tertrachloroethylene	8010	ug/kg	1.1	2/3/98	KB	<1.1
Dibromochloromethane	8010	ug/kg	1.1	2/3/98	KB	<1.1
1,2-Dibromomethane	8010	ug/kg	1.4	2/3/98	KB	<1.4
Chlorobenzene	8010	ug/kg	3.8	2/3/98	KB	<3.8
1,1,1,2-Tetrachloroethane	8010	ug/kg	1.3	2/3/98	KB	<1.3

BOTTORF Associates inc.

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Soil Analysis Report

Sample Received From: C. A. Meyer
P.O. Box 555727
Orlando, Fl 32855-5727

Lab Control Number: 15670

Sample Name: **1067A**
Date Received: January 28, 1998
Date Reported: February 12, 1998

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Bromoform	8010	ug/kg	1.2	2/3/98	KB	<1.2
1,1,2,2-Tetrachlorethane	8010	ug/kg	1.0	2/3/98	KB	<1.0
1,2,3-Trichloropropane	8010	ug/kg	5.7	2/3/98	KB	<5.7
Bromobenzene	8010	ug/kg	1.1	2/3/98	KB	<1.1
4-Chlorotoluene	8010	ug/kg	1.4	2/3/98	KB	<1.4
m-Dichlorobenzene	8010	ug/kg	2.6	2/3/98	KB	<2.6
p-Dichlorobenzene	8010	ug/kg	2.5	2/3/98	KB	<2.5
o-Dichlorobenzene	8010	ug/kg	2.8	2/3/98	KB	<2.8
Total VOH	8010	ug/kg	n/a	2/3/98	KB	<1.0
8010 Dilution Factor	8010	x	n/a	n/a	n/a	1
Acenaphthene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Acenapthylene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Anthracene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Benzo(a)anthracene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Benzo(a)pyrene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Benzo(b)fluoranthene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Benzo(ghi)perylene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Benzo(k)fluoranthene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Chrysene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Dibenzo(a,h)anthracene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Fluoranthene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Fluorene	8100	ug/kg	5.0	2/3/98	KB	<5.0

BOTTORF Associates inc.

Soil Analysis Report

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Sample Received From: C. A. Meyer
P.O. Box 555727
Orlando, Fl 32855-5727

Lab Control Number: 15670

Sample Name: **1067A**
Date Received: January 28, 1998
Date Reported: February 12, 1998

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Indeno(1,2,3-cd)pyrene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Naphthalene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Phenanthrene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Pyrene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Total PAH	8100	ug/kg	n/a	n/a	n/a	<5.0
8100 Dilution Factor	8100	x	n/a	n/a	n/a	1

BOTTORF Associates inc.

Soil Analysis Report

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Sample Received From: C. A. Meyer
P.O. Box 555727
Orlando, Fl 32855-5727

Lab Control Number: 15671

Sample Name: **1067B**
Date Received: January 28, 1998
Date Reported: February 12, 1998

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Total Petroleum Hydrocarbons	Fl-Pro	mg/kg	1.0	2/9/98	KB	11.1
Arsenic	7061	mg/kg	0.4	2/7/98	KB	2.3
Barium	7080	mg/kg	0.025	2/11/98	KB	200
Cadmium	7131	mg/kg	0.05	2/10/98	KB	0.2
Chromium	7191	mg/kg	0.1	2/10/98	KB	5.3
Lead	7421	mg/kg	0.05	2/10/98	KB	24
Mercury	7471	mg/kg	0.001	2/10/98	KB	<0.001
Selenium	7740	mg/kg	0.5	2/7/98	KB	<0.5
Silver	7760	mg/kg	0.05	2/7/98	KB	0.05
Methyl-tert-butyl-ether	8020	ug/kg	1.4	2/3/98	KB	<1.4
Benzene	8020	ug/kg	0.9	2/3/98	KB	<0.9
Toluene	8020	ug/kg	0.7	2/3/98	KB	<0.7
Chlorobenzene	8020	ug/kg	1.7	2/3/98	KB	<1.7
Ethyl benzene	8020	ug/kg	0.8	2/3/98	KB	<0.8
m & p-Xylene	8020	ug/kg	1.6	2/3/98	KB	<1.6
o-Xylene	8020	ug/kg	0.8	2/3/98	KB	<0.8
m-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
p-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
o-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
Total BTEX	8020	ug/kg	n/a	2/3/98	KB	<0.7
8020 Dilution Factor	8020	x	n/a	n/a	n/a	1

Data Release Authorization

The sample integrity and reliability was verified by Laboratory personnel prior to analysis. Analysis method used are in accordance with F.A.C. 62-775 and applicable EPA protocols. Laboratory Quality Assurance is in accordance with Bottorf Associates Comprehensive Quality Assurance Plan No. 910102-5.

Kent D. Bottorf
Laboratory Director

Signature

2/12/98
Date

BOTTORF Associates inc.

Soil Analysis Report

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Sample Received From: C. A. Meyer
P.O. Box 555727
Orlando, Fl 32855-5727

Lab Control Number: 15671

Sample Name: 1067B
Date Received: January 28, 1998
Date Reported: February 12, 1998

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Dichlorodiflouroethane	8010	ug/kg	1.2	2/3/98	KB	<1.2
Bromomethane	8010	ug/kg	1.7	2/3/98	KB	<1.7
Chloroethane	8010	ug/kg	2.5	2/3/98	KB	<2.5
1,1-Dichloroethene	8010	ug/kg	1.3	2/3/98	KB	<1.3
Methylene Chloride	8010	ug/kg	1.3	2/3/98	KB	<1.3
trans 1,2-Dichloroethylene	8010	ug/kg	1.1	2/3/98	KB	<1.1
1,1-Dichloroethane	8010	ug/kg	1.3	2/3/98	KB	<1.3
Chloroform	8010	ug/kg	1.0	2/3/98	KB	<1.0
1,1,1-Trichlorethane	8010	ug/kg	1.3	2/3/98	KB	<1.3
Carbon Tetrachloride	8010	ug/kg	1.1	2/3/98	KB	<1.1
Trichloroethylene	8010	ug/kg	1.8	2/3/98	KB	<1.8
1,2-Dichloropropane	8010	ug/kg	1.5	2/3/98	KB	<1.5
Bromodichloromethane	8010	ug/kg	9.0	2/3/98	KB	<9.0
cis 1,3-Dichloropropane	8010	ug/kg	1.2	2/3/98	KB	<1.2
trans 1,3-Dichloropropane	8010	ug/kg	1.4	2/3/98	KB	<1.4
1-Chloro 2-Bromomethane	8010	ug/kg	1.2	2/3/98	KB	<1.2
1,1,2-Trichloroethane	8010	ug/kg	1.3	2/3/98	KB	<1.3
Tertrachloroethylene	8010	ug/kg	1.1	2/3/98	KB	<1.1
Dibromochloromethane	8010	ug/kg	1.1	2/3/98	KB	<1.1
1,2-Dibromomethane	8010	ug/kg	1.4	2/3/98	KB	<1.4
Chlorobenzene	8010	ug/kg	3.8	2/3/98	KB	<3.8
1,1,1,2-Tetrachloroethane	8010	ug/kg	1.3	2/3/98	KB	<1.3

BOTTORF Associates inc.

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Soil Analysis Report

Sample Received From: C. A. Meyer
P.O. Box 555727
Orlando, Fl 32855-5727

Lab Control Number: 15671

Sample Name: **1067B**
Date Received: January 28, 1998
Date Reported: February 12, 1998

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Bromoform	8010	ug/kg	1.2	2/3/98	KB	<1.2
1,1,2,2-Tetrachlorethane	8010	ug/kg	1.0	2/3/98	KB	<1.0
1,2,3-Trichloropropane	8010	ug/kg	5.7	2/3/98	KB	<5.7
Bromobenzene	8010	ug/kg	1.1	2/3/98	KB	<1.1
4-Chlorotoluene	8010	ug/kg	1.4	2/3/98	KB	<1.4
m-Dichlorobenzene	8010	ug/kg	2.6	2/3/98	KB	<2.6
p-Dichlorobenzene	8010	ug/kg	2.5	2/3/98	KB	<2.5
o-Dichlorobenzene	8010	ug/kg	2.8	2/3/98	KB	<2.8
Total VOH	8010	ug/kg	n/a	2/3/98	KB	<1.0
8010 Dilution Factor	8010	x	n/a	n/a	n/a	1
Acenaphthene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Acenapthylene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Anthracene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Benzo(a)anthracene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Benzo(a)pyrene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Benzo(b)fluoranthene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Benzo(ghi)perylene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Benzo(k)fluoranthene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Chrysene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Dibenzo(a,h)anthracene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Fluoranthene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Fluorene	8100	ug/kg	5.0	2/3/98	KB	<5.0

BOTTORF Associates inc.

Soil Analysis Report

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Sample Received From: C. A. Meyer
P.O. Box 555727
Orlando, Fl 32855-5727

Lab Control Number: 15671

Sample Name: **1067B**
Date Received: January 28, 1998
Date Reported: February 12, 1998

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Indeno(1,2,3-cd)pyrene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Naphthalene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Phenanthrene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Pyrene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Total PAH	8100	ug/kg	n/a	n/a	n/a	<5.0
8100 Dilution Factor	8100	x	n/a	n/a	n/a	1

BOTTORF Associates inc.

Soil Analysis Report

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Sample Received From: C.A. Meyer Paving
P.O. Box 555727
Orlando, FL 32855-5727

Lab Control Number: 15672

Sample Name: **1068A**
Date Received: January 28, 1998
Date Reported: February 12, 1998

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Total Petroleum Hydrocarbons	Fl-Pro	mg/kg	1.0	2/9/98	KB	9.0
Arsenic	7061	mg/kg	0.4	2/7/98	KB	2.9
Barium	7080	mg/kg	0.025	2/11/98	KB	200
Cadmium	7131	mg/kg	0.05	2/10/98	KB	0.2
Chromium	7191	mg/kg	0.1	2/10/98	KB	5.5
Lead	7421	mg/kg	0.05	2/10/98	KB	6.7
Mercury	7471	mg/kg	0.001	2/10/98	KB	<0.001
Selenium	7740	mg/kg	0.5	2/7/98	KB	<0.5
Silver	7760	mg/kg	0.05	2/7/98	KB	0.90
Methyl-tert-butyl-ether	8020	ug/kg	1.4	2/3/98	KB	<1.4
Benzene	8020	ug/kg	0.9	2/3/98	KB	<0.9
Toluene	8020	ug/kg	0.7	2/3/98	KB	<0.7
Chlorobenzene	8020	ug/kg	1.7	2/3/98	KB	<1.7
Ethyl benzene	8020	ug/kg	0.8	2/3/98	KB	<0.8
m & p-Xylene	8020	ug/kg	1.6	2/3/98	KB	<1.6
o-Xylene	8020	ug/kg	0.8	2/3/98	KB	<0.8
m-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
p-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
o-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
Total BTEX	8020	ug/kg	n/a	n/a	KB	<1.6
8020 Dilution Factor	8020	x	n/a	n/a	n/a	1

Data Release Authorization

The sample integrity and reliability was verified by Laboratory personnel prior to analysis. Analysis method used are in accordance with F.A.C. 62-775 and applicable EPA protocols. Laboratory Quality Assurance is in accordance with Bottorf Associates Comprehensive Quality Assurance Plan No. 910102.

Kent D. Bottorf
Laboratory Director

Signature

2/12/98
Date

BOTTORF Associates inc.

Soil Analysis Report

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Sample Received From: C.A. Meyer Paving
P.O. Box 555727
Orlando, FL 32855-5727

Lab Control Number: 15673

Sample Name: **1068B**
Date Received: January 28, 1998
Date Reported: February 12, 1998

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Total Petroleum Hydrocarbons	Fl-Pro	mg/kg	1.0	2/9/98	KB	8.7
Arsenic	7061	mg/kg	0.4	2/7/98	KB	2.9
Barium	7080	mg/kg	0.025	2/11/98	KB	140
Cadmium	7131	mg/kg	0.05	2/10/98	KB	0.3
Chromium	7191	mg/kg	0.1	2/10/98	KB	5.1
Lead	7421	mg/kg	0.05	2/10/98	KB	3.0
Mercury	7471	mg/kg	0.001	2/10/98	KB	<0.001
Selenium	7740	mg/kg	0.5	2/7/98	KB	<0.5
Silver	7760	mg/kg	0.05	2/7/98	KB	0.1
Methyl-tert-butyl-ether	8020	ug/kg	1.4	2/3/98	KB	<1.4
Benzene	8020	ug/kg	0.9	2/3/98	KB	<0.9
Toluene	8020	ug/kg	0.7	2/3/98	KB	<0.7
Chlorobenzene	8020	ug/kg	1.7	2/3/98	KB	<1.7
Ethyl benzene	8020	ug/kg	0.8	2/3/98	KB	<0.8
m & p-Xylene	8020	ug/kg	1.6	2/3/98	KB	<1.6
o-Xylene	8020	ug/kg	0.8	2/3/98	KB	<0.8
m-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
p-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
o-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
Total BTEX	8020	ug/kg	n/a	n/a	KB	<1.6
8020 Dilution Factor	8020	x	n/a	n/a	n/a	1

Data Release Authorization

The sample integrity and reliability was verified by Laboratory personnel prior to analysis. Analysis method used are in accordance with F.A.C. 62-775 and applicable EPA protocols. Laboratory Quality Assurance is in accordance with Bottorf Associates Comprehensive Quality Assurance Plan No. 910102.

Kent D. Bottorf
Laboratory Director

Signature

2/12/98
Date

BOTTORF Associates inc.

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Soil Analysis Report

Sample Received From: C.A. Meyer Paving
P.O. Box 555727
Orlando, FL 32855-5727

Lab Control Number: 15674

Sample Name: 1069A
Date Received: January 28, 1998
Date Reported: February 12, 1998

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Total Petroleum Hydrocarbons	Fl-Pro	mg/kg	1.0	2/9/98	KB	9.2
Arsenic	7061	mg/kg	0.4	2/7/98	KB	3.3
Barium	7080	mg/kg	0.025	2/11/98	KB	25
Cadmium	7131	mg/kg	0.05	2/10/98	KB	0.1
Chromium	7191	mg/kg	0.1	2/10/98	KB	5.1
Lead	7421	mg/kg	0.05	2/10/98	KB	20
Mercury	7471	mg/kg	0.001	2/10/98	KB	<0.001
Selenium	7740	mg/kg	0.5	2/7/98	KB	<0.5
Silver	7760	mg/kg	0.05	2/7/98	KB	0.1
Methyl-tert-butyl-ether	8020	ug/kg	1.4	2/3/98	KB	<1.4
Benzene	8020	ug/kg	0.9	2/3/98	KB	<0.9
Toluene	8020	ug/kg	0.7	2/3/98	KB	<0.7
Chlorobenzene	8020	ug/kg	1.7	2/3/98	KB	<1.7
Ethyl benzene	8020	ug/kg	0.8	2/3/98	KB	<0.8
m & p-Xylene	8020	ug/kg	1.6	2/3/98	KB	<1.6
o-Xylene	8020	ug/kg	0.8	2/3/98	KB	<0.8
m-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
p-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
o-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
Total BTEX	8020	ug/kg	n/a	n/a	KB	<1.6
8020 Dilution Factor	8020	x	n/a	n/a	n/a	1

Data Release Authorization

The sample integrity and reliability was verified by Laboratory personnel prior to analysis. Analysis method used are in accordance with F.A.C. 62-775 and applicable EPA protocols. Laboratory Quality Assurance is in accordance with Bottorf Associates Comprehensive Quality Assurance Plan No. 910102.

Kent D. Bottorf
Laboratory Director

Signature

2/12/98
Date

BOTTORF Associates inc.

Soil Analysis Report

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Sample Received From: C.A. Meyer Paving
P.O. Box 555727
Orlando, FL 32855-5727

Lab Control Number: 15675

Sample Name: 1069B
Date Received: January 28, 1998
Date Reported: February 12, 1998

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Total Petroleum Hydrocarbons	FI-Pro	mg/kg	1.0	2/9/98	KB	8.7
Arsenic	7061	mg/kg	0.4	2/7/98	KB	2.3
Barium	7080	mg/kg	0.025	2/11/98	KB	85
Cadmium	7131	mg/kg	0.05	2/10/98	KB	0.2
Chromium	7191	mg/kg	0.1	2/10/98	KB	5.5
Lead	7421	mg/kg	0.05	2/10/98	KB	25
Mercury	7471	mg/kg	0.001	2/10/98	KB	<0.001
Selenium	7740	mg/kg	0.5	2/7/98	KB	0.1
Silver	7760	mg/kg	0.05	2/7/98	KB	0.1
Methyl-tert-butyl-ether	8020	ug/kg	1.4	2/3/98	KB	<1.4
Benzene	8020	ug/kg	0.9	2/3/98	KB	<0.9
Toluene	8020	ug/kg	0.7	2/3/98	KB	<0.7
Chlorobenzene	8020	ug/kg	1.7	2/3/98	KB	<1.7
Ethyl benzene	8020	ug/kg	0.8	2/3/98	KB	<0.8
m & p-Xylene	8020	ug/kg	1.6	2/3/98	KB	<1.6
o-Xylene	8020	ug/kg	0.8	2/3/98	KB	<0.8
m-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
p-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
o-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
Total BTEX	8020	ug/kg	n/a	n/a	KB	<1.6
8020 Dilution Factor	8020	x	n/a	n/a	n/a	1

Data Release Authorization

The sample integrity and reliability was verified by Laboratory personnel prior to analysis. Analysis method used are in accordance with F.A.C. 62-775 and applicable EPA protocols. Laboratory Quality Assurance is in accordance with Bottorf Associates Comprehensive Quality Assurance Plan No. 910102.

Kent D. Bottorf
Laboratory Director

Signature

2/12/98
Date

BOTTORF Associates inc.

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Soil Analysis Report

Sample Received From: C. A. Meyer
P.O. Box 555727
Orlando, Fl 32855-5727

Lab Control Number: 15676

Sample Name: 1070A
Date Received: January 28, 1998
Date Reported: February 12, 1998

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Total Petroleum Hydrocarbons	Fl-Pro	mg/kg	1.0	2/9/98	KB	10.2
Arsenic	7061	mg/kg	0.4	2/7/98	KB	2.1
Barium	7080	mg/kg	0.025	2/11/98	KB	200
Cadmium	7131	mg/kg	0.05	2/10/98	KB	0.2
Chromium	7191	mg/kg	0.1	2/10/98	KB	5.5
Lead	7421	mg/kg	0.05	2/10/98	KB	25
Mercury	7471	mg/kg	0.001	2/10/98	KB	<0.001
Selenium	7740	mg/kg	0.5	2/7/98	KB	<0.5
Silver	7760	mg/kg	0.05	2/7/98	KB	0.1
Methyl-tert-butyl-ether	8020	ug/kg	1.4	2/3/98	KB	<1.4
Benzene	8020	ug/kg	0.9	2/3/98	KB	<0.9
Toluene	8020	ug/kg	0.7	2/3/98	KB	<0.7
Chlorobenzene	8020	ug/kg	1.7	2/3/98	KB	<1.7
Ethyl benzene	8020	ug/kg	0.8	2/3/98	KB	<0.8
m & p-Xylene	8020	ug/kg	1.6	2/3/98	KB	<1.6
o-Xylene	8020	ug/kg	0.8	2/3/98	KB	<0.8
m-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
p-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
o-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
Total BTEX	8020	ug/kg	n/a	2/3/98	KB	<0.7
8020 Dilution Factor	8020	x	n/a	n/a	n/a	1

Data Release Authorization

The sample integrity and reliability was verified by Laboratory personnel prior to analysis. Analysis method used are in accordance with F.A.C. 62-775 and applicable EPA protocols. Laboratory Quality Assurance is in accordance with Bottorf Associates Comprehensive Quality Assurance Plan No. 910102-5.

Kent D. Bottorf
Laboratory Director

Signature

2/16/98
Date

BOTTORF Associates inc.

Soil Analysis Report

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Sample Received From: C. A. Meyer
P.O. Box 555727
Orlando, Fl 32855-5727

Lab Control Number: 15676

Sample Name: **1070A**
Date Received: January 28, 1998
Date Reported: February 12, 1998

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Dichlorodiflouroethane	8010	ug/kg	1.2	2/3/98	KB	<1.2
Bromomethane	8010	ug/kg	1.7	2/3/98	KB	<1.7
Chloroethane	8010	ug/kg	2.5	2/3/98	KB	<2.5
1,1-Dichloroethene	8010	ug/kg	1.3	2/3/98	KB	<1.3
Methylene Chloride	8010	ug/kg	1.3	2/3/98	KB	<1.3
trans 1,2-Dichloroethylene	8010	ug/kg	1.1	2/3/98	KB	<1.1
1,1-Dichloroethane	8010	ug/kg	1.3	2/3/98	KB	<1.3
Chloroform	8010	ug/kg	1.0	2/3/98	KB	<1.0
1,1,1-Trichlorethane	8010	ug/kg	1.3	2/3/98	KB	<1.3
Carbon Tetrachloride	8010	ug/kg	1.1	2/3/98	KB	<1.1
Trichloroethylene	8010	ug/kg	1.8	2/3/98	KB	<1.8
1,2-Dichloropropane	8010	ug/kg	1.5	2/3/98	KB	<1.5
Bromodichloromethane	8010	ug/kg	9.0	2/3/98	KB	<9.0
cis 1,3-Dichloropropane	8010	ug/kg	1.2	2/3/98	KB	<1.2
trans 1,3-Dichloropropane	8010	ug/kg	1.4	2/3/98	KB	<1.4
1-Chloro 2-Bromomethane	8010	ug/kg	1.2	2/3/98	KB	<1.2
1,1,2-Trichloroethane	8010	ug/kg	1.3	2/3/98	KB	<1.3
Tertrachloroethylene	8010	ug/kg	1.1	2/3/98	KB	<1.1
Dibromochloromethane	8010	ug/kg	1.1	2/3/98	KB	<1.1
1,2-Dibromomethane	8010	ug/kg	1.4	2/3/98	KB	<1.4
Chlorobenzene	8010	ug/kg	3.8	2/3/98	KB	<3.8
1,1,1,2-Tetrachloroethane	8010	ug/kg	1.3	2/3/98	KB	<1.3

BOTTORF Associates inc.

Soil Analysis Report

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Sample Received From: C. A. Meyer
P.O. Box 555727
Orlando, Fl 32855-5727

Lab Control Number: 15676

Sample Name: **1070A**
Date Received: January 28, 1998
Date Reported: February 12, 1998

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Bromoform	8010	ug/kg	1.2	2/3/98	KB	<1.2
1,1,2,2-Tetrachlorethane	8010	ug/kg	1.0	2/3/98	KB	<1.0
1,2,3-Trichloropropane	8010	ug/kg	5.7	2/3/98	KB	<5.7
Bromobenzene	8010	ug/kg	1.1	2/3/98	KB	<1.1
4-Chlorotoluene	8010	ug/kg	1.4	2/3/98	KB	<1.4
m-Dichlorobenzene	8010	ug/kg	2.6	2/3/98	KB	<2.6
p-Dichlorobenzene	8010	ug/kg	2.5	2/3/98	KB	<2.5
o-Dichlorobenzene	8010	ug/kg	2.8	2/3/98	KB	<2.8
Total VOH	8010	ug/kg	n/a	2/3/98	KB	<1.0
8010 Dilution Factor	8010	x	n/a	n/a	n/a	1
Acenaphthene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Acenapthylene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Anthracene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Benzo(a)anthracene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Benzo(a)pyrene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Benzo(b)fluoranthene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Benzo(ghi)perylene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Benzo(k)fluoranthene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Chrysene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Dibenzo(a,h)anthracene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Fluoranthene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Fluorene	8100	ug/kg	5.0	2/3/98	KB	<5.0

BOTTORF Associates inc.

Soil Analysis Report

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Sample Received From: C. A. Meyer
P.O. Box 555727
Orlando, Fl 32855-5727

Lab Control Number: 15676

Sample Name: **1070A**
Date Received: January 28, 1998
Date Reported: February 12, 1998

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Indeno(1,2,3-cd)pyrene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Naphthalene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Phenanthrene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Pyrene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Total PAH	8100	ug/kg	n/a	n/a	n/a	<5.0
8100 Dilution Factor	8100	x	n/a	n/a	n/a	1

BOTTORF Associates inc.

Soil Analysis Report

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Sample Received From: C. A. Meyer
P.O. Box 555727
Orlando, Fl 32855-5727

Lab Control Number: 15677

Sample Name: **1070B**
Date Received: January 28, 1998
Date Reported: February 12, 1998

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Total Petroleum Hydrocarbons	Fl-Pro	mg/kg	1.0	2/9/98	KB	10.8
Arsenic	7061	mg/kg	0.4	2/7/98	KB	2.1
Barium	7080	mg/kg	0.025	2/11/98	KB	200
Cadmium	7131	mg/kg	0.05	2/10/98	KB	0.1
Chromium	7191	mg/kg	0.1	2/10/98	KB	5.0
Lead	7421	mg/kg	0.05	2/10/98	KB	43.2
Mercury	7471	mg/kg	0.001	2/10/98	KB	<0.001
Selenium	7740	mg/kg	0.5	2/7/98	KB	<0.5
Silver	7760	mg/kg	0.05	2/7/98	KB	<0.05
Methyl-tert-butyl-ether	8020	ug/kg	1.4	2/3/98	KB	<1.4
Benzene	8020	ug/kg	0.9	2/3/98	KB	<0.9
Toluene	8020	ug/kg	0.7	2/3/98	KB	<0.7
Chlorobenzene	8020	ug/kg	1.7	2/3/98	KB	<1.7
Ethyl benzene	8020	ug/kg	0.8	2/3/98	KB	<0.8
m & p-Xylene	8020	ug/kg	1.6	2/3/98	KB	<1.6
o-Xylene	8020	ug/kg	0.8	2/3/98	KB	<0.8
m-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
p-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
o-Dichlorobenzene	8020	ug/kg	1.6	2/3/98	KB	<1.6
Total BTEX	8020	ug/kg	n/a	2/3/98	KB	<0.7
8020 Dilution Factor	8020	x	n/a	n/a	n/a	1

Data Release Authorization

The sample integrity and reliability was verified by Laboratory personnel prior to analysis. Analysis method used are in accordance with F.A.C. 62-775 and applicable EPA protocols. Laboratory Quality Assurance is in accordance with Bottorf Associates Comprehensive Quality Assurance Plan No. 910102-5.

Kent D. Bottorf
Laboratory Director

Signature

2/12/98
Date

BOTTORF Associates inc.

Soil Analysis Report

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Sample Received From: C. A. Meyer
P.O. Box 555727
Orlando, Fl 32855-5727

Lab Control Number: 15677

Sample Name: **1070B**
Date Received: January 28, 1998
Date Reported: February 12, 1998

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Dichlorodiflouroethane	8010	ug/kg	1.2	2/3/98	KB	<1.2
Bromomethane	8010	ug/kg	1.7	2/3/98	KB	<1.7
Chloroethane	8010	ug/kg	2.5	2/3/98	KB	<2.5
1,1-Dichloroethene	8010	ug/kg	1.3	2/3/98	KB	<1.3
Methylene Chloride	8010	ug/kg	1.3	2/3/98	KB	<1.3
trans 1,2-Dichloroethylene	8010	ug/kg	1.1	2/3/98	KB	<1.1
1,1-Dichloroethane	8010	ug/kg	1.3	2/3/98	KB	<1.3
Chloroform	8010	ug/kg	1.0	2/3/98	KB	<1.0
1,1,1-Trichlorethane	8010	ug/kg	1.3	2/3/98	KB	<1.3
Carbon Tetrachloride	8010	ug/kg	1.1	2/3/98	KB	<1.1
Trichloroethylene	8010	ug/kg	1.8	2/3/98	KB	<1.8
1,2-Dichloropropane	8010	ug/kg	1.5	2/3/98	KB	<1.5
Bromodichloromethane	8010	ug/kg	9.0	2/3/98	KB	<9.0
cis 1,3-Dichloropropane	8010	ug/kg	1.2	2/3/98	KB	<1.2
trans 1,3-Dichloropropane	8010	ug/kg	1.4	2/3/98	KB	<1.4
1-Chloro 2-Bromomethane	8010	ug/kg	1.2	2/3/98	KB	<1.2
1,1,2-Trichloroethane	8010	ug/kg	1.3	2/3/98	KB	<1.3
Tertrachloroethylene	8010	ug/kg	1.1	2/3/98	KB	<1.1
Dibromochloromethane	8010	ug/kg	1.1	2/3/98	KB	<1.1
1,2-Dibromomethane	8010	ug/kg	1.4	2/3/98	KB	<1.4
Chlorobenzene	8010	ug/kg	3.8	2/3/98	KB	<3.8
1,1,1,2-Tetrachloroethane	8010	ug/kg	1.3	2/3/98	KB	<1.3

BOTTORF Associates inc.

Soil Analysis Report

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Sample Received From: C. A. Meyer
P.O. Box 555727
Orlando, Fl 32855-5727

Lab Control Number: 15677

Sample Name: **1070B**
Date Received: January 28, 1998
Date Reported: February 12, 1998

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Bromoform	8010	ug/kg	1.2	2/3/98	KB	<1.2
1,1,2,2-Tetrachlorethane	8010	ug/kg	1.0	2/3/98	KB	<1.0
1,2,3-Trichloropropane	8010	ug/kg	5.7	2/3/98	KB	<5.7
Bromobenzene	8010	ug/kg	1.1	2/3/98	KB	<1.1
4-Chlorotoluene	8010	ug/kg	1.4	2/3/98	KB	<1.4
m-Dichlorobenzene	8010	ug/kg	2.6	2/3/98	KB	<2.6
p-Dichlorobenzene	8010	ug/kg	2.5	2/3/98	KB	<2.5
o-Dichlorobenzene	8010	ug/kg	2.8	2/3/98	KB	<2.8
Total VOH	8010	ug/kg	n/a	2/3/98	KB	<1.0
8010 Dilution Factor	8010	x	n/a	n/a	n/a	1
Acenaphthene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Acenapthylene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Anthracene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Benzo(a)anthracene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Benzo(a)pyrene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Benzo(b)fluoranthene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Benzo(ghi)perylene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Benzo(k)fluoranthene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Chrysene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Dibenzo(a,h)anthracene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Fluoranthene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Fluorene	8100	ug/kg	5.0	2/3/98	KB	<5.0

BOTTORF Associates inc.

Soil Analysis Report

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Sample Received From: C. A. Meyer
P.O. Box 555727
Orlando, Fl 32855-5727

Lab Control Number: 15677

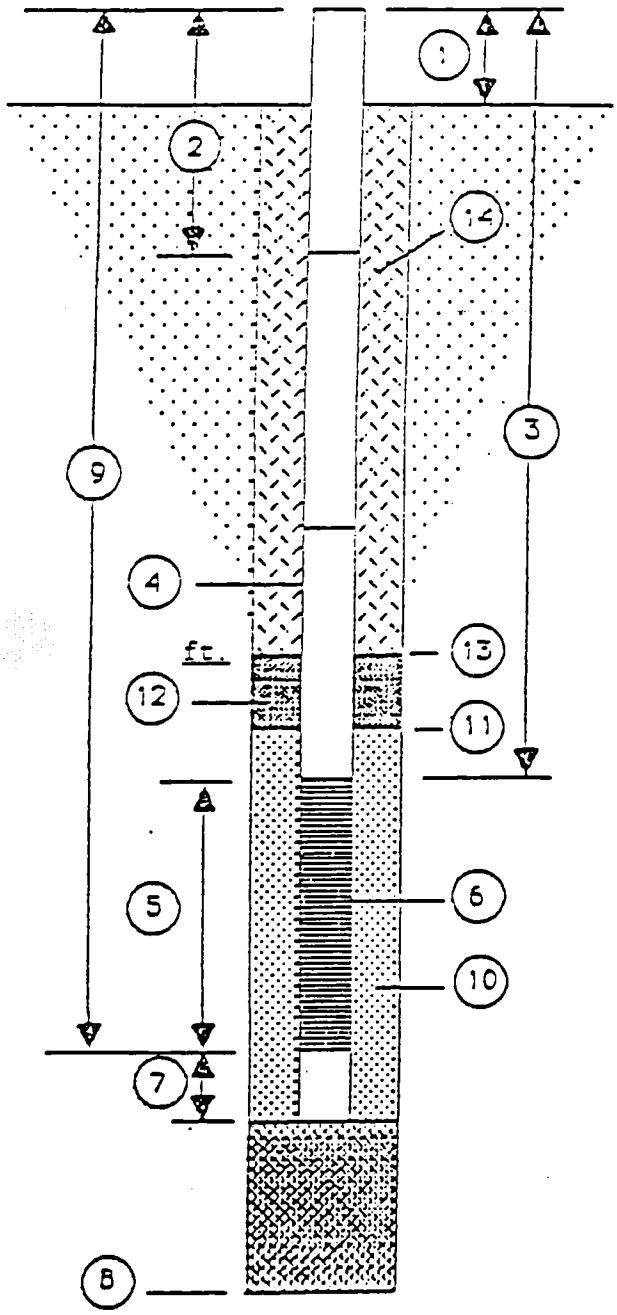
Sample Name: 1070B
Date Received: January 28, 1998
Date Reported: February 12, 1998

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Indeno(1,2,3-cd)pyrene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Naphthalene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Phenanthrene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Pyrene	8100	ug/kg	5.0	2/3/98	KB	<5.0
Total PAH	8100	ug/kg	n/a	n/a	n/a	<5.0
8100 Dilution Factor	8100	x	n/a	n/a	n/a	1

APPENDIX C

WELL CONSTRUCTION DETAILS

DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
2155 EAGLE DR., P. O. BOX 10068
CHARLESTON, S. C. 29411-0068



WELL CONSTRUCTION DETAILS

WELL NUMBER OLD-7174-6

DATE OF INSTALLATION 8-23-88

1. Height of Casing above ground 2.25 ft.
2. Depth to first Coupling 5.0 ft.

   Coupling Interval Depths N/A
3. Total Length of Blank Pipe 5.0 ft.
4. Type of Blank Pipe Schedule 40 PVC, 2" ID
5. Length of Screen 10 ft.
6. Type of Screen Schedule 40 PVC, =10 slot
7. Length of Sump N/A
8. Total Depth of Boring 13.0 ft. Hole Diameter ?
9. Depth to Bottom of Screen 15.0 ft.
10. Type of Screen Filter Sand

    Quantity Used 200 lbs. Size 6/20 U/C
11. Depth to Top of Filter 2.0 ft.
12. Type of Seal Bentonite pellets

    Quantity Used 1/4 bucket (5 gal. bucket)
13. Depth to Top of Seal 1.0 ft.
14. Type of Grout Concrete

    Grout Mixture

    Method of Placement

COMMENTS ON INSTALLATION: Well OLD-1-6 was drilled twice. Originally, the bottom the well screen popped off and large amounts of sand were clogging the pumps during development. It was redrilled and set on 8-24-88 in the original borehole.

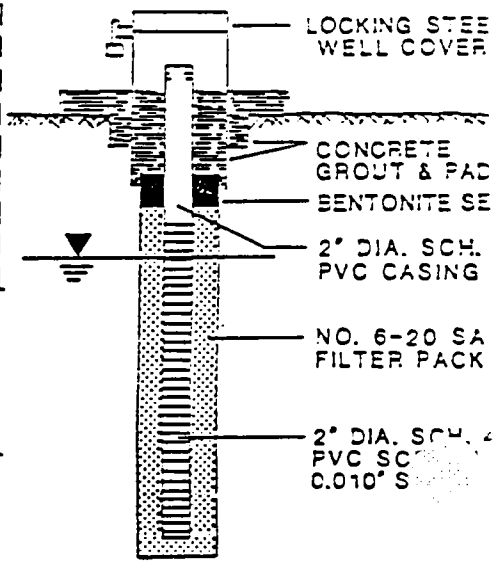
SOUTHERN DIVISION NAVAL FACILITIES ENGINEERING COMMAND
GROUNDWATER MONITORING WELL INSTALLATION REPORT

LOCATION: NTC McCoy Annex Base Exchange Service Station, Orlando FL

Log of Boring/Well No.: OLD-7174-6

Depth (Feet)	Sym	Spl	MATERIAL DESCRIPTION
			black fine to medium sand
		X	tan fine sand
5			Groundwater level = 4.05 ft BLS
			grades to off-white fine sand
			light grey fine sand
10			
			end of boring @ 16:30 8-24-88
15			
20			
25			
30			

WELL CONSTRUCTION



Boring Completion Date: 8-24-88
Well Completion Date: 8-24-88
Well Development Date: 8-24-88
Drilling Method: Hollow stem auger
Depth to Water: 6.30 ft from TOC

Boring Diameter: 8.5 inches
Ground Elevation: 99.57 ft
Top of Casing Elev.: 101.82 ft
Driller: Bill Briggs
Logged By: Mark Diblin

WELL COMPLETION LOG

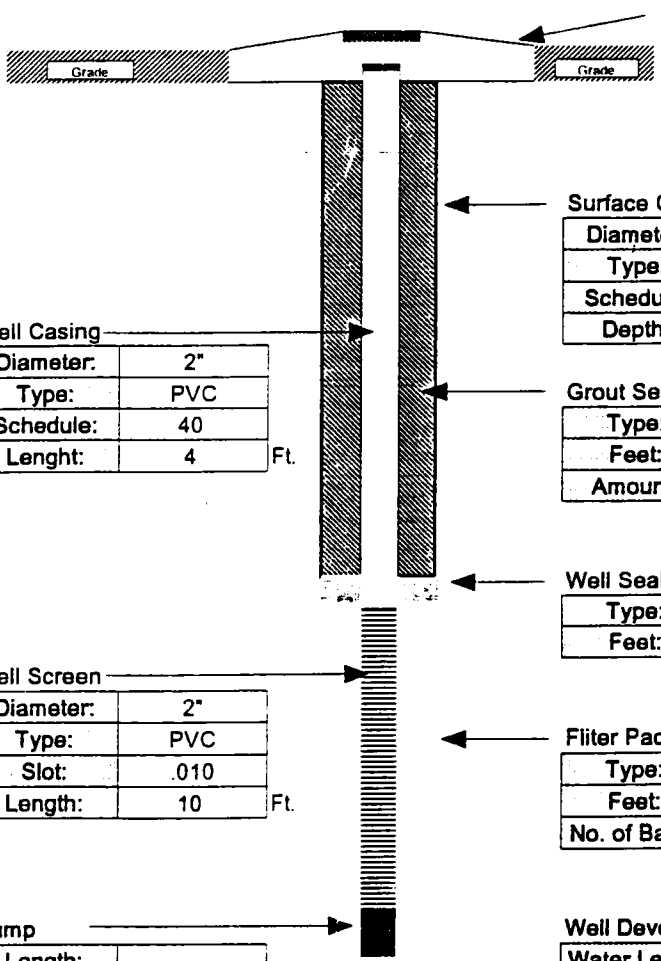
Water Mgmt. Dist.: St. Johns
Permit Number:

Work Order: 6042
Type of Well: Monitor
Well Number: Old 7174-23
Method Used: 6¼ HSA
Borehole Dia. 10"

Site Information:
Name: NTC
Address: Main Base
C,S,Z: Orlando, Florida
S/T/R:

Client / Consultant Information
Consultant: ABB Environmental Services
Field Rep: Scott Donelick

Well Diameter	Well Type	Well Depth	Screen Length	Casing Length	Bags Grout	Sand Bags/Weight	Filter Type	Well Seal
2"	PVC	14	10	4	0.5	9/50lb	20/30	Fine Sand
40 ←	Schedule	Slot Size: →	.010		2	← Feet →	11	1



Surface Completion
Bolt Down

Surface Casing

Diameter:	
Type:	
Schedule:	
Depth:	

Intermediate Casing

Diameter:	
Type:	
Schedule:	
Depth:	

Well Casing

Diameter:	2"
Type:	PVC
Schedule:	40
Lenght:	4 Ft.

Grout Seal

Type:	II Portland
Feet:	2
Amount:	0.5 Bags

Well Seal

Type:	Fine Sand
Feet:	1

Well Screen

Diameter:	2"
Type:	PVC
Slot:	.010
Length:	10 Ft.

Fliter Pack

Type:	20/30
Feet:	11
No. of Bags:	9/50lb

Sump

Length:	

Well Development

Water Level:	6'		
Method:	Centrifugal		
Start: →	Cloudy	Finish: →	Cloudy
Time:	30 Minutes		
GPM:	0.5		

Contractor Information

Contractor #:	2633
Completion:	07/12/96
Driller:	Todd Flick
Lead Hand:	Robert Detweiler
3rd Man:	Brian Burgess
Drill Rig:	D120-C

Company:	Groundwater Protection, Inc.
Address:	4315 S.W. 34th Street
C,S,Z:	Orlando, Florida 32811
Phone/FAX:	(407) 426-7885 / (407) 426-7586

WELL COMPLETION LOG

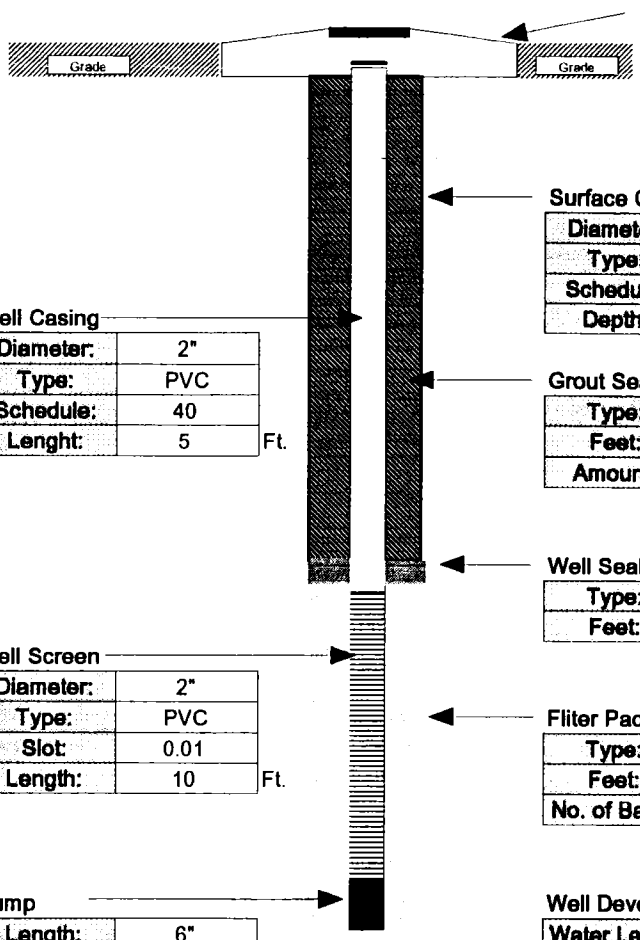
Water Mgmt. Dist.: SJRWMD
Permit Number: N/A

Work Order: 6318
Type of Well: Monitoring
Well Number: MW 24
Method Used: HS Auger
Borehole Dia. 8"

Site Information:
Name: McCoy Annex/Bldg. 7174
Address: Daetwyler Dr.
C,S,Z: Orlando, Florida
S/T/R:

Client / Consultant Information
Consultant: ABB Environmental Services
Field Rep: Myrna Bark

Well Diameter	Well Type	Well Depth	Screen Length	Casing Length	Bags Grout	Sand Bags/Weight	Filter Type	Well Seal
2"	PVC	15'	10'	5'	1	7/50#	20/30	30/65
40 ◄	Schedule	Slot Size: ►	0.01		1	◄ Feet ►	12	2



Surface Completion
Bolt Down Manhole

Surface Casing

Diameter:	
Type:	
Schedule:	
Depth:	

Intermediate Casing

Diameter:	
Type:	
Schedule:	
Depth:	

Well Casing

Diameter:	2"
Type:	PVC
Schedule:	40
Lenght:	5 Ft.

Grout Seal

Type:	II Portland
Feet:	1
Amount:	1 Bags

Well Seal

Type:	FS 30/65
Feet:	2

Well Screen

Diameter:	2"
Type:	PVC
Slot:	0.01
Length:	10 Ft.

Fliter Pack

Type:	20/30
Feet:	12'
No. of Bags:	7

Nearest Intersection

Sump

Length:	6"

Well Development

Water Level:			
Method:	Cent. Pump		
Start: ►		Finish: ►	Clear
Time:	1/2 hour		
GPM:			

Contractor Information

Contractor #:	2633
Completion:	01/06/98
Driller:	Nick Smarrito
Lead Hand:	Jeff Ziegler
3rd Man:	Ray Patterson
Drill Rig:	D-120

Company:	Groundwater Protection, Inc.
Address:	1824 W. Washington St.
C,S,Z:	Orlando, Florida 32805
Phone/FAX:	(407) 426-7885 / (407) 426-7586

WELL COMPLETION LOG

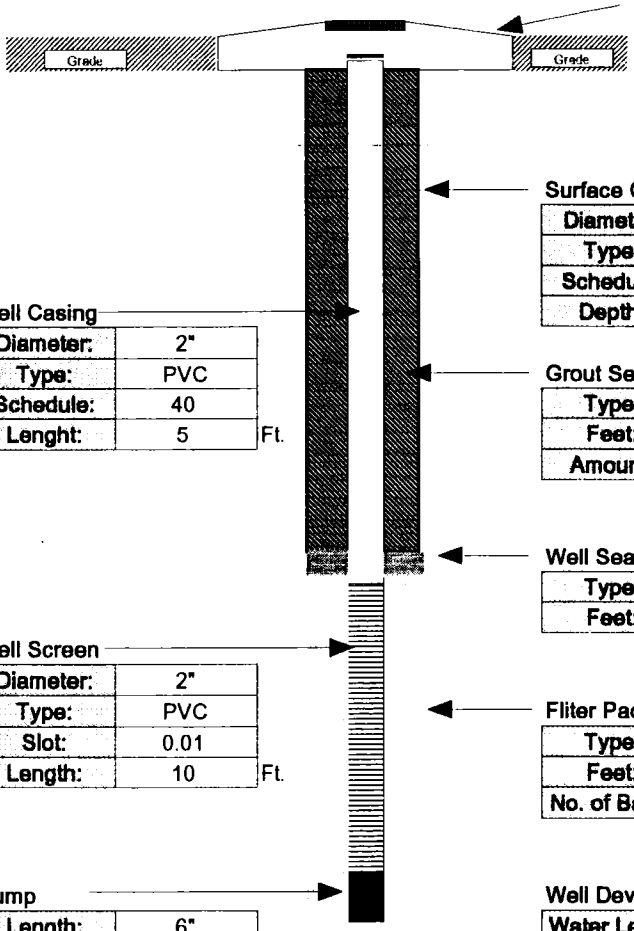
Water Mgmt. Dist.: SJRWMD
Permit Number: N/A

Work Order: 6318
Type of Well: Monitoring
Well Number: MW 25
Method Used: HS Auger
Borehole Dia. 8"

Site Information:
Name: McCoy Annex/Bldg. 7174
Address: Daetwyler Dr.
C,S,Z: Orlando, Florida
S/T/R:

Client / Consultant Information
Consultant: ABB Environmental Services
Field Rep: Myrna Bark

Well Diameter	Well Type	Well Depth	Screen Length	Casing Length	Bags Grout	Sand Bags/Weight	Filter Type	Well Seal
2"	PVC	15'	10'	5'	1	7/50#	20/30	30/65
40	Schedule	Slot Size:	0.01		1	Feet	12	2



Surface Completion
Bolt Down Manhole

Surface Casing

Diameter:	
Type:	
Schedule:	
Depth:	

Intermediate Casing

Diameter:	
Type:	
Schedule:	
Depth:	

Well Casing

Diameter:	2"
Type:	PVC
Schedule:	40
Lenght:	5 Ft.

Grout Seal

Type:	II Portland
Feet:	1
Amount:	1 Bags

Well Seal

Type:	FS 30/65
Feet:	2

Well Screen

Diameter:	2"
Type:	PVC
Slot:	0.01
Length:	10 Ft.

Fliter Pack

Type:	20/30
Feet:	12'
No. of Bags:	7

Nearest Intersection

Sump

Length:	6"

Well Development

Water Level:			
Method:	Cent. Pump		
Start:		Finish:	Clear
Time:	1/2 hour		
GPM:			

Contractor Information

Contractor #:	2633
Completion:	01/06/98
Driller:	Nick Smarrito
Lead Hand:	Jeff Ziegler
3rd Man:	Ray Patterson
Drill Rig:	D-120

Company: Groundwater Protection, Inc.
Address: 1824 W. Washington St.
C,S,Z: Orlando, Florida 32805
Phone/FAX: (407) 426-7885 / (407) 426-7586

WELL COMPLETION LOG

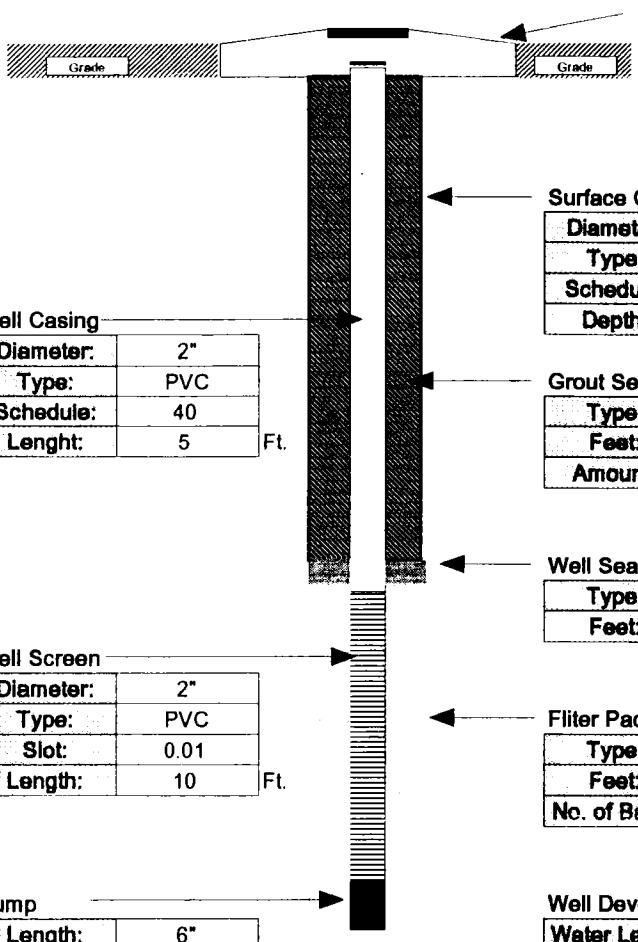
Water Mgmt. Dist.: SJRWMD
Permit Number: N/A

Work Order: 6318
Type of Well: Monitoring
Well Number: MW 26
Method Used: HS Auger
Borehole Dia. 8"

Site Information:
Name: McCoy Annex/Bldg. 7174
Address: Daetwyler Dr.
C,S,Z: Orlando, Florida
S/T/R:

Client / Consultant Information
Consultant: ABB Environmental Services
Field Rep: Myma Bark

Well Diameter	Well Type	Well Depth	Screen Length	Casing Length	Bags Grout	Sand Bags/Weight	Filter Type	Well Seal
2"	PVC	15'	10'	5'	1	7/50#	20/30	30/65
40 ←	Schedule	Slot Size: →	0.01		1	← Feet →	12	2



Surface Completion
Bolt Down Manhole

Surface Casing

Diameter:	
Type:	
Schedule:	
Depth:	

Intermediate Casing

Diameter:	
Type:	
Schedule:	
Depth:	

Well Casing

Diameter:	2"	
Type:	PVC	
Schedule:	40	
Lenght:	5	Ft.

Grout Seal

Type:	II Portland	
Feet:	1	
Amount:	1	Bags

Well Seal

Type:	FS 30/65
Feet:	2

Well Screen

Diameter:	2"	
Type:	PVC	
Slot:	0.01	
Length:	10	Ft.

Fliter Pack

Type:	20/30
Feet:	12'
No. of Bags:	7

Nearest Intersection

Sump

Length:	6"

Well Development

Water Level:			
Method:	Cent. Pump		
Start: →		Finish: →	Clear
Time:	1/2 hour		
GPM:			

Contractor Information

Contractor #:	2633
Completion:	01/06/98
Driller:	Nick Smarrito
Lead Hand:	Jeff Ziegler
3rd Man:	Ray Patterson
Drill Rig:	D-120

Company:	Groundwater Protection, Inc.
Address:	1824 W. Washington St.
C,S,Z:	Orlando, Florida 32805
Phone/FAX:	(407) 426-7885 / (407) 426-7586

WELL COMPLETION LOG

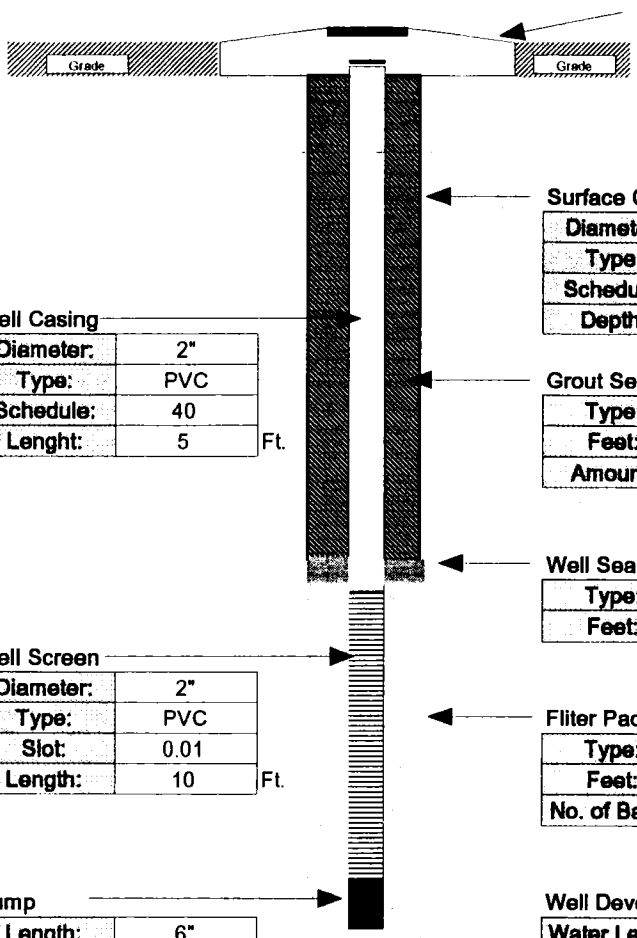
Water Mgmt. Dist.: SJRWMD
Permit Number: N/A

Work Order: 6318
Type of Well: Monitoring
Well Number: MW 27
Method Used: HS Auger
Borehole Dia. 8"

Site Information:
Name: McCoy Annex/Bldg. 7174
Address: Daetwyler Dr.
C,S,Z: Orlando, Florida
S/T/R:

Client / Consultant Information
Consultant: ABB Environmental Services
Field Rep: Myrna Bark

Well Diameter	Well Type	Well Depth	Screen Length	Casing Length	Bags Grout	Sand Bags/Weight	Filter Type	Well Seal
2"	PVC	15'	10'	5'	1	7/50#	20/30	30/65
40 ◄	Schedule	Slot Size: ►	0.01		1	◄ Feet ►	12	2



Surface Completion
Bolt Down Manhole

Surface Casing

Diameter:	
Type:	
Schedule:	
Depth:	

Intermediate Casing

Diameter:	
Type:	
Schedule:	
Depth:	

Well Casing

Diameter:	2"	
Type:	PVC	
Schedule:	40	
Lenght:	5	Ft.

Grout Seal

Type:	II Portland	
Feet:	1	
Amount:	1	Bags

Well Seal

Type:	FS 30/65
Feet:	2

Well Screen

Diameter:	2"	
Type:	PVC	
Slot:	0.01	
Length:	10	Ft.

Fliter Pack

Type:	20/30
Feet:	12'
No. of Bags:	7

Nearest Intersection

Sump

Length:	6"

Well Development

Water Level:			
Method:	Cent. Pump		
Start: ►		Finish: ►	Clear
Time:	1/2 hour		
GPM:			

Contractor Information

Contractor #:	2633
Completion:	01/06/98
Driller:	Nick Smarrito
Lead Hand:	Jeff Ziegler
3rd Man:	Ray Patterson
Drill Rig:	D-120

Company:	Groundwater Protection, Inc.
Address:	1824 W. Washington St.
C,S,Z:	Orlando, Florida 32805
Phone/FAX:	(407) 426-7885 / (407) 426-7586

WELL COMPLETION LOG

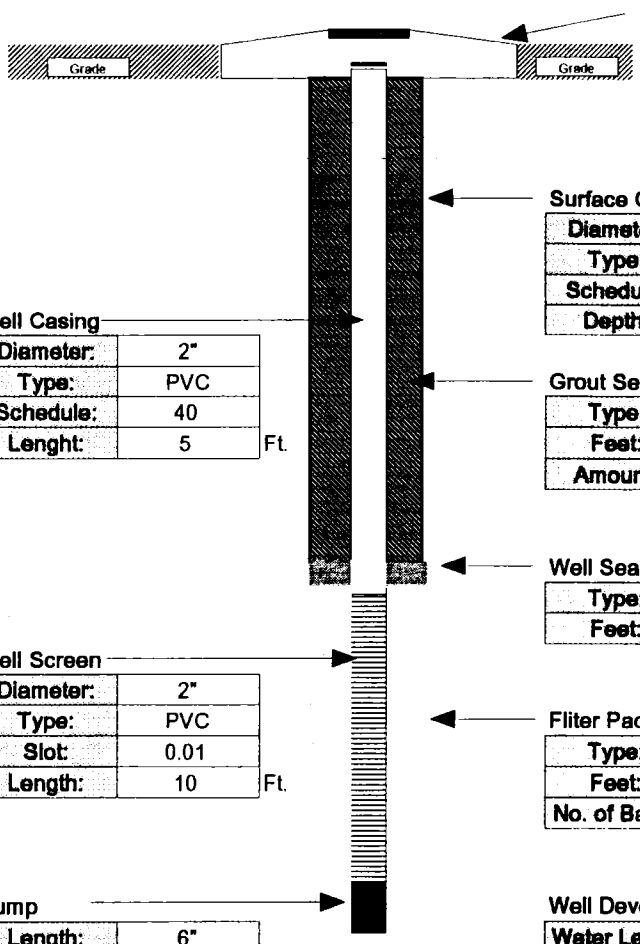
Water Mgmt. Dist.: SJRWMD
Permit Number: N/A

Work Order: 6318
Type of Well: Monitoring
Well Number: MW 28
Method Used: HS Auger
Borehole Dia. 8"

Site Information:
Name: McCoy Annex/Bldg. 7174
Address: Daetwyler Dr.
C,S,Z: Orlando, Florida
S/T/R:

Client / Consultant Information
Consultant: ABB Environmental Services
Field Rep: Myrna Bark

Well Diameter	Well Type	Well Depth	Screen Length	Casing Length	Bags Grout	Sand Bags/Weight	Filter Type	Well Seal
2"	PVC	15'	10'	5'	1	7/50#	20/30	30/65
40 ◄	Schedule	Slot Size: ►	0.01		1	◄ Feet ►	12	2



Surface Completion
Bolt Down Manhole

Surface Casing

Diameter:	
Type:	
Schedule:	
Depth:	

Intermediate Casing

Diameter:	
Type:	
Schedule:	
Depth:	

Well Casing

Diameter:	2"
Type:	PVC
Schedule:	40
Lenght:	5 Ft.

Grout Seal

Type:	II Portland
Feet:	1
Amount:	1 Bags

Well Seal

Type:	FS 30/65
Feet:	2

Well Screen

Diameter:	2"
Type:	PVC
Slot:	0.01
Length:	10 Ft.

Fliter Pack

Type:	20/30
Feet:	12'
No. of Bags:	7

Nearest Intersection

Sump

Length:	6"

Well Development

Water Level:			
Method:	Cent. Pump		
Start: ►		Finish: ►	Clear
Time:	1/2 hour		
GPM:			

Contractor Information

Contractor #:	2633
Completion:	01/06/98
Driller:	Nick Smarrito
Lead Hand:	Jeff Ziegler
3rd Man:	Ray Patterson
Drill Rig:	D-120

Company: Groundwater Protection, Inc.
Address: 1824 W. Washington St.
C,S,Z: Orlando, Florida 32805
Phone/FAX: (407) 426-7885 / (407) 426-7586

WELL COMPLETION LOG

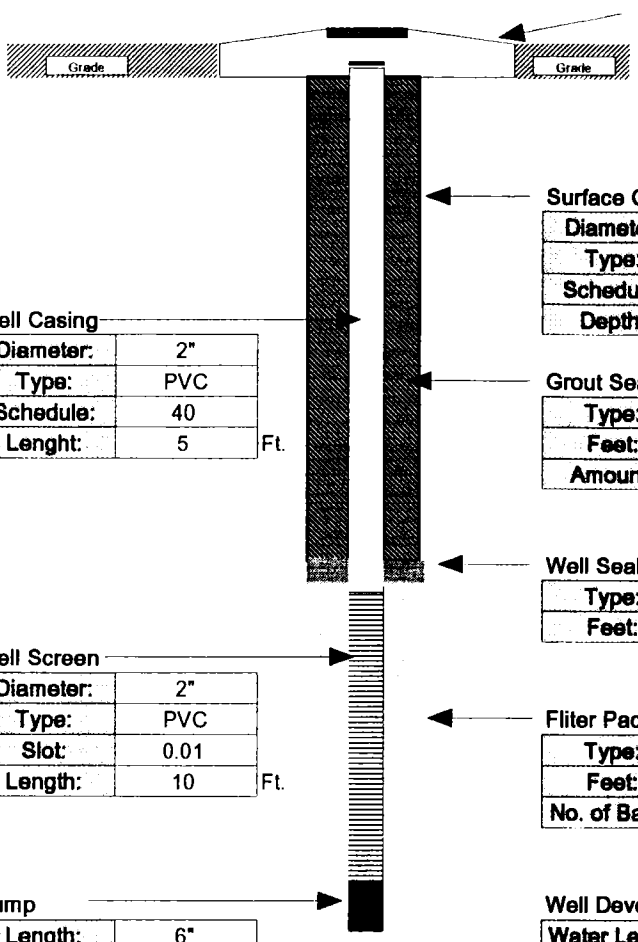
Water Mgmt. Dist.: SJRWMD
Permit Number: N/A

Work Order: 6318
Type of Well: Monitoring
Well Number: MW 29
Method Used: HS Auger
Borehole Dia. 8"

Site Information:
Name: McCoy Annex/Bldg. 7174
Address: Daetwyler Dr.
C,S,Z: Orlando, Florida
S/T/R:

Client / Consultant Information
Consultant: ABB Environmental Services
Field Rep: Myrna Bark

Well Diameter	Well Type	Well Depth	Screen Length	Casing Length	Bags Grout	Sand Bags/Weight	Filter Type	Well Seal
2"	PVC	15'	10'	5'	1	7/50#	20/30	30/65
40 ◄	Schedule	Slot Size: ►	0.01		1	◄ Feet ►	12	2



Surface Completion
Bolt Down Manhole

Surface Casing

Diameter:	
Type:	
Schedule:	
Depth:	

Intermediate Casing

Diameter:	
Type:	
Schedule:	
Depth:	

Well Casing

Diameter:	2"	
Type:	PVC	
Schedule:	40	
Lenght:	5	Ft.

Grout Seal

Type:	II Portland	
Feet:	1	
Amount:	1	Bags

Well Seal

Type:	FS 30/65
Feet:	2

Well Screen

Diameter:	2"	
Type:	PVC	
Slot:	0.01	
Length:	10	Ft.

Fliter Pack

Type:	20/30
Feet:	12'
No. of Bags:	7

Nearest Intersection

Sump

Length:	6"

Well Development

Water Level:			
Method:	Cent. Pump		
Start: ►		Finish: ►	Clear
Time:	1/2 hour		
GPM:			

Contractor Information

Contractor #:	2633
Completion:	01/06/98
Driller:	Nick Smarrito
Lead Hand:	Jeff Ziegler
3rd Man:	Ray Patterson
Drill Rig:	D-120

Company:	Groundwater Protection, Inc.
Address:	1824 W. Washington St.
C,S,Z:	Orlando, Florida 32805
Phone/FAX:	(407) 426-7885 / (407) 426-7586

WELL COMPLETION LOG

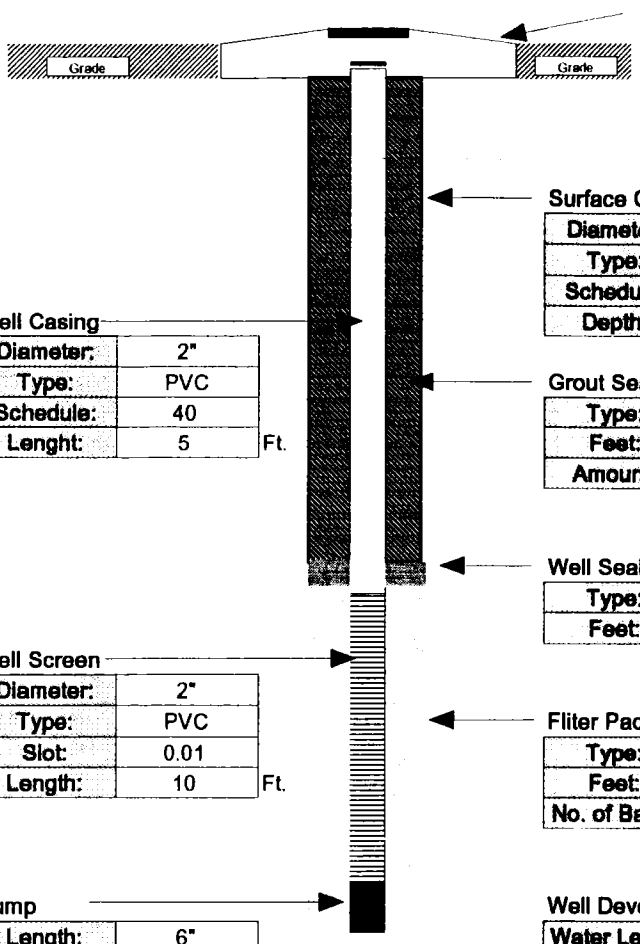
Water Mgmt. Dist.: SJRWMD
Permit Number: N/A

Work Order: 6318
Type of Well: Monitoring
Well Number: MW 30
Method Used: HS Auger
Borehole Dia. 8"

Site Information:
Name: McCoy Annex/Bldg. 7174
Address: Daetwyler Dr.
C,S,Z: Orlando, Florida
S/T/R:

Client / Consultant Information
Consultant: ABB Environmental Services
Field Rep: Myrna Bark

Well Diameter	Well Type	Well Depth	Screen Length	Casing Length	Bags Grout	Sand Bags/Weight	Filter Type	Well Seal
2"	PVC	15'	10'	5'	1	7/50#	20/30	30/65
40 ◄	Schedule	Slot Size: ►	0.01		1	◄ Feet ►	12	2



Surface Completion
Bolt Down Manhole

Surface Casing

Diameter:	
Type:	
Schedule:	
Depth:	

Intermediate Casing

Diameter:	
Type:	
Schedule:	
Depth:	

Well Casing

Diameter:	2"	
Type:	PVC	
Schedule:	40	
Lenght:	5	Ft.

Grout Seal

Type:	II Portland	
Feet:	1	
Amount:	1	Bags

Well Seal

Type:	FS 30/65
Feet:	2

Well Screen

Diameter:	2"	
Type:	PVC	
Slot:	0.01	
Length:	10	Ft.

Fliter Pack

Type:	20/30
Feet:	12'
No. of Bags:	7

Nearest Intersection

Sump

Length:	6"

Well Development

Water Level:			
Method:	Cent. Pump		
Start: ►		Finish: ►	Clear
Time:	1/2 hour		
GPM:			

Contractor Information

Contractor #:	2633
Completion:	01/06/98
Driller:	Nick Smarrito
Lead Hand:	Jeff Ziegler
3rd Man:	Ray Patterson
Drill Rig:	D-120

Company:	Groundwater Protection, Inc.
Address:	1824 W. Washington St.
C,S,Z:	Orlando, Florida 32805
Phone/FAX:	(407) 426-7885 / (407) 426-7586

WELL COMPLETION LOG

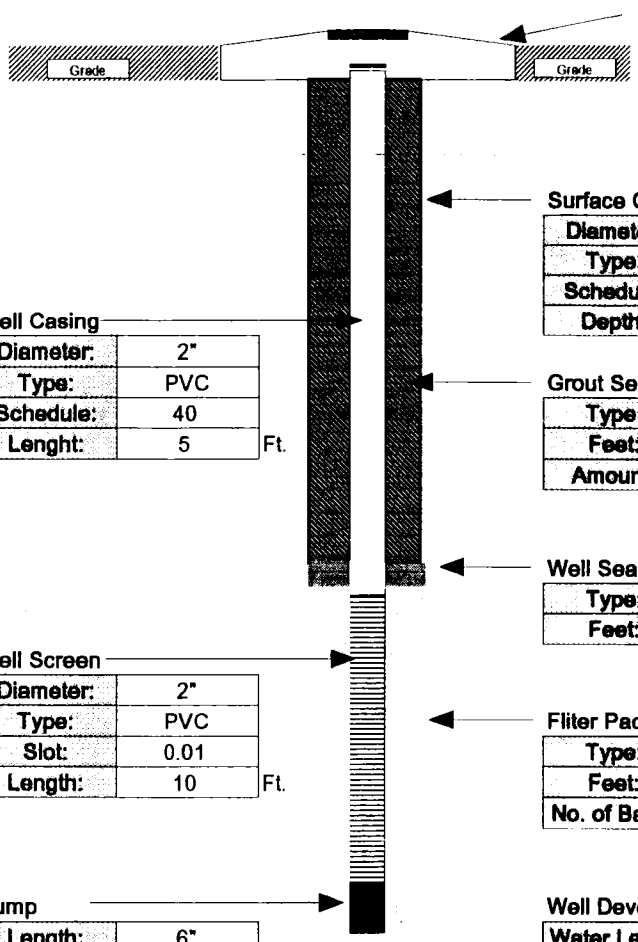
Water Mgmt. Dist.: SJRWMD
Permit Number: N/A

Work Order: 6318
Type of Well: Monitoring
Well Number: MW 31
Method Used: HS Auger
Borehole Dia. 8"

Site Information:
Name: McCoy Annex/Bldg. 7174
Address: Daetwyler Dr.
C,S,Z: Orlando, Florida
S/T/R:

Client / Consultant Information
Consultant: ABB Environmental Services
Field Rep: Myrna Bark

Well Diameter	Well Type	Well Depth	Screen Length	Casing Length	Bags Grout	Sand Bags/Weight	Filter Type	Well Seal
2"	PVC	15'	10'	5'	1	7/50#	20/30	30/65
40 ◄	Schedule	Slot Size: ►	0.01		1	◄ Feet ►	12	2



Surface Completion
Bolt Down Manhole

Surface Casing

Diameter:	
Type:	
Schedule:	
Depth:	

Intermediate Casing

Diameter:	
Type:	
Schedule:	
Depth:	

Well Casing

Diameter:	2"	
Type:	PVC	
Schedule:	40	
Lenght:	5	Ft.

Grout Seal

Type:	II Portland	
Feet:	1	
Amount:	1	Bags

Well Seal

Type:	FS 30/65
Feet:	2

Well Screen

Diameter:	2"	
Type:	PVC	
Slot:	0.01	
Length:	10	Ft.

Fliter Pack

Type:	20/30
Feet:	12'
No. of Bags:	7

Nearest Intersection

Sump

Length:	6"

Well Development

Water Level:			
Method:	Cent. Pump		
Start: ►		Finish: ►	Clear
Time:	1/2 hour		
GPM:			

Contractor Information

Contractor #:	2633
Completion:	01/06/98
Driller:	Nick Smarrito
Lead Hand:	Jeff Ziegler
3rd Man:	Ray Patterson
Drill Rig:	D-120

Company: Groundwater Protection, Inc.
Address: 1824 W. Washington St.
C,S,Z: Orlando, Florida 32805
Phone/FAX: (407) 426-7885 / (407) 426-7586

WELL COMPLETION LOG

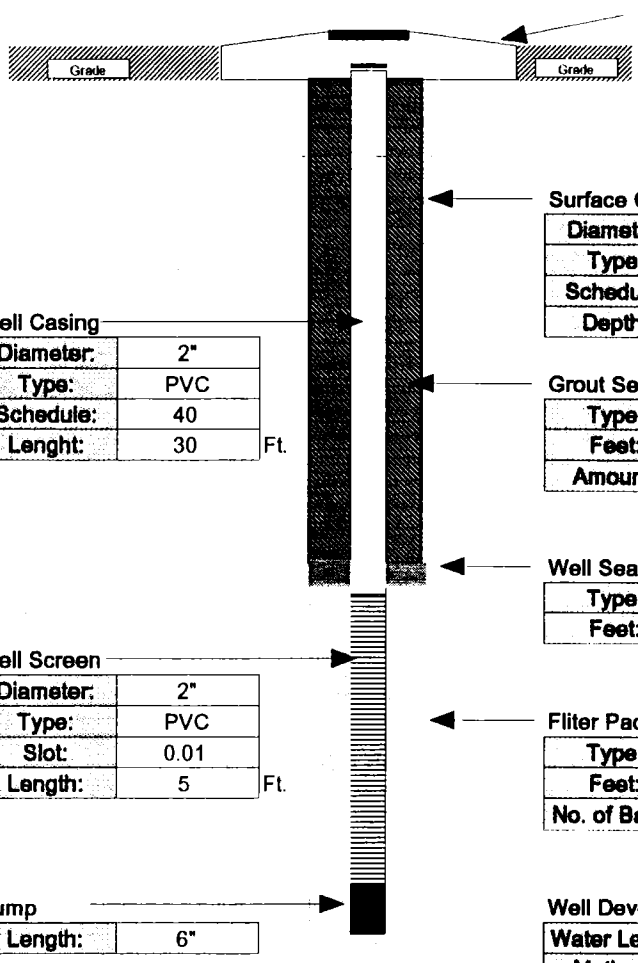
Water Mgmt. Dist.: SJRWMD
Permit Number: N/A

Work Order: 6354
Type of Well: Monitoring
Well Number: DMW 2
Method Used: Mud Rotary
Borehole Dia. 6"

Site Information:
Name: McCoy Annex/Bldg. 7174
Address: Daetwyler Dr.
C,S,Z: Orlando, Florida
S/T/R:

Client / Consultant Information
Consultant: ABB Environmental Services
Field Rep: Myrna Bark

Well Diameter	Well Type	Well Depth	Screen Length	Casing Length	Bags Grout	Sand Bags/Weight	Filter Type	Well Seal
2"	PVC	35'	5'	30'	3	4/50#	20/30	30/65
40	Schedule	Slot Size:	0.01		26	Feet	7'	2



Surface Completion
Bolt Down Manhole

Surface Casing

Diameter:	6"
Type:	PVC FT
Schedule:	40
Depth:	25'

Intermediate Casing

Diameter:	
Type:	
Schedule:	
Depth:	

Well Casing

Diameter:	2"
Type:	PVC
Schedule:	40
Lenght:	30 Ft.

Grout Seal

Type:	II Portland
Feet:	26
Amount:	3 Bags

Well Seal

Type:	FS 30/65
Feet:	2

Well Screen

Diameter:	2"
Type:	PVC
Slot:	0.01
Length:	5 Ft.

Fliter Pack

Type:	20/30
Feet:	7'
No. of Bags:	4

Nearest Intersection

Sump

Length:	6"

Well Development

Water Level:			
Method:	Cent. Pump		
Start:		Finish:	Clear
Time:	1/2 hour		
GPM:			

Contractor Information

Contractor #:	2790
Completion:	02/05/98
Driller:	Charles Bucher
Lead Hand:	Otis Johnson
3rd Man:	Nick Smarrito
Drill Rig:	Mobile Drill b-59

Company: Groundwater Protection, Inc.
Address: 1824 W. Washington St.
C,S,Z: Orlando, Florida 32805
Phone/FAX: (407) 426-7885 / (407) 426-7586

LOG OF BORING

Drilling Company

Groundwater Protection, Inc.
1824 W. Washington Street
Orlando, FL 32811
(407) 426-7885 / (407) 426-7586

Site Information

Name:	McCoy Annex/Bldg. 7174
Address:	Daetwyler Dr.
City/St./Zip:	Orlando, Florida
S / T / R:	

Work Order #:	6354
Boring Date:	02/05/98
Driller:	Charles Bucher
Lead Hand:	Otis Johnson

Consultant:	ABB Environmental Services
Office:	Orlando, Florida
Contact:	Myrna Bark
Boring #:	

METHOD:

Hammer Adv.	Thru Auger	Rotary	Split Spoon	Shelby Tube	Flight Auger	Visual	Water Level
x	x		x				

Sample #:	Depth	N-Value	Sample Type	Water Pres.	Soil Description
	0 to 2	1-1-2-3	SS		
	2 to 4	4-4-4-5	SS		
	4 to 6	7-8-11-11	SS		
	6 to 8	7-8-11-18	SS		
	8 to 10	9-11-14-23	SS		
	15 to 17	3-5-7-9	SS		
	20 to 22	2-3-3-3	SS		
	25 to 27	8-9-9-13	SS		
	30 to 32	3-3-3-3	SS		
	35 to 37	4-8-10-14	SS		
	40 to 42	Push	SS		

APPENDIX D

LITHOLOGIC LOGS

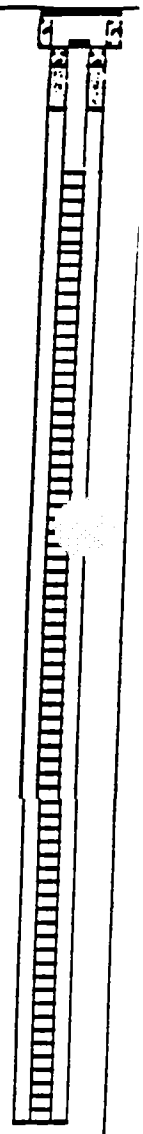
TITLE: NTC ORLANDO, Building 7174		LOG of WELL: MW-24	BORING NO.
CLIENT: SOUTHDIVNAVFACENGCOM			PROJECT NO: 0253016
CONTRACTOR: Groundwater protection, Inc.		DATE STARTED: 1-5-1998	COMPLTD: 1-5-1998
METHOD: Hand Auger	CASE SIZE: NA	SCREEN INT.: NA	PROTECTION LEVEL: D
TOC ELEV.: NA FT.	MONITOR INST.: OVA	TOT DPTH: 15 FT.	DPTH TO ∇: 6 FT.
LOGGED BY: M. Barg	WELL DEVELOPMENT DATE: January 6-1998		SITE: BUILDING 7174

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				20	0-4' sand fine grained dark gray, odor. (strong petroleum odor)				
					4-8' sand silty brown odor wet at 6' (strong petroleum odor)		SP		
5				900					
					8-15' sand silty Light gray, No odor ~~wet~~ (strong petroleum odor)		SP		
10									
15									
20									

ABB ENVIRONMENTAL SERVICES, INC.

TITLE: NTC ORLANDO, Building 7174	LOG of WELL: MW-25		BORING NO.
CLIENT: SOUTHDIVNAVFACENGCOM			PROJECT NO:
CONTRACTOR: Groundwater protection, Inc.		DATE STARTED: 1-5-1998	COMPLTD: 1-5-1998
METHOD: Hand Auger	CASE SIZE: NA	SCREEN INT.: NA	PROTECTION LEVEL: D
TOC ELEV.: NA FT.	MONITOR INST.: OVA	TOT DPTH: 15 FT.	DPTH TO ∇: 6 FT.
LOGGED BY: M. Barg	WELL DEVELOPMENT DATE: January-5-1998		SITE: BUILDING 7174

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				900	0-4' sand, fine grained dark gray, slight odor (petroleum odor)				
5				>1000	4-8' sand fine grained dark gray to black slight odor wet at 6' (petroleum odor)		SP		
10					8-15' sand slightly silty black, odor. (petroleum odor)		SP		
15									
20									



TITLE: NTC ORLANDO, Bulding 7174		LOG of WELL: MW-26	BORING NO.
CLIENT: SOUTHDIVNAVFACENGCOM			PROJECT NO:
CONTRACTOR: Groundwater protection, Inc.		DATE STARTED: 1-5-1998	COMPLTD: 1-5-1998
METHOD: Hand Auger	CASE SIZE: NA	SCREEN INT.: NA	PROTECTION LEVEL: D
TOC ELEV.: NA FT.	MONITOR INST.: OVA	TOT DPTH: 15 FT.	DPTH TO ▽: 6 FT.
LOGGED BY: M. Barg	WELL DEVELOPMENT DATE: January-5-1998		SITE: BUILDING 7174

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				<1	0-4' sand, fine grained dark gray, odor (petroleum odor)				
5				>1,000	4-8' sand, fine grained dark gray to black odor. wet at 6' (petroleum odor)		sp		
10					8-15' sand slightly silty black; odor (petroleum odor)		sp		
15									
20									

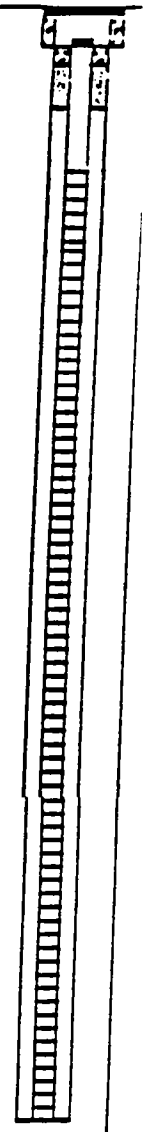


ABB ENVIRONMENTAL SERVICES, INC.

TITLE: NTC ORLANDO, Bulding 7174		LOG of WELL: MW-27	BORING NO.
CLIENT: SOUTHDIVNAVFACENGCOM			PROJECT NO: 0253005
CONTRACTOR: Groundwater protection, Inc.		DATE STARTED: 1-5-1998	COMPLTD: 1-5 1998
METHOD: Hand Auger	CASE SIZE: NA	SCREEN INT.: NA	PROTECTION LEVEL: D
TOC ELEV.: NA FT.	MONITOR INST.: OVA	TOT DPTH: 15 FT.	DPTH TO ∇ 6 FT.
LOGGED BY: M. Barg	WELL DEVELOPMENT DATE: January-5-1998		SITE: BUILDING 7174

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				<1	0-4' Sand, fine grained light gray, no odor		SP		
5				<1	4-8' Sand, silty light gray, no odor wet at 6'		SP		
10					8-15' Sand, silty dark brown, no odor				
15									
20									

ABB ENVIRONMENTAL SERVICES, INC.

TITLE: NTC ORLANDO, Bulding 7174		LOG of WELL: MW-28	BORING NO.
CLIENT: SOUTHDIVNAVFACENGCOM			PROJECT NO: 0253005
CONTRACTOR: Groundwater protection, Inc.		DATE STARTED: 1-6-1998	COMPLTD: 1-6-1998
METHOD: Hand Auger	CASE SIZE: NA	SCREEN INT.: NA	PROTECTION LEVEL: D
TOC ELEV.: NA FT.	MONITOR INST.: OVA	TOT DPTH: 15 ft.	DPTH TO W: 6 FT.
LOGGED BY: M. Barg	WELL DEVELOPMENT DATE: January-6-1998		SITE: BUILDING 7174

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					0-4' sand fine graind gray no odor				
				100			SP		
5					4-8' sand silty dark gray no odor wet at 6'				
				130			SP		
					8-15' sand silty dark gray to brown no odor				
10									
15									
20									

ABB ENVIRONMENTAL SERVICES, INC.

TITLE: NTC ORLANDO, Building 7174		LOG of WELL: MW-29	BORING NO.
CLIENT: SOUTHDIVNAVFACENGCOM			PROJECT NO: 0253005
CONTRACTOR: Groundwater protection, Inc.		DATE STARTED: 1-6-1998	COMPLTD: 1-6 199
METHOD: Hand Auger	CASE SIZE: NA	SCREEN INT.: NA	PROTECTION LEVEL: D
TOC ELEV.: NA FT.	MONITOR INST.: OVA	TOT DPTH: 15 FT.	DPTH TO ∇ 6 FT.
LOGGED BY: M. Barg	WELL DEVELOPMENT DATE: January-6-1998		SITE: BUILDING 7174

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				30	0-4' Sand, Fine grained gray, no odor.				
5				5	4-8' Sand: silty dark gray no odor wet at 6'		SP		
10					8-15' Sand silty dark gray to brown no odor		SP		
15									
20									

ABB ENVIRONMENTAL SERVICES, INC.

TITLE: NTC ORLANDO, Bulding 7174	LOG of WELL: MW-30		BORING NO.
CLIENT: SOUTHDIVNAVFACENGCOM			PROJECT NO:
CONTRACTOR: Groundwater protection, Inc.		DATE STARTED: 1-6-1998	COMPLTD: 1-6-199
METHOD: Hand Auger	CASE SIZE: NA	SCREEN INT.: NA	PROTECTION LEVEL: D
TOC ELEV.: NA FT.	MONITOR INST.: OVA	TOT DPTH: 15 FT.	DPTH TO W: 6 FT.
LOGGED BY: M. Barg	WELL DEVELOPMENT DATE:	January-6-1998	SITE: BUILDING 7174

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				100	0-4' Sand fine grained light gray: odor (strong petroleum odor)				
5				200	4-8' Sand fine grained light gray to gray odor (strong petroleum odor) wet at 6'		SP		
10					8-15' Sand, silty brown odor (strong petroleum odor)		SP		
15									
20									

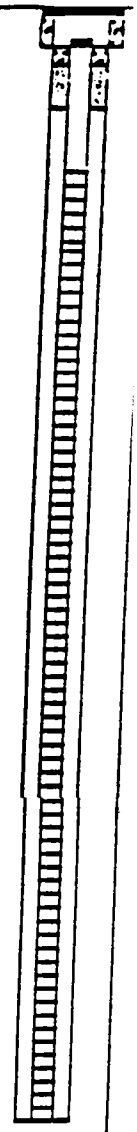


ABB ENVIRONMENTAL SERVICES, INC.

TITLE: NTC ORLANDO, Bldg 7174	LOG of WELL: MW-31		BORING NO.
CLIENT: SOUTHDIVNAVFACENGCOM			PROJECT NO:
CONTRACTOR: Groundwater protection, Inc.		DATE STARTED: 1-6-1998	COMPLTD: 1-6 '99
METHOD: Hand Auger	CASE SIZE: NA	SCREEN INT.: NA	PROTECTION LEVEL: D
TOC ELEV.: NA FT.	MONITOR INST.: OVA	TOT DPTH: 15 FT.	DPTH TO ▽: 6 FT.
LOGGED BY: M. Barg	WELL DEVELOPMENT DATE: January-6-1998		SITE: BUILDING 7174

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				50	0-4' Sand fine grained Light gray, slight odor (petroleum odor)				
							SP		
5				130	4-8' Sand fine grained Light gray to gray, slight odor (petroleum odor) wet at 6'				
					8-15' Sand, silty dark gray no odor		SP		
10									
15									
20									

ABB ENVIRONMENTAL SERVICES, INC.

TITLE: NTC Orlando, Building 7174	LOG of WELL: NA	BORING NO. SS-1
CLIENT: SOUTHDIVNAVFACENGCOM		PROJECT NO: 0253016
CONTRACTOR: NA	DATE STARTED: 3-5-98	COMPLTD: 3-5-98
METHOD: HSA 4.25"	CASE SIZE: NA	SCREEN INT.: NA	PROTECTION LEVEL: D
TOC ELEV.: NA FEET.	MONITOR INST.: OVA	TOT DPTH: 42 FEET.	DPTH TO ∇ 6 FEET.
LOGGED BY:	WELL DEVELOPMENT DATE: NA	SITE: Building 7174

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
2				<1	0-2' Sand, fine grained, dark gray, no odor		SP	1, 1, 2, 3	
				<1	2-4' Sand, fine grained, dark gray, no odor			4, 4, 4, 5	
5				<1	4-6' Sand, fine grained, gray, no odor, wet at 6			7, 8, 11, 11	
				<1	6-8' Sand, fine grained light gray, no odor		SP	7, 8, 11, 18	
				<1	8-10' Sand, fine grained gray, no odor.			9, 11, 14, 23	
10									
							SP		
15				<1	15-17' Sand, fine grained, gray to dark gray, no odor.			3, 5, 7, 9	
							SP		
20				<1	20'-22 Sand, fine grained, slightly silty gray, no odor, moist			2, 3, 3, 3	
							SC		
25				<1	25'-27' slightly silty sand, fine grained gray, moist, no odor			8, 9, 9, 13	
							SP		
30				<1	30'-32' clayey sand, fine grained, gray moist, no odor			3, 3, 3, 3	
							SP		
35				<1	35'-37' slightly silty, sand, fine grained dark gray saturated no odor.			4, 8, 10, 14	
							SC		
40				<1	40-42' Sand, fine grained light gray, no odor.				
50									

ABB ENVIRONMENTAL SERVICES, INC.

TITLE: NTC, ORLANDO, BUILDING 7174	LOG of WELL: DW-32	BORING NO. NA
		PROJECT NO: 0253016
CLIENT: U.S. NAVY, SOUTHNAVFACENGCOM		
CONTRACTOR: GROUNDWATER PROTECTION, INC.	DATE STARTED: 3-5-98	COMPLTD: 3-5-98
METHOD: MUD ROTARY	CASE SIZE: 6-INCH/2-INCH	SCREEN INT.: 30-35 FEET	PROTECTION LEVEL: D
TOC ELEV.: NA FEET.	MONITOR INST.: OVA	TOT DPTH: 35 FEET.	DPTH TO ▽ 6 FEET.
LOGGED BY: M. Barg	WELL DEVELOPMENT DATE:		SITE: BUILDING

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SEE LITHOLOGY FOR SS-1 (FIGURE 3-1)				
5									
10									
15									
20									
25									
30									
35									

APPENDIX E

SLUG TEST DATA

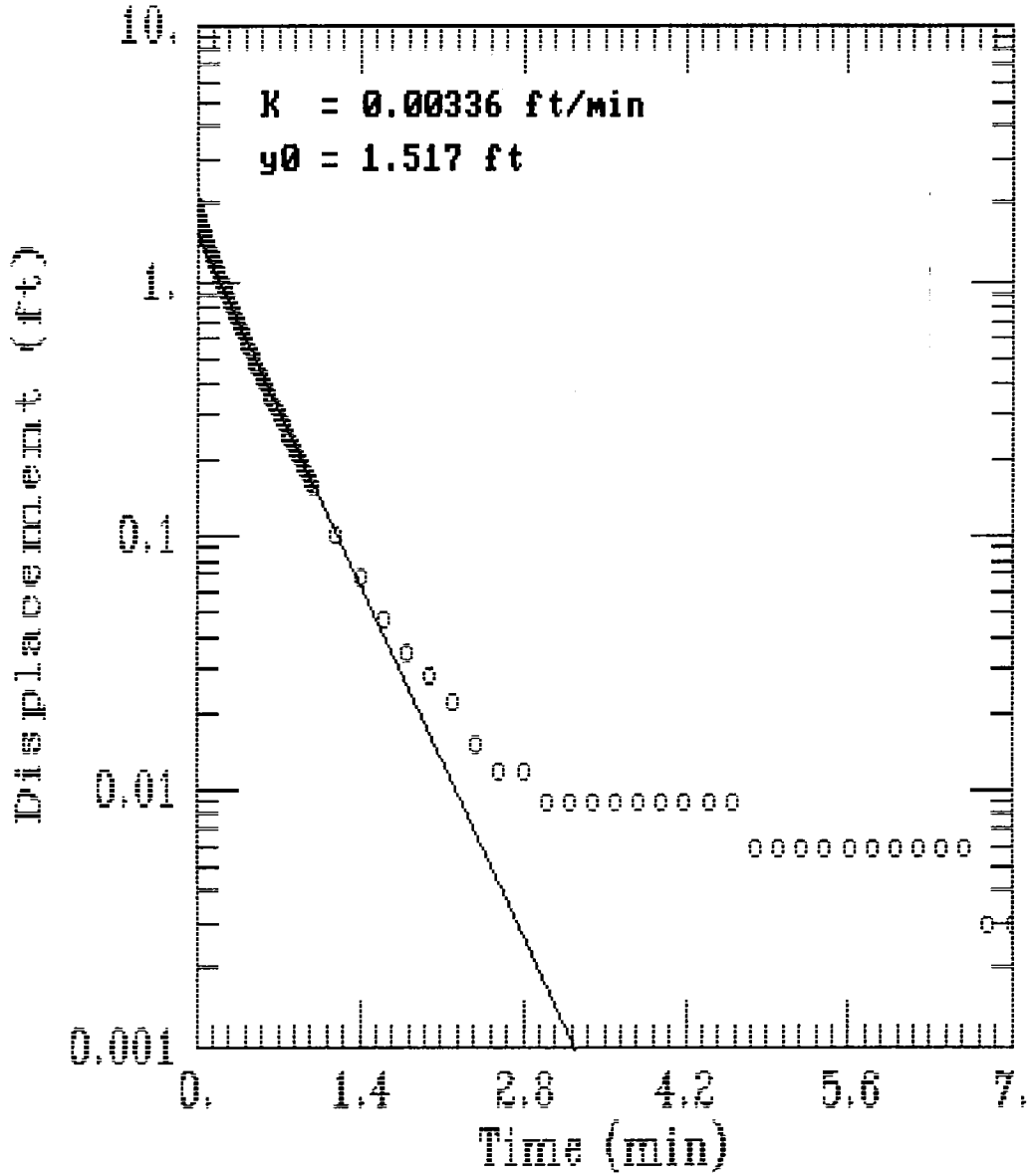
AQUIFER TEST COMPLETION CHECKLIST

AQUIFER TEST NO. _____

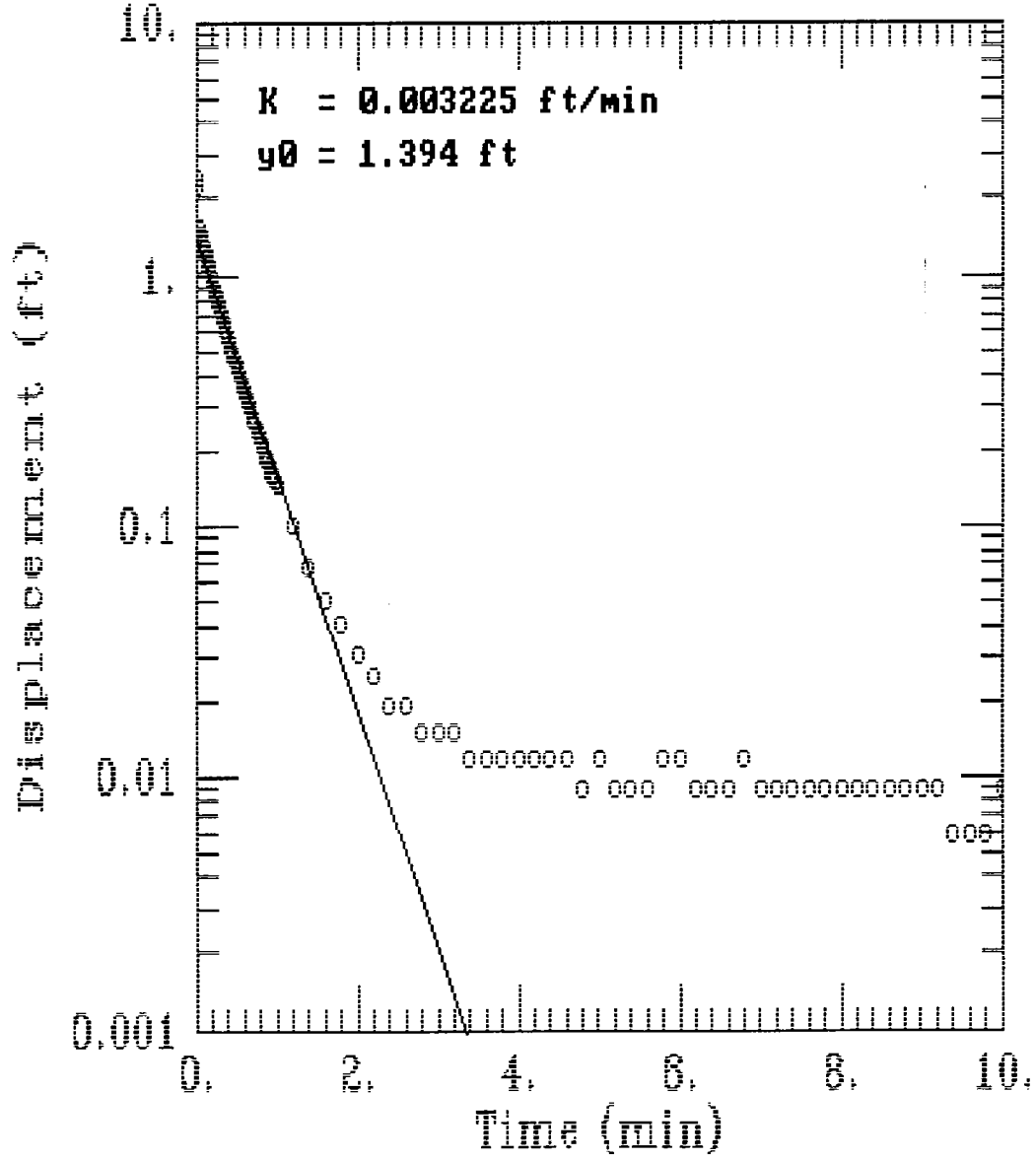
SETUP	DATE	BY WHOM
MONITORING WELL ID	mw32 in1.8 7174 MW 32	mw32001.8 7174 MW32
DATE OF TEST	4-4/98	4-4/98
TYPE OF TEST	Slugin	Slug out
HERMIT TYPE/SERIAL#	2000c/	2000c/
TEST #	T2	T3
DATA COLLECTION RATE	Log	Log
TRANSDUCER		
SERIAL #	5083	5083
PSIG	10	10
SCALE FACTOR	10.0361	10.0361
OFFSET	-0.1317	-0.1317
~~INPUT CHANNEL~~ LIN	0.0422	0.0422
TEST DATA		
INPUT MODE (TOC/SUR)	SUR	TOC
STATIC WATER LEVEL (FT./TOC)	5.45	5.45
WELL DEPTH (FT./TOC)	34.80	34.80
XD DEPTH (FT.TOC)	14	14
INITIAL XD REFERENCE	8.510 (0.000)	8.519
SLUG DEPTH (FT./TOC)	8.45	8.45
TIME OF SLUG PLACEMENT	1430	1430
TIME OF WL EQUILIBRATION	——	1440
NEW XD REFERENCE	——	~~8.519~~ 8.516
START TIME OF TEST	1430	1445
END TIME OF TEST	1440	1452
NOTES:	2.431 ID	1.984 ID

8" well bore?
5' screen

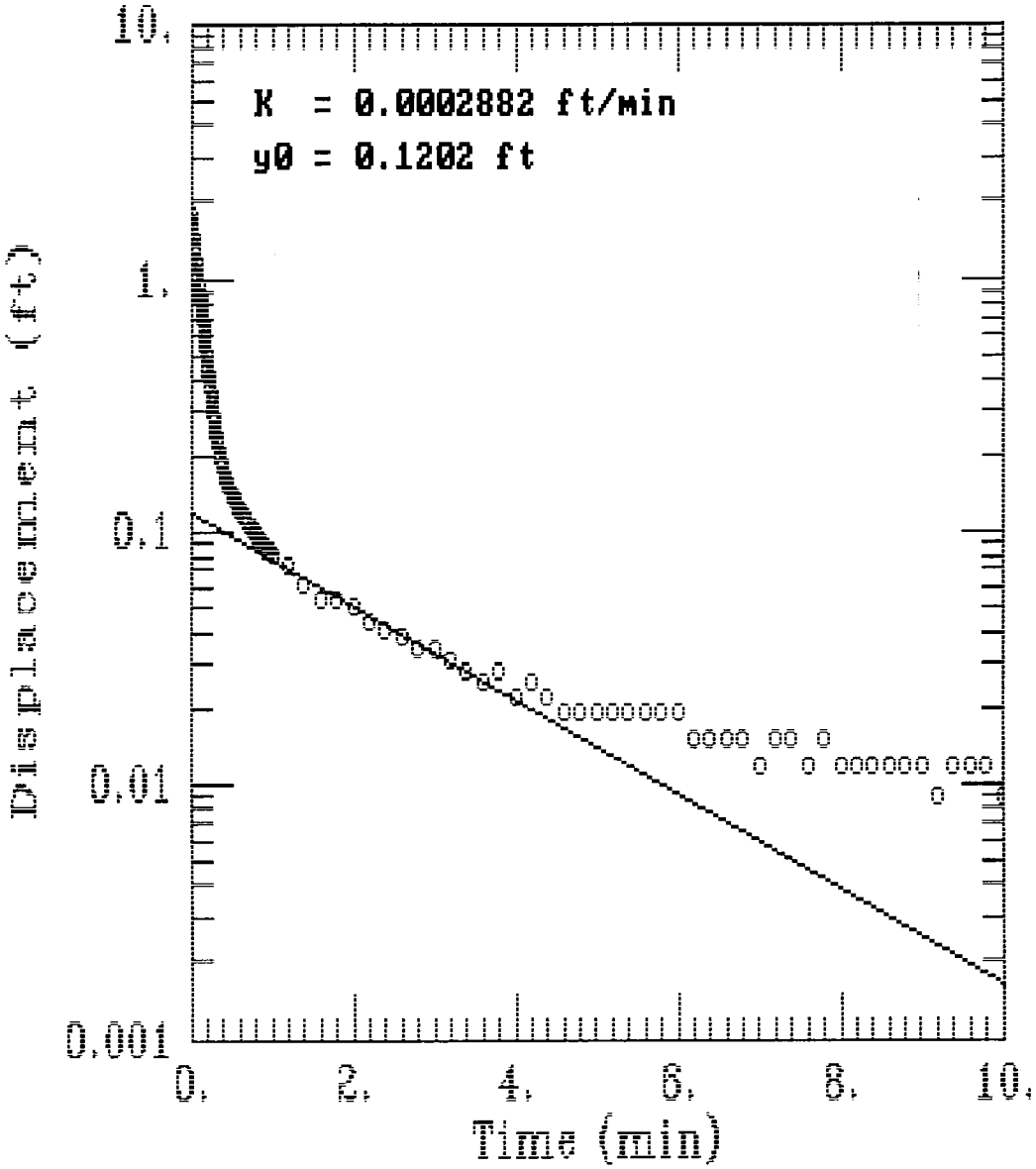
7174 MW-32


K = 0.00336 ft/min
y0 = 1.517 ft
10.
1.
0.1
0.01
0.001
Displacement (ft)
0.
1.4
2.8
4.2
5.6
7.
Time (min)

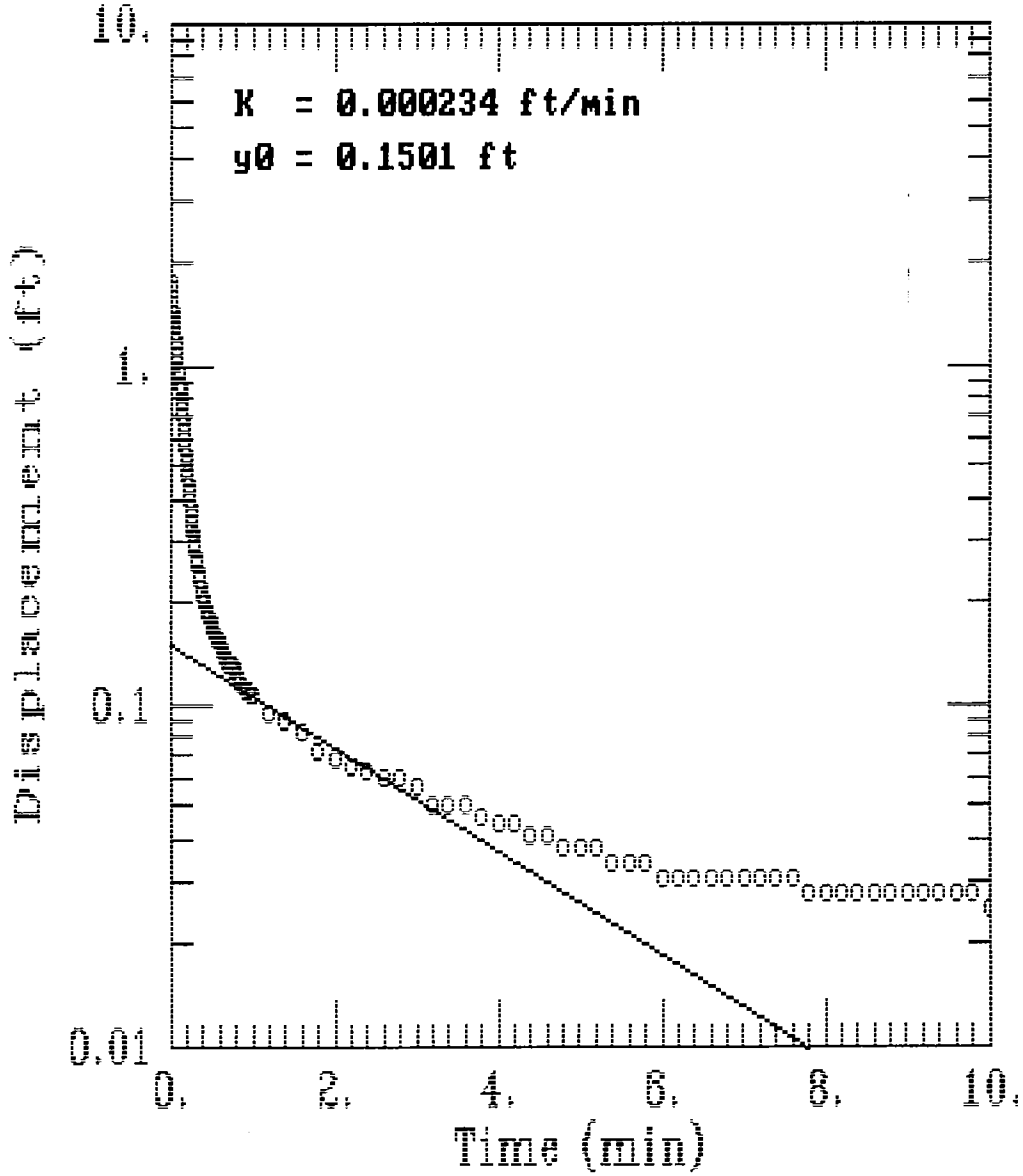
7174 MW-32


K = 0.003225 ft/min
y0 = 1.394 ft
10.
1.
0.1
0.01
0.001
Displacement (ft)
0.
2.
4.
6.
8.
10.
Time (min)

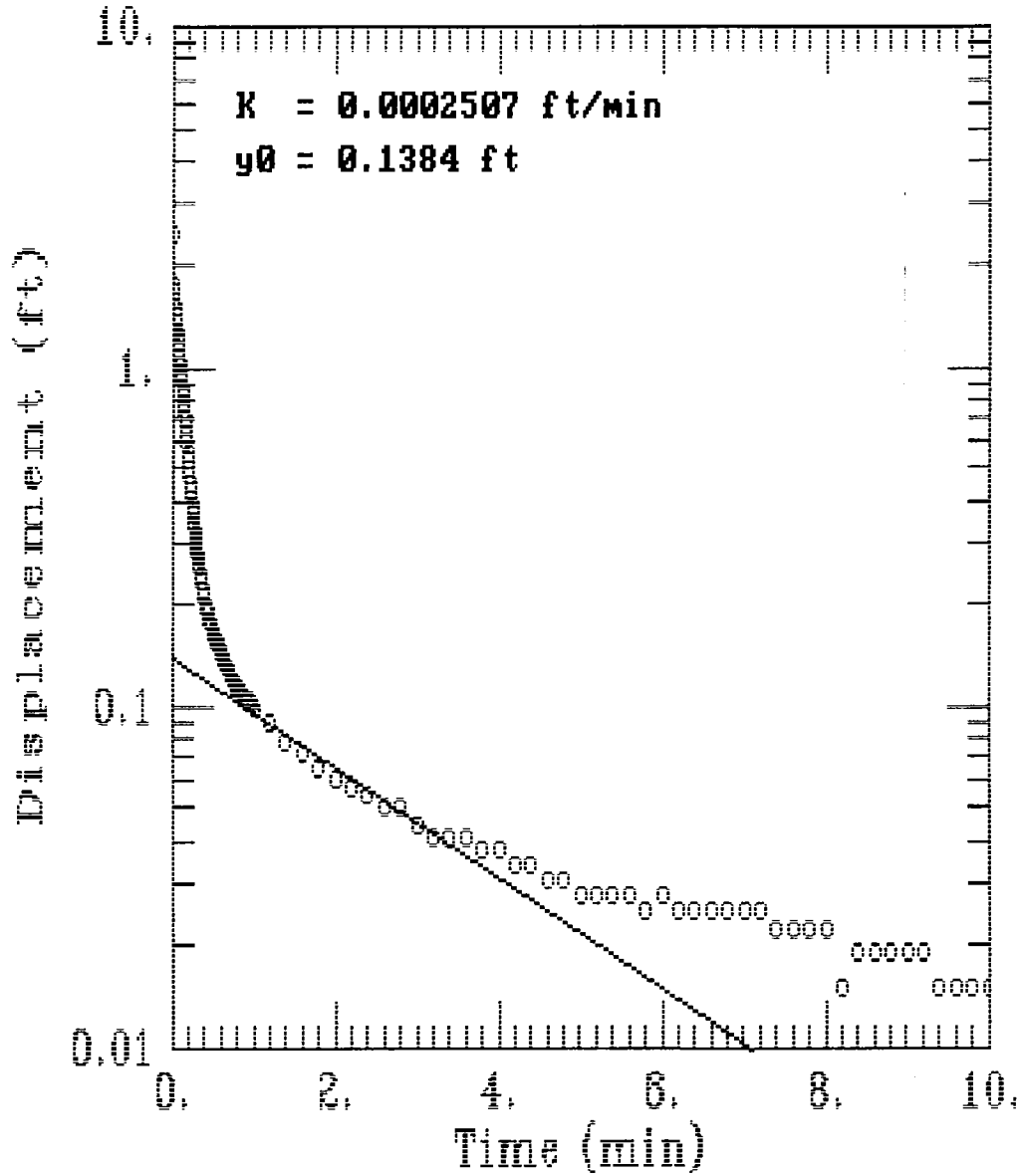
7174 MW23 #1


K = 0.0002882 ft/min
y0 = 0.1202 ft
10.
1.
0.1
0.01
0.001
Displacement (ft)
0.
2.
4.
6.
8.
10.
Time (min)

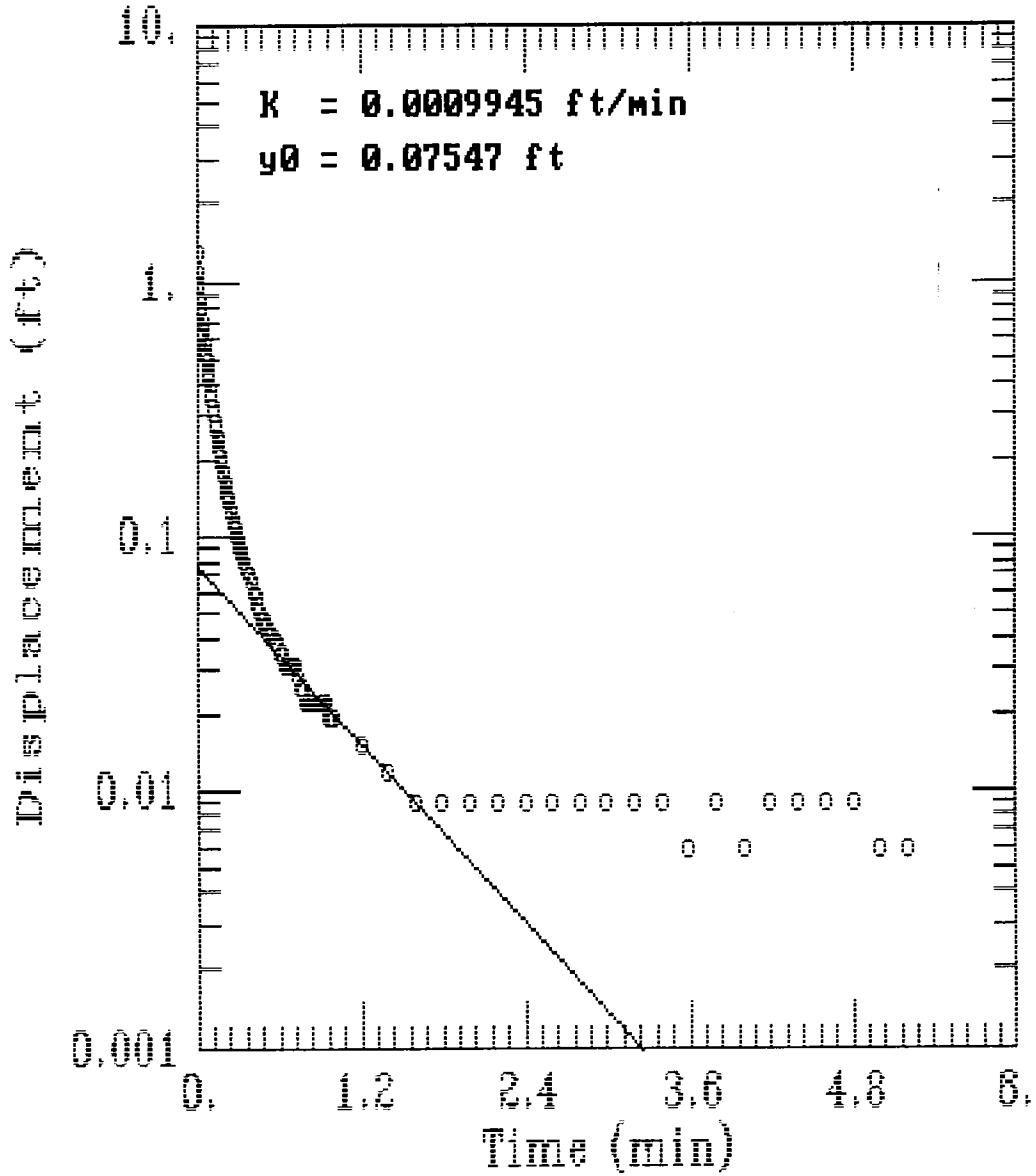
7174 MW23 #2


K = 0.000234 ft/min
y0 = 0.1501 ft
10.
1.
0.1
0.01
Displacement (ft)
0.
2.
4.
6.
8.
10.
Time (min)

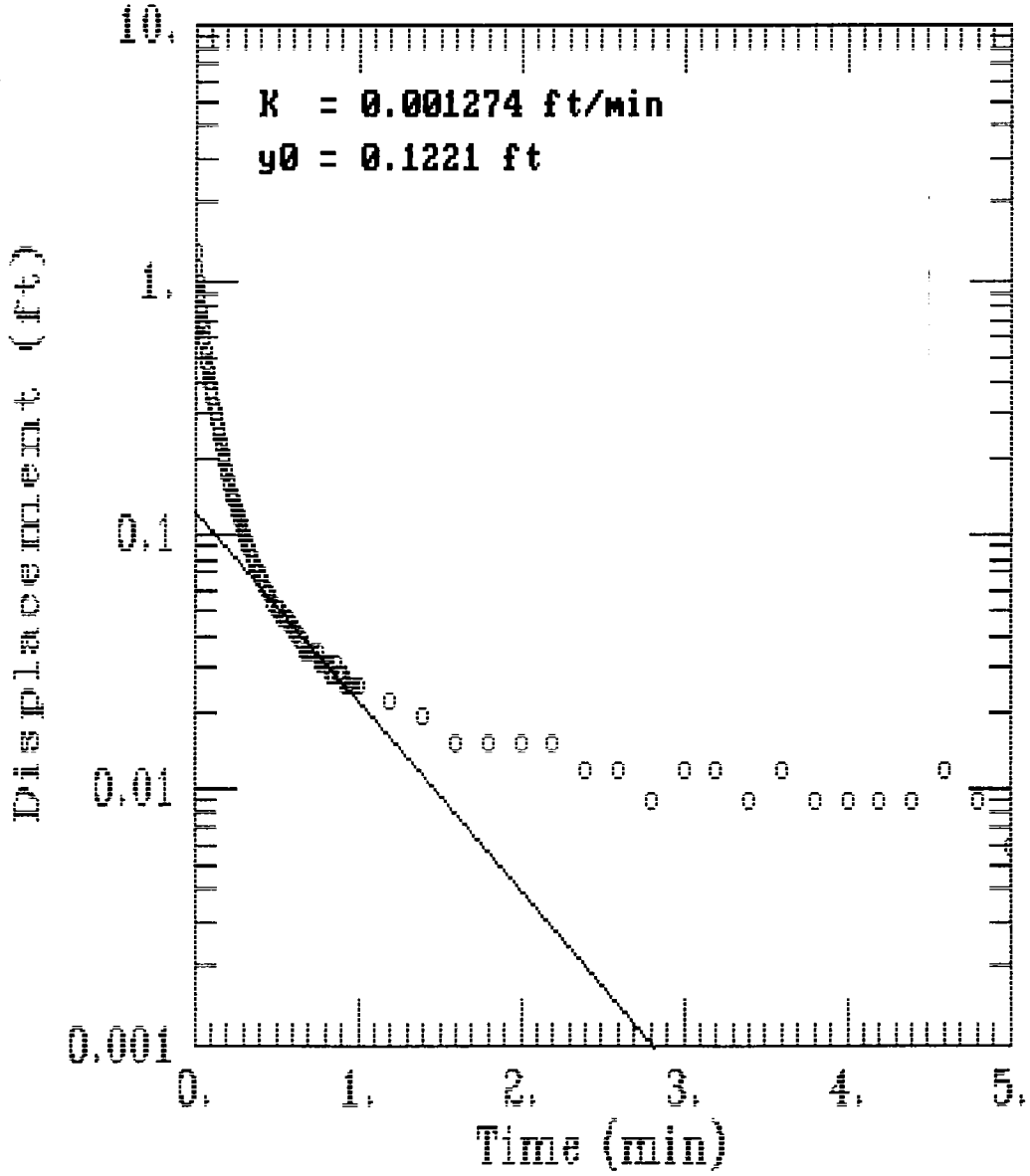
7174 MW23 #3


K = 0.0002507 ft/min
y0 = 0.1384 ft
Displacement (ft)
10.
1.
0.1
0.01
0.
2.
4.
6.
8.
10.
Time (min)

7174 MW 26 #1


K = 0.0009945 ft/min
y0 = 0.07547 ft
10.
1.
0.1
0.01
0.001
Displacement (ft)
0.
1.2
2.4
3.6
4.8
6.
Time (min)

7174 MW 26 #2


K = 0.001274 ft/min
y0 = 0.1221 ft
10.
1.
0.1
0.01
0.001
Displacement (ft)
0.
1.
2.
3.
4.
5.
Time (min)

APPENDIX F

WATER SAMPLING LOG FORMS

FLORIDA

DEP Form # 62-770.900(3)
Form Title Petroleum or Petroleum Products Water Sampling Log
Effective Date September 27, 1997

Petroleum or Petroleum Products
Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-14	SAMPLE ID: Old7174 MW-14	DATE: 1/22/98
SITE NAME: NTC Orlando	SITE LOCATION: Bldg 7174		

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 13	DEPTH TO WATER (ft): 6.3	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =

= (13 - 6.3) x 0.16 = 1.072

PURGE METHOD:	PURGING INITIATED AT: 1105	PURGING ENDED AT: 1120
	PURGE RATE (gpm): 0.43	TOTAL VOLUME PURGED (gal): 6.5

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
	0.5	5.88	25	180	—	—	clear	
	2.0	6.19	25	370	—	—	"	
	5.0	6.20	24	370	—	—	"	
	6.5	6.25	28	370	—	—	"	

SAMPLING DATA

SAMPLED BY / AFFILIATION	ABB-ES	SAMPLER(S) SIGNATURE(S)	MIRNA BARQ [signature]
SAMPLING METHOD(S):	Peristaltic	SAMPLING INITIATED AT: 1120	SAMPLING ENDED AT: 1130

FIELD DECONTAMINATION: Y (N) | FIELD-FILTERED: Y (N) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
3	CG	40ml	HCL	—		EPA 601/602
2	AG	1L	—	—		EPA 610
1	HDP	250ml	HNO3	—		EPA 239.2
3	CG	40ml	—	—		EPA 504
2	AG	1L	HCL	—		FL PRO

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

DEP Form # 62-770.900(3)
Form Title Petroleum or Petroleum Products Water Sampling Log
Effective Date September 23, 1997

Petroleum or Petroleum Products Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-16	SAMPLE ID: OH 7174/MW-16	DATE: 1/21/98
SITE NAME: NTC Orlando	SITE LOCATION: Bldg 7174		

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 15	DEPTH TO WATER (ft): 4.68	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =

= (15 - 4.68) x 0.16 = 1.65

PURGE METHOD:	PURGING INITIATED AT: 1430	PURGING ENDED AT: 1445	
	PURGE RATE (gpm): 0.11	TOTAL VOLUME PURGED (gal):	

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
	0.5	230	22	5.63	~~clear~~	—	clear	
	1	230	22	5.72	—	—	"	
	2.5	230	22	5.74	—	—	"	
	4.0	230	22	5.81	—	—	"	
	5.0	230	22	5.80	—	—	"	

SAMPLING DATA

SAMPLED BY / AFFILIATION: ABB-ES		SAMPLER(S) SIGNATURE(S): MIRNA BARQ	
SAMPLING METHOD(S): Peristaltic		SAMPLING INITIATED AT: 1445	SAMPLING ENDED AT: 1505
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N)		DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
3	CG	40ml	HCL	—		EPA 601/602
2	AG	1L	—	—		EPA 610
1	HDP	250ml	HNO3	—		EPA 239.2
3	CG	40ml	—	—		EPA 504
2	AG	1L	HCL	—		FLpro

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

DEP Form # 62-770.900(1)
Form Title Petroleum or Petroleum Products Water Sampling Log
Effective Date September 22, 1995

Petroleum or Petroleum Products
Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-18	SAMPLE ID: OA7174-18	DATE: 1/23/98
SITE NAME: NTC Orlando	SITE LOCATION: Bldg 7174		

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 13	DEPTH TO WATER (ft): 6.21	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =

= (13 - 6.21) x 0.16 = 1.08

PURGE METHOD:	PURGING INITIATED AT: 1015	PURGING ENDED AT: 1035	
	PURGE RATE (gpm): 0.45	TOTAL VOLUME PURGED (gal): 9.0	

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
	1.0	6.8	22	450	—	—	clear	
	2.0	6.76	22	450	—	—	"	
	3.0	6.73	22	450	—	—	"	
	5.0	6.71	22	460	—	—	"	
	7.0	6.7	22	460	—	—	"	
	9.0	6.7	22	460	—	—	"	

SAMPLING DATA

SAMPLED BY / AFFILIATION: ABB-ES		SAMPLER(S) SIGNATURE(S): MIRNA BARQ	
SAMPLING METHOD(S): Peristaltic		SAMPLING INITIATED AT:	SAMPLING ENDED AT:

FIELD DECONTAMINATION: Y (N) | FIELD-FILTERED: Y (N) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
3	CG	40ml	HCL	—		EPA 601/602
2	AG	1L	—	—		EPA 610
1	HDP	250ml	HNO3	—		EPA 239.2
3	CG	40ml	—	—		EPA 504
2	AG	1L	HCL	—		FL PRO

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: This does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

DEP Form # 62-770.900(1)
Form Title Petroleum or Petroleum Products Water Sampling Log
Effective Date September 21, 1995

Petroleum or Petroleum Products
Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-19	SAMPLE ID: OH7174-MW-19	DATE: 1/22/98
SITE NAME: NTC Orlando		SITE LOCATION: Bldg 7174	

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 14	DEPTH TO WATER (ft): 2.73	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =

= (14 - 2.73) x 0.16 = 2.

PURGE METHOD:	PURGING INITIATED AT: 1030	PURGING ENDED AT: 1052
	PURGE RATE (gpm): 0.27	TOTAL VOLUME PURGED (gal):

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
	0.5	6.69	23	210	–	–	clear	
	1	6.72	23	180	–	–	"	
	2	6.73	23	130	–	–	"	
	3	6.74	23	130	–	–	"	
	4	6.70	23	130	–	–	"	
	5	6.71	23	130	–	–	"	

SAMPLING DATA

SAMPLED BY / AFFILIATION	ABB-ES	SAMPLER(S) SIGNATURE(S)	MIRNA BARQ M. Barq
SAMPLING METHOD(S):	Peristaltic	SAMPLING INITIATED AT: 1052	SAMPLING ENDED AT: 1105

FIELD DECONTAMINATION: Y (N) | FIELD-FILTERED: Y (N) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
3	CG	40ml	HCL	–		EPA 601/602
2	AG	1L	–	–		EPA 610
1	HDP	250ml	HNO3	–		EPA 239.2
3	CG	40ml	–	–		EPA 504
2	AG	1L	HCL	–		FL PRO

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

DEP Form # 62-770.900(3)
Form Title Petroleum or Petroleum Product Water Sampling Log
Effective Date September 23, 1997

Petroleum or Petroleum Products
Water Sampling Log

FDEP FACILITY NO.: | WELL NO.: MW-23 | SAMPLE ID: 01d7174/MW-23 | DATE: 1/23/98
SITE NAME: NTC Orlando | SITE LOCATION: Bldg 7174

PURGE DATA

WELL DIAMETER (in):	TOTAL WELL DEPTH (ft):	DEPTH TO WATER (ft):	WELL CAPACITY (gal/ft):
2	15	6.31	0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =

= (15 - 6.31) x 0.16 = 1.39

PURGE METHOD:
PURGING INITIATED AT: 1105
PURGING ENDED AT: 1145
PURGE RATE (gpm): 0.22
TOTAL VOLUME PURGED (gal): 9.0

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
	1.0	6.53	22	440	—	—	clear	
	3.0	6.51	22	440	—	—	"	
	5.0	6.55	22	440	—	—	"	
	7.0	6.50	22	440	—	—	"	
	9.0	6.50	22	440	—	—	"	

SAMPLING DATA

SAMPLED BY / AFFILIATION: ABB-ES
SAMPLER(S) SIGNATURE(S): MIRNA BARQ
SAMPLING METHOD(S): Peristaltic
SAMPLING INITIATED AT:
SAMPLING ENDED AT:

FIELD DECONTAMINATION: Y (N) | FIELD-FILTERED: Y (N) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
3	CG	40ml	HCL	—		EPA 601/602
2	AG	1L	—	—		EPA 610
1	HDP	250ml	HNO3	—		EPA 239.2
3	CG	40ml	—	—		EPA 504
2	AG	1L	HCL	—		FL PRO

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)
WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

DEP Form # 62-770.900(3)
Form Title Petroleum or Petroleum Products Water Sampling Log
Effective Date September 23, 1997

Petroleum or Petroleum Products
Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-24	SAMPLE ID: old 7174 - MW-24	DATE: 1/21/98
SITE NAME: NTC Orlando		SITE LOCATION: Building 7174	

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 15	DEPTH TO WATER (ft): 2.75	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =

= (15 - 2.75) x 0.16 = 1.96

PURGE METHOD: peristaltic	PURGING INITIATED AT: 0945	PURGING ENDED AT: 1015
	PURGE RATE (gpm): 0.166	TOTAL VOLUME PURGED (gal): 5

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
	0.5	6.25	20	1000	—	strong petrol	clear	
	1.0	6.25	20	1000	—	"	"	
	2.0	6.42	20	800	—	"	"	
	3.0	6.37	20	800	—	"	"	
	4.0	6.31	19	750	—	"	"	
	5.0	6.22	19	750	—	"	"	

SAMPLING DATA

SAMPLED BY / AFFILIATION	ABB-ES	SAMPLER(S) SIGNATURE(S)	MIRNA BARQ [signature]
SAMPLING METHOD(S):	Peristaltic	SAMPLING INITIATED AT: 1015	SAMPLING ENDED AT: 1025

FIELD DECONTAMINATION: Y (N) | FIELD-FILTERED: Y (N) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
3	CG	40ml	HCL	—		EPA 601/602
2	AG	1L	—	—		EPA 610
1	HDP	250ml	HNO3	—		EPA 239.2
3	CG	40ml	—	—		EPA 504
2	AG	1L	HCL	—		FL pro

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

DEP Form # 62-770.900(3)
Form Title Petroleum or Petroleum Products Water Sampling Log
Effective Date September 21, 1997

Petroleum or Petroleum Products
Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-25	SAMPLE ID: OB7174 MW-25	DATE: 1/21/98
SITE NAME: NTC orlando	SITE LOCATION: Building 7174		

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 15	DEPTH TO WATER (ft): 3.79	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =

= (15 - 3.79) x 0.16 = 1.79

PURGE METHOD: Peristaltic	PURGING INITIATED AT: 1205	PURGING ENDED AT: 1240
	PURGE RATE (gpm):	TOTAL VOLUME PURGED (gal):

WELL VOLS. PURGED	CUMUL VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
	0.5	6.19	22	1300	–	strong petroleum	clear	–
	1	6.24	22	1300	–	"	"	–
	2.5	6.10	22	1000	–	"	"	–
	3.5	6.05	22	1000	–	"	"	–
	5.0	6.10	22	1000	–	"	"	–

SAMPLING DATA

SAMPLED BY / AFFILIATION: ABB-ES		SAMPLER(S) SIGNATURE(S): MIRNA BARQ	
SAMPLING METHOD(S): Peristaltic		SAMPLING INITIATED AT: 1240	SAMPLING ENDED AT: 1250

FIELD DECONTAMINATION: Y (N) | FIELD-FILTERED: Y (N) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
3	CG	40ml	HCL	–		EPA 601/602
2	AG	1L	–	–		EPA 610
1	HDP	250ml	HNO3	–		EPA 239.2
3	CG	40ml	–	–		EPA 504
2	AG	1L	HCL	–		FL pro

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

DEP Form # 62-770.900(3)
Form Title Petroleum or Petroleum Products Water Sampling Log
Effective Date September 22, 1997

Petroleum or Petroleum Products Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-26	SAMPLE ID: 0\d7174-MW-26	DATE: 1/20/98
SITE NAME: NTC orlando		SITE LOCATION: Building 7174	

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 15	DEPTH TO WATER (ft): 2.43	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =

= (15 - 2.43) x .16 = 2.01

PURGE METHOD: peristaltic	PURGING INITIATED AT: 1110	PURGING ENDED AT: 1135
	PURGE RATE (gpm): 0.28	TOTAL VOLUME PURGED (gal): 7.0

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
	2.5	10.86	22°	3100	—	—	clear	
	3.5	10.77	18	2200	—	—	"	
	4.0	11.23	18	3000	—	—	"	
	5.0	11.20	19	1800	—	—	"	
	6.0	11.17	19	1800	—	—	"	
	7.0	11.16	19	2000	—	—	"	

SAMPLING DATA

SAMPLED BY / AFFILIATION: ABB-ES	SAMPLER(S) SIGNATURE(S): Mirna Barg.	
SAMPLING METHOD(S): peristaltic	SAMPLING INITIATED AT: 1135	SAMPLING ENDED AT: 1145
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N)	DUPLICATE: (Y) N

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
3	CG	40ml	HCl	—	<2	EPA 601/602
2	AG	1L	—	—	—	EPA 610
1	HDP	250ml	HNO3	—	<2	EPA 239.2
3	CG	40ml	—	—	—	EPA 504
2	AG	1L	HCl	—	<2	Fl-PRO

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

DEP Form # 62-770.900(3)
Form Title Petroleum or Petroleum Products Water Sampling Log
Effective Date September 27, 1997

Petroleum or Petroleum Products
Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-27	SAMPLE ID: 047174-MW-27	DATE: 1/21/98
SITE NAME: NTC orlando	SITE LOCATION: Bldg 7174		

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 15	DEPTH TO WATER (ft): 2.65	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =

= (15 - 2.65) x 0.16 = 1.97

PURGE METHOD: Peristaltic	PURGING INITIATED AT: 1340	PURGING ENDED AT: 1410
	PURGE RATE (gpm): 0.16	TOTAL VOLUME PURGED (gal): 6

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
	0.5	5.95	22	460	—	—	clear	—
	1.0	5.84	22	460	—	—	"	—
	2.5	5.76	22	460	—	—	"	
	5.0	5.81	22	470	—	—	"	
	6.0	5.80	22	470	—	—	"	

SAMPLING DATA

SAMPLED BY / AFFILIATION: ABB-ES		SAMPLER(S) SIGNATURE(S): MIRNA BARQ	
SAMPLING METHOD(S): Peristaltic		SAMPLING INITIATED AT: 1410	SAMPLING ENDED AT: 1421

FIELD DECONTAMINATION: Y (N) | FIELD-FILTERED: Y (N) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
3	CG	40ml	HCL	—		EPA 601/602
2	AG	1L	—	—		EPA 610
1	HDP	250ml	HNO3	—		EPA 239.2
3	CG	40ml	—	—		EPA 504
2	AG	1L	HCL	—		FLpro

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

DEP Form # 62-770.900(3)
Form Title Petroleum or Petroleum Products Water Sampling Log
Effective Date September 23, 1997

Petroleum or Petroleum Products Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-28	SAMPLE ID: old7174-MW-28	DATE: 1/21/98
SITE NAME: NTC orlando	SITE LOCATION: Building 7174		

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 15	DEPTH TO WATER (ft): 4.96	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =

= (15 - 4.96) x 0.16 = 1.6

PURGE METHOD: peristaltic	PURGING INITIATED AT: 1130	PURGING ENDED AT: 1150
	PURGE RATE (gpm): 0.35	TOTAL VOLUME PURGED (gal): 7

WELL VOLS. PURGED	CUMUL VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
	0.5	6.42	23	100	—	—	clear	—
	1.0	6.25	23	90	—	—	"	—
	2.5	6.10	23	90	—	—	"	—
	5.0	6.05	23	100	—	—	"	—
	7.0	6.08	23	100	—	—	"	—

SAMPLING DATA

SAMPLED BY / AFFILIATION: ABB-ES		SAMPLER(S) SIGNATURE(S): MIRNA BARQ	
SAMPLING METHOD(S): Peristaltic		SAMPLING INITIATED AT: 1150	SAMPLING ENDED AT: 1203

FIELD DECONTAMINATION: Y (N) | FIELD-FILTERED: Y (N) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
3	CG	40ml	HCL	—		EPA 601/602
2	AG	1L	—	—		EPA 610
1	HDP	250ml	HNO3	—		EPA 239.2
3	CG	40ml	—	—		EPA 504
2	AG	1L	HCL	—		FL PRO

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

DEP Form # 62-770.900(3)
Form Title Petroleum or Petroleum Products Water Sampling Log
Effective Date September 23, 1997

Petroleum or Petroleum Products
Water Sampling Log

FDEP FACILITY NO.: | WELL NO.: MW-29 | SAMPLE ID: Old 7174-MW-29 | DATE: 1/21/98
SITE NAME: NTC Orlando | SITE LOCATION: Building 7174

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 15	DEPTH TO WATER (ft): 5.51	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =

= (15 - 5.51) x 0.16 = 1.5

PURGE METHOD: Peristaltic | PURGING INITIATED AT: 1245 | PURGING ENDED AT: 1305
PURGE RATE (gpm): 0.35 | TOTAL VOLUME PURGED (gal): 7.0

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
	0.5	6.48	21	700	Brown	—	Muddy	
	1.0	6.30	21	700	"	—	"	
	2.5	6.27	21	820	"	—	"	
	5.0	6.26	21	820	"	—	"	
	7.0	6.26	21	820	"	—	"	

SAMPLING DATA

SAMPLED BY / AFFILIATION: ABB-ES | SAMPLER(S) SIGNATURE(S): MIRNA BARQ [signature]
SAMPLING METHOD(S): Peristaltic | SAMPLING INITIATED AT: 1305 | SAMPLING ENDED AT: 1315
FIELD DECONTAMINATION: Y (N) | FIELD-FILTERED: Y (N) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
3	CG	40ml	HCL	—		EPA 601/602
2	AG	1L	—	—		EPA 610
1	HDP	250ml	HNO3	—		EPA 239.2
3	CG	40ml	—	—		EPA 504
2	AG	1L	HCL	—		FL PRO

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)
WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

DEP Form # 62-770.900(3)
Form Title Petroleum or Petroleum Products Water Sampling Log
Effective Date September 27, 1997

Petroleum or Petroleum Products
Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-30	SAMPLE ID: OD7174MW-30	DATE: 1/21/98
SITE NAME: NTC Orlando	SITE LOCATION: Building 7174		

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 15	DEPTH TO WATER (ft): 3.28	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =

= (15 - 3.28) x 0.16 = 1.875

PURGE METHOD: Peristaltic	PURGING INITIATED AT: 0945	PURGING ENDED AT: 1030	
	PURGE RATE (gpm): 0.12	TOTAL VOLUME PURGED (gal): 5	

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
	0.5	6.34	22	900	—	petrolu	clear	
	1.0	6.33	22	950	—	"	"	
	2.0	6.33	22	950	—	"	"	
	3.0	6.34	22	900	—	"	"	
	4.0	6.35	22	900	—	"	"	
	5.0	6.40	22	900	—	"	"	

SAMPLING DATA

SAMPLED BY / AFFILIATION: ABB-ES	SAMPLER(S) SIGNATURE(S): MIRNA BARQ		
SAMPLING METHOD(S): Peristaltic	SAMPLING INITIATED AT: 1030	SAMPLING ENDED AT: 1040	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
3	CG	40ml	HCL	—		EPA 601/602
2	AG	1L	—	—		EPA 610
1	HDP	250ml	HNO3	—		EPA 239.2
3	CG	40ml	—	—		EPA 504
2	AG	1L	HCL	—		FL PRO

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

DEP Form # 62-770.900(3)
Form Title Petroleum or Petroleum Products Water Sampling Log
Effective Date September 23, 1997

Petroleum or Petroleum Products Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-31	SAMPLE ID: old 7174-MW-31	DATE: 1/20/98
SITE NAME: NTC orlando	SITE LOCATION: Building 7174		

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 15	DEPTH TO WATER (ft): 2.6	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =

= (15 - 2.6) x 0.16 = 1.98

PURGE METHOD: peristaltic	PURGING INITIATED AT: 1330	PURGING ENDED AT: 1350
	PURGE RATE (gpm): 0.25	TOTAL VOLUME PURGED (gal): 5.0

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
	0.5	8.08	24	330	—	—	clear	
	1.0	6.93	23	320	—	—	"	
	1.5	7.32	23	300	—	—	"	
	2.5	7.28	23	310	—	—	"	
	3.5	7.24	23	320	—	—	"	
	5.0	7.28	23	320	—	—	"	

SAMPLING DATA

SAMPLED BY / AFFILIATION	ABB-ES	SAMPLER(S) SIGNATURE(S)	MIRNA BARQ [signature]
SAMPLING METHOD(S):	Peristaltic	SAMPLING INITIATED AT: 1350	SAMPLING ENDED AT: 1405

FIELD DECONTAMINATION: Y (N) | FIELD-FILTERED: Y (N) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
3	CG	40ml	HCL	—		EPA 601/602
2	AG	1L	—	—		EPA 610
1	HDP	250ml	HNO3	—		EPA 239.2
3	CG	40ml	—	—		EPA 504
2	AG	1L	HCL	—		FL pro

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

DEP Form # 62-770.900(3)
Form Title Petroleum or Petroleum Products Water Sampling Log
Effective Date September 27, 1997

Petroleum or Petroleum Products
Water Sampling Log

FDEP FACILITY NO.: | WELL NO.: MW-32 | SAMPLE ID: Old 7/74-MW-32 | DATE: 3/18/98
SITE NAME: Ntc orlando | SITE LOCATION: Bldg 7174

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 35.5	DEPTH TO WATER (ft): 5.2	WELL CAPACITY (gal/ft):

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =

= (35.5 - 5.2) x 0.16 = 4.8

PURGE METHOD:	PURGING INITIATED AT: 0955	PURGING ENDED AT: 11:00
	PURGE RATE (gpm): 0.23	TOTAL VOLUME PURGED (gal): 15

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
	0.5	5.8	25	140	—	—	clear	
	2.5	5.76	25	140	—	—	"	
	4.0	5.02	25	100	—	—	"	
	7.5	4.84	25	80	—	—	"	
	10.0	4.86	25	80	—	—	"	
	12.5	4.83	25	80	—	—	"	
	15.0	4.80	25	80	—	—	"	

SAMPLING DATA

SAMPLED BY / AFFILIATION: ABB-ES	SAMPLER(S) SIGNATURE(S): MIRNA BARQ	
SAMPLING METHOD(S): Peristaltic	SAMPLING INITIATED AT: 1105	SAMPLING ENDED AT: 1115

FIELD DECONTAMINATION: Y (N) | FIELD-FILTERED: Y (N) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
3	CG	40ml	HCL	—		EPA 601/602
2	AG	1L	—	—		EPA 610
1	HDP	250ml	HNO3	—		EPA 239.2
3	CG	40ml	—	—		EPA 504
2	AG	1L	HCL	—		FL PRO

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)
WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

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APPENDIX G

GROUNDWATER AND SOIL LABORATORY ANALYTICAL REPORTS

BUILDING 71, "HITS TABLE"
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S880427-2			S880389-7			S880446-1			S880427-1		
Site	7174			7174			7174			7174		
Locator	OLD 7174 14/MW-14			OLD 7174 16/MW-16			OLD 7174 18/MW-18			OLD 7174 19/MW-19		
Collect Date:	22-JAN-98			21-JAN-98			23-JAN-98			22-JAN-98		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
EPA 601												
Chloroform	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Trichloroethylene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
EPA 602												
Benzene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Toluene	-	U	ug/l	-	U	ug/l	11		ug/l	-	U	ug/l
Ethylbenzene	-	U	ug/l	-	U	ug/l	2.8		ug/l	-	U	ug/l
Xylenes (total)	-	U	ug/l	-	U	ug/l	9.5		ug/l	-	U	ug/l
Methyl tert-butyl ether	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
EPA 504												
1,2-Dibromoethane (EDB)	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
PAH COMPOUNDS												
Acenaphthylene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Benzo(a)pyrene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Benzo(b)fluoranthene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Chrysene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Benzo(a)anthracene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Fluoranthene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Fluorene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Naphthalene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Phenanthrene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Pyrene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
1-Methylnaphthalene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
2-Methylnaphthalene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
LEAD												
Lead	-	U	mg/l	-	U	mg/l	-	U	mg/l	.0057		mg/l
Flo Pro												
Petroleum Range Organics (Fl-P	-	U	mg/l	-	U	mg/l	-	U	mg/l	-	U	mg/l
Polynuclear Aromatics (8100)												
Acenaphthylene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Benzo(a)pyrene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Fluoranthrene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Fluorene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Naphthalene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Pyrene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
1-Methylnaphthalene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
2-Methylnaphthalene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l

BUILDING 7174 "HITS TABLE"
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S880446-2			S880389-1			S880389-1*			S880389-4		
Site	7174			7174			7174			7174		
Locator	OLD 7174 23/MW-23			OLD 7174 24/MW-24			OLD 7174 24/MW-24			OLD 7174 25/MW-25		
Collect Date:	23-JAN-98			21-JAN-98			21-JAN-98			21-JAN-98		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
EPA 601												
Chloroform	-	U	ug/l	-	U	ug/l	-			-	U	ug/l
Trichloroethylene	-	U	ug/l	-	U	ug/l	-			-	U	ug/l
EPA 602												
Benzene	-	U	ug/l	1400		ug/l	-			1.8		ug/l
Toluene	-	U	ug/l	3900		ug/l	-			-	U	ug/l
Ethylbenzene	-	U	ug/l	920		ug/l	-			-	U	ug/l
Xylenes (total)	-	U	ug/l	5300		ug/l	-			-	U	ug/l
Methyl tert-butyl ether	-	U	ug/l	-	U	ug/l	-			-	U	ug/l
EPA 504												
1,2-Dibromoethane (EDB)	-	U	ug/l	.022		ug/l	-			-	U	ug/l
PAH COMPOUNDS												
Acenaphthylene	-	U	ug/l	39	E	ug/l	50		ug/l	-	U	ug/l
Benzo(a)pyrene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Benzo(b)fluoranthene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Chrysene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Benzo(a)anthracene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Fluoranthene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Fluorene	-	U	ug/l	.83		ug/l	-	U	ug/l	-	U	ug/l
Naphthalene	-	U	ug/l	110	E	ug/l	180		ug/l	-	U	ug/l
Phenanthrene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Pyrene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
1-Methylnaphthalene	-	U	ug/l	19		ug/l	18		ug/l	-	U	ug/l
2-Methylnaphthalene	-	U	ug/l	39	E	ug/l	58		ug/l	-	U	ug/l
LEAD												
Lead	-	U	mg/l	-	U	mg/l	-			-	U	mg/l
Flo Pro												
Petroleum Range Organics (Fl-P	-	U	mg/l	8.6		mg/l	-			-	U	mg/l
Polynuclear Aromatics (8100)												
Acenaphthylene	-	U	ug/l	39	E	ug/l	50		ug/l	-	U	ug/l
Benzo(a)pyrene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Fluoranthrene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Fluorene	-	U	ug/l	.83		ug/l	-	U	ug/l	-	U	ug/l
Naphthalene	-	U	ug/l	110	E	ug/l	180		ug/l	-	U	ug/l
Pyrene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l

BUILDING 7174 "HITS TABLE"
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S880446-2			S880389-1			S880389-1*			S880389-4		
Site	7174			7174			7174			7174		
Locator	OLD 7174 23/MW-23			OLD 7174 24/MW-24			OLD 7174 24/MW-24			OLD 7174 25/MW-25		
Collect Date:	23-JAN-98			21-JAN-98			21-JAN-98			21-JAN-98		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
1-Methylnaphthalene	-	U	ug/l	19		ug/l	18		ug/l	-	U	ug/l
2-Methylnaphthalene	-	U	ug/l	39	E	ug/l	58		ug/l	-	U	ug/l

BUILDING 7174 "HITS TABLE"
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S880358-1			S880358-2			S880389-6			S880389-3		
Site	7174			7174			7174			7174		
Locator	OLD 7174 26/MW-26			OLD 7174 26/MW-26D			OLD 7174 27/MW-27			OLD 7174 28/MW-28		
Collect Date:	20-JAN-98			20-JAN-98			21-JAN-98			21-JAN-98		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
EPA 601												
Chloroform	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Trichloroethylene	-	U	ug/l	2.1		ug/l	-	U	ug/l	-	U	ug/l
EPA 602												
Benzene	-	U	ug/l	-	U	ug/l	-	U	ug/l	24		ug/l
Toluene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Ethylbenzene	1.5		ug/l	1.5		ug/l	-	U	ug/l	-	U	ug/l
Xylenes (total)	3.3		ug/l	3.3		ug/l	-	U	ug/l	66		ug/l
Methyl tert-butyl ether	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
EPA 504												
1,2-Dibromoethane (EDB)	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
PAH COMPOUNDS												
Acenaphthylene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Benzo(a)pyrene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Benzo(b)fluoranthene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Chrysene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Benzo(a)anthracene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Fluoranthene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Fluorene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Naphthalene	2.6		ug/l	5.5		ug/l	-	U	ug/l	18		ug/l
Phenanthrene	1.7		ug/l	2.9		ug/l	-	U	ug/l	-	U	ug/l
Pyrene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
1-Methylnaphthalene	2.9		ug/l	5.6		ug/l	-	U	ug/l	-	U	ug/l
2-Methylnaphthalene	-	U	ug/l	2.1		ug/l	-	U	ug/l	-	U	ug/l
LEAD												
Lead	-	U	mg/l	-	U	mg/l	-	U	mg/l	.08		mg/l
Flo Pro												
Petroleum Range Organics (Fl-P	-	U	mg/l	.9		mg/l	-	U	mg/l	.89		mg/l
Polynuclear Aromatics (8100)												
Acenaphthylene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Benzo(a)pyrene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Fluoranthrene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Fluorene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Naphthalene	2.6		ug/l	5.5		ug/l	-	U	ug/l	18		ug/l
Pyrene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l

BUILDING 7174 "HITS TABLE"
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S880358-1			S880358-2			S880389-6			S880389-3		
Site	7174			7174			7174			7174		
Locator	OLD 7174 26/MW-26			OLD 7174 26/MW-26D			OLD 7174 27/MW-27			OLD 7174 28/MW-28		
Collect Date:	20-JAN-98			20-JAN-98			21-JAN-98			21-JAN-98		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
1-Methylnaphthalene	2.9		ug/l	5.6		ug/l	-	U	ug/l	-	U	ug/l
2-Methylnaphthalene	-	U	ug/l	2.1		ug/l	-	U	ug/l	-	U	ug/l

BUILDING 7174 "HITS TABLE"
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S880389-5			S880389-2			S880358-3			S881533-1		
Site	7174			7174			7174			7174		
Locator	OLD 7174 29/MW-29			OLD 7174 30/MW-30			OLD 7174 31/MW-31			OLD 7174 32/DW-32		
Collect Date:	21-JAN-98			21-JAN-98			20-JAN-98			18-MAR-98		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
EPA 601												
Chloroform	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Trichloroethylene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
EPA 602												
Benzene	-	U	ug/l	130		ug/l	5.3		ug/l	-	U	ug/l
Toluene	-	U	ug/l	64		ug/l	3.6		ug/l	-	U	ug/l
Ethylbenzene	-	U	ug/l	-	U	ug/l	10		ug/l	-	U	ug/l
Xylenes (total)	-	U	ug/l	790		ug/l	32		ug/l	-	U	ug/l
Methyl tert-butyl ether	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
EPA 504												
1,2-Dibromoethane (EDB)	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
PAH COMPOUNDS												
Acenaphthylene	-	U	ug/l	10		ug/l	5.4		ug/l	-	U	ug/l
Benzo(a)pyrene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Benzo(b)fluoranthene	.41		ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Chrysene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Benzo(a)anthracene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Fluoranthene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Fluorene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Naphthalene	-	U	ug/l	41		ug/l	20		ug/l	-	U	ug/l
Phenanthrene	-	U	ug/l	-	U	ug/l	.89		ug/l	-	U	ug/l
Pyrene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
1-Methylnaphthalene	-	U	ug/l	5.5		ug/l	3.8		ug/l	-	U	ug/l
2-Methylnaphthalene	-	U	ug/l	13		ug/l	3.5		ug/l	-	U	ug/l
LEAD												
Lead	.36		mg/l	-	U	mg/l	-	U	mg/l	.02		mg/l
Flo Pro												
Petroleum Range Organics (Fl-P	-	U	mg/l	4.4		mg/l	.6		mg/l	-	U	mg/l
Polynuclear Aromatics (8100)												
Acenaphthylene	-	U	ug/l	10		ug/l	5.4		ug/l	-	U	ug/l
Benzo(a)pyrene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Fluoranthrene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Fluorene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l
Naphthalene	-	U	ug/l	41		ug/l	20		ug/l	-	U	ug/l
Pyrene	-	U	ug/l	-	U	ug/l	-	U	ug/l	-	U	ug/l

BUILDING 7174 "HITS TABLE"
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S880389-5			S880389-2			S880358-3			S881533-1		
Site	7174			7174			7174			7174		
Locator	OLD 7174 29/MW-29			OLD 7174 30/MW-30			OLD 7174 31/MW-31			OLD 7174 32/DW-32		
Collect Date:	21-JAN-98			21-JAN-98			20-JAN-98			18-MAR-98		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
1-Methylnaphthalene	-	U	ug/l	5.5		ug/l	3.8		ug/l	-	U	ug/l
2-Methylnaphthalene	-	U	ug/l	13		ug/l	3.5		ug/l	-	U	ug/l

BUILDING 7174 "HITS TABLE"
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S776969-4			S880358-4			S776969-2			S776969-5		
Site	7174			7174			7174			7174		
Locator	OLD 7174/AB-22 1312			OLD 7174 R3/RB3			OLD 7174/AB-12			OLD 7174/AB-12 1312		
Collect Date:	09-DEC-97			20-JAN-98			09-DEC-97			09-DEC-97		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
EPA 601												
Chloroform	-			3.4		ug/l	-			-		
Trichloroethylene	-			1.2		ug/l	-			-		
EPA 602												
Benzene	-	U	ug/kg	-	U	ug/l	-	U	ug/kg	-	U	ug/kg
Toluene	100		ug/kg	-	U	ug/l	-	U	ug/kg	-	U	ug/kg
Ethylbenzene	130		ug/kg	-	U	ug/l	-	U	ug/kg	-	U	ug/kg
Xylenes (total)	1000		ug/kg	-	U	ug/l	-	U	ug/kg	-	U	ug/kg
Methyl tert-butyl ether	-	U	ug/kg	-	U	ug/l	-	U	ug/kg	-	U	ug/kg
EPA 504												
1,2-Dibromoethane (EDB)	-			-	U	ug/l	-			-		
PAH COMPOUNDS												
Acenaphthylene	-	U	ug/kg	-	U	ug/l	-	U	ug/kg	-	U	ug/kg
Benzo(a)pyrene	-	U	ug/kg	-	U	ug/l	17		ug/kg	-	U	ug/kg
Benzo(b)fluoranthene	-	U	ug/kg	-	U	ug/l	16		ug/kg	-	U	ug/kg
Chrysene	-	U	ug/kg	-	U	ug/l	24		ug/kg	-	U	ug/kg
Benzo(a)anthracene	-	U	ug/kg	-	U	ug/l	8.5		ug/kg	-	U	ug/kg
Fluoranthene	-	U	ug/kg	-	U	ug/l	-	U	ug/kg	-	U	ug/kg
Fluorene	-	U	ug/kg	-	U	ug/l	-	U	ug/kg	-	U	ug/kg
Naphthalene	120		ug/kg	-	U	ug/l	-	U	ug/kg	-	U	ug/kg
Phenanthrene	-	U	ug/kg	-	U	ug/l	10		ug/kg	.17		ug/kg
Pyrene	-	U	ug/kg	-	U	ug/l	-	U	ug/kg	-	U	ug/kg
1-Methylnaphthalene	24		ug/kg	-	U	ug/l	-	U	ug/kg	-	U	ug/kg
2-Methylnaphthalene	49		ug/kg	-	U	ug/l	-	U	ug/kg	-	U	ug/kg
LEAD												
Lead	-			-	U	mg/l	-			-		
Flo Pro												
Petroleum Range Organics (Fl-P	66000		ug/kg	-	U	mg/l	17		mg/kg	-	U	ug/kg
Polynuclear Aromatics (8100)												
Acenaphthylene	-	U	ug/kg	-	U	ug/l	-	U	ug/kg	-	U	ug/kg
Benzo(a)pyrene	-	U	ug/kg	-	U	ug/l	17		ug/kg	-	U	ug/kg
Fluoranthrene	-	U	ug/kg	-	U	ug/l	-	U	ug/kg	-	U	ug/kg
Fluorene	-	U	ug/kg	-	U	ug/l	-	U	ug/kg	-	U	ug/kg
Naphthalene	120		ug/kg	-	U	ug/l	-	U	ug/kg	-	U	ug/kg
Pyrene	-	U	ug/kg	-	U	ug/l	-	U	ug/kg	-	U	ug/kg

BUILDING 7174 "HITS TABLE"
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S776969-4			S880358-4			S776969-2			S776969-5		
Site	7174			7174			7174			7174		
Locator	OLD 7174/AB-22 1312			OLD 7174 R3/RB3			OLD 7174/AB-12			OLD 7174/AB-12 1312		
Collect Date:	09-DEC-97			20-JAN-98			09-DEC-97			09-DEC-97		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
1-Methylnaphthalene	24		ug/kg	-	U	ug/l	-	U	ug/kg	-	U	ug/kg
2-Methylnaphthalene	49		ug/kg	-	U	ug/l	-	U	ug/kg	-	U	ug/kg

BUILDING 7174 "HITS TABLE"
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S776969-1			S776969-3		
Site	7174			7174		
Locator	OLD 7174/AB-22			OLD 7174/AB-40		
Collect Date:	09-DEC-97			09-DEC-97		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
EPA 601						
Chloroform	-			-		
Trichloroethylene	-			-		
EPA 602						
Benzene	1100	UX	ug/kg	-	U	ug/kg
Toluene	28000		ug/kg	-	U	ug/kg
Ethylbenzene	18000		ug/kg	-	U	ug/kg
Xylenes (total)	140000		ug/kg	-	U	ug/kg
Methyl tert-butyl ether	7200		ug/kg	-	U	ug/kg
EPA 504						
1,2-Dibromoethane (EDB)	-			-		
PAH COMPOUNDS						
Acenaphthylene	-	U	ug/kg	-	U	ug/kg
Benzo(a)pyrene	-	U	ug/kg	-	U	ug/kg
Benzo(b)fluoranthene	14		ug/kg	-	U	ug/kg
Chrysene	17		ug/kg	-	U	ug/kg
Benzo(a)anthracene	7.1		ug/kg	-	U	ug/kg
Fluoranthene	-	U	ug/kg	-	U	ug/kg
Fluorene	-	U	ug/kg	-	U	ug/kg
Naphthalene	6700		ug/kg	-	U	ug/kg
Phenanthrene	11		ug/kg	-	U	ug/kg
Pyrene	-	U	ug/kg	-	U	ug/kg
1-Methylnaphthalene	4400		ug/kg	-	U	ug/kg
2-Methylnaphthalene	6700		ug/kg	-	U	ug/kg
LEAD						
Lead	-			-		
Flo Pro						
Petroleum Range Organics (Fl-P	190		mg/kg	-	U	mg/kg
Polynuclear Aromatics (8100)						
Acenaphthylene	-	U	ug/kg	-	U	ug/kg
Benzo(a)pyrene	-	U	ug/kg	-	U	ug/kg
Fluoranthrene	-	U	ug/kg	-	U	ug/kg
Fluorene	-	U	ug/kg	-	U	ug/kg
Naphthalene	6700		ug/kg	-	U	ug/kg
Pyrene	-	U	ug/kg	-	U	ug/kg

BUILDING 7174 "HITS TABLE"
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S776969-1			S776969-3		
Site	7174			7174		
Locator	OLD 7174/AB-22			OLD 7174/AB-40		
Collect Date:	09-DEC-97			09-DEC-97		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
1-Methylnaphthalene	4400		ug/kg	-	U	ug/kg
2-Methylnaphthalene	6700		ug/kg	-	U	ug/kg

BUILDING 7174
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S880427-2			S880389-7			S880446-1			S880427-1		
Site	7174			7174			7174			7174		
Locator	OLD 7174 14/MW-14			OLD 7174 16/MW-16			OLD 7174 18/MW-18			OLD 7174 19/MW-19		
Collect Date:	22-JAN-98			21-JAN-98			23-JAN-98			22-JAN-98		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
EPA 601												
Bromodichloromethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
Bromoform	5	U	ug/l	5	U	ug/l	5	U	ug/l	5	U	ug/l
Bromomethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
Carbon tetrachloride	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
Chlorobenzene	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
Chloroethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
2-Chloroethylvinyl ether	10	U	ug/l	10	U	ug/l	10	U	ug/l	10	U	ug/l
Chloroform	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
Chloromethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
Dibromochloromethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
1,2-Dichlorobenzene	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
1,3-Dichlorobenzene	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
1,4-Dichlorobenzene	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
Dichlorodifluoromethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
1,1-Dichloroethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
1,2-Dichloroethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
1,1-Dichloroethene	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
Cis/Trans-1,2-Dichloroethene	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
1,2-Dichloropropane	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
cis-1,3-Dichloropropene	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
trans-1,3-Dichloropropene	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
Methylene chloride	5	U	ug/l	5	U	ug/l	5	U	ug/l	5	U	ug/l
1,1,2,2-Tetrachloroethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
Tetrachloroethene	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
1,1,1-Trichloroethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
1,1,2-Trichloroethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
Trichloroethylene	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
Trichlorofluoromethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
Vinyl chloride	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
EPA 602												
Benzene	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
Toluene	1	U	ug/l	1	U	ug/l	11		ug/l	1	U	ug/l
Ethylbenzene	1	U	ug/l	1	U	ug/l	2.8		ug/l	1	U	ug/l
Xylenes (total)	2	U	ug/l	2	U	ug/l	9.5		ug/l	2	U	ug/l
Methyl tert-butyl ether	10	U	ug/l	10	U	ug/l	10	U	ug/l	10	U	ug/l
EPA 504												
1,2-Dibromoethane (EDB)	.02	U	ug/l	.02	U	ug/l	.02	U	ug/l	.02	U	ug/l
PAH COMPOUNDS												
Acenaphthene	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
Acenaphthylene	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
Benzo(a)pyrene	.2	U	ug/l	.2	U	ug/l	.2	U	ug/l	.2	U	ug/l
Benzo(g,h,i)perylene	.5	U	ug/l	.5	U	ug/l	.5	U	ug/l	.5	U	ug/l
Benzo(b)fluoranthene	.2	U	ug/l	.2	U	ug/l	.2	U	ug/l	.2	U	ug/l
Benzo(k)fluoranthene	.5	U	ug/l	.5	U	ug/l	.5	U	ug/l	.5	U	ug/l
Chrysene	.2	U	ug/l	.2	U	ug/l	.2	U	ug/l	.2	U	ug/l
Benzo(a)anthracene	.2	U	ug/l	.2	U	ug/l	.2	U	ug/l	.2	U	ug/l
Fluoranthene	.5	U	ug/l	.5	U	ug/l	.5	U	ug/l	.5	U	ug/l

BUILDING 7174
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S880427-2			S880389-7			S880446-1			S880427-1		
Site	7174			7174			7174			7174		
Locator	OLD 7174 14/MW-14			OLD 7174 16/MW-16			OLD 7174 18/MW-18			OLD 7174 19/MW-19		
Collect Date:	22-JAN-98			21-JAN-98			23-JAN-98			22-JAN-98		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
Fluorene	.5	U	ug/l	.5	U	ug/l	.5	U	ug/l	.5	U	ug/l
Indeno(1,2,3-cd)pyrene	.5	U	ug/l	.5	U	ug/l	.5	U	ug/l	.5	U	ug/l
Dibenzo(a,h)anthracene	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
Naphthalene	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
Phenanthrene	.2	U	ug/l	.2	U	ug/l	.2	U	ug/l	.2	U	ug/l
Anthracene	.2	U	ug/l	.2	U	ug/l	.2	U	ug/l	.2	U	ug/l
Pyrene	.5	U	ug/l	.5	U	ug/l	.5	U	ug/l	.5	U	ug/l
1-Methylnaphthalene	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
2-Methylnaphthalene	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
LEAD												
Lead	.005	U	mg/l	.005	U	mg/l	.005	U	mg/l	.0057		mg/l
Flo Pro												
Petroleum Range Organics (Fl-P	.3	U	mg/l	.3	U	mg/l	.3	U	mg/l	.3	U	mg/l
Polynuclear Aromatics (8100)												
Acenaphthene	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
Acenaphthylene	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
Benzo(a)pyrene	.2	U	ug/l	.2	U	ug/l	.2	U	ug/l	.2	U	ug/l
Benzo(g,h,i)perylene	.5	U	ug/l	.5	U	ug/l	.5	U	ug/l	.5	U	ug/l
Benzo(b,k)fluoranthene	-			-			-			-		
Chrysene + Benzo(a)anthracene	-			-			-			-		
Fluoranthrene	.5	U	ug/l	.5	U	ug/l	.5	U	ug/l	.5	U	ug/l
Fluorene	.5	U	ug/l	.5	U	ug/l	.5	U	ug/l	.5	U	ug/l
Indeno(1,2,3-cd)pyrene+Dibenzo	-			-			-			-		
Naphthalene	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
Phenanthrene + Anthracene	-			-			-			-		
Pyrene	.5	U	ug/l	.5	U	ug/l	.5	U	ug/l	.5	U	ug/l
1-Methylnaphthalene	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l
2-Methylnaphthalene	1	U	ug/l	1	U	ug/l	1	U	ug/l	1	U	ug/l

BUILDING 7174
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S880446-2			S880389-1			S880389-1*			S880389-4		
Site	7174			7174			7174			7174		
Locator	OLD 7174 23/MW-23			OLD 7174 24/MW-24			OLD 7174 24/MW-24			OLD 7174 25/MW-25		
Collect Date:	23-JAN-98			21-JAN-98			21-JAN-98			21-JAN-98		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
EPA 601												
Bromodichloromethane	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
Bromoform	5	U	ug/l	250	U	ug/l	-			5	U	ug/l
Bromomethane	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
Carbon tetrachloride	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
Chlorobenzene	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
Chloroethane	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
2-Chloroethylvinyl ether	10	U	ug/l	500	U	ug/l	-			10	U	ug/l
Chloroform	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
Chloromethane	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
Dibromochloromethane	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
1,2-Dichlorobenzene	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
1,3-Dichlorobenzene	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
1,4-Dichlorobenzene	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
Dichlorodifluoromethane	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
1,1-Dichloroethane	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
1,2-Dichloroethane	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
1,1-Dichloroethene	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
Cis/Trans-1,2-Dichloroethene	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
1,2-Dichloropropane	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
cis-1,3-Dichloropropene	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
trans-1,3-Dichloropropene	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
Methylene chloride	5	U	ug/l	250	U	ug/l	-			5	U	ug/l
1,1,2,2-Tetrachloroethane	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
Tetrachloroethene	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
1,1,1-Trichloroethane	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
1,1,2-Trichloroethane	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
Trichloroethylene	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
Trichlorofluoromethane	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
Vinyl chloride	1	U	ug/l	50	U	ug/l	-			1	U	ug/l
EPA 602												
Benzene	1	U	ug/l	1400		ug/l	-			1.8		ug/l
Toluene	1	U	ug/l	3900		ug/l	-			1	U	ug/l
Ethylbenzene	1	U	ug/l	920		ug/l	-			1	U	ug/l
Xylenes (total)	2	U	ug/l	5300		ug/l	-			2	U	ug/l
Methyl tert-butyl ether	10	U	ug/l	500	U	ug/l	-			10	U	ug/l
EPA 504												
1,2-Dibromoethane (EDB)	.02	U	ug/l	.022		ug/l	-			.02	U	ug/l

BUILDING 7174
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S880446-2			S880389-1			S880389-1*			S880389-4		
Site	7174			7174			7174			7174		
Locator	OLD 7174 23/MW-23			OLD 7174 24/MW-24			OLD 7174 24/MW-24			OLD 7174 25/MW-25		
Collect Date:	23-JAN-98			21-JAN-98			21-JAN-98			21-JAN-98		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
PAH COMPOUNDS												
Acenaphthene	1	U	ug/l	1	U	ug/l	10	U	ug/l	1	U	ug/l
Acenaphthylene	1	U	ug/l	39	E	ug/l	50		ug/l	1	U	ug/l
Benzo(a)pyrene	.2	U	ug/l	.2	U	ug/l	2	U	ug/l	.2	U	ug/l
Benzo(g,h,i)perylene	.5	U	ug/l	.5	U	ug/l	5	U	ug/l	.5	U	ug/l
Benzo(b)fluoranthene	.2	U	ug/l	.2	U	ug/l	2	U	ug/l	.2	U	ug/l
Benzo(k)fluoranthene	.5	U	ug/l	.5	U	ug/l	5	U	ug/l	.5	U	ug/l
Chrysene	.2	U	ug/l	.2	U	ug/l	2	U	ug/l	.2	U	ug/l
Benzo(a)anthracene	.2	U	ug/l	.2	U	ug/l	2	U	ug/l	.2	U	ug/l
Fluoranthene	.5	U	ug/l	.5	U	ug/l	5	U	ug/l	.5	U	ug/l
Fluorene	.5	U	ug/l	.83		ug/l	5	U	ug/l	.5	U	ug/l
Indeno(1,2,3-cd)pyrene	.5	U	ug/l	.5	U	ug/l	5	U	ug/l	.5	U	ug/l
Dibenzo(a,h)anthracene	1	U	ug/l	1	U	ug/l	10	U	ug/l	1	U	ug/l
Naphthalene	1	U	ug/l	110	E	ug/l	180		ug/l	1	U	ug/l
Phenanthrene	.2	U	ug/l	.2	U	ug/l	2	U	ug/l	.2	U	ug/l
Anthracene	.2	U	ug/l	.2	U	ug/l	2	U	ug/l	.2	U	ug/l
Pyrene	.5	U	ug/l	.5	U	ug/l	5	U	ug/l	.5	U	ug/l
1-Methylnaphthalene	1	U	ug/l	19		ug/l	18		ug/l	1	U	ug/l
2-Methylnaphthalene	1	U	ug/l	39	E	ug/l	58		ug/l	1	U	ug/l
LEAD												
Lead	.005	U	mg/l	.005	U	mg/l	-			.005	U	mg/l
Flo Pro												
Petroleum Range Organics (Fl-P	.3	U	mg/l	8.6		mg/l	-			.3	U	mg/l
Polynuclear Aromatics (8100)												
Acenaphthene	1	U	ug/l	1	U	ug/l	10	U	ug/l	1	U	ug/l
Acenaphthylene	1	U	ug/l	39	E	ug/l	50		ug/l	1	U	ug/l
Benzo(a)pyrene	.2	U	ug/l	.2	U	ug/l	2	U	ug/l	.2	U	ug/l
Benzo(g,h,i)perylene	.5	U	ug/l	.5	U	ug/l	5	U	ug/l	.5	U	ug/l
Benzo(b,k)fluoranthene	-			-			-			-		
Chrysene + Benzo(a)anthracene	-			-			-			-		
Fluoranthrene	.5	U	ug/l	.5	U	ug/l	5	U	ug/l	.5	U	ug/l
Fluorene	.5	U	ug/l	.83		ug/l	5	U	ug/l	.5	U	ug/l
Indeno(1,2,3-cd)pyrene+Dibenzo	-			-			-			-		
Naphthalene	1	U	ug/l	110	E	ug/l	180		ug/l	1	U	ug/l
Phenanthrene + Anthracene	-			-			-			-		
Pyrene	.5	U	ug/l	.5	U	ug/l	5	U	ug/l	.5	U	ug/l
1-Methylnaphthalene	1	U	ug/l	19		ug/l	18		ug/l	1	U	ug/l
2-Methylnaphthalene	1	U	ug/l	39	E	ug/l	58		ug/l	1	U	ug/l

BUILDING 7174
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S880358-1			S880358-2			S880389-6			S880389-3		
Site	7174			7174			7174			7174		
Locator	OLD 7174 26/MW-26			OLD 7174 26/MW-26D			OLD 7174 27/MW-27			OLD 7174 28/MW-28		
Collect Date:	20-JAN-98			20-JAN-98			21-JAN-98			21-JAN-98		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
EPA 601												
Bromodichloromethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
Bromoform	5	U	ug/l	5	U	ug/l	5	U	ug/l	25	U	ug/l
Bromomethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
Carbon tetrachloride	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
Chlorobenzene	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
Chloroethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
2-Chloroethylvinyl ether	10	U	ug/l	10	U	ug/l	10	U	ug/l	50	U	ug/l
Chloroform	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
Chloromethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
Dibromochloromethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
1,2-Dichlorobenzene	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
1,3-Dichlorobenzene	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
1,4-Dichlorobenzene	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
Dichlorodifluoromethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
1,1-Dichloroethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
1,2-Dichloroethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
1,1-Dichloroethene	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
Cis/Trans-1,2-Dichloroethene	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
1,2-Dichloropropane	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
cis-1,3-Dichloropropene	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
trans-1,3-Dichloropropene	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
Methylene chloride	5	U	ug/l	5	U	ug/l	5	U	ug/l	25	U	ug/l
1,1,2,2-Tetrachloroethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
Tetrachloroethene	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
1,1,1-Trichloroethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
1,1,2-Trichloroethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
Trichloroethylene	1	U	ug/l	2.1		ug/l	1	U	ug/l	5	U	ug/l
Trichlorofluoromethane	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
Vinyl chloride	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
EPA 602												
Benzene	1	U	ug/l	1	U	ug/l	1	U	ug/l	24		ug/l
Toluene	1	U	ug/l	1	U	ug/l	1	U	ug/l	5	U	ug/l
Ethylbenzene	1.5		ug/l	1.5		ug/l	1	U	ug/l	5	U	ug/l
Xylenes (total)	3.3		ug/l	3.3		ug/l	2	U	ug/l	66		ug/l
Methyl tert-butyl ether	10	U	ug/l	10	U	ug/l	10	U	ug/l	50	U	ug/l
EPA 504												
1,2-Dibromoethane (EDB)	.02	U	ug/l	.02	U	ug/l	.02	U	ug/l	.02	U	ug/l

BUILDING 7174
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S880358-1			S880358-2			S880389-6			S880389-3		
Site	7174			7174			7174			7174		
Locator	OLD 7174 26/MW-26			OLD 7174 26/MW-26D			OLD 7174 27/MW-27			OLD 7174 28/MW-28		
Collect Date:	20-JAN-98			20-JAN-98			21-JAN-98			21-JAN-98		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
PAH COMPOUNDS												
Acenaphthene	2	U	ug/l	2	U	ug/l	1	U	ug/l	1	U	ug/l
Acenaphthylene	2	U	ug/l	2	U	ug/l	1	U	ug/l	1	U	ug/l
Benzo(a)pyrene	.4	U	ug/l	.4	U	ug/l	.2	U	ug/l	.2	U	ug/l
Benzo(g,h,i)perylene	1	U	ug/l	1	U	ug/l	.5	U	ug/l	.5	U	ug/l
Benzo(b)fluoranthene	.4	U	ug/l	.4	U	ug/l	.2	U	ug/l	.2	U	ug/l
Benzo(k)fluoranthene	1	U	ug/l	1	U	ug/l	.5	U	ug/l	.5	U	ug/l
Chrysene	.4	U	ug/l	.4	U	ug/l	.2	U	ug/l	.2	U	ug/l
Benzo(a)anthracene	.4	U	ug/l	.4	U	ug/l	.2	U	ug/l	.2	U	ug/l
Fluoranthene	1	U	ug/l	1	U	ug/l	.5	U	ug/l	.5	U	ug/l
Fluorene	1	U	ug/l	1	U	ug/l	.5	U	ug/l	.5	U	ug/l
Indeno(1,2,3-cd)pyrene	1	U	ug/l	1	U	ug/l	.5	U	ug/l	.5	U	ug/l
Dibenzo(a,h)anthracene	2	U	ug/l	2	U	ug/l	1	U	ug/l	1	U	ug/l
Naphthalene	2.6		ug/l	5.5		ug/l	1	U	ug/l	18		ug/l
Phenanthrene	1.7		ug/l	2.9		ug/l	.2	U	ug/l	.2	U	ug/l
Anthracene	.4	U	ug/l	.4	U	ug/l	.2	U	ug/l	.2	U	ug/l
Pyrene	1	U	ug/l	1	U	ug/l	.5	U	ug/l	.5	U	ug/l
1-Methylnaphthalene	2.9		ug/l	5.6		ug/l	1	U	ug/l	1	U	ug/l
2-Methylnaphthalene	2	U	ug/l	2.1		ug/l	1	U	ug/l	1	U	ug/l
LEAD												
Lead	.005	U	mg/l	.005	U	mg/l	.005	U	mg/l	.08		mg/l
Flo Pro												
Petroleum Range Organics (Fl-P	.3	U	mg/l	.9		mg/l	.3	U	mg/l	.89		mg/l
Polynuclear Aromatics (8100)												
Acenaphthene	2	U	ug/l	2	U	ug/l	1	U	ug/l	1	U	ug/l
Acenaphthylene	2	U	ug/l	2	U	ug/l	1	U	ug/l	1	U	ug/l
Benzo(a)pyrene	.4	U	ug/l	.4	U	ug/l	.2	U	ug/l	.2	U	ug/l
Benzo(g,h,i)perylene	1	U	ug/l	1	U	ug/l	.5	U	ug/l	.5	U	ug/l
Benzo(b,k)fluoranthene	-			-			-			-		
Chrysene + Benzo(a)anthracene	-			-			-			-		
Fluoranthrene	1	U	ug/l	1	U	ug/l	.5	U	ug/l	.5	U	ug/l
Fluorene	1	U	ug/l	1	U	ug/l	.5	U	ug/l	.5	U	ug/l
Indeno(1,2,3-cd)pyrene+Dibenzo	-			-			-			-		
Naphthalene	2.6		ug/l	5.5		ug/l	1	U	ug/l	18		ug/l
Phenanthrene + Anthracene	-			-			-			-		
Pyrene	1	U	ug/l	1	U	ug/l	.5	U	ug/l	.5	U	ug/l
1-Methylnaphthalene	2.9		ug/l	5.6		ug/l	1	U	ug/l	1	U	ug/l
2-Methylnaphthalene	2	U	ug/l	2.1		ug/l	1	U	ug/l	1	U	ug/l

BUILDING 7174
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S880389-5			S880389-2			S880358-3			S881533-1		
Site	7174			7174			7174			7174		
Locator	OLD 7174 29/MW-29			OLD 7174 30/MW-30			OLD 7174 31/MW-31			OLD 7174 32/DW-32		
Collect Date:	21-JAN-98			21-JAN-98			20-JAN-98			18-MAR-98		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
EPA 601												
Bromodichloromethane	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
Bromoform	5	U	ug/l	120	U	ug/l	5	U	ug/l	5	U	ug/l
Bromomethane	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
Carbon tetrachloride	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
Chlorobenzene	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
Chloroethane	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
2-Chloroethylvinyl ether	10	U	ug/l	250	U	ug/l	10	U	ug/l	10	U	ug/l
Chloroform	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
Chloromethane	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
Dibromochloromethane	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
1,2-Dichlorobenzene	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
1,3-Dichlorobenzene	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
1,4-Dichlorobenzene	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
Dichlorodifluoromethane	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
1,1-Dichloroethane	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
1,2-Dichloroethane	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
1,1-Dichloroethene	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
Cis/Trans-1,2-Dichloroethene	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
1,2-Dichloropropane	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
cis-1,3-Dichloropropene	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
trans-1,3-Dichloropropene	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
Methylene chloride	5	U	ug/l	120	U	ug/l	5	U	ug/l	5	U	ug/l
1,1,2,2-Tetrachloroethane	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
Tetrachloroethene	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
1,1,1-Trichloroethane	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
1,1,2-Trichloroethane	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
Trichloroethylene	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
Trichlorofluoromethane	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
Vinyl chloride	1	U	ug/l	25	U	ug/l	1	U	ug/l	1	U	ug/l
EPA 602												
Benzene	1	U	ug/l	130		ug/l	5.3		ug/l	1	U	ug/l
Toluene	1	U	ug/l	64		ug/l	3.6		ug/l	1	U	ug/l
Ethylbenzene	1	U	ug/l	25	U	ug/l	10		ug/l	1	U	ug/l
Xylenes (total)	2	U	ug/l	790		ug/l	32		ug/l	2	U	ug/l
Methyl tert-butyl ether	10	U	ug/l	250	U	ug/l	10	U	ug/l	10	U	ug/l
EPA 504												
1,2-Dibromoethane (EDB)	.02	U	ug/l	.02	U	ug/l	.02	U	ug/l	.02	U	ug/l

BUILDING 7174
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S880389-5			S880389-2			S880358-3			S881533-1		
Site	7174			7174			7174			7174		
Locator	OLD 7174 29/MW-29			OLD 7174 30/MW-30			OLD 7174 31/MW-31			OLD 7174 32/DW-32		
Collect Date:	21-JAN-98			21-JAN-98			20-JAN-98			18-MAR-98		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
PAH COMPOUNDS												
Acenaphthene	1	U	ug/l	4	U	ug/l	1	U	ug/l	1	U	ug/l
Acenaphthylene	1	U	ug/l	10		ug/l	5.4		ug/l	1	U	ug/l
Benzo(a)pyrene	.2	U	ug/l	.8	U	ug/l	.2	U	ug/l	.2	U	ug/l
Benzo(g,h,i)perylene	.5	U	ug/l	2	U	ug/l	.5	U	ug/l	.5	U	ug/l
Benzo(b)fluoranthene	.41		ug/l	.8	U	ug/l	.2	U	ug/l	.2	U	ug/l
Benzo(k)fluoranthene	.5	U	ug/l	2	U	ug/l	.5	U	ug/l	.2	U	ug/l
Chrysene	.2	U	ug/l	.8	U	ug/l	.2	U	ug/l	.2	U	ug/l
Benzo(a)anthracene	.2	U	ug/l	.8	U	ug/l	.2	U	ug/l	.2	U	ug/l
Fluoranthene	.5	U	ug/l	2	U	ug/l	.5	U	ug/l	.5	U	ug/l
Fluorene	.5	U	ug/l	2	U	ug/l	.5	U	ug/l	.5	U	ug/l
Indeno(1,2,3-cd)pyrene	.5	U	ug/l	2	U	ug/l	.5	U	ug/l	.5	U	ug/l
Dibenzo(a,h)anthracene	1	U	ug/l	4	U	ug/l	1	U	ug/l	.5	U	ug/l
Naphthalene	1	U	ug/l	41		ug/l	20		ug/l	1	U	ug/l
Phenanthrene	.2	U	ug/l	.8	U	ug/l	.89		ug/l	.2	U	ug/l
Anthracene	.2	U	ug/l	.8	U	ug/l	.2	U	ug/l	.2	U	ug/l
Pyrene	.5	U	ug/l	2	U	ug/l	.5	U	ug/l	.5	U	ug/l
1-Methylnaphthalene	1	U	ug/l	5.5		ug/l	3.8		ug/l	1	U	ug/l
2-Methylnaphthalene	1	U	ug/l	13		ug/l	3.5		ug/l	1	U	ug/l
LEAD												
Lead	.36		mg/l	.005	U	mg/l	.005	U	mg/l	.02		mg/l
Flo Pro												
Petroleum Range Organics (Fl-P	.3	U	mg/l	4.4		mg/l	.6		mg/l	.3	U	mg/l
Polynuclear Aromatics (8100)												
Acenaphthene	1	U	ug/l	4	U	ug/l	1	U	ug/l	1	U	ug/l
Acenaphthylene	1	U	ug/l	10		ug/l	5.4		ug/l	1	U	ug/l
Benzo(a)pyrene	.2	U	ug/l	.8	U	ug/l	.2	U	ug/l	.2	U	ug/l
Benzo(g,h,i)perylene	.5	U	ug/l	2	U	ug/l	.5	U	ug/l	.5	U	ug/l
Benzo(b,k)fluoranthene	-			-			-			-		
Chrysene + Benzo(a)anthracene	-			-			-			-		
Fluoranthrene	.5	U	ug/l	2	U	ug/l	.5	U	ug/l	.5	U	ug/l
Fluorene	.5	U	ug/l	2	U	ug/l	.5	U	ug/l	.5	U	ug/l
Indeno(1,2,3-cd)pyrene+Dibenzo	-			-			-			-		
Naphthalene	1	U	ug/l	41		ug/l	20		ug/l	1	U	ug/l
Phenanthrene + Anthracene	-			-			-			-		
Pyrene	.5	U	ug/l	2	U	ug/l	.5	U	ug/l	.5	U	ug/l
1-Methylnaphthalene	1	U	ug/l	5.5		ug/l	3.8		ug/l	1	U	ug/l
2-Methylnaphthalene	1	U	ug/l	13		ug/l	3.5		ug/l	1	U	ug/l

BUILDING 7174
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S776969-4			S880358-4			S776969-2			S776969-5		
Site	7174			7174			7174			7174		
Locator	OLD 7174/AB-22 1312			OLD 7174 R3/RB3			OLD 7174/AB-12			OLD 7174/AB-12 1312		
Collect Date:	09-DEC-97			20-JAN-98			09-DEC-97			09-DEC-97		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
EPA 601												
Bromodichloromethane	-			1	U	ug/l	-			-		
Bromoform	-			5	U	ug/l	-			-		
Bromomethane	-			1	U	ug/l	-			-		
Carbon tetrachloride	-			1	U	ug/l	-			-		
Chlorobenzene	-			1	U	ug/l	-			-		
Chloroethane	-			1	U	ug/l	-			-		
2-Chloroethylvinyl ether	-			10	U	ug/l	-			-		
Chloroform	-			3.4		ug/l	-			-		
Chloromethane	-			1	U	ug/l	-			-		
Dibromochloromethane	-			1	U	ug/l	-			-		
1,2-Dichlorobenzene	-			1	U	ug/l	-			-		
1,3-Dichlorobenzene	-			1	U	ug/l	-			-		
1,4-Dichlorobenzene	-			1	U	ug/l	-			-		
Dichlorodifluoromethane	-			1	U	ug/l	-			-		
1,1-Dichloroethane	-			1	U	ug/l	-			-		
1,2-Dichloroethane	-			1	U	ug/l	-			-		
1,1-Dichloroethene	-			1	U	ug/l	-			-		
Cis/Trans-1,2-Dichloroethene	-			1	U	ug/l	-			-		
1,2-Dichloropropane	-			1	U	ug/l	-			-		
cis-1,3-Dichloropropene	-			1	U	ug/l	-			-		
trans-1,3-Dichloropropene	-			1	U	ug/l	-			-		
Methylene chloride	-			5	U	ug/l	-			-		
1,1,2,2-Tetrachloroethane	-			1	U	ug/l	-			-		
Tetrachloroethene	-			1	U	ug/l	-			-		
1,1,1-Trichloroethane	-			1	U	ug/l	-			-		
1,1,2-Trichloroethane	-			1	U	ug/l	-			-		
Trichloroethylene	-			1.2		ug/l	-			-		
Trichlorofluoromethane	-			1	U	ug/l	-			-		
Vinyl chloride	-			1	U	ug/l	-			-		
EPA 602												
Benzene	5	U	ug/kg	1	U	ug/l	5	U	ug/kg	1	U	ug/kg
Toluene	100		ug/kg	1	U	ug/l	5	U	ug/kg	1	U	ug/kg
Ethylbenzene	130		ug/kg	1	U	ug/l	5	U	ug/kg	1	U	ug/kg
Xylenes (total)	1000		ug/kg	2	U	ug/l	5	U	ug/kg	2	U	ug/kg
Methyl tert-butyl ether	50	U	ug/kg	10	U	ug/l	50	U	ug/kg	10	U	ug/kg
EPA 504												
1,2-Dibromoethane (EDB)	-			.02	U	ug/l	-			-		

BUILDING 7174
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S776969-4			S880358-4			S776969-2			S776969-5		
Site	7174			7174			7174			7174		
Locator	OLD 7174/AB-22 1312			OLD 7174 R3/RB3			OLD 7174/AB-12			OLD 7174/AB-12 1312		
Collect Date:	09-DEC-97			20-JAN-98			09-DEC-97			09-DEC-97		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
PAH COMPOUNDS												
Acenaphthene	6	U	ug/kg	1	U	ug/l	370	U	ug/kg	6	U	ug/kg
Acenaphthylene	6	U	ug/kg	1	U	ug/l	370	U	ug/kg	6	U	ug/kg
Benzo(a)pyrene	6	U	ug/kg	.2	U	ug/l	17		ug/kg	6	U	ug/kg
Benzo(g,h,i)perylene	6	U	ug/kg	.5	U	ug/l	370	U	ug/kg	6	U	ug/kg
Benzo(b)fluoranthene	2.4	U	ug/kg	.2	U	ug/l	16		ug/kg	.12	U	ug/kg
Benzo(k)fluoranthene	6	U	ug/kg	.5	U	ug/l	11	U	ug/kg	.3	U	ug/kg
Chrysene	2.4	U	ug/kg	.2	U	ug/l	24		ug/kg	.12	U	ug/kg
Benzo(a)anthracene	2.4	U	ug/kg	.2	U	ug/l	8.5		ug/kg	.12	U	ug/kg
Fluoranthene	6	U	ug/kg	.5	U	ug/l	370	U	ug/kg	.3	U	ug/kg
Fluorene	6	U	ug/kg	.5	U	ug/l	370	U	ug/kg	6	U	ug/kg
Indeno(1,2,3-cd)pyrene	6	U	ug/kg	.5	U	ug/l	11	U	ug/kg	.3	U	ug/kg
Dibenzo(a,h)anthracene	12	U	ug/kg	1	U	ug/l	22	U	ug/kg	.6	U	ug/kg
Naphthalene	120		ug/kg	1	U	ug/l	370	U	ug/kg	6	U	ug/kg
Phenanthrene	2.4	U	ug/kg	.2	U	ug/l	10		ug/kg	.17		ug/kg
Anthracene	2.4	U	ug/kg	.2	U	ug/l	4.4	U	ug/kg	.12	U	ug/kg
Pyrene	6	U	ug/kg	.5	U	ug/l	370	U	ug/kg	6	U	ug/kg
1-Methylnaphthalene	24		ug/kg	1	U	ug/l	370	U	ug/kg	6	U	ug/kg
2-Methylnaphthalene	49		ug/kg	1	U	ug/l	370	U	ug/kg	6	U	ug/kg
LEAD												
Lead	-			.005	U	mg/l	-			-		
Flo Pro												
Petroleum Range Organics (Fl-P	66000		ug/kg	.3	U	mg/l	17		mg/kg	6000	U	ug/kg
Polynuclear Aromatics (8100)												
Acenaphthene	6	U	ug/kg	1	U	ug/l	370	U	ug/kg	6	U	ug/kg
Acenaphthylene	6	U	ug/kg	1	U	ug/l	370	U	ug/kg	6	U	ug/kg
Benzo(a)pyrene	6	U	ug/kg	.2	U	ug/l	17		ug/kg	6	U	ug/kg
Benzo(g,h,i)perylene	6	U	ug/kg	.5	U	ug/l	370	U	ug/kg	6	U	ug/kg
Benzo(b,k)fluoranthene	6	U	ug/kg	-			370	U	ug/kg	6	U	ug/kg
Chrysene + Benzo(a)anthracene	6	U	ug/kg	-			370	U	ug/kg	6	U	ug/kg
Fluoranthrene	6	U	ug/kg	.5	U	ug/l	370	U	ug/kg	.3	U	ug/kg
Fluorene	6	U	ug/kg	.5	U	ug/l	370	U	ug/kg	6	U	ug/kg
Indeno(1,2,3-cd)pyrene+Dibenzo	6	U	ug/kg	-			370	U	ug/kg	6	U	ug/kg
Naphthalene	120		ug/kg	1	U	ug/l	370	U	ug/kg	6	U	ug/kg
Phenanthrene + Anthracene	6	U	ug/kg	-			370	U	ug/kg	6	U	ug/kg
Pyrene	6	U	ug/kg	.5	U	ug/l	370	U	ug/kg	6	U	ug/kg
1-Methylnaphthalene	24		ug/kg	1	U	ug/l	370	U	ug/kg	6	U	ug/kg
2-Methylnaphthalene	49		ug/kg	1	U	ug/l	370	U	ug/kg	6	U	ug/kg

BUILDING 7174
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S776969-1			S776969-3		
Site	7174			7174		
Locator	OLD 7174/AB-22			OLD 7174/AB-40		
Collect Date:	09-DEC-97			09-DEC-97		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
EPA 601						
Bromodichloromethane	-			-		
Bromoform	-			-		
Bromomethane	-			-		
Carbon tetrachloride	-			-		
Chlorobenzene	-			-		
Chloroethane	-			-		
2-Chloroethylvinyl ether	-			-		
Chloroform	-			-		
Chloromethane	-			-		
Dibromochloromethane	-			-		
1,2-Dichlorobenzene	-			-		
1,3-Dichlorobenzene	-			-		
1,4-Dichlorobenzene	-			-		
Dichlorodifluoromethane	-			-		
1,1-Dichloroethane	-			-		
1,2-Dichloroethane	-			-		
1,1-Dichloroethene	-			-		
Cis/Trans-1,2-Dichloroethene	-			-		
1,2-Dichloropropane	-			-		
cis-1,3-Dichloropropene	-			-		
trans-1,3-Dichloropropene	-			-		
Methylene chloride	-			-		
1,1,2,2-Tetrachloroethane	-			-		
Tetrachloroethene	-			-		
1,1,1-Trichloroethane	-			-		
1,1,2-Trichloroethane	-			-		
Trichloroethylene	-			-		
Trichlorofluoromethane	-			-		
Vinyl chloride	-			-		
EPA 602						
Benzene	1100	UX	ug/kg	5	U	ug/kg
Toluene	28000		ug/kg	5	U	ug/kg
Ethylbenzene	18000		ug/kg	5	U	ug/kg
Xylenes (total)	140000		ug/kg	5	U	ug/kg
Methyl tert-butyl ether	7200		ug/kg	50	U	ug/kg
EPA 504						
1,2-Dibromoethane (EDB)	-			-		

BUILDING 7174
NTC ORLANDO, FLORIDA, MCCOY ANNEX

Lab Sample Number:	S776969-1			S776969-3		
Site	7174			7174		
Locator	OLD 7174/AB-22			OLD 7174/AB-40		
Collect Date:	09-DEC-97			09-DEC-97		
	VALUE	QUAL	UNITS	VALUE	QUAL	UNITS
PAH COMPOUNDS						
Acenaphthene	360	U	ug/kg	360	U	ug/kg
Acenaphthylene	360	U	ug/kg	360	U	ug/kg
Benzo(a)pyrene	360	U	ug/kg	360	U	ug/kg
Benzo(g,h,i)perylene	11	U	ug/kg	360	U	ug/kg
Benzo(b)fluoranthene	14		ug/kg	4.3	U	ug/kg
Benzo(k)fluoranthene	11	U	ug/kg	11	U	ug/kg
Chrysene	17		ug/kg	4.3	U	ug/kg
Benzo(a)anthracene	7.1		ug/kg	4.3	U	ug/kg
Fluoranthene	360	U	ug/kg	11	U	ug/kg
Fluorene	360	U	ug/kg	360	U	ug/kg
Indeno(1,2,3-cd)pyrene	11	U	ug/kg	11	U	ug/kg
Dibenzo(a,h)anthracene	22	U	ug/kg	22	U	ug/kg
Naphthalene	6700		ug/kg	360	U	ug/kg
Phenanthrene	11		ug/kg	4.3	U	ug/kg
Anthracene	4.4	U	ug/kg	4.3	U	ug/kg
Pyrene	360	U	ug/kg	360	U	ug/kg
1-Methylnaphthalene	4400		ug/kg	360	U	ug/kg
2-Methylnaphthalene	6700		ug/kg	360	U	ug/kg
LEAD						
Lead	-			-		
Flo Pro						
Petroleum Range Organics (Fl-P	190		mg/kg	11	U	mg/kg
Polynuclear Aromatics (8100)						
Acenaphthene	360	U	ug/kg	360	U	ug/kg
Acenaphthylene	360	U	ug/kg	360	U	ug/kg
Benzo(a)pyrene	360	U	ug/kg	360	U	ug/kg
Benzo(g,h,i)perylene	11	U	ug/kg	360	U	ug/kg
Benzo(b,k)fluoranthene	360	U	ug/kg	360	U	ug/kg
Chrysene + Benzo(a)anthracene	360	U	ug/kg	360	U	ug/kg
Fluoranthrene	360	U	ug/kg	11	U	ug/kg
Fluorene	360	U	ug/kg	360	U	ug/kg
Indeno(1,2,3-cd)pyrene+Dibenzo	360	U	ug/kg	360	U	ug/kg
Naphthalene	6700		ug/kg	360	U	ug/kg
Phenanthrene + Anthracene	360	U	ug/kg	360	U	ug/kg
Pyrene	360	U	ug/kg	360	U	ug/kg
1-Methylnaphthalene	4400		ug/kg	360	U	ug/kg
2-Methylnaphthalene	6700		ug/kg	360	U	ug/kg

Serial Number 01411

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

☐ 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
☐ 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (904) 878-3994 — Fax: (904) 878-9504
☐ 414 SW 12th Avenue, Deerfield Beach, FL 33442 — Phone: (954) 421-7400 — Fax: (954) 421-2584
☐ 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
☐ 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049
☐ 100 Alpha Drive, Suite 110, Destrehan, LA 70047 — Phone: (504) 764-1100 — Fax: (504) 725-1163

PROJECT REFERENCE:

PROJECT NO.: 2530-05

P.O. NUMBER: NE753143G LW 1/21/98

PAGE 1 OF 1

PROJECT LOC. (State): Bld 7174

SAMPLER(s) NAME: MiRNA BARQ

PHONE: 407-895-8845

FAX: 407-896-6150

CLIENT NAME: ABB-ES

CLIENT PROJECT MANAGER:

CLIENT ADDRESS (CITY, STATE, ZIP): 1080 Woodcock Rd Suite 100.

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due:

SAMPLE DATE	SAMPLE TIME	SL NO.	SAMPLE IDENTIFICATION	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (oil, solvent, etc)	EPA 601/602	EPA 5ml	EPA 610 *	EPA 239.2	FL PS					REMARKS
1-20-98	1035		old 7174 26/MW-26	✓				3	3	2	1	2					
1-20-98	1205		old 7174 26/MW-26D	✓				3	3	2	1	2					
1-20-98	1350		old 7174 31/MW-31	✓				3	3	2	1	2					
1-20-98	0835		old 7174 R3/RB3 Rinsey	✓				3	3	2	1	2					

* Analyze by 610 HPLC per Lorena Kandt 1/21/98 L.Wel

Two copies of Report & EDD to Lorena Kandt.
Invoice to Lorena Kandt.

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY (SIGNATURE)	DATE	TIME
				1-20-98	15:30			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SL LOG NO.	LABORATORY REMARKS:
	1/21/98	9:24	☑ YES ☐ NO		S8-80358	

Serial Number 05514

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

☐ 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
☐ 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (904) 878-3994 — Fax: (904) 878-9504
☐ 414 SW 12th Avenue, Deerfield Beach, FL 33442 — Phone: (954) 421-7400 — Fax: (954) 421-2584
☐ 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
☐ 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049
☐ 100 Alpha Drive, Suite 110, Destrehan, LA 70047 — Phone: (504) 764-1100 — Fax: (504) 725-1163

PROJECT REFERENCE: Bulby 7174
PROJECT NO.:
P.O. NUMBER: NE753143G
PROJECT LOC. (State): Fl.
SAMPLER(s) NAME: Mirna Barq
PHONE: 407-895-8845
FAX: 407-896-6150
CLIENT NAME: ABB-ES
CLIENT PROJECT MANAGER: John Kauser
CLIENT ADDRESS (CITY, STATE, ZIP): 1080 Woodcock Rd Suite 100

PAGE 1 OF 1

☐ STANDARD REPORT DELIVERY
☐ EXPEDITED REPORT DELIVERY (surcharge)
Date Due: 2 weeks

SAMPLE DATE	SAMPLE TIME	SL NO.	SAMPLE IDENTIFICATION	MATRIX TYPE: AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (oil, solvent, etc)	601/602	Fl PRO	EDB	610 HCLP	239.2						REMARKS
1-21-98	1015		old 717424/MW-24	✓				3	2	3	2	1						
1-21-98	1030		old 717430/MW-30	✓				3	2	3	2	1						
	1130		old 717428/MW-28	✓				3	2	3	2	1						
	1205		old 717425/MW-25	✓				3	2	3	2	1						
	1245		old 717429/MW-29	✓				3	2	3	2	1						
	1340		old 717427/MW-27	✓				3	2	3	2	1						
	1430		old 717416/MW-16	✓				3	2	3	2	1						

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	1/12/98	1600	[signature]	1-21-98	1620			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[signature]								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SL LOG NO.	LABORATORY REMARKS:
M Ganamah	1/22/98	9:37	☑ YES ☐ NO		98 30389	

Serial Number 00010

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

[ ] 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
[ ] 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (904) 878-3994 — Fax: (904) 878-9504
[ ] 414 SW 12th Avenue, Deerfield Beach, FL 33442 — Phone: (954) 421-7400 — Fax: (954) 421-2584
[ ] 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
[ ] 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049
[ ] 100 Alpha Drive, Suite 110, Destrehan, LA 70047 — Phone: (504) 764-1100 — Fax: (504) 725-1163

PROJECT REFERENCE: Building 7174
PROJECT NO.:
P.O NUMBER: NE 7531436
PAGE 1 OF 1

PROJECT LOC. (State): Fl.
SAMPLER(s) NAME: Mark Todaro
PHONE: 407-891-8845
FAX: 407-896-6150

CLIENT NAME: ABB-ES
CLIENT PROJECT MANAGER: John Kaiser

CLIENT ADDRESS (CITY, STATE, ZIP): 1080 Woodcock Road Suite 100 Orlando, FL 32803

[ ] STANDARD REPORT DELIVERY
[ ] EXPEDITED REPORT DELIVERY (surcharge)
Date Due: 2 weeks

SAMPLE DATE	SAMPLE TIME	SL NO.	SAMPLE IDENTIFICATION	MATRIX TYPE: AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (oil, solvent, etc)	601/602	Fl pro	EDB	Wolitile	239.2						REMARKS
								NUMBER OF CONTAINERS SUBMITTED										
1-22-98	10:52		OLD 7174 19/ MW-19	✓				3	2	3	2	1						
1-22-98	11:20		OLD 7174 14/ MW-14	✓				3	2	3	2	1						

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
S. Campbell	1/17/98	600	Mark Todaro	1/22/98	1600			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SL LOG NO.	LABORATORY REMARKS:
N Dimmich	1/23/98	10:30	☑ YES ☐ NO		98-0427	

Serial Number 05510

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

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☐ 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (904) 878-3994 — Fax: (904) 878-9504
☐ 414 SW 12th Avenue, Deerfield Beach, FL 33442 — Phone: (954) 421-7400 — Fax: (954) 421-2584
☐ 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
☐ 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049
☐ 100 Alpha Drive, Suite 110, Destrehan, LA 70047 — Phone: (504) 764-1100 — Fax: (504) 725-1163

PROJECT REFERENCE: B1A 7174
PROJECT NO.:
P.O NUMBER:
PAGE 1 OF 1

PROJECT LOC. (State):
SAMPLER(s) NAME: MIRNA BARA
PHONE: 407-895-8845
FAX: 407-896-6150

CLIENT NAME: ABB-ES
CLIENT PROJECT MANAGER: John Kaiser
CLIENT ADDRESS (CITY, STATE, ZIP):

☐ STANDARD REPORT DELIVERY
☐ EXPEDITED REPORT DELIVERY (surcharge)
Date Due: 2 wks

SAMPLE DATE	SAMPLE TIME	SL NO.	SAMPLE IDENTIFICATION	MATRIX TYPE: AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (oil, solvent, etc)	601/602	EDB	EL PRO	610 HCl	[illegible]						REMARKS
1-23-98	1035		old 717418 / MW-18	✓				3	3	2	2	1						
1-23-98			old 717423 / MW-23	✓				3	3	2	2	1						

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	1-23-98							
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SL LOG NO.	LABORATORY REMARKS:
	1/24/98	10:35	☐ YES ☐ NO		98-80446	

SL SAVANNAH LABORATORIES
ENVIRONMENTAL SERVICES, INC.

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2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (904) 878-3994 — Fax: (904) 878-9504
414 SW 12th Avenue, Deerfield Beach, FL 33442 — Phone: (954) 421-7400 — Fax: (954) 421-2584
900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049
100 Alpha Drive, Suite 110, Destrehan, LA 70047 — Phone: (504) 764-1100 — Fax: (504) 725-1163

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
NTC	02530-05	NE 7-53-1436

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
Bld 200	MIRNA BARQ.	407 895-8845	407 896-6150

CLIENT NAME: ABB-ES

CLIENT PROJECT MANAGER:

CLIENT ADDRESS (CITY, STATE, ZIP): 2004 South Prince Winter Park Fl 32792

MATRIX TYPE: AQUEOUS (WATER) / SOLID OR SEMISOLID / AIR / NONAQUEOUS LIQUID (oil, solvent, etc)

REQUIRED ANALYSES: EPA 601/602 | EPA 504 | EPA 610 HCP | EPA 239.2 | SL pro.

PAGE ___ OF ___

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due:

SAMPLE DATE	SAMPLE TIME	SL NO.	SAMPLE IDENTIFICATION	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID	EPA 601/602	EPA 504	EPA 610 HCP	EPA 239.2	SL pro.					REMARKS
3-18-98	11.00		old 717432/DW-32	✓				3	3	2	1	2					250 ml for lead was rec. empty- sample was taken from unpres. liter cont. for use. 3-19-98 BK approved by Mirna Barq 3-20-98 BK
			Trip Blank					✓	analyze per Mirna Barq 3-20-98 BK								

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3/13/98	4:00	[signature]	3-18-98	3:50			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SL LOG NO.	LABORATORY REMARKS:
C. Vasquez	3/19/98	9:56	☑ YES ☐ NO		S8-81533	

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

☐ 5102 LaRoche Avenue, Savannah, GA 31404 Phone: (912) 354-7858 Fax: (912) 352-
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☐ 414 SW 12th Avenue, Deerfield Beach, FL 33442 Phone: (305) 421-7400 Fax: (305) 421-2584
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☐ 100 Alpha Drive, Suite 110, Destrehan, LA 70047 Phone: (504) 764-1100 Fax: (504) 725-1163

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
~~ABB-ES~~ Site 7174	0253005	

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE / FAX
	MiRNA BARQ	PHONE 407-895-8845 FAX 407-896-6150

CLIENT NAME	CLIENT PROJECT MANAGER
ABB-ES	John Rauser.

CLIENT ADDRESS (CITY, STATE, ZIP): 1080 Woodcock Rd Orlando.

MATRIX TYPE: AQUEOUS (WATER) / SOLID OR SEMISOLID / AIR / NONAQUEOUS LIQUID (oil, solvent, etc)

REQUIRED ANALYSES: 8020 (125mL, 250mL) / 8100, FIPro (125mL, 250mL) / 1312

PAGE 1 OF 1

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: 2 weeks from today

SAMPLE DATE	SAMPLE TIME	SL NO.	SAMPLE IDENTIFICATION	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID	8020 125mL	8020 250mL	8100, FIPro 125mL	8100, FIPro 250mL	1312							REMARKS
12-9-97	1235		AB-22		✓			1	1	2									4 Jars, 2 125 & 2 250
~~12-9-97~~	~~1235~~		~~AB-22~~		✓														
12-9-97	1305		AB-12		✓			1	1	2									4 Jars.
~~12-9-97~~	~~1305~~		~~AB-12~~		✓														
12-9-97	1320		AB-40		✓			1	1										2 Jars

Per Mirna Barq submit invoice & report to Sherena Kardt. Modify IDS putting OUD 7174 infront of AB.
1-12-98 BK

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
S. Campbell	12/8/97	10:30	[signature]	12-9-97	1602			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SL LOG NO.	LABORATORY REMARKS:
[signature]	12/10/97	9:15	☑ YES ☐ NO		97-76969	Confirmed with Mirna Barq - Method 8100 is desired not 8310. L. Wolfe 12/.../97

APPENDIX H

MASS DISTRIBUTION CALCULATIONS

PROJECT	COMP. BY	JOB NO.
Total hydrocarbon Mass dissolved in groundwater.	CHK. BY	DATE

Refer to Attachment H figure 1

$Area_1 = \pi R^2 \Rightarrow R(90)\ feet = 25434\ ft^2$

$Area_2 = \pi R^2 \Rightarrow R(60)\ feet = 11304\ ft^2$

$Area_3 = L \times W = (70\ feet \times 30\ feet) = 2100\ ft^2$

Cumulative Area $CA_1 = Area_1 - Area_2 = 25434 - 11304 = 14130\ ft^2$

$CA_2 = Area_2 - Area_3 = 11304 - 2100 = 9204\ ft^2$

$CA_3 = Area_3 = 2100\ ft^2$

water depth = 6 feet.

depth to the saturated column using the top of the screen interval in the deep well (old 7174-32) (30 feet). $\Rightarrow 30 - 6 = 24$ feet

water volume = Cumulative Area 1 x depth = $14130\ ft^2 \times 24\ ft$
$= 339120\ ft^3$

prosity = 0.35 $\Rightarrow$ water volume = $339120\ ft^3 \times 0.35 = 118692\ ft^3$

water volume in Liters = $118692\ ft^3 \times 7.4805 \frac{gal}{ft^3} = 887875\ gal$

$= 887875\ gal \times \frac{Liters}{gal}\ 3.785 = 3360608\ Lit$

Total hydrocarbon in CA, using the total hydrocarbon Concentrat at (old. 7174-31)

Total hydrocarbon in $CA_1 = 77 \frac{ug}{l} \div 1{,}000{,}000 \frac{ug}{g} = 0.000077 \frac{g}{l}$

$= 0.000077 \frac{g}{l} \times 3360608\ l = 259$ grams

259 grams $\div 1{,}000 \frac{grams}{Kg} = 0.259$ Kg

Total hydrocarbons in CA_1 in Kg = 0.26 Kg.

PROJECT	COMP. BY	JOB NO.
Total hydrocarbon sorbed tosoil	CHK. BY	DATE

Refer to Attachment H Figure 1

$Area_1 = \pi R^2 \Rightarrow R = 60 \text{ feet} = 11309 \text{ ft}^2$

$Area_2 = L \times W = 70 \times 30 = 2100 \text{ feet}^2$

$Area_1 = Area_2 - Area_1 = 11309 - 2100 = 9209 \text{ ft}^2$

$Volume_1 = 9209 \text{ feet}^2 \times 6 \text{ feet} = 55254 \text{ ft}^3 = 2046 \text{ yd}^3$

$2046 \text{ yd}^3 \times 1.4 \frac{\text{Tons}}{\text{yd}^3} = 2865 \text{ Tons}$

$2865 \text{ Tons} \times 907.186 \frac{\text{Kg}}{\text{Tons}} = 2599033$

using The Total Concentration from The laboratory Analytical for AB-12 as The medium level = 17.15 mg/Kg.

Total hydrocarbon $= 17.15 \text{ mg/Kg} \times 2599.033 \text{ Kg} = 44573425 \text{ mg}$

$= \frac{1 \text{ Kg}}{1{,}000{,}000 \text{ mg}} \times 44573425 \text{ mg} = 44 \text{ Kg}$

$Area_2 = L \times W = 70 \times 30 = 2100 \text{ ft}^2$

Volume $= 2100 \text{ ft}^2 \times 8 \text{ feet} = 16800 \text{ ft}^3 = 622 \text{ yd}^3$

$= 622 \text{ yd}^3 \times 1.4 \frac{\text{Tons}}{\text{yd}^3} = 871 \text{ Tons}$

Total hydrocarbons in Kg $= 871 \text{ Tons} \times 907.186 \frac{\text{Kg}}{\text{Tons}} = 790259.8 \text{ Kg}$

using The total Concentration from The Laboratory analytical for AB-22 as The High level $= 384.4 \frac{\text{mg}}{\text{Kg}}$

Total hydrocarbon $= 384.4 \frac{\text{mg}}{\text{Kg}} \times 790259.8 \text{ Kg} = 303775867 \text{ mg}$

Total hydrocarbon Kg $= 303775867 \text{ mg} \times \frac{1 \text{ Kg}}{1{,}000{,}000 \text{ mg}} = 303.7 \text{ Kg}$

$$\boxed{\text{Total Area} = Area_1 + Area_2 = 44 + 304 = 348 \text{ Kg}}$$

PROJECT	COMP. BY	JOB NO.
total hydrocarbon mass dissolved in groundwater (continued).	CHK. BY	DATE

water volume 2 = Cumulative Area 2 x depth
= 9204 feet^2 x 24 ft = 220896 ft^3

prosity = 0.35 => 220896 ft^3 x 0.35 = 77313 ft^3.

water volume 2 in liters = 77313 ft^3 x 7.4805 $\frac{gal}{ft^3}$ = 578344 gal
= 578344 gal x 3.785 $\frac{liters}{gal}$ = 2189033 liters

Total hydrocarbons in CA2 using the total hydrocarbon Concentration in Area CA2 at (old 7174-30) = 1475 ug/L

Total hydrocarbon in CA2 in Kg = 1475 $\frac{ug}{L}$ ÷ 1,000,000 $\frac{ug}{g}$
= 0.001475 $\frac{g}{L}$ x 2189033 L

Total hydrocarbon in CA2 in Kg = 3229 g ÷ 1,000 $\frac{g}{Kg}$ = 3.22 Kg

water volume 3 = Cumulative Area 3 x depth = 2100 ft^2 x 24 ft = 50400 ft^3

prosity 0.35 => 50400 ft^3 x 0.35 = 17640 ft^3

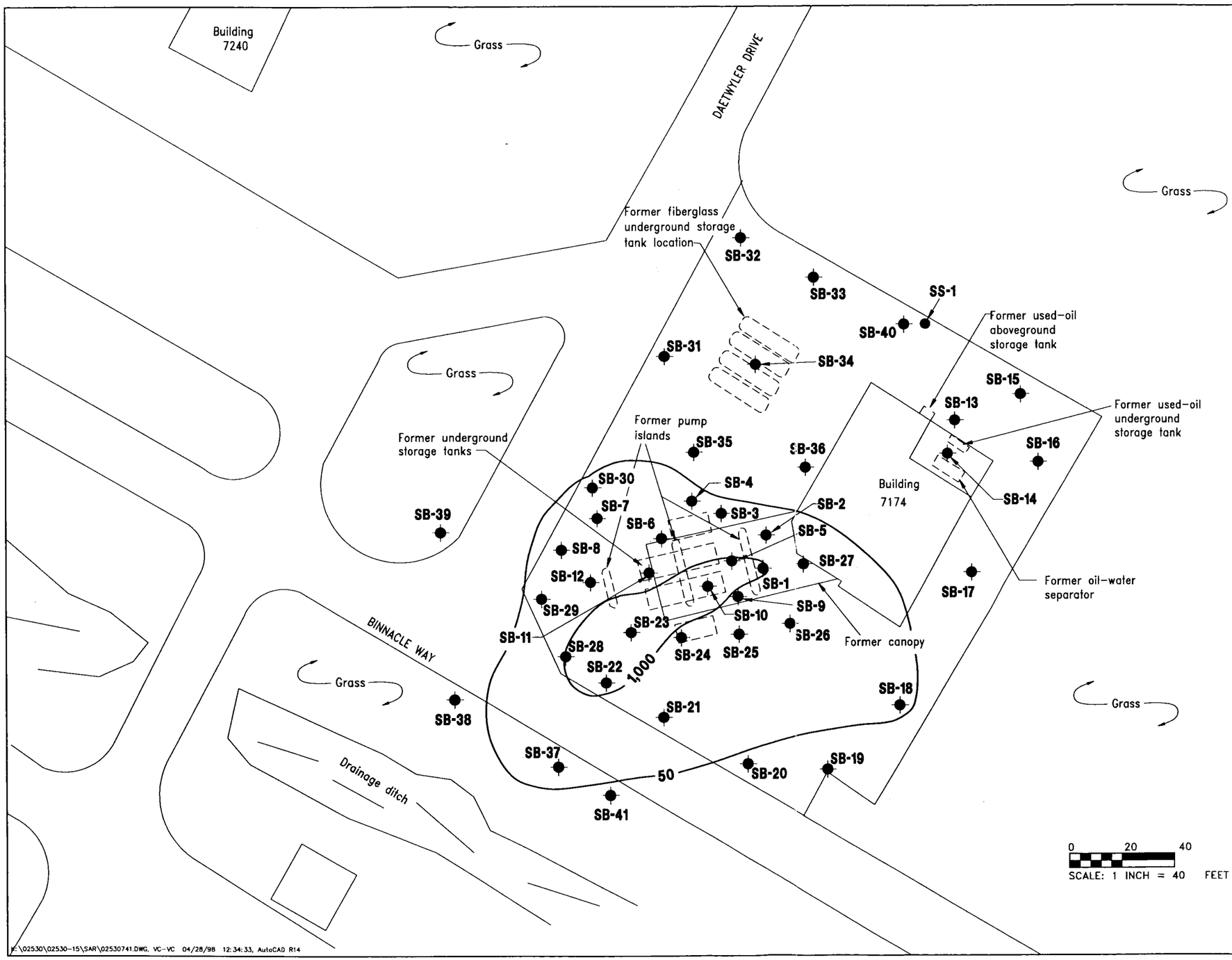
water volume 3 in liters = 17640 ft^3 x $\frac{7.4805\ gal}{ft^3}$ = 131956 gal
= 131956 gal x 3.785 $\frac{L}{gal}$ = 499453 L

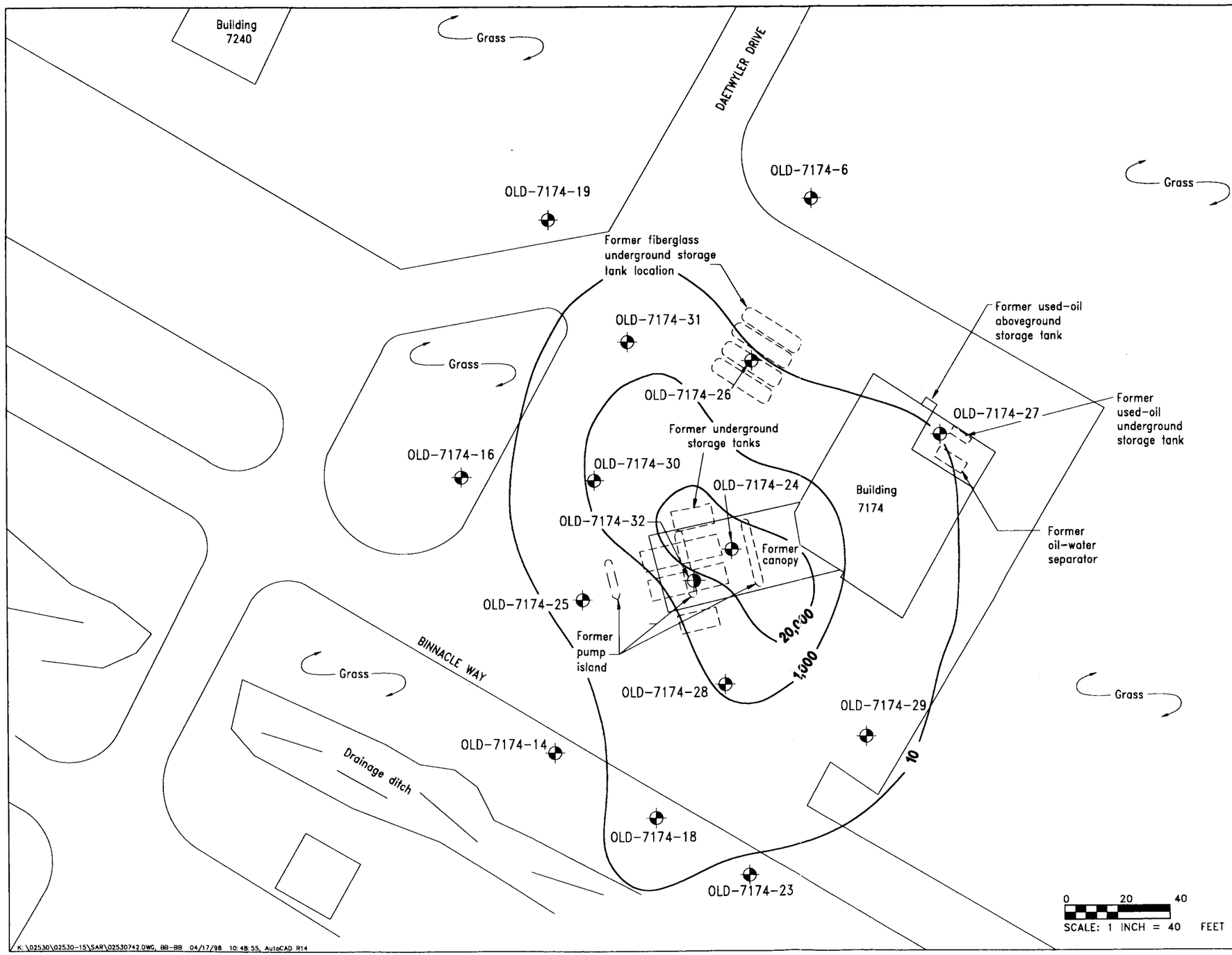
Total hydrocarbon using the total hydrocarbon Concentration in Area 3 at (old 7174-24) = 20270 $\frac{ug}{L}$

CA3 = 20270 $\frac{ug}{L}$ ÷ 1,000,000 $\frac{ug}{gram}$ = 0.02027 $\frac{gram}{L}$
= 0.02027 $\frac{gram}{L}$ x 499453 L = 10124 grams = 10.12 k

Total hydrocarbon for the areas CA1 + CA2 + CA3 in Kg.

$$\boxed{0.25 + 3.22 + 10.12 = 13.6\ Kg}$$


Building 7240
Grass
DAETWYLER DRIVE
Former fiberglass underground storage tank location
SB-32
SB-33
SS-1
SB-40
Former used-oil aboveground storage tank
SB-31
SB-34
SB-15
SB-13
Former used-oil underground storage tank
Former pump islands
SB-35
SB-36
SB-16
Former underground storage tanks
SB-30
SB-4
Building 7174
SB-14
SB-39
SB-7
SB-3
SB-2
SB-6
SB-5
SB-8
SB-27
SB-12
SB-1
SB-17
Former oil-water separator
SB-29
SB-9
SB-10
SB-23
SB-26
SB-11
SB-28
SB-24
SB-25
Former canopy
BINNACLE WAY
SB-22
1,000
SB-18
SB-38
SB-21
SB-37
50
SB-20
SB-19
Drainage ditch
SB-41
N
0 20 40
SCALE: 1 INCH = 40 FEET
LEGEND
SB-22 Soil boring location and designation
SS-1 Deep soil boring location and designation
50 Hydrocarbon concentration contour (value in parts per million)
FIGURE H-1
MASS OF TOTAL HYDROCARBON
SITE ASSESSMENT REPORT
BUILDING 7174
MCCOY ANNEX
NAVAL TRAINING CENTER
ORLANDO, FLORIDA
H:\02530\02530-15\SAR\02530741.DWG, VC-VC 04/28/98 12:34:33, AutoCAD R14



LEGEND

OLD-7174-28	Existing monitoring well location and designation
OLD-7174-32	Deep monitoring well location and designation
10	Hydrocarbon concentration countour (concentration in parts per million)

FIGURE H-2
MASS OF TOTAL HYDROCARBON IN THE GROUNDWATER

SITE ASSESSMENT REPORT
BUILDING 7174
MCCOY ANNEX

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

K:\02530\02530-15\SAR\02530742.DWG, BB-BB 04/17/98 10:48:55, AutoCAD R14