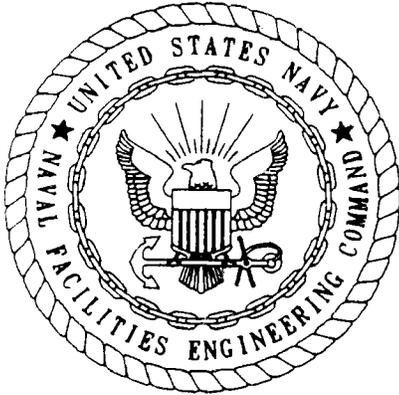


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CONTAMINATION ASSESSMENT REPORT ADDENDUM SITE 7 UNDERGROUND
STORAGE TANK 122 (UST 122) NAVAL AVIATION DEPOT NAS PENSACOLA FL
11/1/1995
ABB ENVIRONMENTAL SERVICES INC.



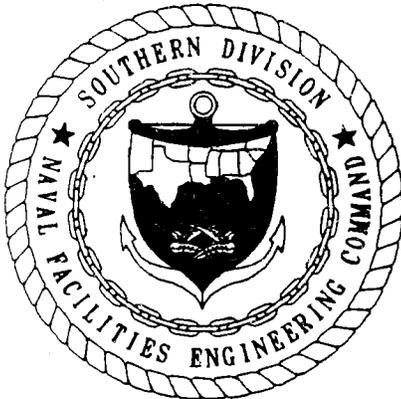
CONTAMINATION ASSESSMENT REPORT ADDENDUM

**SITE 7, UST 122
NAVAL AVIATION DEPOT**

**NAVAL AIR STATION
PENSACOLA, FLORIDA**

**UNIT IDENTIFICATION CODE: N00204
CONTRACT NO.: N62467-89-D-0317/008**

NOVEMBER 1995



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

CONTAMINATION ASSESSMENT REPORT ADDENDUM

**SITE 7, UST 122
NAVAL AVIATION DEPOT**

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Unit Identification Code: N00204

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Prepared by:

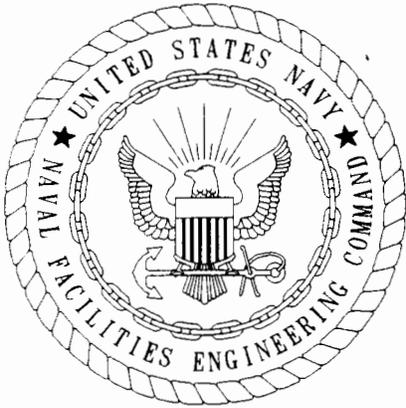
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Prepared for:

**Department of the Navy, Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29418**

Byas Glover, Code 18410, Engineer-in-Charge

November 1995



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-0317/008 are complete and accurate and comply with all requirements of this contract.

DATE: November 14, 1995

NAME AND TITLE OF CERTIFYING OFFICIAL: Mark Diblin, P.G.
Task Order Manager

NAME AND TITLE OF CERTIFYING OFFICIAL: Michael J. Williams, P.G.
Project Technical Lead

(DFAR 252.227-7036)



FOREWORD

To meet its mission objectives, the U.S. Navy performs a variety of operations, some requiring the use, handling, storage, or disposal of hazardous materials. Through accidental spills and leaks and conventional methods of past disposal, hazardous materials may have entered the environment in ways unacceptable by today's standards. With growing knowledge of the long-term effects of hazardous materials on the environment, the Department of Defense initiated various programs to investigate and remediate conditions related to suspected past releases of hazardous materials at their facilities.

One of these programs is the Comprehensive Long-Term Environmental Action, Navy Underground Storage Tank (UST) program. This program complies with Subtitle I of the Resource Conservation and Recovery Act and the Hazardous and Solid Waste Amendments of 1984. In addition, the UST program complies with all appropriate State and local storage tank regulations as they pertain to each naval facility.

The UST program includes the following activities:

- registration and management of Navy and Marine Corps storage tank systems,
- contamination assessment planning,
- site field investigations,
- preparation of contamination assessment reports,
- remedial (corrective) action planning,
- implementation of the remedial action plans, and
- tank and pipeline closures.

The Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM) manages the UST program, and the U.S. Environmental Protection Agency (USEPA) and

the Florida Department of Environmental Protection; (formerly Florida Department of Environmental Regulation) oversee the Navy UST program at Naval Aviation Depot (NADEP) Pensacola.

Questions regarding the UST program at NADEP Pensacola should be addressed to Mr. Byas Glover, SOUTHNAVFACENCOM, Code 18410, at (803) 743-0651.

ACKNOWLEDGMENTS

In preparing this report, the Underground Storage Tank Section of the Comprehensive Long-Term Environmental Action, Navy Group at ABB Environmental Services, Inc., commends the support, assistance, and cooperation provided by the personnel at Naval Aviation Depot, Naval Air Station, Pensacola, Florida, and Southern Division, Naval Facilities Engineering Command.

EXECUTIVE SUMMARY

This report is an addendum to the Aviation Gasoline (AVGAS) Pipeline Area Contamination Assessment Report (CAR) submitted by ABB Environmental Services, Inc. (ABB-ES), in August 1995. General information such as regional and local physiography, regional hydrology, investigative methodologies, and supplemental reports and memoranda are included in the August 1995 AVGAS Pipeline Area CAR.

Site 7 is the former location of a 500-gallon underground storage tank (UST) located on the southern portion of the western boundary of Chevalier Field, Naval Aviation Depot (NADEP) Pensacola. The tank, designated UST 122, was located next to Industrial Road, approximately 150 feet north of Murray Road. UST 122 was constructed of unprotected steel and contained a lubricating oil. It was installed next to a steel containment area referred to by site personnel as an "oil pit." The purpose of the pit is uncertain, although its suspected use was to dispense lube oil and air during aircraft maintenance.

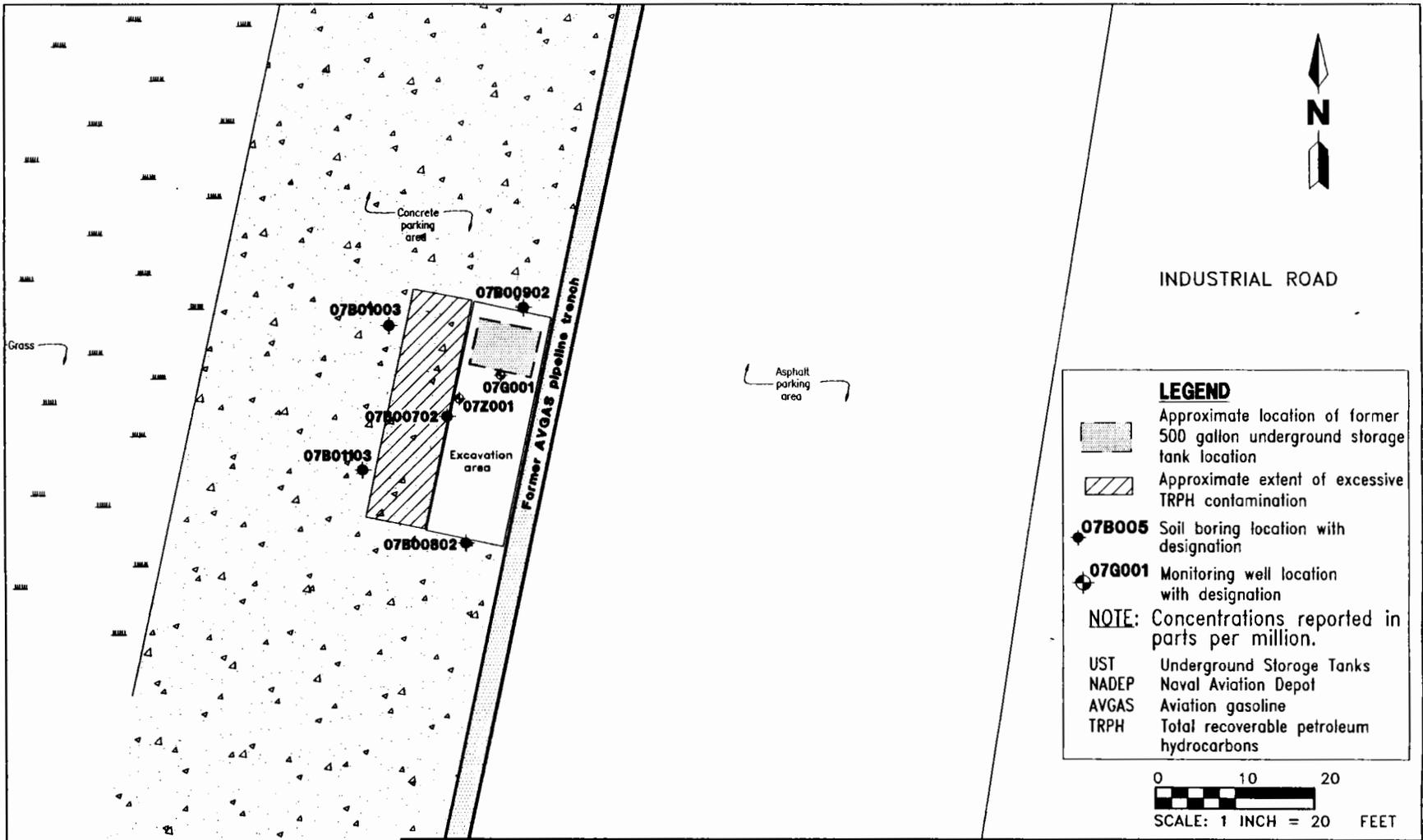
During the UST 122 removal in September 1994, visual observation of soil contamination was reported. No confirmatory analytical soil samples were collected during removal activities. All excavated soil was returned to the excavation. Site 7, UST 122, was transferred to ABB-ES in late September 1994 for investigation and closure.

Findings.

- Site soil consists of a mixture of fill material and fine-grained, well-sorted, yellowish-brown sand. Fill material is composed of fine-grained sand mixed with asphalt and brick cobbles, smelting slag, and metal fragments.
- The source of petroleum contamination, UST 122, has been removed.
- Excessively contaminated soil previously returned to the tank excavation area has been removed.
- Five confirmatory analytical soil samples were collected from the UST 122 excavation area. The total recoverable petroleum hydrocarbons (TRPH) concentration in confirmatory soil sample 07B00702, from the western edge of the excavation, exceeded the State clean soil maximum concentration of 50 parts per million Florida Department of Environmental Protection, May 1994). The executive summary figure presents the areal extent of TRPH-contaminated soil.
- No petroleum-related contaminants detected in the groundwater sample collected from monitoring well 07G001 exceeded State target levels listed in Chapter 62-770.730(5), Florida Administrative Code (FAC).

Conclusions. Based on the findings of the contamination assessment and site conditions, the following can be concluded:

- Approximately 8 cubic yards of excessively contaminated soil as defined in Chapter 62-775.400, FAC, is present on the west side of the UST 122 excavation.

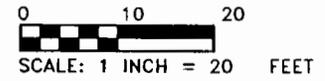


LEGEND

-  Approximate location of former 500 gallon underground storage tank location
-  Approximate extent of excessive TRPH contamination
-  **07B005** Soil boring location with designation
-  **07G001** Monitoring well location with designation

NOTE: Concentrations reported in parts per million.

UST Underground Storage Tanks
 NADEP Naval Aviation Depot
 AVGAS Aviation gasoline
 TRPH Total recoverable petroleum hydrocarbons



EXECUTIVE SUMMARY FIGURE



**CONTAMINATION ASSESSMENT
REPORT ADDENDUM
SITE 7, UST 122**

**NADEP PENSACOLA
PENSACOLA, FLORIDA**

- The groundwater at Site 7 has not been impacted by the soil contamination detected during this investigation.

Recommendations. ABB-ES recommends that the contaminated soil be left in place for the following reasons:

- The volume of excessively contaminated soil is small.
- Site groundwater has not been impacted by the soil contamination.
- The Site 7 area has been covered with 3 to 4 feet of clean fill and capped with asphalt.
- Construction activities at Site 7 have obliterated any site landmarks or means of finding the area of contaminated soil at a later time.

A No Further Action proposal is recommended for Site 7.

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Site 7, UST 122, Naval Aviation Depot
Pensacola, Florida

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- Appendix A: GT Environmental Services (GTES) Correspondence
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Contamination Assessment Report Addendum
Site 7, UST 122, Naval Aviation Depot
Pensacola, Florida

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GLOSSARY

ABB-ES	ABB Environmental Services, Inc.
AVGAS	aviation gasoline
BEI	Bechtel Environmental, Inc.
bdl	below detection limits
bls	below land surface
BRAC	base realignment and closure
CA	contamination assessment
CAR	Contamination Assessment Report
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
GTES	GT Environmental Services
MCL	maximum contaminant level
NADEP	Naval Aviation Depot
PAH	polynuclear aromatic hydrocarbons
ppb	parts per billion
ppm	parts per million
SOUTHNAV- FACENCOM	Southern Division, Naval Facilities Engineering Command
TIC	tentatively identified compound
TRPH	total recoverable petroleum hydrocarbons
USEPA	U.S. Environmental Protection Agency
UST	underground storage tank
VOA	volatile organic aromatics
yd ³	cubic yard

1.0 SITE BACKGROUND AND DESCRIPTION

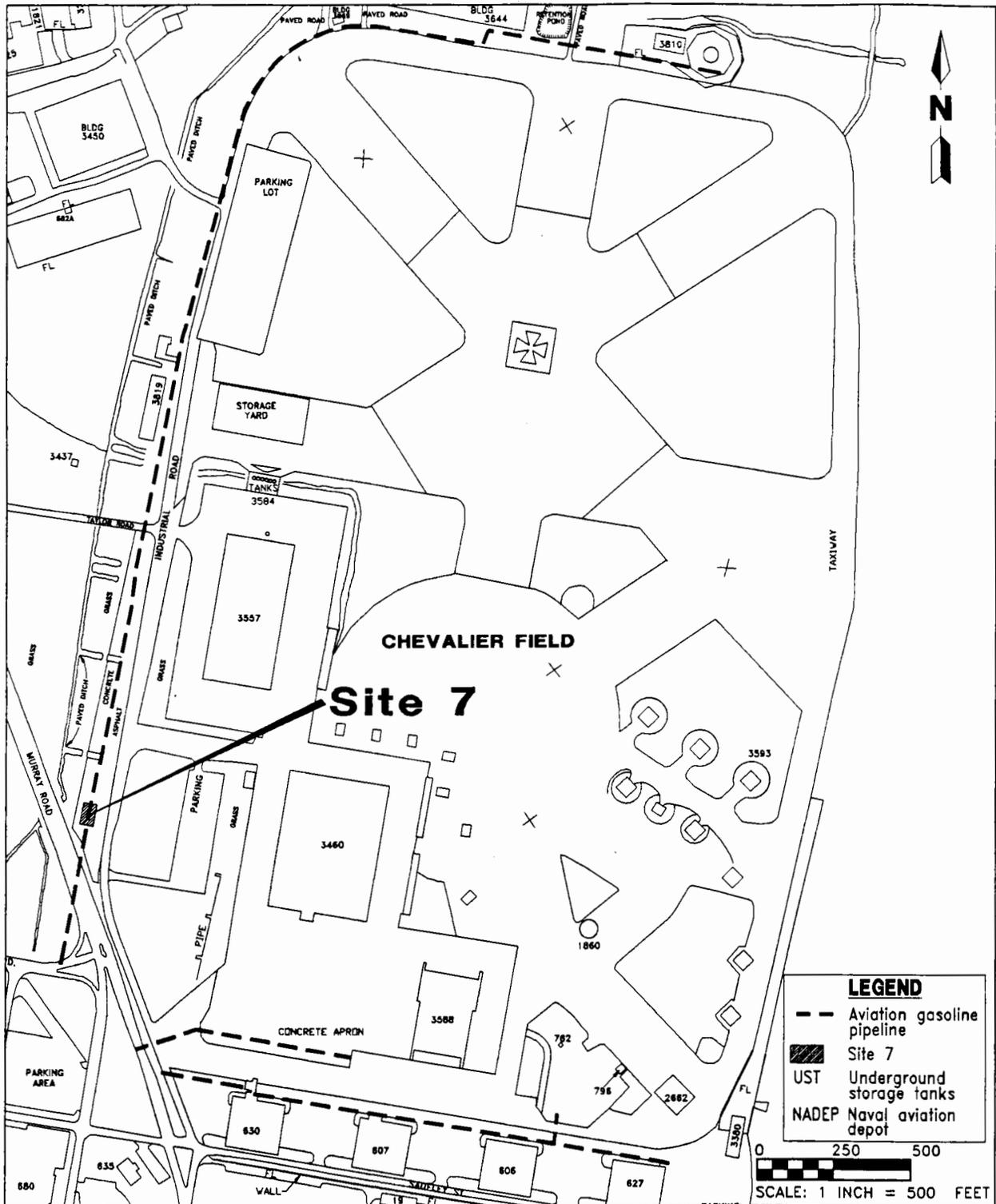
Site 7 is located on the southern section of the western boundary of Chevalier Field, Naval Aviation Depot (NADEP) Pensacola (Figure 1-1). It is the former location of a 500-gallon underground storage tank (UST) associated with the aviation gasoline (AVGAS) pipeline (Figure 1-2). The tank, designated UST 122, was located approximately 60 feet west of Industrial Road and 150 feet north of Murray Road. UST 122 was constructed of unprotected steel and contained lubricating oil. It was installed next to a steel containment area referred to by site personnel as an "oil pit." At the time of removal, this oil contained a variety of piping, valves, and a rubber hose on a steel reel. The purpose of the pit is uncertain, although its suspected use was to dispense lube oil and air during aircraft maintenance.

UST 122 was removed in September 1994 by Phoenix Construction Company and their subcontractor, GT Environmental Services, Inc. (GTES). During the tank removal operations, a visual observation of soil contamination was reported by GTES personnel. No confirmatory samples were collected. All excavated soil was returned to the excavation after UST 122 was removed.

Site 7, UST 122, was transferred to ABB Environmental Services, Inc. (ABB-ES), for closure. The closure report for UST 122 is presented in Appendix A of the AVGAS Pipeline Area Contamination Assessment Report (CAR) submitted by ABB-ES in August 1995. Because soil contamination had been observed, a discharge reporting form was filed with the closure report. The discharge reporting form is also included in Appendix A of the August 1995 AVGAS Pipeline Area CAR.

The demolition of Chevalier Field commenced in January 1995. The airfield and many of its associated facilities are being demolished as part of the Base Realignment and Closure (BRAC) program. A Naval Technical Training Center is being constructed on the former airfield. As a result of BRAC construction, Site 7 underwent significant changes during the investigation. The maps included in this report present the Site 7 area as it was prior to demolition and construction.

The following report summarizes the data gathered during Site 7, UST 122, closure and subsequent contamination assessment (CA). General information such as regional and local physiography, regional hydrology, investigative methodologies, and procedures are included in the August 1995 AVGAS Pipeline Area CAR.



**FIGURE 1-1
SITE LOCATION MAP**



**CONTAMINATION ASSESSMENT
REPORT ADDENDUM
SITE 7, UST 122**

**NAVAL AVIATION DEPOT
PENSACOLA, FLORIDA**

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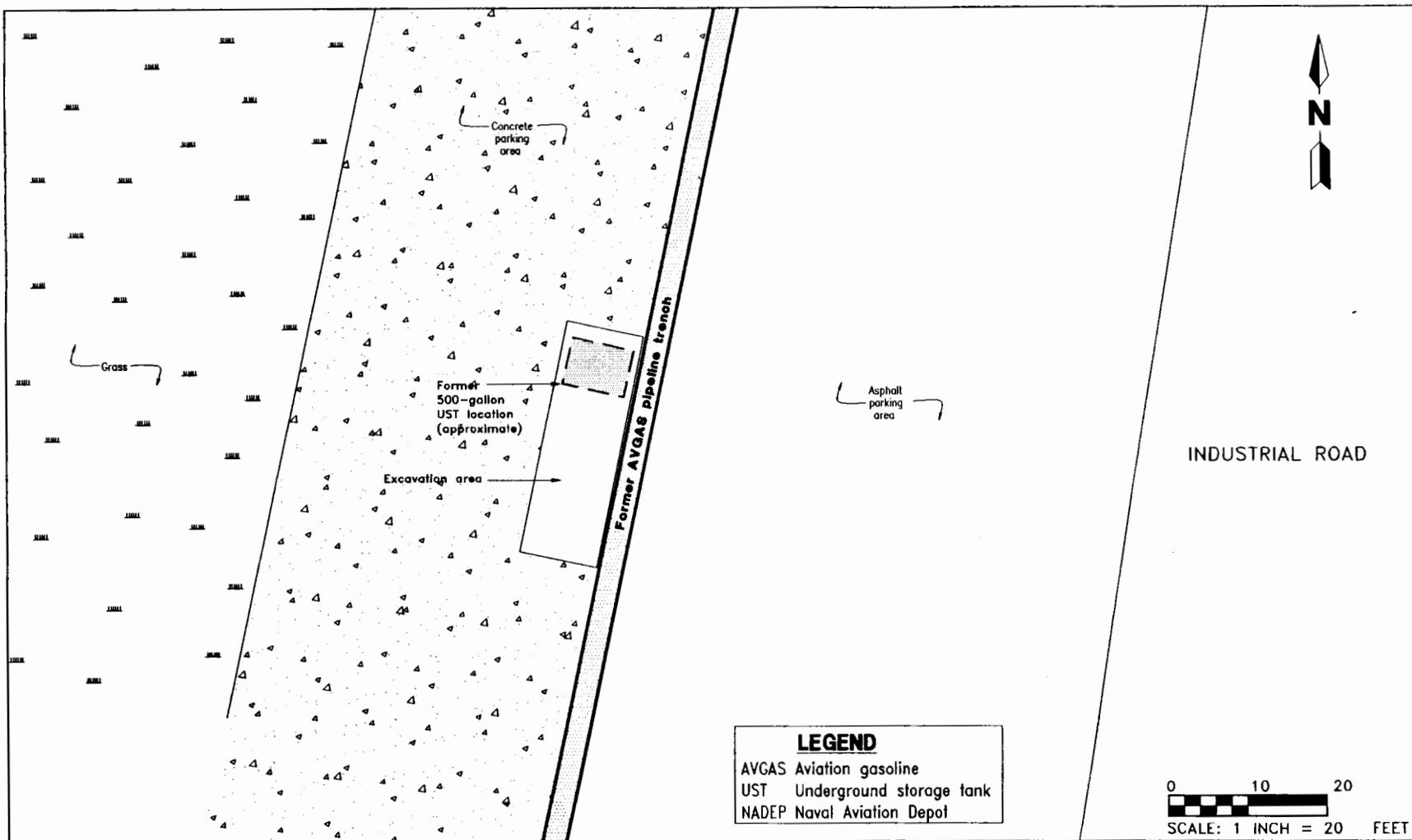


FIGURE 1-2
SITE PLAN, MARCH 1995



**CONTAMINATION ASSESSMENT
REPORT ADDENDUM
SITE 7, UST 122**

**NADEP PENSACOLA
PENSACOLA, FLORIDA**

2.0 CONTAMINATION ASSESSMENT RESULTS

2.1 SOIL ASSESSMENT RESULTS. All laboratory soil samples were collected in accordance with ABB-ES's approved Comprehensive Quality Assurance Plan using a hand-operated auger. Samples were placed in the appropriate containers, labeled, packed on ice, and shipped by overnight carrier to Quanterra Environmental Services in Tampa, Florida, for analysis.

2.1.1 Initial Soil Assessment In October 1994, ABB-ES personnel advanced five soil borings (07B001 through 07B005) around the perimeter of the UST 122 excavation area with a stainless steel hand-operated auger. Two soil borings from Site 23, Site23-SB43 and Site23-SB44, were also used as data points for this investigation. The purpose of these borings was to gather lithologic information and visually inspect the soil around the excavation for contamination. Visual inspection revealed soil staining on the north edge of the excavation. Table 2-1 summarizes the data collected from these borings. Figure 2-1 presents the lithologic soil boring locations. Lithologic logs are presented in Appendix B of this report.

Table 2-1
Summary of Lithologic Soil Boring Data,
September and October 1994

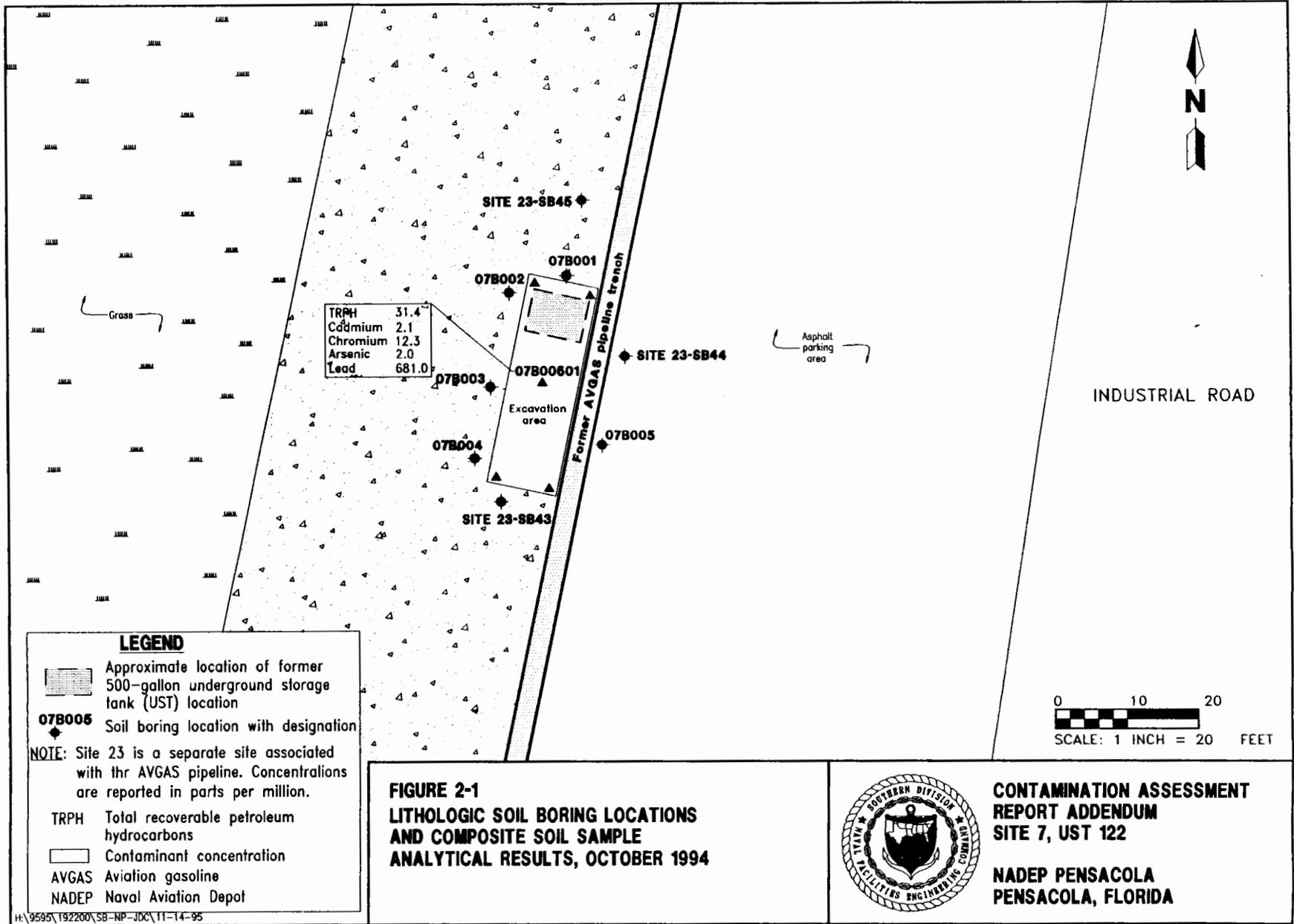
Contamination Assessment Report Addendum
Site 7, UST 122, Naval Aviation Depot
Pensacola, Florida

Soil Boring Designation	Sample Depth (feet bls)	Unfiltered OVA Headspace Reading ¹	Visual Observations
07B001	0.5 to 1.0	<1	Soil staining, no petroleum odor
07B002	0.5 to 1.0	<1	No staining, no petroleum odor
07B003	0.5 to 1.0	<1	No staining, no petroleum odor
07B004	0.5 to 1.0	<1	No staining, no petroleum odor
07B005	0.3 to 0.7	1	No staining, no petroleum odor
Site23-SB43	1.0 to 1.5	<1	No staining, no petroleum odor
Site23-SB44	0.5 to 1.0	<1	No staining, no petroleum odor

¹ Filtered readings were not taken due to the very low volatile concentrations encountered at the sites.

Notes: UST = underground storage tank.
OVA = organic vapor analyzer.
bls = below land surface.
< = less than.

On November 3, 1994, a composite soil sample, 07B00601, was collected from the soil returned to the Site 7 excavation area. This sample was composited from soil collected at each corner and the center of the UST excavation area from 0.5



to 1 foot below land surface (bls). The composite sample was analyzed for the used oil analytical group parameters defined in Chapter 62-770.600(8), Florida Administrative Code (FAC) and compared to the clean soil criteria described in Chapter 62-775.400, FAC. Figure 2-1 presents the composite soil sampling locations and the analytical results of 07B00601.

Volatile organic aromatics (VOA) and polynuclear aromatic hydrocarbons (PAH) concentrations were below method detection limits for soil sample 07B00601. A total recoverable petroleum hydrocarbons (TRPH) concentration of 31.4 parts per million (ppm) was detected. Because PAH and VOA concentrations were below detection limits, a TRPH clean soil maximum concentration of 50 ppm was applied to this site (Chapter 62-775.400, FAC). Cadmium, chromium, and arsenic concentrations were below their respective State maximum concentrations. A lead concentration of 681 ppm was detected in the soil sample 07B00601. The State maximum concentration for lead in soil is 108 ppm.

On February 2, 1995, excessively contaminated soil from the former location of UST 122 was removed by Bechtel Environmental, Inc. (BEI). The excavation area is shown on Figure 2-1. Approximately 17 cubic yards (yd³) of soil were removed from an area 30 feet by 10 feet. Excavation continued until the water table was reached at 1.5 feet bls. The soil removed from the site consisted of fine-grained, well-sorted sand, ranging in color from pale yellowish-brown to dark yellowish-brown, and fill material. Fill materials included brick and asphalt fragments, iron nails, coal, and iron slag. ABB-ES personnel present during the excavation reported no stained soil or other visual evidence of contamination on the walls or at the bottom of the excavation. The Site 7 soil was stockpiled with soil excavated from other lube-oil USTs during BEI excavation activities at Chevalier Field. In May 1995, the stockpiled soil was removed from the facility and taken to an incineration facility for thermal treatment. The soil transportation manifests and receipts are included in the appendices of the AVGAS Pipeline Area CAR submitted to Florida Department of Environmental Protection (FDEP) in August 1995.

2.1.2 Confirmatory Soil Assessment On April 11, 1995, three confirmatory soil samples, 07B00702 through 07B00902, were collected from the west, south, and north sides of the excavation area, respectively. A soil sample was not collected from the east side of the excavation because there was no dry soil between the bottom of the asphalt and the top of the water table. The three soil samples were collected from 0.5 foot bls. All soil samples were analyzed for TRPH, arsenic, cadmium, chromium, and lead, in accordance with Chapter 62-770.600, FAC. Table 2-2 summarizes the confirmatory sampling results. Figure 2-2 presents confirmatory sample locations and laboratory analytical results. Soil laboratory data sheets are presented in Appendix C of this report.

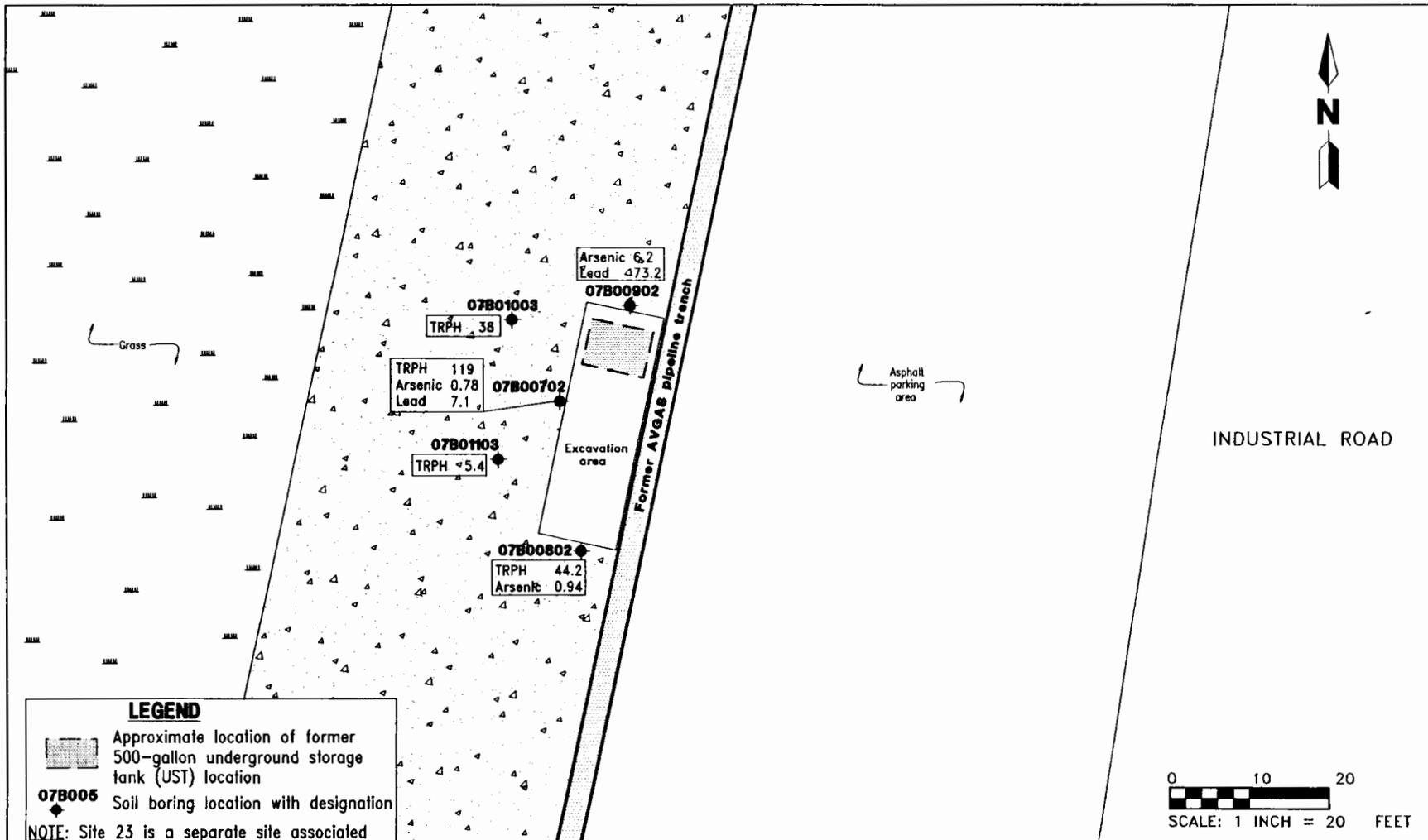
A TRPH concentration of 119 ppm was detected in soil sample 07B00702. This concentration exceeds the State clean soil maximum concentration of 50 ppm for TRPH (FDEP, May 1994). No other parameters detected in any of the soil samples exceeded Florida's clean soil maximum concentrations.

On August 8, 1995, two additional soil samples were collected approximately 15 feet northwest and southwest of soil sample 07B00702 (Figure 2-2). These soil samples were designated 07B01003 and 07B01103 and analyzed for TRPH. TRPH concentrations in both soil samples were below the State clean soil maximum concentration of 50 ppm.

**Table 2-2
Summary of Soil Sample Analytical Results,
October 1994 through April 1995**

Contamination Assessment Report Addendum
Site 7, UST 122, Naval Aviation Depot
Pensacola, Florida

Contaminant	Soil Sample Designation						Clean Soil Maximum Concentration ¹
	² 07B00601	07B00702	07B00802	³ 07B00902	07B01003	07B01103	
Volatile Organic Aromatics (VOA). Reported in parts per billion (ppb).							
Total VOA	bdl	NS	NS	NS	NS	NS	100
Polynuclear Aromatic Hydrocarbons (PAH). Reported in ppb.							
Total PAH	bdl	NS	NS	NS	NS	NS	1000
Total Recoverable Petroleum Hydrocarbons (TRPH). Reported in parts per million (ppm).							
TRPH	31.4	119	44.2	<5.5	38	5.4	⁴ 50
Total Metals. Reported in milligrams per kilogram (mg/kg).							
Cadmium	2.1	<0.57	<0.53	<0.55	NS	NS	37
Chromium	12.3	<2.8	<2.7	<2.8	NS	NS	50
Arsenic	2.0	0.78	0.94	6.2	NS	NS	10
Lead	681	7.1	12.2	73.2	NS	NS	108
¹ Chapter 62-775.400, Florida Administrative Code (FAC). ² This sample was collected from the source area prior to soil removal. ³ The highest concentration detected in 07B00902 or its duplicate, 07B00902, is reported in this column. ⁴ Provided total PAH does not exceed 1 ppm and total volatile organic halocarbons (VOH) do not exceed 50 ppb. In all other cases, the TRPH maximum concentration is 10 ppm (Chapter 62-775.400, FAC). Notes: UST = underground storage tank. Total VOA = the sum concentration of benzene, toluene, ethylbenzene, and xylenes. bdl = below detection limits. NS = not sampled. Total PAH = the sum concentration of PAH compounds detected by U.S. Environmental Protection Agency (USEPA) Method 8270A. < = less than.							



**FIGURE 2-2
CONFIRMATION SOIL SAMPLING LOCATIONS
AND ANALYTICAL RESULTS, APRIL 11
AND AUGUST 8, 1995**



**CONTAMINATION ASSESSMENT
REPORT ADDENDUM
SITE 7, UST 122**

**NADEP PENSACOLA
PENSACOLA, FLORIDA**

Based on the areal extent of TRPH contamination shown on Figure 2-2, an area approximately 7 feet by 30 feet is excessively contaminated. The estimated total volume of excessively TRPH-contaminated soil is 8 yd³.

2.2 GROUNDWATER ASSESSMENT RESULTS. In February 1995, ABB-ES installed one temporary shallow monitoring well in the excavation area of Site 7. The temporary monitoring well, 07Z001, was manually installed to a depth of 4.0 feet bls. The temporary well was sampled and removed on February 2, 1995. The groundwater sample, 07Z00101, was analyzed for used oil analytical group parameters in accordance with Chapter 62-770.600(8), FAC. No volatile, semi-volatile, or TRPH contaminants were detected in sample 07Z00101. Cadmium and chromium concentrations were below method detection limits. An arsenic concentration of 9.3 parts per billion (ppb) and a lead concentration of 541 ppb were detected in the groundwater sample. The State maximum contaminant level (MCL) listed in Chapter 52-550, Table 1, FAC, for arsenic is 50 ppb. The State target level for lead listed in Chapter 62-770.730, FAC, is also 50 ppb. Four tentatively identified compounds (TICs) were detected in groundwater sample 07Z00101. The TICs are listed in Table 2-3.

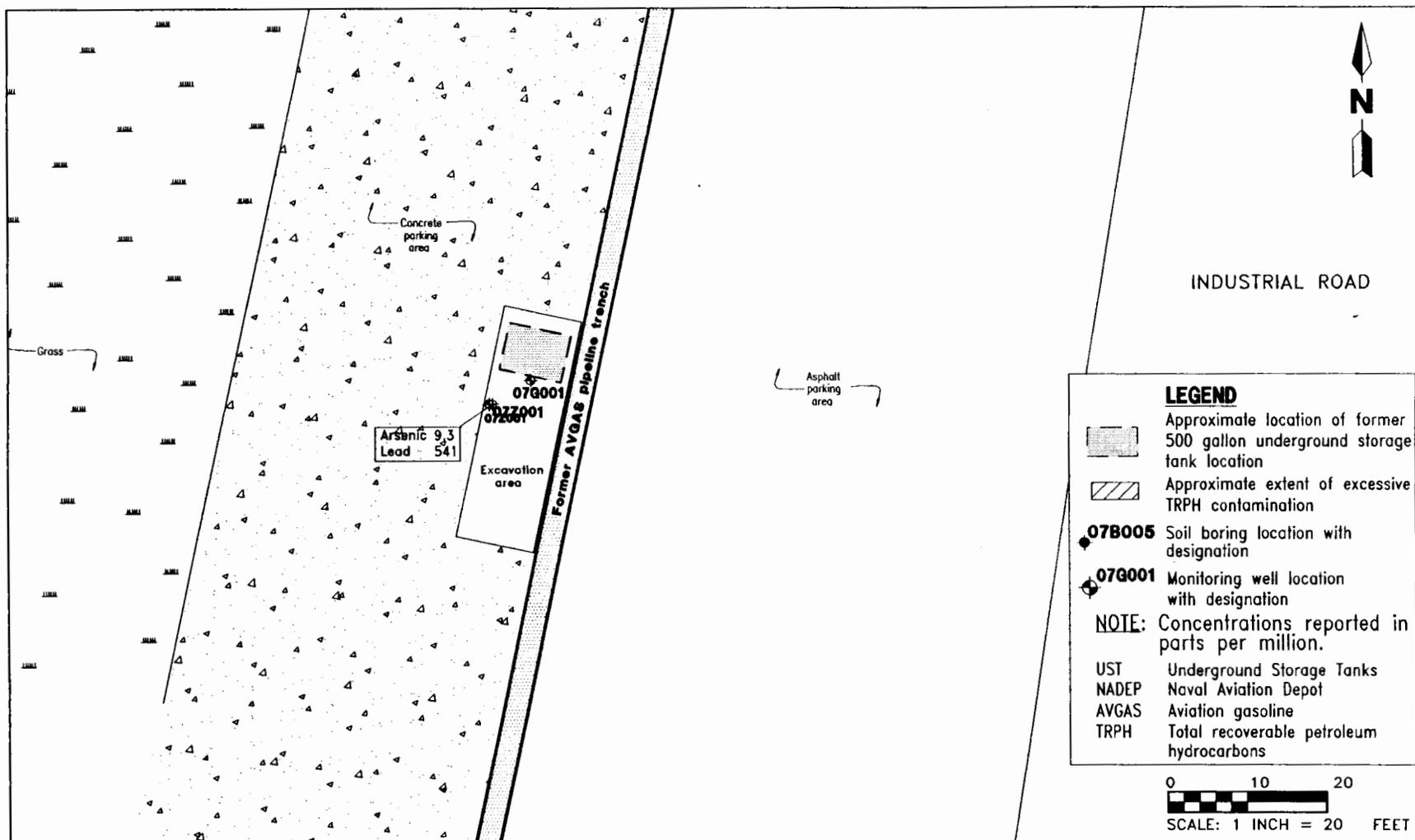
The elevated lead concentration was suspected to be due to the suspended sediment prevalent in the temporary monitoring well. Permanent shallow monitoring well 07G001 was installed in the source area of Site 7 on February 15, 1995. 07G001 was sampled using a low-flow sampling methodology on April 2, 1995. The groundwater sample 07G00101 was analyzed for used oil analytical group parameters. Lead was the only contaminant detected. The lead concentration detected in sample 07G00101 was 18.7 ppb. TICs were also identified in groundwater sample 07G00101 and are listed in Table 2-3. Because TICs are detected with only 50 percent accuracy, no regulatory standards are applicable.

Table 2-3 presents a summary of both groundwater sample results. Figure 2-3 presents the location and sampling results for both Site 7 monitoring wells.

**Table 2-3
Summary of Groundwater Analytical Results,
February and April 1995**

Contamination Assessment Report
Site 7, UST 122, Naval Aviation Depot
Pensacola, Florida

Contaminant	Groundwater Sample Designation		State Maximum Contaminant Levels ¹
	07Z00101	07G00101	
Volatile Organic Aromatics (VOA). Reported in parts per billion (ppb).			
Benzene	<1.0	<1.0	1
Total VOA	<4.0	<4.0	50
Total Recoverable Petroleum Hydrocarbons (TRPH). Reported in parts per million (ppm).			
TRPH	<1.0	<1.0	
Metals. Reported in ppb.			
Arsenic	9.3	<5.0	50
Cadmium	<5.0	<5.0	10
Chromium	<50.0	<50.0	100
Lead	541	18.7	50
Tentatively Identified Compounds (TICs)			
Diphenyl Ether	19	ND	
Sulfur	58	ND	
3-Chloro-6-(methyl)Pyridazine	11	ND	
1,2,4-Trithiolane	ND	69	
1,2,4,5-Tetrathiane	ND	17	
1,2,4,6-Tetrathiepane	ND	10	
Caprolactum	ND	38	
N,N-bis (2-hydroxyethyl)-Dodecaneamine	ND	6	
Unknowns	ND	160	
¹ These maximum contaminant levels are applied according to Chapter 62-770.730(5)(a)3, Florida Administrative Code (FAC), Chapter 62-3.404(1)(a), FAC, and Chapter 62-550, Tables 1 through 3, FAC. Notes: UST = underground storage tank. Total VOA = the sum concentration of benzene, toluene, ethylbenzene, and xylenes. < = less than. ND = not detected.			



**FIGURE 2-3
MONITORING WELL LOCATIONS AND
GROUNDWATER ANALYTICAL RESULTS**



**CONTAMINATION ASSESSMENT
REPORT ADDENDUM
SITE 7, UST 122**

**NADEP PENSACOLA
PENSACOLA, FLORIDA**

3.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

3.1 SUMMARY. Based on the findings of the CA field investigations and laboratory analytical results, the following is a summary of existing conditions at the site.

- Site soil consists of a mixture of fill material and fine-grained, well-sorted sand. The sand ranges in color from pale orange to dark yellowish-brown. The fill material consists of asphalt, nails, smelting slag, and other discarded materials.
- The source of petroleum contamination, UST 122, has been removed.
- Excessively contaminated soil from the tank excavation area was removed. No visual evidence of soil contamination was observed in the excavation or on the excavation walls.
- Five confirmatory analytical soil samples were collected from the north, west, and east sides of the UST excavation area. The TRPH concentration in soil sample 07B007, from the western edge of the excavation, exceeded the State clean soil maximum concentration of 50 ppm (FDEP, May 1994). Figure 3-1 presents the estimated areal extent of excessive TRPH contamination at Site 7.
- Lead was the only contaminant detected in groundwater sample 07G00101. The lead concentration of 18.7 ppb detected in sample 07G00101 is below the State target level of 50 ppb listed in Chapter 62-770.730(5)(a), FAC.

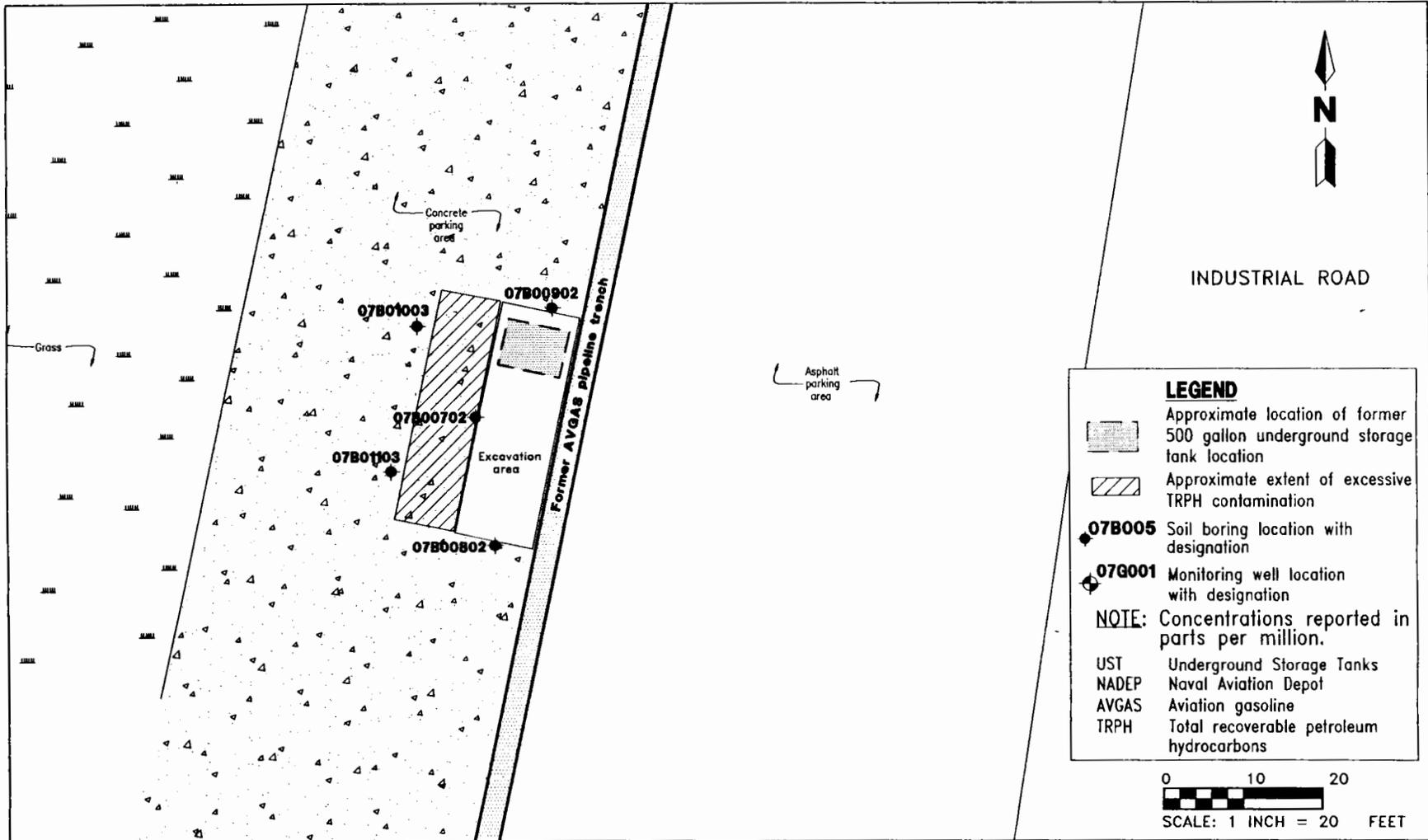
3.2 CONCLUSIONS. Based on the findings of the CA and site conditions, the following can be concluded:

- Approximately 8 yd³ of excessively contaminated soil as defined by Chapter 62-775.400, FAC, is present at Site 7 on the west side of the UST excavation.
- The groundwater at Site 7 has not been impacted by the soil contamination detected during this investigation.

3.3 RECOMMENDATIONS. ABB-ES recommends that the contaminated soil be left in place for the following reasons:

- The volume of excessively contaminated soil is small.
- Site groundwater has not been impacted by the soil contamination.
- The Site 7 area has been covered with 3 to 4 feet of clean fill and capped with asphalt.
- Construction activities at Site 7 have obliterated any site landmarks or means of finding the area of contaminated soil at a later time.

A No Further Action proposal is recommended for Site 7.



LEGEND

- Approximate location of former 500 gallon underground storage tank location
- Approximate extent of excessive TRPH contamination
- 07B005 Soil boring location with designation
- 07G001 Monitoring well location with designation

NOTE: Concentrations reported in parts per million.

UST Underground Storage Tanks
 NADEP Naval Aviation Depot
 AVGAS Aviation gasoline
 TRPH Total recoverable petroleum hydrocarbons

**FIGURE 3-1
 APPROXIMATE AREAL EXTENT OF
 EXCESSIVE TRPH SOIL CONTAMINATION**

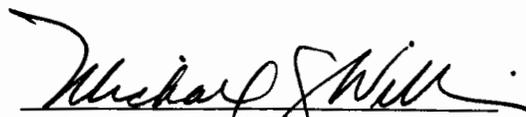


**CONTAMINATION ASSESSMENT
 REPORT ADDENDUM
 SITE 7, UST 122**

**NADEP PENSACOLA
 PENSACOLA, FLORIDA**

4.0 PROFESSIONAL REVIEW CERTIFICATION

This CAR addendum was prepared under the supervision of a professional geologist registered in the State of Florida using sound hydrogeologic principles and professional judgment. This assessment is based on the geologic investigation and associated information detailed in the text and appended to this report or referenced in public literature. Recommendations are based upon interpretations of the applicable regulatory requirements, guidelines, and relevant issues discussed with regulatory personnel during the site investigation. If conditions that differ from those described are determined to exist, the undersigned geologist should be notified to evaluate the effects of any additional information on this assessment or the recommendations made in this report. This CAR addendum was developed for Site 7, UST 122, at NADEP, Naval Air Station, Pensacola, Florida, and should not be construed to apply to any other site.



Michael J. Williams
Professional Geologist
P.G. No. 344

11/21/95
Date

REFERENCES

ABB Environmental Services, Inc., 1995, Aviation Gasoline (AVGAS) Pipeline Area Contamination Assessment Report, August.

Florida Department of Environmental Regulation, 1994, Guidelines for Assessment and Remediation of Petroleum-Contaminated Soil, Division of Waste Management, May.

Florida Department of Transportation, 1982, Florida official transportation map.

APPENDIX A

GT ENVIRONMENTAL SERVICES (GTES) CORRESPONDENCE



GT Environmental Services, Inc.

One Purlieu Place, Suite 205 • Winter Park, FL 32792 • 407/671-0125 • Fax: 407/671-2705

NAS Pensacola / Chevalier Field
Closure Assessment / October 17, 1994
GT Environmental Services, Inc

Tanks 130, 138, 140, 143 had no visual contamination. Analytical was run for lead and TRPH. Contamination was detected on all the above tanks .

Tanks Removed	Contaminated	Method of Detection
#104	Soil/Groundwater	Visual
#107	Soil/Groundwater	Visual
#110	Soil	Visual
#116	Soil	Visual
#119	Soil/Groundwater	Visual
#122	Soil	Visual
#130	Soil	TPH 57 PPM Analytical
#134	Galv.Tank Soil	Visual
#136		Visual
#138	Soil	TPH 540 PPM Analytical
#140		TPH 650 PPM; Lead 10PPM Analytical
#143	Soil	TPH 49 PPM Analytical

Note: Soil Samples were taken at points where visual contamination appeared.
(Where no visual contamination appeared samples were taken from the ends and middle of soil from underground tanks)

Note: GT Environmental Services, Inc. used an HNU P.I.D. on all tank soil. Due to the heavy oil, the P.I.D. did not pick up any volatiles. We referred to the visual detection as required by the Florida Guidelines for Contamination Assessment for Oil Tanks.



GT ENVIRONMENTAL SERVICES, INC.
One Purlieu Place, Suite 205
Winter Park, Florida 32792
(407) 671-0125
FAX (407) 671-2705

FILE

September 20, 1994

Phoenix Construction Services, Inc.
1805 Tennessee Avenue
Lynn Haven, FL 32444

Attn: Terry Wilson

RE: Fuel Tankage Project
NAS, Pensacola, FL
Contract N62467-90-C-0486

Dear Terry:

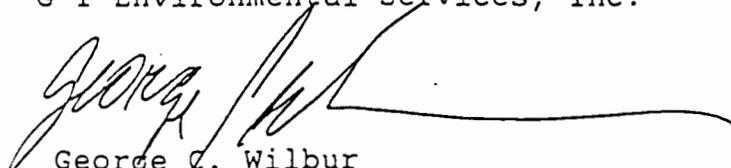
The following tanks show signs of contamination, detected by visual inspection:

- Tank 107 - overspill
- Tank 110 - overspill
- Tank 116 - loose pipe, overspill
- Tank 122 - overspill
- * Tank 134 - This "galvanized" steel tank apparently imploded underground prior to our removal.
- * Tank 136 - corrosion holes in bottom of tank

Should you have any questions and/or comments, please contact this writer.

Sincerely,

G T Environmental Services, Inc.


George C. Wilbur

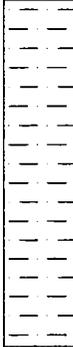
xc: PCS
PCS/GT

APPENDIX B
LITHOLOGIC LOGS

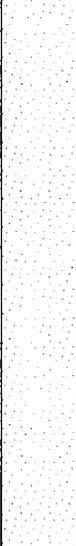
TITLE: NADEP PENSACOLA		LOG of WELL: NA	BORING NO. 07B001
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO: 07527.54	
CONTRACTOR: Southern Waste Services		DATE STARTED: 10/11/94	COMPLTD: 10/11/94
METHOD: Hand Auger	CASE SIZE: NA	SCREEN INT.: NA	PROTECTION LEVEL: D
TOC ELEV.: NA FT.	MONITOR INST.: OVA	TOT DPTH: 1.5FT.	DPTH TO ∇ 1.3 FT.
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: NA		SITE: Site 7, UST 122

DEPTH FT.	LABORATORY SAMPLE ID.	RECOVERY SAMPLE	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				CONCRETE				
			<1	SAND: very fine- to fine-grained, moderate sort, light brown mottled with black. The black material appears to be asphalt subbase. The sand is mixed with iron nails.		FILL		

TITLE: NADEP PENSACOLA		LOG of WELL: NA	BORING NO. 07B002
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO: 07527.54	
CONTRACTOR: Southern Waste Services		DATE STARTED: 10/11/94	COMPLTD: 10/11/94
METHOD: Hand Auger	CASE SIZE: NA	SCREEN INT.: NA	PROTECTION LEVEL: D
TOC ELEV.: NA FT.	MONITOR INST.: OVA	TOT DPTH: 2.0FT.	DPTH TO ∇ 1.5 FT.
LOGGED BY: J. Ullo	WELL DEVELOPMENT DATE: NA		SITE: Site 7, UST 122

DEPTH FT.	LABORATORY SAMPLE ID.	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				CONCRETE				
			<1	SAND: fine-grained, well-sorted, light brown to dusky brown.		SP		
				CLAYEY SAND: fine-grained with several layers of grayish-brown clay, well-sorted within layers, pale yellowish-brown to dusky-yellowish brown sand, damp to wet.		SC		

TITLE: NADEP PENSACOLA		LOG of WELL: NA	BORING NO. 07B003
CLIENT: SOUTHNAVFACENCOM			PROJECT NO: 07527.54
CONTRACTOR: Southern Waste Services		DATE STARTED: 10/11/94	COMPLTD: 10/11/94
METHOD: Hand Auger	CASE SIZE: NA	SCREEN INT.: NA	PROTECTION LEVEL: D
TOC ELEV.: NA FT.	MONITOR INST.: OVA	TOT DPTH: 2.0FT.	DPTH TO ∇ 1.2 FT.
LOGGED BY: J. Ullo	WELL DEVELOPMENT DATE: NA		SITE: Site 7, UST 122

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					CONCRETE				
				<	SAND: fine-grained, well-sorted, light brown to dark yellowish-brown, damp to wet.		SP		
					MET REFUSAL				

TITLE: NADEP PENSACOLA		LOG of WELL: NA	BORING NO. 07B004
CLIENT: SOUTHNAVFACENGCOM		DATE STARTED: 10/11/94	PROJECT NO: 07527.54
CONTRACTOR: Southern Waste Services		COMPLTD: 10/11/94	
METHOD: Hand Auger	CASE SIZE: NA	SCREEN INT.: NA	PROTECTION LEVEL: D
TOC ELEV.: NA FT.	MONITOR INST.: OVA	TOT DPTH: 1.0FT.	DPTH TO ∇ 1.2 FT.
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: NA	SITE: Site 7, UST 122	

DEPTH FT.	LABORATORY SAMPLE ID.	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				CONCRETE				
				FILL: bricks, twisted steel, sand.		FILL		
			<1	MET REFUSAL				

TITLE: NADEP PENSACOLA		LOG of WELL: NA	BORING NO. 07B005
CLIENT: SOUTHNAVFACENGCOM			PROJECT NO: 07527.54
CONTRACTOR: Southern Waste Services		DATE STARTED: 10/11/94	COMPLTD: 10/11/94
METHOD: Hand Auger	CASE SIZE: NA	SCREEN INT.: NA	PROTECTION LEVEL: D
TOC ELEV.: NA FT.	MONITOR INST.: OVA	TOT DPTH: 1.0FT.	DPTH TO ∇ 1.0 FT.
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: NA		SITE: Site 7, UST 122

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					ASPHALT				
							FILL		
				<1	FILL: smelting slag mixed with plastic clay and sand.				
					MET REFUSAL				

TITLE: NADEP PENSACOLA		LOG of WELL: NA	BORING NO. SITE23-SB43
CLIENT: SOUTHNAVFACENCOM			PROJECT NO: 07527.54
CONTRACTOR: Southern Waste Services		DATE STARTED: 09/20/94	COMPLTD: 09/20/94
METHOD: Hand Auger	CASE SIZE: NA	SCREEN INT.: NA	PROTECTION LEVEL: D
TOC ELEV.: NA FT.	MONITOR INST.: OVA	TOT DPTH: 1.5FT.	DPTH TO ∇ 1.5 FT.
LOGGED BY: J. Uilo	WELL DEVELOPMENT DATE: NA		SITE: Site 7, UST 122

DEPTH FT.	LABORATORY SAMPLE ID.	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				CONCRETE				
			<1	SAND: fine-grained, well-sorted, pale orange, damp.		SP		

TITLE: NADEP PENSACOLA		LOG of WELL: NA	BORING NO. SITE23-SB44
CLIENT: SOUTHNAVFACENCOM		PROJECT NO: 07527.54	
CONTRACTOR: Southern Waste Services		DATE STARTED: 09/20/94	COMPLTD: 09/20/94
METHOD: Hand Auger	CASE SIZE: NA	SCREEN INT.: NA	PROTECTION LEVEL: D
TOC ELEV.: NA FT.	MONITOR INST.: OVA	TOT DPTH: 1.0FT.	DPTH TO ∇ 1.0 FT.
LOGGED BY: J. Uilo	WELL DEVELOPMENT DATE: NA		SITE: Site 7, UST 122

DEPTH FT.	LABORATORY SAMPLE ID.	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				ASPHALT				
			<1	SAND: fine-grained, well-sorted, blackish red, damp.		SP		

TITLE: NADEP Pensacola		LOG of WELL: 07Z001	BORING NO.
CLIENT: SOUTHNAVFACENCOM			PROJECT NO: 7527-54
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 2/02/95	COMPLTD: 2/02/95
METHOD: Manual installation	CASE SIZE: 2-inch	SCREEN INT.: 0 - 4'	PROTECTION LEVEL: D
TOC ELEV.: NM FT.	MONITOR INST.: OVA	TOT DPTH: 4.0FT.	DPTH TO ∇ 3.09 FT.
LOGGED BY: H. Governick	WELL DEVELOPMENT DATE: 2.02/95		SITE: Site 7, UST 122

DEPTH F.T.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
5					FILL: crushed limestone and red clayey sand.		FILL		
					SAND: fine-grained, well-sorted, dark yellowish-brown, damp to saturated.		SP		
10									
15									

TITLE: NADEP Pensacola AVGAS Pipeline Area		LOG of WELL: 07G001	BORING NO. NA
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO: 7527.54	
CONTRACTOR: Groundwater Protection, Inc.		DATE STARTED: 2/15/95	COMPLTD: 2/15/95
METHOD: 4.25" ID HSA	CASE SIZE: 2-inch	SCREEN INT.: 2'-12'	PROTECTION LEVEL: D
TOC ELEV.: NM FT.	MONITOR INST.: OVA	TOT DPTH: 12FT.	DPTH TO ∇ 0.5 FT.
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 2/15/95		SITE: 7. UST 122

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					FILL: crushed limestone and red clayey sand.		FILL		
					FILL: sand, cobble size coal and smelting slag fragments, plastic debris.		FILL		
5					SAND: fine-grained, well-sorted, dark yellowish-brown, saturated.		SP		
10									
15									

APPENDIX C

LABORATORY ANALYTICAL DATA

Lab Sample Number: B4K0400180
 Site NADEP-7
 Locator 07B00601
 Collect Date: 03-NOV-94

VALUE QUAL UNITS DL

GC/MS Volatiles

Acrolein	60 U	ug/kg	60
Acrylonitrile	60 U	ug/kg	60
Benzene	6 U	ug/kg	6
Bromodichloromethane	6 U	ug/kg	6
Bromoform	6 U	ug/kg	6
Bromomethane	6 U	ug/kg	6
Carbon tetrachloride	6 U	ug/kg	6
Chlorobenzene	6 U	ug/kg	6
Dibromochloromethane	6 U	ug/kg	6
Chloroethane	6 U	ug/kg	6
2-Chloroethyl vinyl ether	6 U	ug/kg	6
Chloroform	6 U	ug/kg	6
Chloromethane	6 U	ug/kg	6
1,2-Dichlorobenzene	400 U	ug/kg	400
1,3-Dichlorobenzene	400 U	ug/kg	400
1,4-Dichlorobenzene	400 U	ug/kg	400
1,1-Dichloroethane	6 U	ug/kg	6
1,2-Dichloroethane	6 U	ug/kg	6
1,1-Dichloroethene	6 U	ug/kg	6
cis-1,2-Dichloroethene	6 U	ug/kg	6
trans-1,2-Dichloroethene	6 U	ug/kg	6
1,2-Dichloropropane	6 U	ug/kg	6
cis-1,3-Dichloropropene	6 U	ug/kg	6
trans-1,3-Dichloropropene	6 U	ug/kg	6
Ethylbenzene	6 U	ug/kg	6
Trichlorofluoromethane	6 U	ug/kg	6
Methylene chloride	6 U	ug/kg	6
1,1,2,2-Tetrachloroethane	6 U	ug/kg	6
Tetrachloroethene	6 U	ug/kg	6
Toluene	6 U	ug/kg	6
1,1,1-Trichloroethane	6 U	ug/kg	6
1,1,2-Trichloroethane	6 U	ug/kg	6
Trichloroethene	6 U	ug/kg	6
Vinyl chloride	6 U	ug/kg	6
Xylenes (total)	6 U	ug/kg	6

GC/MS Semi-Volatiles II

Acenaphthene	400 U	ug/kg	400
Acenaphthylene	400 U	ug/kg	400
Anthracene	400 U	ug/kg	400
Benzidine	2000 U	ug/kg	2000
Benzo (a) anthracene	400 U	ug/kg	400
Benzo (b) fluoranthene	400 U	ug/kg	400
Benzo (k) fluoranthene	400 U	ug/kg	400
Benzo (g,h,i) perylene	400 U	ug/kg	400
Benzo (a) pyrene	400 U	ug/kg	400
Bis(2-chloroethoxy)methane	400 U	ug/kg	400
Bis(2-chloroethyl)ether	400 U	ug/kg	400
Bis(2-chloroisopropyl)ether	400 U	ug/kg	400
Bis(2-ethylhexyl)phthalate	400 U	ug/kg	400
4-Bromophenyl phenyl ether	400 U	ug/kg	400

Lab Sample Number: B4K0400180
 Site: NADEP-7
 Locator: 07B00601
 Collect Date: 03-NOV-94

VALUE QUAL UNITS DL

Butyl benzyl phthalate	400 U	ug/kg	400
2-Chloronaphthalene	400 U	ug/kg	400
2-Chlorophenol	400 U	ug/kg	400
4-Chlorophenyl phenyl ether	400 U	ug/kg	400
Chrysene	400 U	ug/kg	400
Dibenzo (a,h) anthracene	400 U	ug/kg	400
Di-n-butyl phthalate	400 U	ug/kg	400
1,2-Dichlorobenzene	400 U	ug/kg	400
1,3-Dichlorobenzene	400 U	ug/kg	400
1,4-Dichlorobenzene	400 U	ug/kg	400
3,3'-Dichlorobenzidine	2000 U	ug/kg	2000
2,4-Dichlorophenol	400 U	ug/kg	400
Diethyl phthalate	400 U	ug/kg	400
2,4-Dimethylphenol	400 U	ug/kg	400
Dimethyl phthalate	400 U	ug/kg	400
Di-n-octyl phthalate	400 U	ug/kg	400
2,4-Dinitrophenol	2000 U	ug/kg	2000
2,4-Dinitrotoluene	400 U	ug/kg	400
2,6-Dinitrotoluene	400 U	ug/kg	400
Fluoranthene	400 U	ug/kg	400
Fluorene	400 U	ug/kg	400
Hexachlorobenzene	400 U	ug/kg	400
Hexachlorocyclopentadiene	400 U	ug/kg	400
Hexachloroethane	400 U	ug/kg	400
Indeno(1,2,3-cd)pyrene	400 U	ug/kg	400
Isophorone	400 U	ug/kg	400
Naphthalene	400 U	ug/kg	400
Nitrobenzene	400 U	ug/kg	400
2-Nitrophenol	400 U	ug/kg	400
4-Nitrophenol	2000 U	ug/kg	2000
N-Nitrosodimethylamine	400 U	ug/kg	400
N-Nitrosodi-n-propylamine	400 U	ug/kg	400
N-Nitrosodiphenylamine	400 U	ug/kg	400
Pentachlorophenol	2000 U	ug/kg	2000
Phenanthrene	400 U	ug/kg	400
Phenol	400 U	ug/kg	400
Pyrene	400 U	ug/kg	400
1,2,4-Trichlorobenzene	400 U	ug/kg	400
2,4,6-Trichlorophenol	400 U	ug/kg	400
Hexachlorobutadiene	400 U	ug/kg	400

GC Semi-Volatiles

PCB-1016	1.2 U	ng/kg	1.2
PCB-1221	1.2 U	ng/kg	1.2
PCB-1232	1.2 U	ng/kg	1.2
PCB-1242	1.2 U	ng/kg	1.2
PCB-1248	1.2 U	ng/kg	1.2
PCB-1254	1.2 U	ng/kg	1.2
PCB-1260	1.2 U	ng/kg	1.2

TOTAL METALS

Cadmium	2.1	ng/kg	.6
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Lab Sample Number: B4K0400180
 Site: NADEP-7
 Locator: 07B00601
 Collect Date: 03-NOV-94

VALUE QUAL UNITS DL

Chromium	12.3	mg/kg	3
Arsenic	2	mg/kg	.3
Lead	681	mg/kg	30.1
TRPH Total petroleum hydrocarbons	31.4	mg/kg	6

U = Not Detected J = Estimated Value

Lab Sample Number:	B4K0400180	B4K0400180			
Site	NADEP-7	NADEP-7			
Locator	EQUIPMENTBLANK	TRIPBLANK			
Collect Date:	03-NOV-94	03-NOV-94			
VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

QA Volatiles

Acetone	10 U	ug/l	10	10 U	ug/l	10
Benzene	1 U	ug/l	1	1 U	ug/l	1
Dichlorobromomethane	1 U	ug/l	1	1 U	ug/l	1
Bromoform	1 U	ug/l	1	1 U	ug/l	1
Bromomethane	1 U	ug/l	1	1 U	ug/l	1
2-Butanone	10 U	ug/l	10	10 U	ug/l	10
Carbon disulfide	1 U	ug/l	1	1 U	ug/l	1
Carbon tetrachloride	1 U	ug/l	1	1 U	ug/l	1
Chlorobenzene	1 U	ug/l	1	1 U	ug/l	1
Dibromochloromethane	1 U	ug/l	1	1 U	ug/l	1
Chloroethane	1 U	ug/l	1	1 U	ug/l	1
Chloroform	1 U	ug/l	1	1 U	ug/l	1
Chloromethane	1 U	ug/l	1	1 U	ug/l	1
1,1-Dichloroethane	1 U	ug/l	1	1 U	ug/l	1
1,2-Dichloroethane	1 U	ug/l	1	1 U	ug/l	1
1,1-Dichloroethene	1 U	ug/l	1	1 U	ug/l	1
1,2-Dichloroethene, Total	1 U	ug/l	1	1 U	ug/l	1
1,2-Dichloropropane	1 U	ug/l	1	1 U	ug/l	1
cis-1,3-Dichloropropene	1 U	ug/l	1	1 U	ug/l	1
trans-1,3-Dichloropropene	1 U	ug/l	1	1 U	ug/l	1
Ethylbenzene	1 U	ug/l	1	1 U	ug/l	1
Methylene chloride	1 B	ug/l	1	1 U	ug/l	1
4-Methyl-2-pentanone	10 U	ug/l	10	10 U	ug/l	10
Styrene	1 U	ug/l	1	1 U	ug/l	1
1,1,2,2-Tetrachloroethane	1 U	ug/l	1	1 U	ug/l	1
Tetrachloroethene	1 U	ug/l	1	1 U	ug/l	1
Toluene	1 U	ug/l	1	1 U	ug/l	1
1,1,1-Trichloroethane	1 U	ug/l	1	1 U	ug/l	1
1,1,2-Trichloroethane	1 U	ug/l	1	1 U	ug/l	1
Trichloroethene	1 U	ug/l	1	1 U	ug/l	1
Vinyl chloride	1 U	ug/l	1	1 U	ug/l	1
2-Hexanone	10 U	ug/l	10	10 U	ug/l	10
Xylenes, Total	1 U	ug/l	1	1 U	ug/l	1

GC/MS Semi-Volatiles II

Acenaphthene	10 U	ug/l	10	-	
Acenaphthylene	10 U	ug/l	10	-	
Anthracene	10 U	ug/l	10	-	
Benzidine	50 U	ug/l	50	-	
Benzo (a) anthracene	10 U	ug/l	10	-	
Benzo (b) fluoranthene	10 U	ug/l	10	-	
Benzo (k) fluoranthene	10 U	ug/l	10	-	
Benzo (g,h,i) perylene	10 U	ug/l	10	-	
Benzo (a) pyrene	10 U	ug/l	10	-	
Bis(2-chloroethoxy)methane	10 U	ug/l	10	-	
Bis(2-chloroethyl)ether	10 U	ug/l	10	-	
Bis(2-chloroisopropyl)ether	10 U	ug/l	10	-	
Bis(2-ethylhexyl)phthalate	10 U	ug/l	10	-	
4-Bromophenyl phenyl ether	10 U	ug/l	10	-	
Butyl benzyl phthalate	10 U	ug/l	10	-	
2-Chloronaphthalene	10 U	ug/l	10	-	

Lab Sample Number:	B4K0400180	B4K0400180
Site	NADEP-7	NADEP-7
Locator	EQUIPMENTBLANK	TRIPBLANK
Collect Date:	03-NOV-94	03-NOV-94
VALUE	QUAL UNITS	DL

	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
2-Chlorophenol	10 U	ug/l	10	-		
4-Chlorophenyl phenyl ether	10 U	ug/l	10	-		
Chrysene	10 U	ug/l	10	-		
Dibenzo (a,h) anthracene	10 U	ug/l	10	-		
Di-n-butyl phthalate	10 U	ug/l	10	-		
1,2-Dichlorobenzene	10 U	ug/l	10	-		
1,3-Dichlorobenzene	10 U	ug/l	10	-		
1,4-Dichlorobenzene	10 U	ug/l	10	-		
3,3'-Dichlorobenzidine	50 U	ug/l	50	-		
2,4-Dichlorophenol	10 U	ug/l	10	-		
Diethyl phthalate	10 U	ug/l	10	-		
2,4-Dimethylphenol	10 U	ug/l	10	-		
Dimethyl phthalate	10 U	ug/l	10	-		
Di-n-octyl phthalate	10 U	ug/l	10	-		
2,4-Dinitrophenol	50 U	ug/l	50	-		
2,4-Dinitrotoluene	10 U	ug/l	10	-		
2,6-Dinitrotoluene	10 U	ug/l	10	-		
Fluoranthene	10 U	ug/l	10	-		
Fluorene	10 U	ug/l	10	-		
Hexachlorobenzene	10 U	ug/l	10	-		
Hexachlorocyclopentadiene	10 U	ug/l	10	-		
Hexachloroethane	10 U	ug/l	10	-		
Indeno(1,2,3-cd)pyrene	10 U	ug/l	10	-		
Isophorone	10 U	ug/l	10	-		
Naphthalene	10 U	ug/l	10	-		
Nitrobenzene	10 U	ug/l	10	-		
2-Nitrophenol	10 U	ug/l	10	-		
4-Nitrophenol	50 U	ug/l	50	-		
N-Nitrosodimethylamine	10 U	ug/l	10	-		
N-Nitrosodi-n-propylamine	10 U	ug/l	10	-		
N-Nitrosodiphenylamine	10 U	ug/l	10	-		
Pentachlorophenol	50 U	ug/l	50	-		
Phenanthrene	10 U	ug/l	10	-		
Phenol	10 U	ug/l	10	-		
Pyrene	10 U	ug/l	10	-		
1,2,4-Trichlorobenzene	10 U	ug/l	10	-		
2,4,6-Trichlorophenol	10 U	ug/l	10	-		
Hexachlorobutadiene	10 U	ug/l	10	-		
GC Semi-Volatiles						
PCB-1016	1 U	ug/l	1	-		
PCB-1221	1 U	ug/l	1	-		
PCB-1232	1 U	ug/l	1	-		
PCB-1242	1 U	ug/l	1	-		
PCB-1248	1 U	ug/l	1	-		
PCB-1254	1 U	ug/l	1	-		
PCB-1260	1 U	ug/l	1	-		
TOTAL METALS						
Cadmium	5 U	ug/l	5	-		
Chromium	50 U	ug/l	50	-		
Arsenic	2.4 J	ug/l	5	-		

Lab Sample Number:	B4K0400180	B4K0400180
Site	WADEP-7	WADEP-7
Locator	EQUIPMENTBLANK	TRIPBLANK
Collect Date:	03-NOV-94	03-NOV-94
	VALUE QUAL UNITS DL	VALUE QUAL UNITS DL

Lead	1.9 J ug/l	5	-
TRPH Total petroleum hydrocarbons	1 U mg/l	1	-

U = Not Detected J = Estimated Value
 B = Compound detected in method blank associated with this sample.

NADEP AVGAS PIPELINE SITE 7
 TOTAL METALS AND TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Lab Sample Number:
 Site
 Locator
 Collect Date:

B5D1400490
 NADEP
 07B00702
 11-APR-95
 VALUE QUAL UNITS DL

B5D1400490
 NADEP
 07B00802
 11-APR-95
 VALUE QUAL UNITS DL

B5D1400490
 NADEP
 07B00902
 11-APR-95
 VALUE QUAL UNITS DL

B5H0901110
 NADEP-7
 07B0EB01
 08-AUG-95
 VALUE QUAL UNITS DL

	VALUE	QUAL UNITS	DL									
TOTAL METALS												
Cadmium	.57 U	mg/kg		.57	mg/kg		.53 U	mg/kg		.55 U	mg/kg	
Chromium	2.8 U	mg/kg		2.8	mg/kg		2.7 U	mg/kg		2.8 U	mg/kg	
Arsenic	.78	mg/kg		.28	mg/kg		.27	mg/kg		6.2	mg/kg	
Lead	7.1	mg/kg		2.8	mg/kg		2.7	mg/kg		73.2	mg/kg	
TRPH												
Total petroleum hydrocarbons	119	mg/kg		5.7	mg/kg		44.2	mg/kg		5.3	mg/kg	
										5.5 U	mg/kg	
										5.5		
										5 U	ug/l	
										50 U	ug/l	
										5 U	ug/l	
										50 U	ug/l	
										1 U	mg/l	

U = Not Detected J = Estimated Value

NADEP AVGAS PIPELINE SITE 7
 TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Lab Sample Number:	B5H0901110	B5H0901110
Site	NADEP-7	NADEP-7
Locator	07B01003	07B01103
Collect Date:	08-AUG-95	08-AUG-95

	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
TRPH								
Total petroleum hydrocarbons	38		mg/kg	6	5.4		mg/kg	5.4

U = Not Detected J = Estimated Value

Lab Sample Number:	B5D0500720	B5B0300960			B5B0300960			
Site	NADEP	NADEP-7			NADEP-7			
Locator	07G00101	07Z00101			TRIPBLANK			
Collect Date:	02-APR-95	02-FEB-95			02-FEB-95			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL

GC/MS Volatiles

Acrolein	10 U	ug/l	10	10 U	ug/l	10	-	
Acrylonitrile	10 U	ug/l	10	10 U	ug/l	10	-	
Benzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Bromodichloromethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Bromoform	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Bromomethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Carbon tetrachloride	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Chlorobenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Dibromochloromethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Chloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
2-Chloroethyl vinyl ether	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Chloroform	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Chloromethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
1,2-Dichlorobenzene	10 U	ug/l	10	10 U	ug/l	10	1 U	ug/l
1,3-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
1,4-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
1,1-Dichloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
1,2-Dichloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
1,1-Dichloroethene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
cis-1,2-Dichloroethene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
trans-1,2-Dichloroethene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
1,2-Dichloropropane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
cis-1,3-Dichloropropene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
trans-1,3-Dichloropropene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Ethylbenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Trichlorofluoromethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Methylene chloride	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
1,1,2,2-Tetrachloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Tetrachloroethene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Toluene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
1,1,1-Trichloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
1,1,2-Trichloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Trichloroethene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Vinyl chloride	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Xylenes (total)	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l

GC/MS Semi-Volatiles II

Acenaphthene	10 U	ug/l	10	10 U	ug/l	10	-	
Acenaphthylene	10 U	ug/l	10	10 U	ug/l	10	-	
Anthracene	10 U	ug/l	10	10 U	ug/l	10	-	
Benzidine	50 U	ug/l	50	50 U	ug/l	50	-	
Benzo (a) anthracene	10 U	ug/l	10	10 U	ug/l	10	-	
Benzo (b) fluoranthene	10 U	ug/l	10	10 U	ug/l	10	-	
Benzo (k) fluoranthene	10 U	ug/l	10	10 U	ug/l	10	-	
Benzo (g,h,i) perylene	10 U	ug/l	10	10 U	ug/l	10	-	
Benzo (a) pyrene	10 U	ug/l	10	10 U	ug/l	10	-	
Bis(2-chloroethoxy)methane	10 U	ug/l	10	10 U	ug/l	10	-	
Bis(2-chloroethyl)ether	10 U	ug/l	10	10 U	ug/l	10	-	
Bis(2-chloroisopropyl)ether	10 U	ug/l	10	10 U	ug/l	10	-	
Bis(2-ethylhexyl)phthalate	10 U	ug/l	10	10 U	ug/l	10	-	
4-Bromophenyl phenyl ether	10 U	ug/l	10	10 U	ug/l	10	-	

Lab Sample Number:
Site
Locator
Collect Date:

B5D0500720
NADEP
07G00101
02-APR-95

B5B0300960
NADEP-7
07Z00101
02-FEB-95

B4K0400180
NADEP-7
TRIPBLANK
03-NOV-94

B5B0300960
NADEP-7
TRIPBLANK
02-FEB-95

VALUE QUAL UNITS DL VALUE QUAL UNITS DL VALUE QUAL UNITS DL VALUE QUAL UNITS DL

GC/MS Volatiles

Acrolein	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Acrylonitrile	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Benzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Bromodichloromethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Bromoform	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Bromomethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Carbon tetrachloride	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Chlorobenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Dibromochloromethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Chloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
2-Chloroethyl vinyl ether	1 U	ug/l	1	1 U	ug/l	1	-	-	1 U	ug/l	1
Chloroform	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Chloromethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
1,2-Dichlorobenzene	1 U	ug/l	1	10 U	ug/l	10	-	-	1 U	ug/l	1
1,3-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	-	-	1 U	ug/l	1
1,4-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	-	-	1 U	ug/l	1
1,1-Dichloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
1,2-Dichloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
1,1-Dichloroethene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
cis-1,2-Dichloroethene	1 U	ug/l	1	1 U	ug/l	1	-	-	1 U	ug/l	1
trans-1,2-Dichloroethene	1 U	ug/l	1	1 U	ug/l	1	-	-	1 U	ug/l	1
1,2-Dichloropropane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
cis-1,3-Dichloropropene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
trans-1,3-Dichloropropene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Ethylbenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Trichlorofluoromethane	1 U	ug/l	1	1 U	ug/l	1	-	-	1 U	ug/l	1
Methylene chloride	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
1,1,2,2-Tetrachloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Tetrachloroethene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Toluene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
1,1,1-Trichloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
1,1,2-Trichloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Trichloroethene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Vinyl chloride	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l
Xylenes (total)	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l

GC/MS Semi-Volatiles II

Acenaphthene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Acenaphthylene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Anthracene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Benzidine	50 U	ug/l	50	50 U	ug/l	50	-	-	-	-	-
Benzo (a) anthracene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Benzo (b) fluoranthene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Benzo (k) fluoranthene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Benzo (g,h,i) perylene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Benzo (a) pyrene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Bis(2-chloroethoxy)methane	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Bis(2-chloroethyl)ether	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Bis(2-chloroisopropyl)ether	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Bis(2-ethylhexyl)phthalate	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
4-Bromophenyl phenyl ether	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-

Lab Sample Number:	B5D0500720	B5B0300960	B4K0400180	B5B0300960							
Site	NADEP	NADEP-7	NADEP-7	NADEP-7							
Locator	07G00101	07Z00101	TRIPBLANK	TRIPBLANK							
Collect Date:	02-APR-95	02-FEB-95	03-NOV-94	02-FEB-95							
VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

Butyl benzyl phthalate	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
2-Chloronaphthalene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
2-Chlorophenol	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
4-Chlorophenyl phenyl ether	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Chrysene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Dibenzo (a,h) anthracene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Di-n-butyl phthalate	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
1,2-Dichlorobenzene	1 U	ug/l	1	10 U	ug/l	10	-	1 U	ug/l	1	-
1,3-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1	-
1,4-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1	-
3,3'-Dichlorobenzidine	50 U	ug/l	50	50 U	ug/l	50	-	-	-	-	-
2,4-Dichlorophenol	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Diethyl phthalate	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
2,4-Dimethylphenol	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Dimethyl phthalate	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Di-n-octyl phthalate	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
2,4-Dinitrophenol	50 U	ug/l	50	50 U	ug/l	50	-	-	-	-	-
2,4-Dinitrotoluene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
2,6-Dinitrotoluene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Fluoranthene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Fluorene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Hexachlorobenzene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Hexachlorocyclopentadiene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Hexachloroethane	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Isophorone	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Naphthalene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Nitrobenzene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
2-Nitrophenol	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
4-Nitrophenol	50 U	ug/l	50	50 U	ug/l	50	-	-	-	-	-
N-Nitrosodimethylamine	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
N-Nitrosodi-n-propylamine	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
N-Nitrosodiphenylamine	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Pentachlorophenol	50 U	ug/l	50	50 U	ug/l	50	-	-	-	-	-
Phenanthrene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Phenol	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Pyrene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
1,2,4-Trichlorobenzene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
2,4,6-Trichlorophenol	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
Hexachlorobutadiene	10 U	ug/l	10	10 U	ug/l	10	-	-	-	-	-
TOTAL METALS											
Cadmium	5 U	ug/l	5	5 U	ug/l	5	-	-	-	-	-
Chromium	50 U	ug/l	50	50 U	ug/l	50	-	-	-	-	-
Arsenic	5 U	ug/l	5	9.3	ug/l	5	-	-	-	-	-
Lead	18.7 U	ug/l	5	541	ug/l	5	-	-	-	-	-
TRPH											
Total petroleum hydrocarbons	9940	mg/L	1	1 U	mg/l	1	-	-	-	-	-

U = Not Detected J = Estimated Value

NADEP AVGAS PIPELINE SITE 7
Tentatively Identified Compounds

Lab Sample Number:	B580300960	B500500720
Site	NADEP-7TIC	NADEP
Locator	07200101	07G00101
Collect Date:	02-FEB-95	02-APR-95
VALUE	QUAL UNITS	DL
VALUE	QUAL UNITS	DL

TENTATIVELY IDENTIFIED CMPNDS.

Diphenyl Ether	19	ug/l		
Sulfur, Mol. (S8)	9	ug/l		
Pyridazine, 3-Chloro-6-(Methyl Sulfur	11	ug/l		
	58	ug/l		
1,2,4-Trithiolane			69	ug/l
Caprolactam			38	ug/l
1,2,4,5-Tetrathiane			17	ug/l
1,2,4,6-Tetrathiepane			10	ug/l
Dodecanamide, N,N-Bis			6	ug/l

U = Not Detected J = Estimated Value