CHARACTERIZATION PHASE

Assessment of Ground-Water Contamination at Naval Air Station Jacksonville, Florida

Prepared for

NAVAL FACILITIES
ENGINEERING COMMAND
SOUTHERN DIVISION
Charleston, South Carolina

MARCH 1986

GERAGHTY & MILLER, INC.
GROUND-WATER CONSULTANTS

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Geraghty & Miller, Inc.

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Prepared by

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March 21, 1986

Mr. James Malone
Southern Division
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Dear Mr. Malone:

Enclosed please find eight copies of the final Characterization Report for the Naval Air Station (NAS) and Naval Fuel Depot (NFD), Jacksonville, Florida. This report represents the completion of the Confirmation Study at the NAS and NFD.

Based on the findings of the Confirmation Study (verification and characterization phase), only one area, NARF, which consists of five sites (Site Nos. 11, 12, 14, 15, and 16) is recommended for further investigation prior to evaluating remedial alternatives for this area. The additional laboratory results for soil sampling at Site No. 28, which was recommended in the verification report, are expected to be available by the end of March.

Geraghty & Miller, Inc. greatly appreciates the opportunity to perform this investigation for the Navy.

Please call should there be any questions concerning the finding and recommendations contained herein.

Respectfully submitted,

GERGHTY & MILLER, INC.

Fred A. Seguiti
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Enclosures
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INTRODUCTION

As recommended in Geraghty & Miller, Inc. (G&M)'s report dated December 1985 (Verification Study Report), additional hydrogeologic information was obtained for better definition of ground-water contamination at specific sites within the Naval Air Station (NAS) and Naval Fuel Depot (NFD), Jacksonville, Florida. This previous report also provides a description of the NAS-Jacksonville history, site-specific background data, and local and regional hydrogeologic information. This type of information is contained herein only where it bears on the work performed during the characterization phase, the results of which are contained herein. During 1985, a total of 16 monitor wells were installed and 15 shallow soil samples were obtained. Water samples were analyzed for the presence of volatile and other organic priority pollutants, PCBs, selected metals, and radioactivity. Soil samples were tested for PCBs and selected metals.

WORK PERFORMED

During the characterization phase of the Confirmation Study, twelve additional monitor wells were installed in the NARF (Navy Air Rework Facility) area, two wells at Site 30 and two wells were installed at the Naval Fuel Depot (NFD) Site 5. The wells are constructed of 2-inch diameter PVC, with 5 ft (feet) of slotted screen. Most of the wells are less than 20 ft deep; however, two deep wells

D-1 and D-2 having 10-ft screens were installed at NARF to depths of 68 and 61 ft, respectively. The well screens are gravel-packed; cement grout extends from two feet above the screen to land surface. A construction diagram of a typical monitor well at the site is shown in Figure 1. Well construction details for the monitor wells installed in 1985 are given in Table 1. A summary table of all monitor wells installed during the Confirmation Study (verification and characterization) is given in Appendix A.

The location of monitor wells, as well as pertinent analytical data, lithologic logs, and water-level information are included in the individual site descriptions presented in subsequent sections of this report. Water-level measurements collected at various times during the project have been summarized in Appendix B.

All field work for the characterization study was carried out according to the procedures developed in the previous investigation, as detailed in G&M's report of December, 1985. Well installation, surveying, lithologic description and water sampling were supervised or performed by G&M hydrogeologists. Chemical analyses of water and soil samples were performed by a private laboratory. Analytical methods, sample-collection methods, chain-of-custody and quality-assurance procedures were in accordance with U.S. EPA

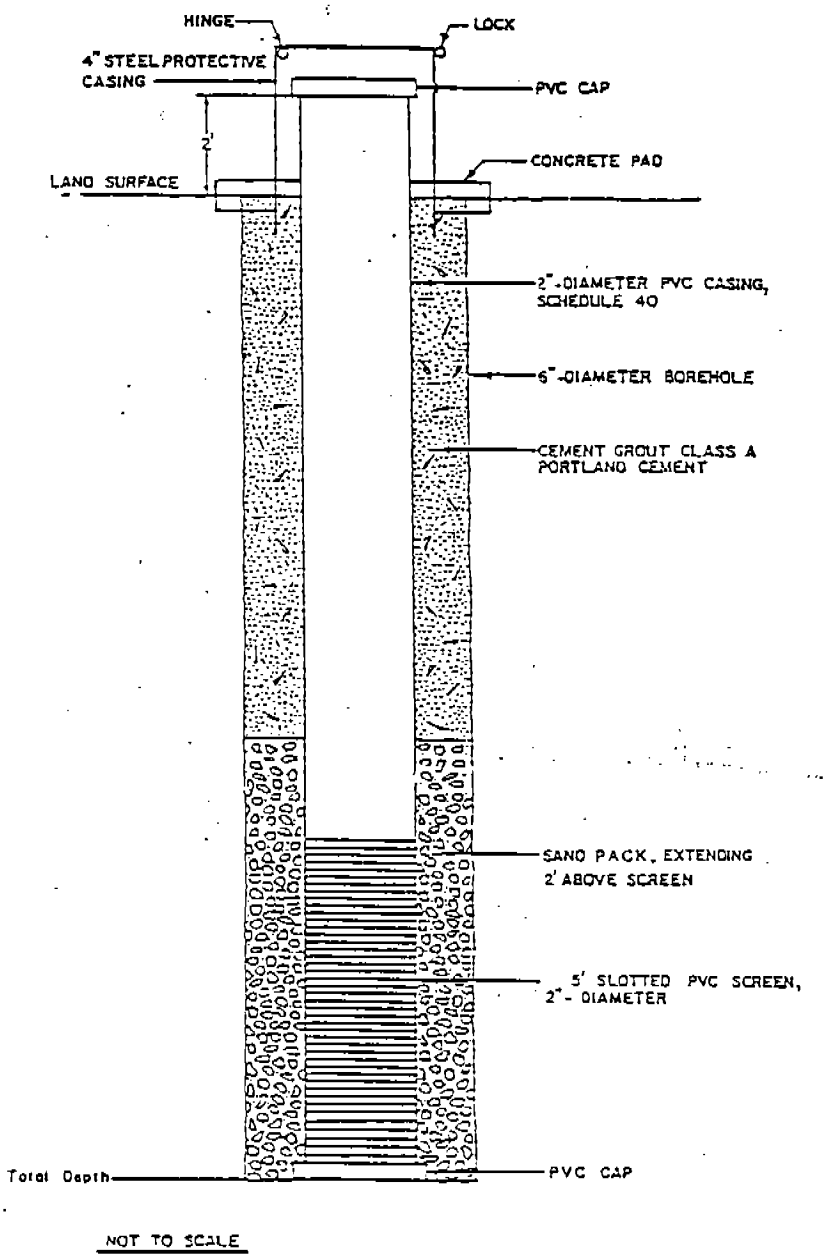

Figure 1. Construction Diagram for a Typical Shallow Monitor Well

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TABLE 1. WELL-CONSTRUCTION DATA, 1985 1/

WELL NO.	DATE INSTALLED	DEPTH OF SCREEN SETTING (FT BELOW LAND SURFACE)	LAND-SURFACE ELEVATION (FT, MSL) 2/	MEASURING POINT ELEVATION (FT, MSL) 2/
NARF-9	3-85	19-24	15.2	17.33
NARF-10	3-85	11-16	9.7	10.62
NARF-11	3-85	19-24	16.3	18.33
NARF-12	3-85	10-15	3.9	6.07
NARF-13	3-85	11-16	6.6	8.47
NARF-14	3-85	9-14	9.3	9.04
NARF-15	3-85	10-15	8.6	10.85
NARF-16	3-85	9-14	8.9	9.15
NARF-17	3-85	10-15	10.4	12.22
NARF-18	3-85	10-15	8.4	7.93
NARF D-1	3-85	58-68	9.3	8.85
NARF D-2	3-85	51-61	9.8	10.50
NAS 30-4	3-85	10-15	-	24.82
NAS 30-5	3-85	7-12	-	24.86
NFD-3	3-85	3-8	-	-
NFD-4	3-85	3-8	-	-

1/ All wells have 2-inch diameter threaded PVC casing, Schedule 40, and screens.

2/ ft, msl means feet above mean sea level.

(Environmental Protection Agency) and FDER (Florida Department of Environmental Regulation) requirements or guidelines.

SITE ASSESSMENT AND RECOMMENDATIONS

NARF Area (Site Nos. 11, 12, 14, 15, 16)

Findings

In each of two areas within NARF where ground-water contamination had been noted in the previous investigation, one deep and five shallow monitor wells have been installed. In the northeast, the new wells are D-1, and 14 through 18; in the southeast, wells D-2 and 9 through 13 have been installed. Their location is shown in Figure 2. Lithologic logs (Table 2) indicate that the dominant material penetrated by the shallow wells (16 to 24 ft below land surface) is silty sand, of moderate permeability. Reported clay zones are generally less than six ft thick and have large admixtures of sand; they may contain thin lenses of compact clay. An extensive clayey zone was logged at D-1 from 11 to 32 ft (Table 2), but apparently is absent in D-2. Predominantly sandy material extends to 68 ft at D-1, and to 61 ft at D-2. Both borings bottom in gray-green clay of the Hawthorn Formation.

Water-table elevations in the NARF area on September 18, 1985, are shown in Figure 3. The contours indicate a generally easterly flow of ground water in the surficial aquifer, at gradients of about 0.003 to 0.004 (3 to 4 ft per 1000 ft). Southerly ground-water flow toward Black Point is at gradients that are about twice as steep. The water levels

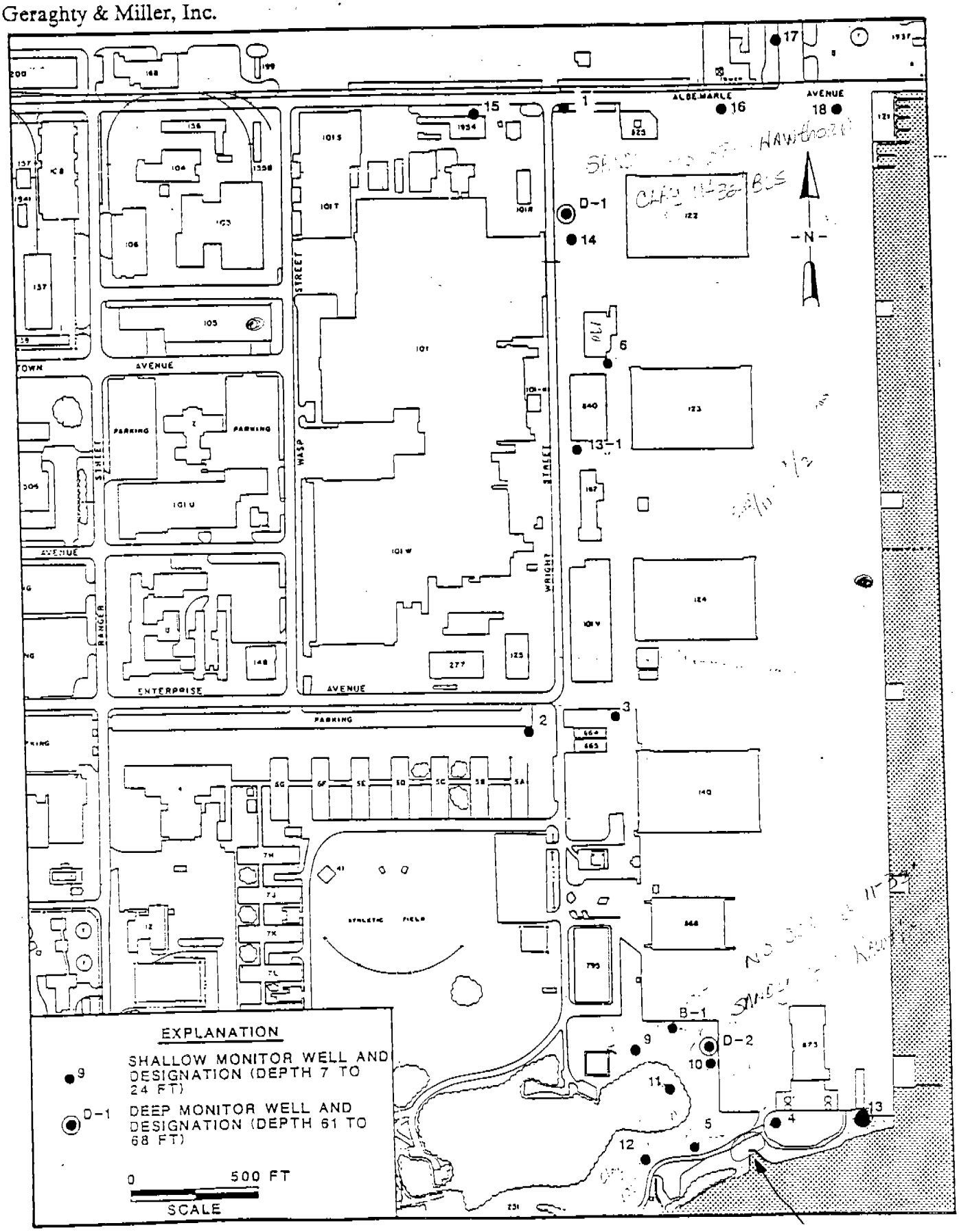

Figure 2. Well Locations, NARF

TABLE 2. LITHOLOGIC LOGS, NARF

LITHOLOGIC LOG FOR MONITOR WELL NARF-9

Description	Depth (ft)	Thickness (ft)
Asphalt and limestone base.....	0 - 0.5	0.5
Sand, fine-grained, silty, tan.....	0.5 - 7.5	7.0
Clay, very sandy, dry, orange and gray....	7.5 - 14.0	6.5
Sand, fine-grained, silty, gray.....	14.0 - 24.0	10.0

LITHOLOGIC LOG FOR MONITOR WELL NARF-11

Description	Depth (ft)	Thickness (ft)
Sand, fine-grained, silty, brown to tan...	0 - 9.0	9.0
Sand, fine-grained, clayey, orange.....	9.0 - 10.0	1.0
Clay, very sandy, orange.....	10.0 - 14.0	4.0
Sand, fine-grained, silty, gray to tan....	14.0 - 24.0	10.0

LITHOLOGIC LOG FOR MONITOR WELL NARF-12

Description	Depth (ft)	Thickness (ft)
Sand, fine-grained, silty, tan; with organics and clay lenses.....	0 - 2.0	2.0
Sand, fine-grained, silty, tan to light gray.....	2.0 - 16.0	14.0

TABLE 2. Continued

LITHOLOGIC LOG FOR MONITOR WELL NARF-17

Description	Depth (ft)	Thickness (ft)
Sand, fine-grained, silty, brown to light gray.....	0 - 13.5	13.5
Clay, very sandy, gray, plastic.....	13.5 - 14.0	0.5
Sand, fine-grained, silty, brown to tan...	14.0 - 15.5	1.5
Clay, very sandy, gray, plastic.....	15.5 - 16.0	0.5

LITHOLOGIC LOG FOR MONITOR WELL NARF-18

Description	Depth (ft)	Thickness (ft)
Asphalt and limerock base.....	0 - 0.5	0.5
Sand, fine-grained, silty, white to tan...	0.5 - 15.0	14.5
Clay, very sandy, gray, plastic.....	15.0 - 16.0	1.0

TABLE 2. Continued

LITHOLOGIC LOG FOR MONITOR WELL NARF D-1

Description	Depth (ft)	Thickness (ft)
Concrete.....	0 - 1.0	1.0
Sand, fine-grained, silty, tan, clay lens at 4.5'.....	1.0 - 6.0	5.0
Sand, fine-grained, silty, brown to gray; with limestone fragments.....	6.0 - 11.0	5.0
Clay, slightly sandy, gray-green, stiff...	11.0 - 16.0	5.0
Clay, very sandy, gray-green, soft.....	16.0 - 23.0	7.0
Clay, plastic, gray, stiff, with sand seams.....	23.0 - 32.0	9.0
Sand, fine-grained, slightly clayey, gray.	32.0 - 35.0	3.0
Sand, fine-grained, silty, white to tan to gray.....	35.0 - 68.0	33.0
Clay, gray-green, stiff, plastic.....	68.0 - 70.0	2.0

TABLE 2. Continued

LITHOLOGIC LOG FOR MONITOR WELL NARF-13

Description	Depth (ft)	Thickness (ft)
Sand, fine-grained, silty, tan to gray....	0 - 4.0	4.0
Sand, fine-grained, slightly clayey, gray.	4.0 - 5.0	1.0
Clay, sandy, stiff, green.....	5.0 - 10.0	5.0
Sand, fine-grained, silty, light gray to cream.....	10.0 - 16.0	6.0

LITHOLOGIC LOG FOR MONITOR WELL NARF-14

Description	Depth (ft)	Thickness (ft)
Concrete.....	0 - 1.0	1.0
Sand, fine-grained, silty, tan to cream...	1.0 - 6.0	5.0
Clay, green, plastic.....	6.0 - 6.5	0.5
Sand, fine-grained, silty, brown with limestone fragments.....	6.5 - 10.0	3.5
Sand, fine-grained, silty, brown with clay lenses.....	10.0 - 12.0	2.0
Sand, fine-grained, silty, brown.....	12.0 - 13.5	1.5
Clay, sandy, green, plastic.....	13.5 - 16.0	2.5

TABLE 2. Continued

LITHOLOGIC LOG FOR MONITOR WELL NARF-15

Description	Depth (ft)	Thickness (ft)
Sand, fine-grained, silty, brown to light gray.....	0 - 8.5	8.5
Clay, gray-green, soft.....	8.5 - 9.0	0.5
Sand, fine-grained, silty, tan to light tan.....	9.0 - 15.0	6.0
Clay, sandy, gray-green, stiff.....	15.0 - 16.0	1.0

LITHOLOGIC LOG FOR MONITOR WELL NARF-16

Description	Depth (ft)	Thickness (ft)
Sand, fine-grained, silty, tan to cream...	0 - 4.0	4.0
Sand, fine-grained, silty, cream to brown, with clay lenses.....	4.0 - 9.5	5.5
Clay, gray, soft, with fine sand lenses...	9.5 - 10.0	0.5
Sand, fine-grained, silty, tan, with clay lenses.....	10.0 - 13.5	3.5
Clay, gray-green, soft, with fine sand lenses.....	13.5 - 16.0	2.5

TABLE 2. Continued

LITHOLOGIC LOG FOR MONITOR WELL NARF D-2

Description	Depth (ft)	Thickness (ft)
Sand, fine-grained, silty, tan.....	0 - 3.0	3.0
Sand, fine-grained, clayey, orange	3.0 - 8.0	5.0
Sand, fine-grained, silty, light brown to gray.....	8.0 - 32.0	24.0
Sand, fine-grained, silty, gray to tan; with clay lenses.....	32.0 - 40.0	8.0
Sand, fine-grained, silty, light gray to tan.....	40.0 - 60.0	20.0
Sand, medium-grained, orange.....	60.0 - 61.0	1.0
Clay, gray-green, soft.....	61.0 - 66.0	5.0

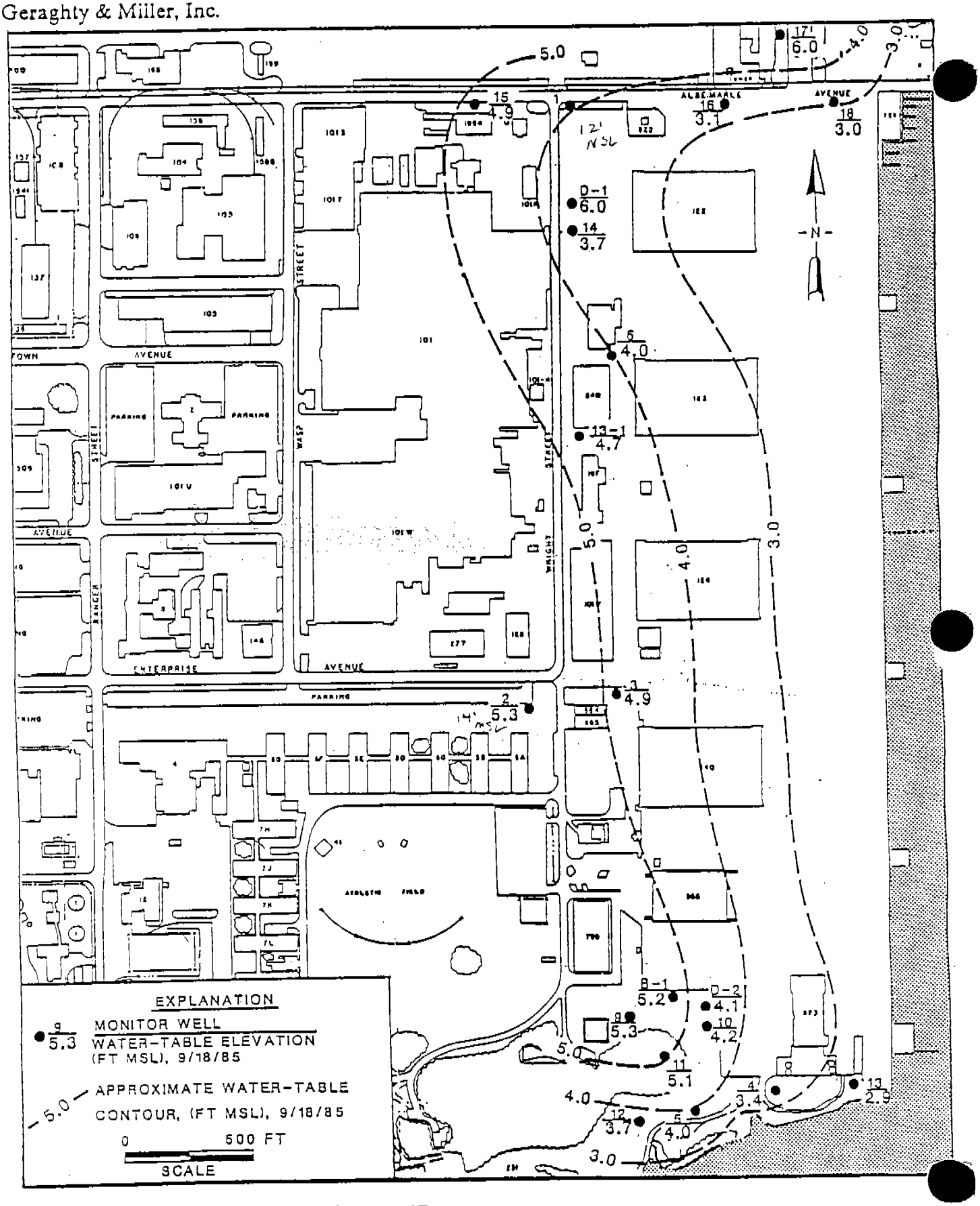

Figure 3. Water-Table Elevation, NARF

determined on September 18, 1985 were uncommonly high and average gradients probably are considerably lower.

Approximate ground-water flow velocities may be calculated by estimating the hydraulic conductivity and the effective porosity of the aquifer material. As shown on Table 5 of the verification report, vertical permeabilities ranged from a low of 2.70×10^{-6} to a high of 5.6×10^{-3} cm/sec (centimeters per second) or 3600 gpd/ft. For the silty sands encountered in the NARF area, containing small amounts of clay, a horizontal hydraulic conductivity of 1×10^{-3} cm/sec, and an effective porosity of 0.20 (20 percent) may be estimated. This information combined with a gradient of 0.004, average velocities might be of the order of 20 ft/year. Furthermore, the presence of a sea wall along the eastern boundry of the NARF impedes the movement of ground water to the adjacent St. Johns River.

In April 1985, water samples were obtained from 12 new monitor wells and from six wells installed previously. Analytical results are given in Appendix C, Section 1. Nearly all samples were found to contain VOCs (volatile organic compounds) in concentrations ranging from trace amounts to several tens of ug/l (micrograms per liter) of total VOCs. Very large concentrations (>13,400 ug/l) were found only in one sample, B-1.

Four wells (B-1, D-1, D-2, and 6) were tested for the presence of other priority pollutants, including base/neutral

and acid-extractable fractions, 11 metals, and PCBs. Water samples from these wells were found to be free of any priority pollutants other than VOCs.

In the northeastern part of NARF, total VOC concentrations were as high as 62 ug/l at well 17 and 68 ug/l in the sample from the deep well D-1. Only traces (1.1 ug/l) were determined in the sample from the nearby shallow well 14. VOCs ranged from 15 to 47 ug/l in other wells; none were detected in two samples (15 and 18). In the northeastern area, toluene is the principal contaminant, in concentrations as high as 57 ug/l. Other contaminants, commonly reported in trace amounts, are carbon tetrachloride, bromodichloro-methane, and 1,1,1 - trichloroethane. TCE (trichloroethene) has not been detected in recent samples from the northeastern part of NARF, however, traces of that solvent were determined in two wells in 1983. Total VOC and toluene concentrations in ground-water samples are shown in Figure 4. The content of TCE and 1,1,1 - trichloroethane in water samples is shown in Figure 5.

In the southeastern part of the NARF area, ground-water contamination by VOCs is generally of the same magnitude and by the same compounds identified in the northeastern section. Thus total VOCs generally range from 4 to 88 ug/l; toluene being the principal contaminant. At B-1, however, samples obtained in April 1985 contained more than 13,400 ug/l total VOCs, principally TCE and 1,1,1- trichloroethane. The

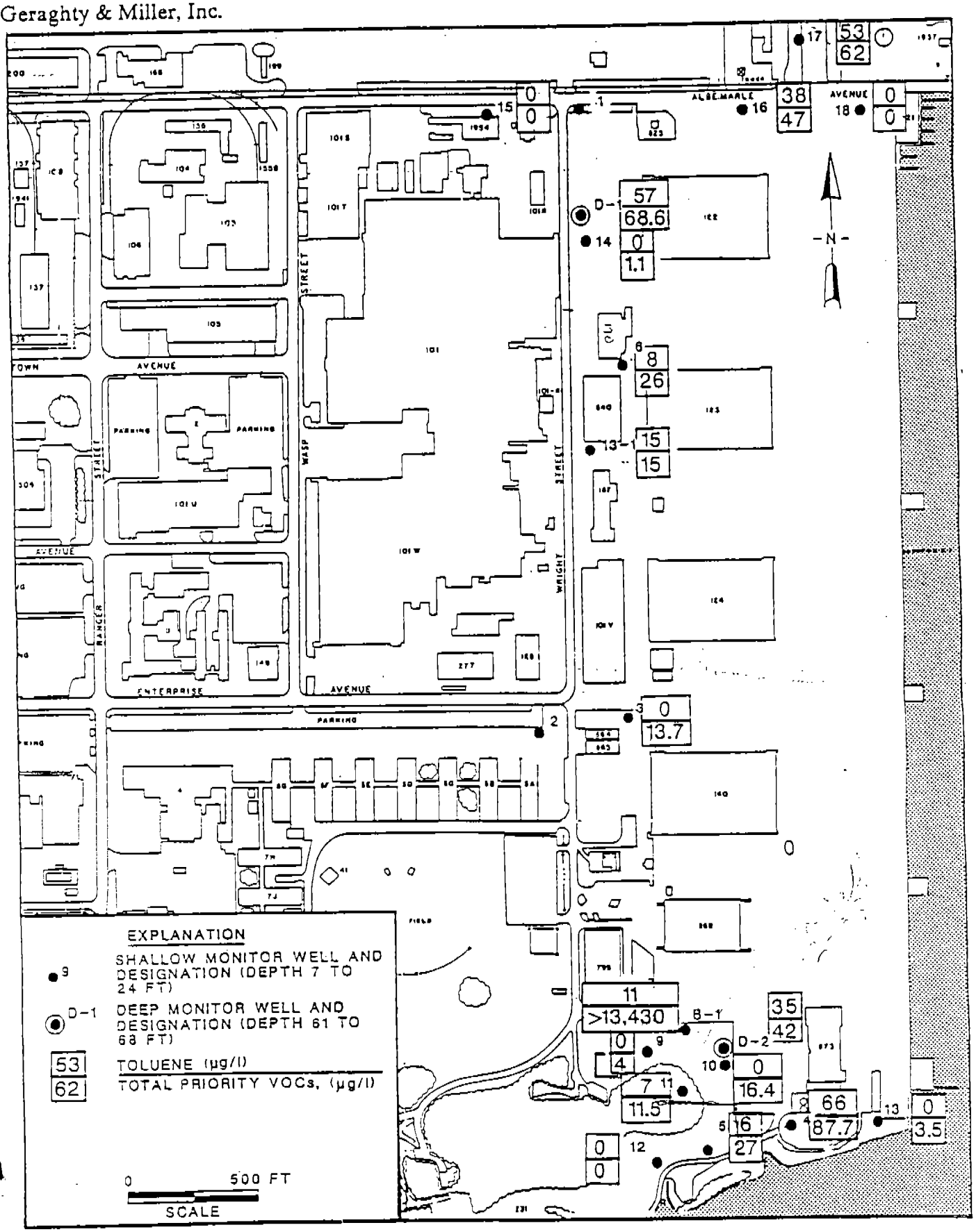

Figure 4. Total VOC and Toluene Concentrations, NARF

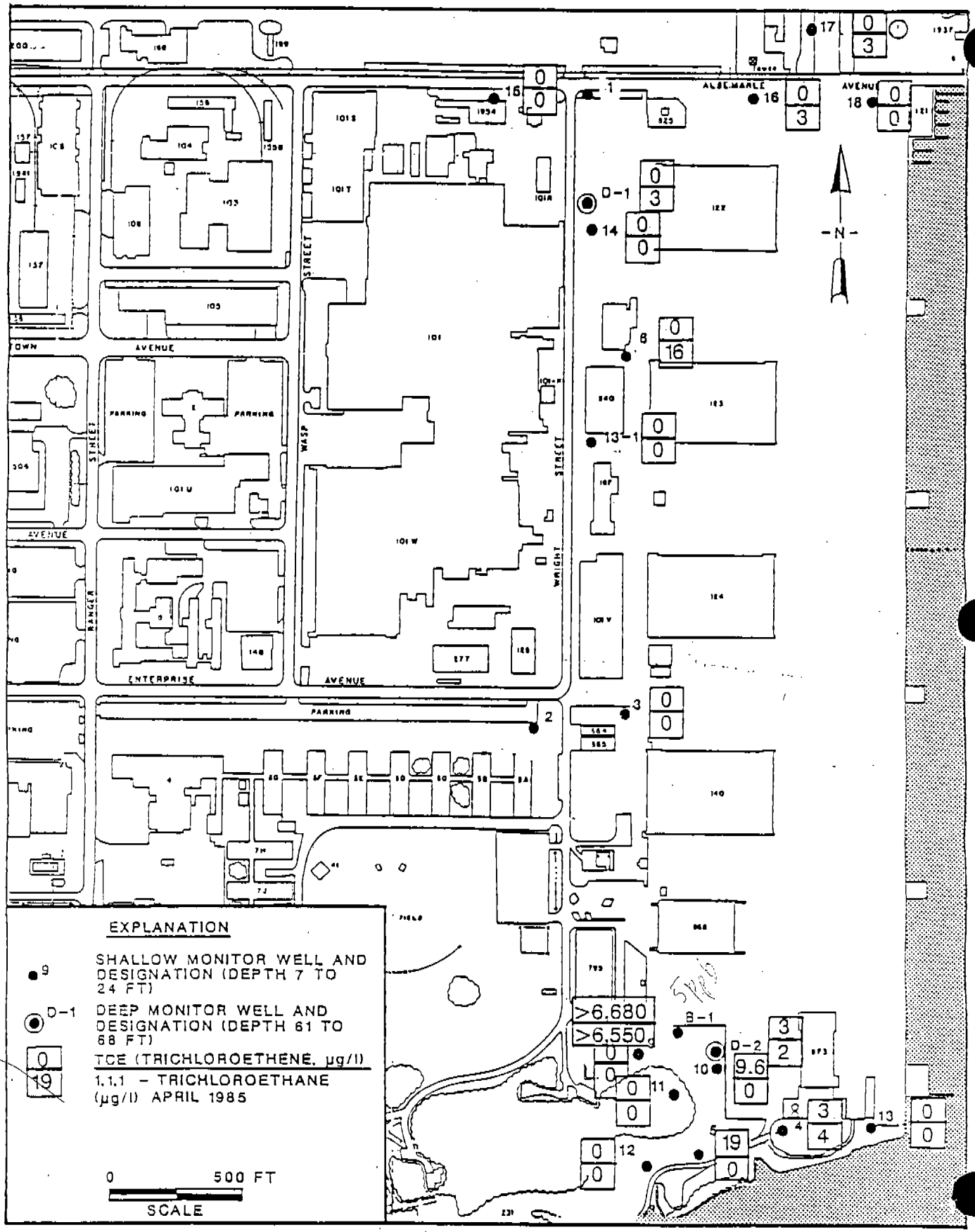

Figure 5. TCE and 1,1,1,-Trichloroethane Concentrations, NARF

concentrations of these compounds were not quantified in the most recent analysis; for September 1983, however, concentrations of 155,300 and 25,500 ug/l, respectively, have been reported. In addition to the compounds named, the sample from B-1 contained 170 ug/l of 1,1,2 - trichloroethane and traces of other solvents (Appendix C, Section 1).

Monitor well B-1 is screened in silty sands from 13 to 16 ft. In other nearby shallow wells, TCE and 1,1,1-trichloroethane were not detected (wells 9 and 11) or were present in relatively low concentrations. The sample from the deep well, D-2, contained 3 ug/l TCE, as shown in Figure 5. The relative position of monitoring well B-1 and nearby wells, their screen settings, and general lithology are indicated in a fence diagram, Figure 6.

As indicated by the contours shown in Figure 3, shallow ground-water flow in the water-table aquifer is toward the St. Johns River. Water-level measurements (Appendix B) from the paired deep and shallow monitor wells (D-1 and 14, D-2 and 10) reveal that there is a net upward hydraulic gradient in the northeast portion of NARF and either no vertical gradient or a slight downward hydraulic gradient in the southeast section. As discussed earlier, there is an approximately 21 ft thick clayey zone in the subsurface at D-1. Neither deep well penetrated the shallow rock aquifer which is thought to be absent in this area.

The water-table is not used as drinking-water source in

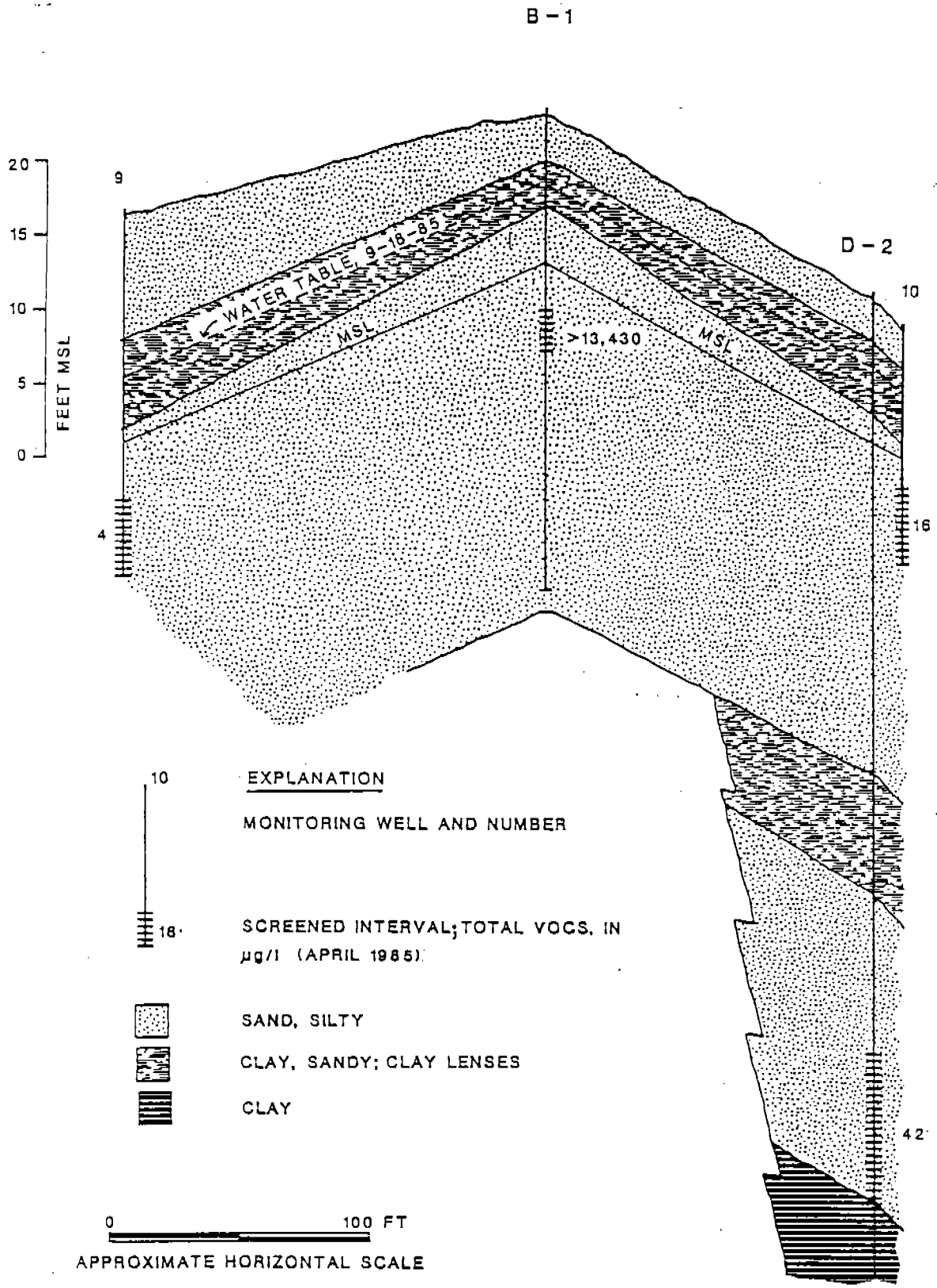

Figure 6. Fence Diagram, NARF

the NARF area. All water supplies are obtained from wells tapping the Floridan aquifer, at depths of 400 to 1,200 ft which has water-levels that are considerable higher than the water table. Most supply wells reportedly flow at land surface. Therefore, the potential of contamination of the Floridan from shallow sources in the NARF area is generally negligible.

Recommendations

In view of the large concentrations of priority VOCs determined at monitor well B-1, and the potential of contaminant migration, an interceptor well should be installed at this site. This interceptor well should be 6-inches or greater in diameter and an 8-hr pumping test should be performed on this well in order to determine aquifer characteristics. These data will be used to select the appropriate size of the pump. Water-quality samples will be collected and analyzed for VOCs (EPA Method 624) during the pumping test to determine the possibility of discharging the recovered ground water to the domestic sewage treatment plant, or used to design an air-stripping tower to treat the recovered water should pretreatment be required.

Inasmuch as there are discrepancies in concentrations and compounds reported in 1985, compared to earlier analyses, it is recommended that all NARF wells in which contaminants have been detected, be resampled; analysis will consist of a determination of priority VOCs (EPA Method 624). Wells to be

resampled are:

NARF B-1, D-1, D-2

NARF 4, 5, 6, 9, 10, 11

NARF 13, 13-1, 14, 16, 17

Using the laboratory results of the resampling program, as well as the previous results, a risk assessment will be conducted to determine the risks associated with the no-action alternative. Based on these results, the need for additional recovery wells will be evaluated. Moreover, well NARF 2, for which no samples were obtained in April, 1985, should be resampled. Monitor well NARF-1 has been damaged due to vehicular traffic; accordingly, this well should be either repaired or properly abandoned.

As a precuation, water-supply wells in the vicinity of the NARF area tapping the Floridan aquifer should be sampled and analyzed for the presence of VOCs (EPA Method 624).

Fire Pit (Site No. 28)

Findings and Recommendations

The composite soil sample collected during the verification study contained relatively large concentrations of PCBs and it was recommended at the time to resample the soils of the fire pit area. Soil samples from 16 locations (Figure 7) have not been collected as of the report date; therefore recommendations for this site cannot be made. An addendum to this report detailing the laboratory results of this sampling will be provided when available.

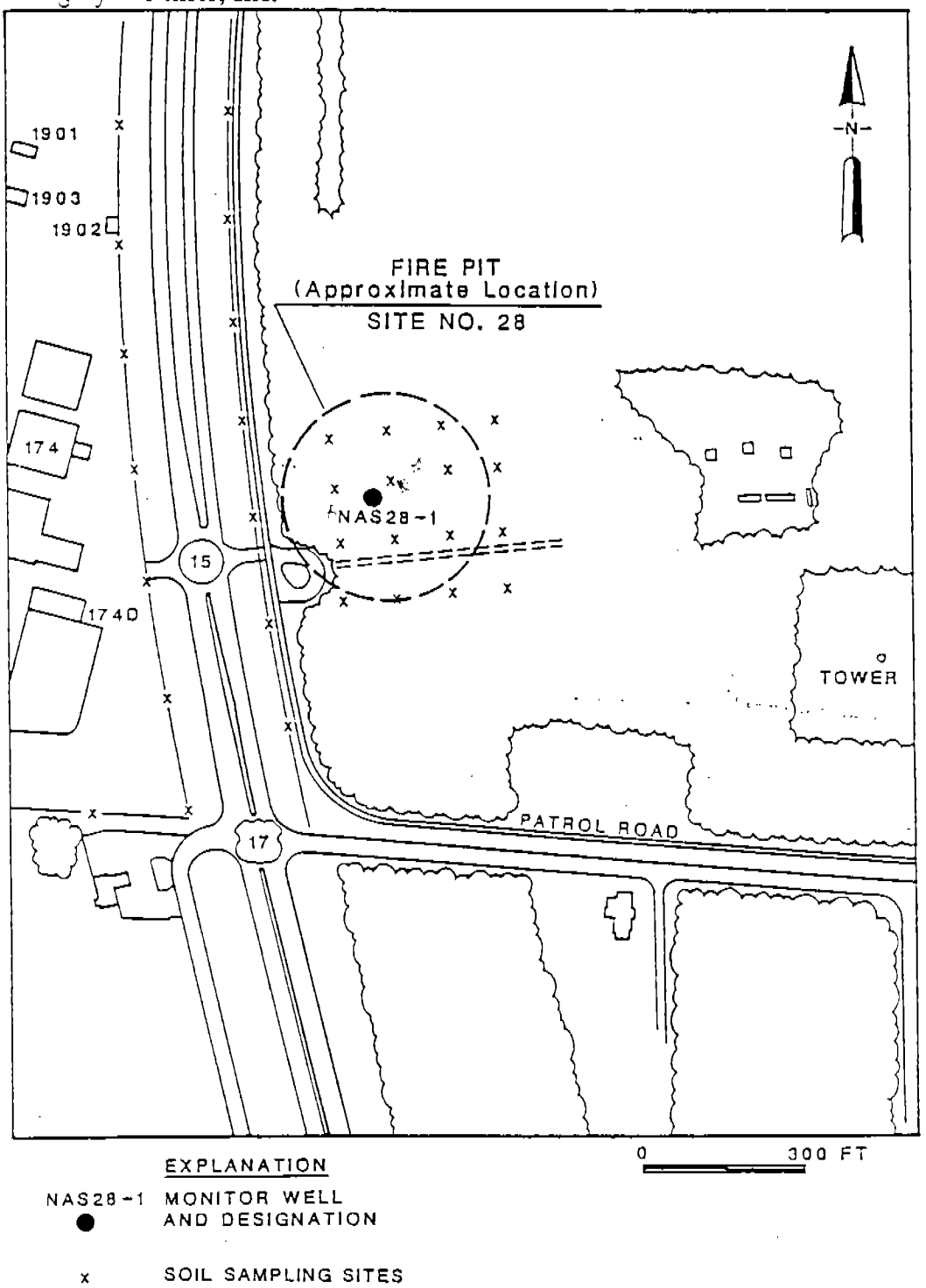

Figure 7. Location of Wells and Sampling Sites, NAS Site No. 28

Organic Disposal Area (Site No. 29)

Findings and Recommendations

As recommended in the verification study, nine soil samples were tested for the presence of cadmium (Cd) by the EP (Extraction Procedure) toxicity method. For eight samples, concentrations of <0.1 ppm Cd were determined; one sample, No. 4, had a concentration of 0.19 ppm Cd (Figure 8 and Appendix C, Section 2). None of these samples exceeded the EP toxicity of 1.0 ppm for Cd; therefore these soils are not considered to be a hazardous waste.

Water-quality samples collected in April 1984, from two monitor wells, NAS 29-1 and 29-2 contained only traces of VOCs. Based on these data, the site does not pose a risk to public health or the environment and no further action is recommended for this site.

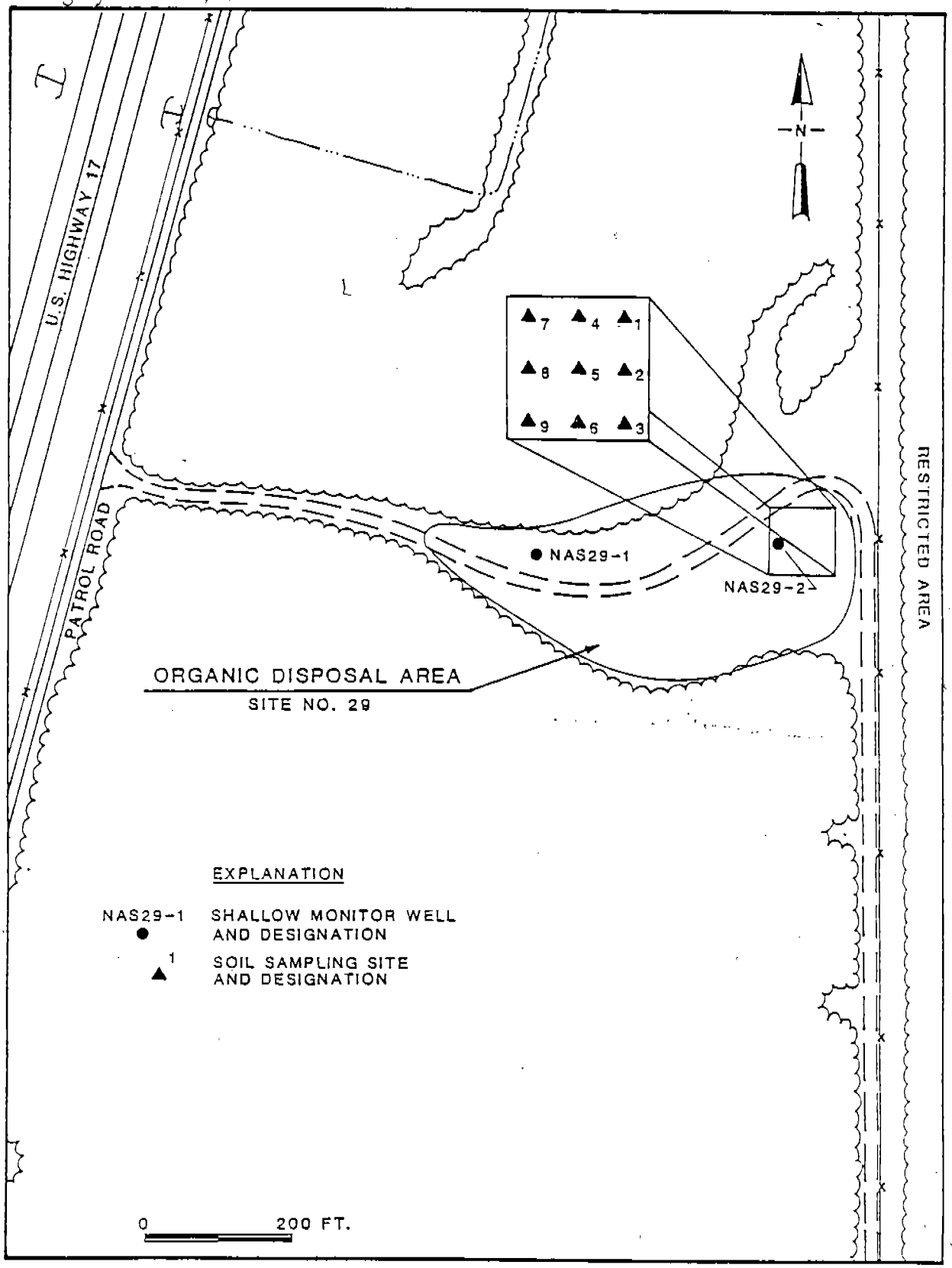

Figure 8. Location of Wells and Sampling Sites, NAS Site No. 29

TABLE 3. LITHOLOGIC LOGS, NAS SITE 30

LITHOLOGIC LOG FOR MONITOR WELL NAS30-4

Description	Depth (ft)	Thickness (ft)
Sand, fine-grained, silty, brown to white, with clay lenses.....	0 - 4.0	4.0
Clay, sandy, gray to orange, stiff.....	4.0 - 8.0	4.0
Sand, fine-grained, silty, slightly clayey, gray.....	8.0 - 15.5	7.5
Clay, sandy, gray, soft.....	15.5 - 16.0	0.5

LITHOLOGIC LOG FOR MONITOR WELL NAS30-5

Description	Depth (ft)	Thickness (ft)
Sand, fine-grained, silty, brown; mixed with organics.....	0 - 4.5	4.5
Clay, sandy, dark gray to brown; stiff....	4.5 - 7.0	2.5
Sand, medium-grained, clayey, gray.....	7.0 - 8.0	1.0
Sand, fine-grained, silty, gray.....	8.0 - 9.0	1.0
Clay, very sandy, green to gray with sand lenses.....	9.0 - 16.0	7.0

The soils in the area around sample Nos. 3 and 4 should be removed and disposed of in an approved hazardous waste landfill. During removal, samples should be taken in the immediate vicinity and analyzed for EP toxicity (Cd) to assure that all of the soils exhibiting the characteristic for EP toxicity (EP) are removed.

NFA

Base Landfill (Site No. 32)

Findings and Recommendations

A water-quality sample from monitor well NAS 32-1 at the base landfill site (Figure 10) was analyzed for the presence of acid extractable and base/neutral organic priority pollutants, including chlorobenzenes and PCBs. As indicated by the analytical data (Appendix C, Section 4), the sample was free of any of these priority pollutants.

Based on the results of these analyses and the samples collected during the verification study the site does not pose a threat to public health or the environment. Therefore, no further action is recommended.

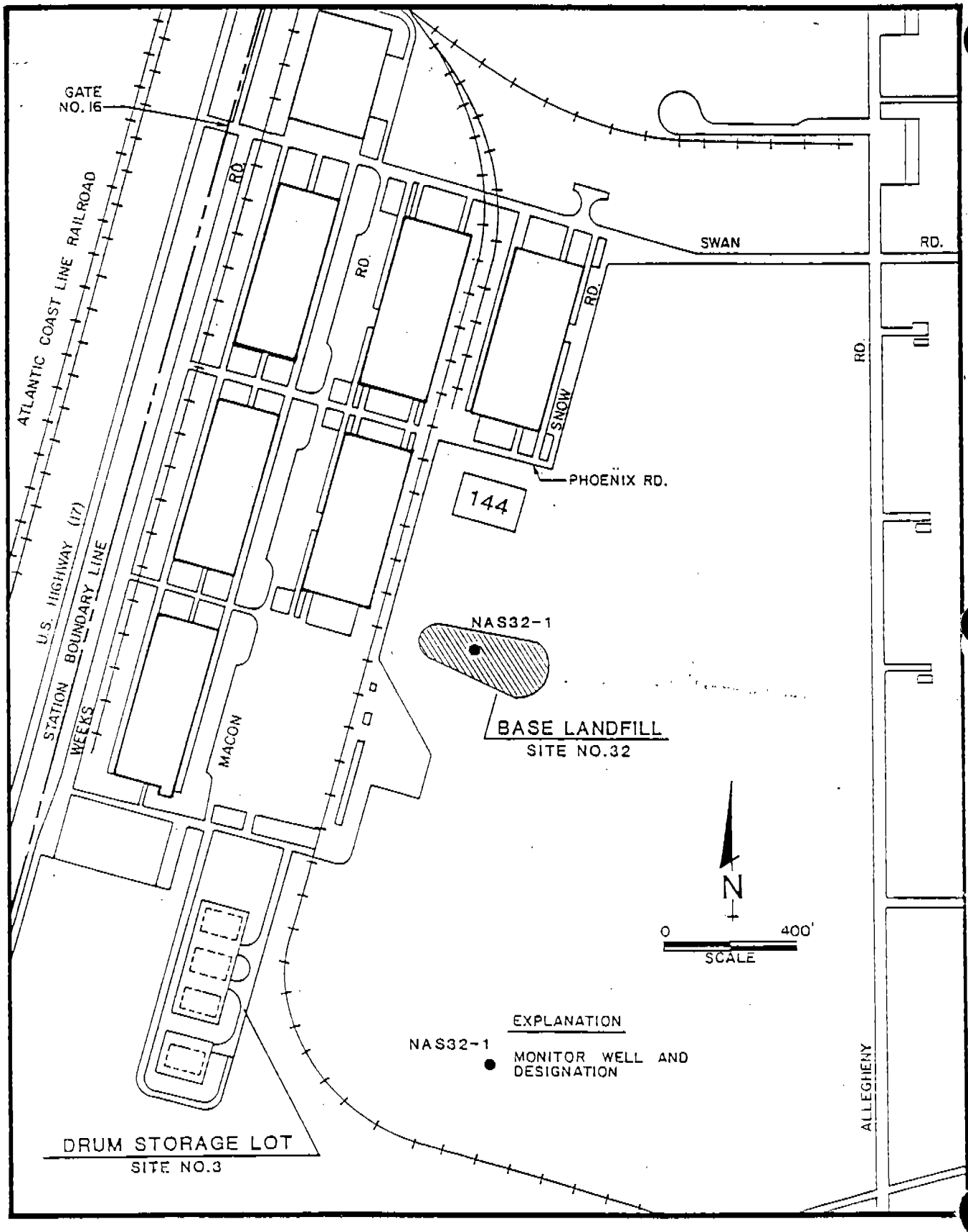

Figure 10. Well Location, Base Landfill Area, Site No. 32

NFD: Oil Pond and Land Spreading Area (Site No. 5)

Findings and Recommendations

Two additional monitor wells were installed south of the oil pond and the land spreading area of the NFD, as shown in Figure 11. The wells, NFD-3 and 4, penetrated predominately fine, silty sands to depths of 16 ft (lithologic logs, Table 4) and were screened from 3 to 8 ft. Water samples from wells NFD 2, 3, and 4, obtained in April 1985, were tested for eight aromatic hydrocarbons (EPA Method 602) and were found to be free of these compounds (Appendix C, Section 5). A scan of petroleum hydrocarbons indicated <1 mg/l for NFD-4 and only 1 mg/l in samples from wells 2 and 3.

The elevations of the monitor wells at Site No. 5 have not been surveyed, however, due to the site's proximity to the St. Johns River, it is presumed to be to the south and east. Based on the findings of the verification study and characterization study, the site does not appear to pose a threat to public health or the environment. Therefore, no future actions are recommended for this site.

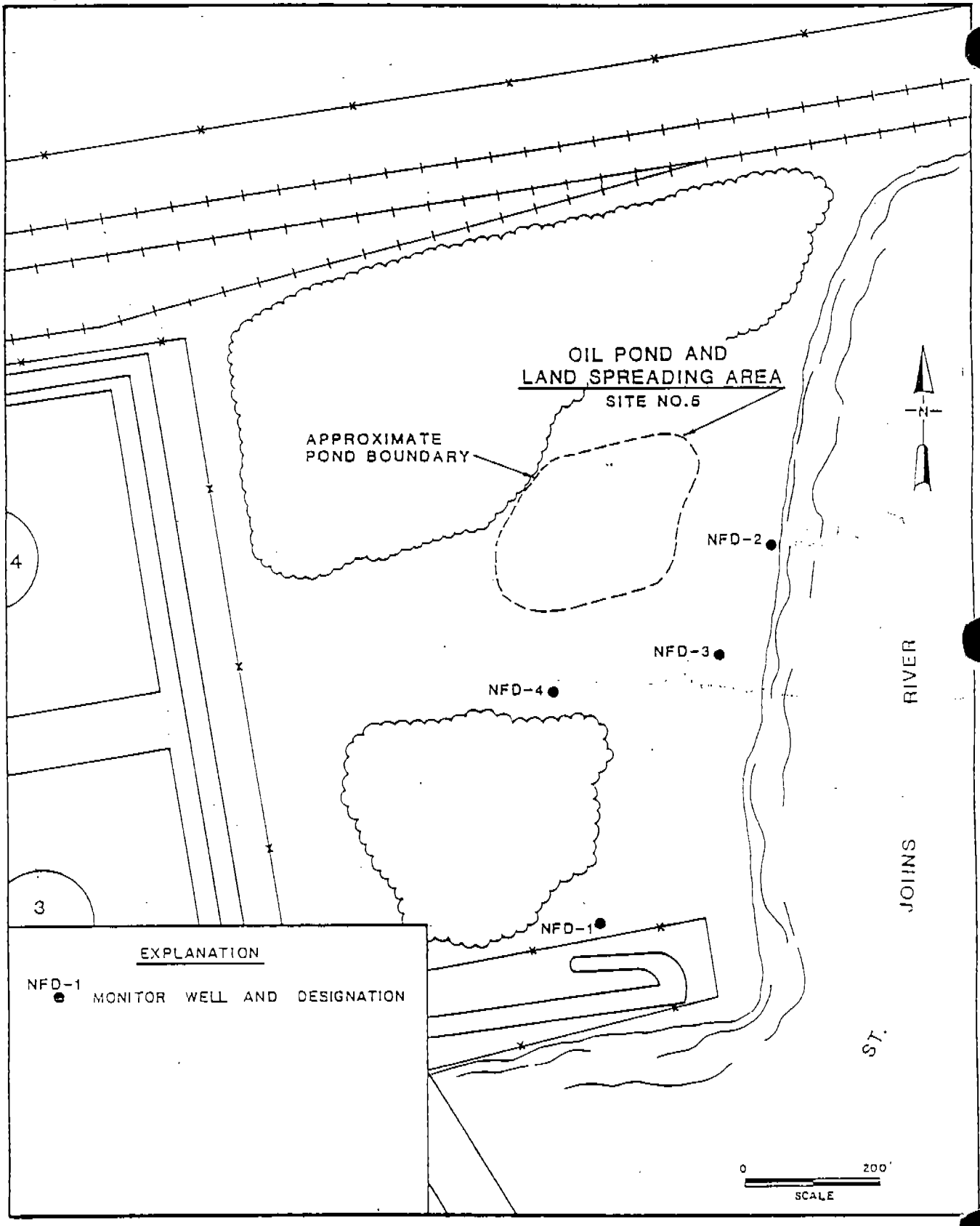

Figure 11. Well Locations, NFD Site No. 5

TABLE 4. LITHOLOGIC LOGS, NFD SITE NO. 5

LITHOLOGIC LOG FOR MONITOR WELL NFD-3

Description	Depth (ft)	Thickness (ft)
Sand, fine-grained, silty, tan to gray....	0 - 7.5	7.5
Sand, fine-grained, silty, slightly clayey, brown to gray.....	7.5 - 8.5	1.0
Sand, fine-grained, silty, gray.....	8.5 - 10.0	1.5

LITHOLOGIC LOG FOR MONITOR WELL NFD-4

Description	Depth (ft)	Thickness (ft)
Sand, fine-grained, silty, cream to gray..	0 - 2.0	2.0
Sand, fine to medium-grained, silty, dark gray to light gray.....	2.0 - 6.0	4.0
Sand, fine-grained, silty, brown to gray..	6.0 - 7.5	1.5
Sand, fine-grained, silty, slightly clayey, gray.....	7.5 - 8.5	1.0
Sand, fine-grained, silty, brown to gray..	8.5 - 16.0	7.5

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SUMMARY

During the confirmation study, 14 past waste disposal areas were considered for investigation (5 sites in NARF were considered as one). Upon completion of the verification phase, 8 sites were not recommended for future study under the characterization phase. Therefore, the characterization phase study consisted of additional field work to better define potential contamination of the soil matrix and shallow ground water at six sites (NARF, NAS Site Nos. 28, 29, 30, and 32; and NFD Site No. 5). The results of the characterization study suggest that only one site, NARF, warrants remedial action considerations. Also, the soil of NAS Site No. 28 should be resampled for PCBs. Based on the data collected during the Confirmation Study (both verification and characterization), the remaining sites (NAS Site Nos. 29, 30, 32 and NFD Site No. 5) should be disregarded for future investigation. The current status of each site identified at the NAS and NFD is presented in Table 5.

TABLE 5. CURRENT STATUS OF ALL SITES IDENTIFIED AT THE NAS AND NFD

SITE NO.	IDENTIFIED BY	VERIFICATION RECOMMENDED BY	CHARACTERIZATION RECOMMENDED BY	REMEDIAL ACTION RECOMMENDED BY	CURRENT STATUS
NAS					
1	IAS[1/]	NR[2/]	-	-	Complete
2	IAS	FDER[3/]	NR	-	Complete
3	IAS	NR	-	-	Complete
4	IAS	IAS	NR	-	Complete
5	IAS	NAS-JAX	NR	-	Complete
6	IAS	NR	-	-	Complete[5/]
7	IAS	NAS-JAX	NAS-JAX	Characterization	Design
8	IAS	NR	-	-	Complete
9	IAS	IAS	NR	-	Complete
10	IAS	NR	-	-	Complete
11	IAS	IAS	Verification	Characterization	RA Design
12	IAS	IAS	Verification	Characterization	RA Design
13	IAS	FDER	NR	-	Complete
14	IAS	IAS	Verification	Characterization	RA Design
15	IAS	IAS	Verification	Characterization	RA Design
16	IAS	IAS	Verification	Characterization	RA Design
17	IAS	IAS	NR	-	Closure Plan submitted
18	IAS	FDER	NR	-	Complete
19	IAS	IAS	NR	-	Tanks to be properly abandoned by the Navy
20	IAS	NR	-	-	Complete
21	IAS	NR	-	-	Complete
22	IAS	NR	-	-	Complete
23	IAS	NR	-	-	Complete
24	IAS	NR	-	-	Complete
25	IAS	NR	-	-	Complete
26	NAS-JAX	Prior to NACIP	-	NAS-JAX	Remedial action underway
27	IAS	NR	-	-	Complete
28	IAS	NAS-JAX	Verification	Characterization	Resampling
29	IAS	IAS	Verification	NR	Complete
30	IAS	IAS	Verification	Characterization	Sediment removal
31	IAS	NR	-	-	Complete
32	IAS	FDER	Verification	NR	Complete
33	IAS	NR	-	-	Complete
34	IAS	NR	-	-	Complete
35	IAS	NR	-	-	Complete
36	IAS	NR	-	-	Complete
37	IAS	NR	-	-	Complete
38	IAS	NR	-	-	Complete
39	NAS-JAX	NAS-JAX	NR	-	Complete
40	NAS-JAX	NAS-JAX	NR		
NFD					
1	IAS	NR	-	-	Complete
2	IAS	NR	-	-	Complete
3	IAS	NR	-	-	Complete
4	IAS	NR	-	-	Complete
5	IAS	IAS	Verification	NR	Complete

1/ IAS = Initial Assessment Study
2/ NR = Not recommended
3/ FDER = Florida Department of Environmental Regulation
4/ NA = Not applicable; site still under investigation
5/ RA Design = Remedial Action Design

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APPENDIX A

Well-Construction Data

APPENDIX A - WELL-CONSTRUCTION DATA
(Continued)

Well No.	Date Installed	Depth of Screen Setting (ft below land surface)	Land-Surface Elevation (ft, msl)	Measuring Point Elevation (ft, msl)
NAS 29-1	3-84	7 - 12.5	-	-
NAS 29-2	3-84	7 - 12.5	-	-
NAS 30-1	9-83	8-11	-	22.02
NAS 30-2	9-83	7-10	-	21.08
NAS 30-3	9-83	6-9	-	21.12
NAS 30-4	3-85	10-15	-	24.82
NAS 30-5	3-85	7-12	-	24.86
NAS 32-1	2-84	6.5 - 12	-	-
NFD 1	8-83	3.5 - 6.5	-	-
NFD 2	8-83	4-7	-	-
NFD 3	3-85	3-8	-	-
NFD 4	3-85	3-8	-	-

1/ All wells have 2-inch-diameter threaded PVC casing, Schedule 40, and screens, slot size 0.010 inch.
2/ Ft msl means feet above mean sea level.
3/ Data not available.

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APPENDIX A - WELL-CONSTRUCTION DATA 1/

Well No.	Date Installed	Depth of Screen Setting (ft below land surface)	Land-Surface Elevation (ft, msl) 2/	Measuring Point Elevation (ft, msl)
NARF 1	9-83	6.5 - 9.5 atop & in clay	-3/	11.99
NARF 2	9-83	13.0 - 16.0 no clay	13.0	14.75
NARF 3	9-83	7.5 - 10.5 atop & in clay	10.0	12.24
NARF 4	9-83	8.5 - 11.5 no clay	7.4	8.80
NARF 5	9-83	7.5 - 10.5 no clay	5.11	7.10
NARF 6	9-83	6.5 - 9.5 atop & in clay	9.0	10.21
NARF 9	3-85	19.0 - 24.0 below lower clay	15.2	17.33
NARF 10	3-85	11-16 no clay	9.7	10.62
NARF 11	3-85	19-24 below upper clay	16.3	18.33
NARF 12	3-85	10-15 no clay to 16'	3.9	6.07
NARF 13	3-85	11-16 below upper clay	6.6	8.47
NARF 13-1	9-83	7 - 12.5	-	9.04
NARF 14	3-85	9-14 above clay	9.3	9.04
NARF 15	3-85	10-15	8.6	10.85
NARF 16	3-85	9-14	8.9	9.15
NARF 17	3-85	10-15 atop clay	10.4	12.22
NARF 18	3-85	10-15 atop clay	8.4	7.93
NARF D-1	3-85	58-68 atop clay (no upper clay)	9.3	8.85
NARF D-2	3-85	51-61 not atop clay or bracketing water table	9.8	10.50
NARF B-1	8-83	13-16	9.4	11.60
NAS 2-1	2-84	6 - 11.5	-	-
NAS 4-1	9-83	8.5 - 11.5	-	21.44
NAS 4-2	9-83	8.5 - 11.5	-	18.83
NAS 4-3	9-83	8.5 - 11.5	-	19.55
NAS 4-4	2-84	7 - 12.5	19.3	21.26
NAS 4-5	2-84	7 - 12.5	18.8	20.59
NAS 4-6	3-84	6 - 11.5	17.1	19.27
NAS 4-7	3-84	4 - 9.5	11.9	16.02
NAS 4-8	3-84	7 - 12.5	12.9	15.13
NAS 4-9	3-84	7 - 12.5	21.6	23.51
NAS 4-10	1-85	8 - 13	18.9	20.58
NAS 5-1	3-85	10-15	-	-
NAS 9-1	8-83	10-13	-	-
NAS 13-1	3-84	7 - 12.5	-	-
NAS 18-1	3-84	7 - 12.5	-	-
NAS 28-1	3-85	10 - 15.0	-	-

APPENDIX B

Ground-Water Elevation in the Study Area (1985)

APPENDIX B: GROUND-WATER ELEVATIONS IN THE STUDY AREA (1985)
(All measurements in feet above mean sea level)

MONITOR WELL NUMBER	MEASURING PT ELEVATION (ft above msl)	DATE OF MEASUREMENT 4/5/85	5/10/85	9/18,19/85
NARF-1	11.99	-	-	-
NARF-2	14.75	2.52	1.75	5.34
NARF-3	12.24	2.29	2.57	4.90
NARF-4	8.80	0.57	1.10	3.35
NARF-5	7.10	1.07	1.44	4.00
NARF-6	10.21	3.10	3.05	4.02
NARF-9	17.33	1.73	1.98	5.33
NARF-10	10.62	1.28	1.62	4.22
NARF-11	18.33	1.58	1.75	5.09
NARF-12	6.07	0.83	1.20	3.72
NARF-13	8.47	0.31	1.07	2.85
NARF-13-1	9.04	0.88	4.20	4.73
NARF-14	9.04	2.97	3.04	3.67
NARF-15	10.85	3.66	3.70	4.86
NARF-16	9.15	1.76	1.89	3.06
NARF-17	12.22	3.12	3.28	5.99
NARF-18	7.93	1.79	1.60	3.00
NARF B-1	11.60	1.65	1.93	5.15
NARF D-1	8.85	4.65	4.72	6.03
NARF D-2	10.50	1.23	1.61	4.12
NAS 4-1	21.44	-	-	18.72
NAS 4-2	18.83	-	-	17.01
NAS 4-3	19.55	-	-	17.97
NAS 4-4 1/	21.26	-	-	16.59
NAS 4-5 1/	20.59	-	-	16.77
NAS 4-6 2/	19.27	-	-	15.17
NAS 4-7 2/	16.02	-	-	13.02
NAS 4-8 2/	15.18	-	-	11.44
NAS 4-9 1/	23.51	-	-	20.03
NAS 4-10 1/	20.58	-	-	17.16
NAS 30-1	22.02	16.36	15.60	19.84
NAS 30-2	21.08	15.22	14.66	18.69
NAS 30-3	21.12	15.42	15.05	19.43
NAS 30-4	24.82	16.50	16.12	18.52
NAS 30-5	24.86	16.93	16.39	20.78

1/ RCRA compliance wells around the industrial waste-water treatment plant sludge drying beds.

2/ Wells installed for compliance with Chapters 17-3 and 17-4, FAC.

APPENDIX C

Laboratory Water-Quality and Sediment Analyses Results for Individual Sites

Section 1. NARF Area (Site Nos. 11, 12, 14, 15, 16)

Section 2. Organic Disposal Area (Site No. 29)

Section 3. Old Drum Lot (Site No. 30)

Section 4. Base Landfill (Site No. 32)

Section 5. NFD: Oil Pond (Site No. 5)

SECTION 1

NARF Area

Site Nos. 11, 12, 14, 15, 16

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P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF D-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
ACROLEIN	< 50	µg/l
ACRYLONITRILE	< 50	µg/l
TOLUENE	57	µg/l
CHLOROMETHANE	< 1	µg/l
BROMOMETHANE	< 1	µg/l
DICHLORODIFLUOROMETHANE	< 1	µg/l
VINYL CHLORIDE	< 1	µg/l
CHLOROETHANE	< 1	µg/l
METHYLENE CHLORIDE	< 1	µg/l
TRICHLOROFLUOROMETHANE	< 1	µg/l
1,1-DICHLOROETHENE	< 1	µg/l
1,1-DICHLOROETHANE	< 1	µg/l
TRANS-1,2-DICHLOROETHENE	< 1	µg/l
CHLOROFORM	< 1	µg/l
1,2-DICHLOROETHANE	< 1	µg/l
1,1,1-TRICHLOROETHANE	3	µg/l
CARBON TETRACHLORIDE	2	µg/l
BROMODICHLOROMETHANE	6.6	µg/l
1,2-DICHLOROPROPANE	< 1	µg/l
TRANS-1,3-DICHLOROPROPENE	< 1	µg/l
TRICHLOROETHENE	< 1	µg/l
DIBROMOCHLOROMETHANE	< 1	µg/l
1,1,2-TRICHLOROETHANE	< 1	µg/l

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Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF D-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
CIS-1,3-DICHLOROPROPENE	< 1	µg/l
2-CHLOROETHYLVINYL ETHER	< 1	µg/l
BROMOFORM	< 1	µg/l
1,1,2,2-TETRACHLOROETHANE	< 1	µg/l
TETRACHLOROETHENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l
1,2-DIBROMO-3-CHLOROPROPANE	< 1	µg/l
1,2-DICHLOROPROPENE	< 1	µg/l
STYRENE	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

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September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF D-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : BASE NEUTRALS		UNITS
BIS (2-CHLOROISOPROPYL) ETHER	< 10	µg/l
4-BROMOPHENYL PHENYL ETHER	< 10	µg/l
BUTYL BENZYL PHTHALATE	< 5	µg/l
2-CHLORONAPHTHALENE	< 5	µg/l
4-CHLOROPHENYL PHENYL ETHER	< 5	µg/l
CHRYSENE	< 5	µg/l
DIBENZO (A,H) ANTHRACENE	< 5	µg/l
DI-N-BUTYLPHTHALATE	< 5	µg/l
DIETHYLPHTHALATE	< 25	µg/l
DIMETHYLPHTHALATE	< 5	µg/l
2,4-DINITROTOLUENE	< 10	µg/l
2,6-DINITROTOLUENE	< 10	µg/l
DIOCTYLPHTHALATE	< 5	µg/l
FLUORANTHENE	< 5	µg/l
FLUORENE	< 5	µg/l
HEXACHLOROBENZENE	< 5	µg/l
HEXACHLOROBUTADIENE	< 5	µg/l
HEXACHLOROETHANE	< 5	µg/l
INDENO-(1,2,3-CD) PYRENE	< 5	µg/l
ISOPHORONE	< 5	µg/l
NITROBENZENE	< 5	µg/l
N-NITROSODI-N-PROPYLAMINE	< 5	µg/l
PHENANTHRENE	< 5	µg/l
PYRENE	< 5	µg/l

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Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF D-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : BASE NEUTRALS		UNITS
3,3 DICHLOROBENZIDINE	< 50	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
NAPHTHALENE	< 5	µg/l
ALDRIN	< 1	µg/l
DIELDRIN	< 1	µg/l
ENDRIN ALDEHYDE	< 1	µg/l
HEPTACHLOR	< 1	µg/l
HEPTACHLOR-EPOXIDE	< 1	µg/l
BETA BHC	< 1	µg/l
DELTA BHC	< 1	µg/l
ACENAPHTHENE	< 5	µg/l
ACENAPHTHYLENE	< 5	µg/l
ANTHRACENE	< 5	µg/l
BENZO (A) ANTHRACENE	< 10	µg/l
BENZO (B) FLUORANTHENE	< 5	µg/l
BENZO (K) FLUORANTHENE	< 5	µg/l
BENZO (A) PYRENE	< 5	µg/l
BENZO (G,H,I) PERYLENE	< 5	µg/l
BIS (2-CHLOROETHYL) ETHER	< 10	µg/l
BIS (2-CHLOROETHOXY) METHANE	< 5	µg/l
BIS (2-ETHYLHEXYL) PHTHALATE	< 5	µg/l

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TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF D-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : ACID EXTRACTABLES		UNITS
PHENOL	< 5	µg/l
2 -NITRO PHENOL	< 5	µg/l
2,4 - DIMETHYL PHENOL	< 5	µg/l
2,4 - DICHLOROPHENOL	< 5	µg/l
2,4,6 - TRICHLOROPHENOL	< 5	µg/l
4 - CHLORO - 3 METHYLPHENOL	< 5	µg/l
2,4, - DINITROPHENOL	< 50	µg/l
PENTACHLOROPHENOL	< 5	µg/l
2-CHLOROPHENOL	< 5	µg/l
2-METHYL-4,6-DINITROPHENOL	< 25	µg/l
4-NITROPHENOL	< 5	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

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Environmental Consulting and Analysis

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GERAGHTY & MILLER, INC."TAMPA"
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TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF D-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : BASE NEUTRALS		UNITS
1,2,4-TRICHLOROBENZENE	< 5	µg/l
4,4'-DDD	< 1	µg/l
4,4'-DDE	< 1	µg/l
4,4'-DDT	< 1	µg/l
PCB 1016	< 1	µg/l
PCB 1221	< 1	µg/l
PCB 1232	< 1	µg/l
PCB 1242	< 1	µg/l
PCB 1248	< 1	µg/l
PCB 1254	< 1	µg/l
PCB 1260	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

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Laboratory Supervisor

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September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF D-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : METALS		UNITS
ARSENIC	< 0.005	mg/l
BARIUM	0.10	mg/l
CADMIUM	< 0.01	mg/l
CHROMIUM, TOTAL	< 0.01	mg/l
COPPER	< 0.01	mg/l
LEAD	< 0.01	mg/l
MERCURY	< 0.1	µg/l
NICKEL	< 0.01	mg/l
SELENIUM	< 0.005	mg/l
SILVER	< 0.01	mg/l
ZINC	0.04	mg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

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TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF D-2

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
ACROLEIN	< 50	µg/l
ACRYLONITRILE	< 50	µg/l
TOLUENE	35	µg/l
CHLOROMETHANE	< 1	µg/l
BROMOMETHANE	< 1	µg/l
DICHLORODIFLUOROMETHANE	< 1	µg/l
VINYL CHLORIDE	< 1	µg/l
CHLOROETHANE	< 1	µg/l
METHYLENE CHLORIDE	< 1	µg/l
TRICHLOROFLUOROMETHANE	< 1	µg/l
1,1-DICHLOROETHENE	< 1	µg/l
1,1-DICHLOROETHANE	< 1	µg/l
TRANS-1,2-DICHLOROETHENE	< 1	µg/l
CHLOROFORM	< 1	µg/l
1,2-DICHLOROETHANE	< 1	µg/l
1,1,1-TRICHLOROETHANE	2	µg/l
CARBON TETRACHLORIDE	2	µg/l
BROMODICHLOROMETHANE	< 1	µg/l
1,2-DICHLOROPROPANE	< 1	µg/l
TRANS-1,3-DICHLOROPROPENE	< 1	µg/l
TRICHLOROETHENE	3	µg/l
DIBROMOCHLOROMETHANE	< 1	µg/l
1,1,2-TRICHLOROETHANE	< 1	µg/l

Envirogact. Inc.

Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF D-2

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
CIS-1,3-DICHLOROPROPENE	< 1	µg/l
2-CHLOROETHYLVINYL ETHER	< 1	µg/l
BROMOFORM	< 1	µg/l
1,1,2,2-TETRACHLOROETHANE	< 1	µg/l
TETRACHLOROETHENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l
1,2-DIBROMO-3-CHLOROPROPANE	< 1	µg/l
1,2-DICHLOROPROPENE	< 1	µg/l
STYRENE	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Enviropact, Inc.
Environmental Consulting and Analysis

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GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF D-2

Collected By: YOUR REP.

REPORT OF ANALYSIS : BASE NEUTRALS		UNITS
BIS (2-CHLOROISOPROPYL) ETHER	< 10	µg/l
4-BROMOPHENYL PHENYL ETHER	< 10	µg/l
BUTYL BENZYL PHTHALATE	< 5	µg/l
2-CHLORONAPHTHALENE	< 5	µg/l
4-CHLOROPHENYL PHENYL ETHER	< 5	µg/l
CHRYSENE	< 5	µg/l
DIBENZO (A,H) ANTHRACENE	< 5	µg/l
DI-N-BUTYLPHTHALATE	< 5	µg/l
DIETHYLPHTHALATE	< 25	µg/l
DIMETHYLPHTHALATE	< 5	µg/l
2,4-DINITROTOLUENE	< 10	µg/l
2,6-DINITROTOLUENE	< 10	µg/l
DIOCTYLPHTHALATE	< 5	µg/l
FLUORANTHENE	< 5	µg/l
FLUORENE	< 5	µg/l
HEXACHLOROBENZENE	< 5	µg/l
HEXACHLOROBUTADIENE	< 5	µg/l
HEXACHLOROETHANE	< 5	µg/l
INDENO-(1,2,3-CD) PYRENE	< 5	µg/l
ISOPHORONE	< 5	µg/l
NITROBENZENE	< 5	µg/l
N-NITROSODI-N-PROPYLAMINE	< 5	µg/l
PHENANTHRENE	< 5	µg/l
PYRENE	< 5	µg/l

Envirogact. Inc.

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GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF D-2

Collected By: YOUR REP.

REPORT OF ANALYSIS : BASE NEUTRALS		UNITS
3,3 DICHLOROBENZIDINE	< 50	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
NAPHTHALENE	< 5	µg/l
ALDRIN	< 1	µg/l
DIELDRIN	< 1	µg/l
ENDRIN ALDEHYDE	< 1	µg/l
HEPTACHLOR	< 1	µg/l
HEPTACHLOR-EPOXIDE	< 1	µg/l
BETA BHC	< 1	µg/l
DELTA BHC	< 1	µg/l
ACENAPHTHENE	< 5	µg/l
ACENAPHTHYLENE	< 5	µg/l
ANTHRACENE	< 5	µg/l
BENZO (A) ANTHRACENE	< 10	µg/l
BENZO (B) FLUORANTHENE	< 5	µg/l
BENZO (K) FLUORANTHENE	< 5	µg/l
BENZO (A) PYRENE	< 5	µg/l
BENZO (G,H,I) PERYLENE	< 5	µg/l
BIS (2-CHLOROETHYL) ETHER	< 10	µg/l
BIS (2-CHLOROETHOXY) METHANE	< 5	µg/l
BIS (2-ETHYLHEXYL) PHTHALATE	< 5	µg/l

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GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF D-2

Collected By: YOUR REP.

REPORT OF ANALYSIS : ACID EXTRACTABLES		UNITS
PHENOL	< 5	µg/l
2 -NITRO PHENOL	< 5	µg/l
2,4 - DIMETHYL PHENOL	< 5	µg/l
2,4 - DICHLOROPHENOL	< 5	µg/l
2,4,6 - TRICHLOROPHENOL	< 5	µg/l
4 - CHLORO - 3 METHYLPHENOL	< 5	µg/l
2,4, - DINITROPHENOL	< 50	µg/l
PENTACHLOROPHENOL	< 5	µg/l
2-CHLOROPHENOL	< 5	µg/l
2-METHYL-4,6-DINITROPHENOL	< 25	µg/l
4-NITROPHENOL	< 5	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

C-1-12

Enviropact, Inc.
Environmental Consulting and Analysis

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GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF D-2

Collected By: YOUR REP.

REPORT OF ANALYSIS : BASE NEUTRALS		UNITS
1,2,4-TRICHLOROBENZENE	< 5	µg/l
4,4'-DDD	< 1	µg/l
4,4'-DDE	< 1	µg/l
4,4'-DDT	< 1	µg/l
PCB 1016	< 1	µg/l
PCB 1221	< 1	µg/l
PCB 1232	< 1	µg/l
PCB 1242	< 1	µg/l
PCB 1248	< 1	µg/l
PCB 1254	< 1	µg/l
PCB 1260	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Enviropact. Inc.

Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF D-2

Collected By: YOUR REP.

REPORT OF ANALYSIS : METALS		UNITS
ARSENIC	< 0.005	mg/l
BARIUM	0.07	mg/l
CADMIUM	< 0.01	mg/l
CHROMIUM, TOTAL	< 0.01	mg/l
COPPER	< 0.01	mg/l
LEAD	< 0.01	mg/l
MERCURY	< 0.1	µg/l
NICKEL	< 0.01	mg/l
SELENIUM	< 0.005	mg/l
SILVER	< 0.01	mg/l
ZINC	0.02	mg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Enviropact, Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF B-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
ACROLEIN	< 50	µg/l
ACRYLONITRILE	< 50	µg/l
TOLUENE	11	µg/l
CHLOROMETHANE	< 1	µg/l
BROMOMETHANE	< 1	µg/l
DICHLORODIFLUOROMETHANE	< 1	µg/l
VINYL CHLORIDE	< 1	µg/l
CHLOROETHANE	< 1	µg/l
METHYLENE CHLORIDE	< 1	µg/l
TRICHLOROFLUOROMETHANE	< 1	µg/l
1,1-DICHLOROETHENE	< 1	µg/l
1,1-DICHLOROETHANE	< 1	µg/l
TRANS-1,2-DICHLOROETHENE	< 1	µg/l
CHLOROFORM	< 1	µg/l
1,2-DICHLOROETHANE	< 1	µg/l
1,1,1-TRICHLOROETHANE	> 6,550	µg/l
CARBON TETRACHLORIDE	2	µg/l
BROMODICHLOROMETHANE	4	µg/l
1,2-DICHLOROPROPANE	< 1	µg/l
TRANS-1,3-DICHLOROPROPENE	< 1	µg/l
TRICHLOROETHENE	> 6,680	µg/l
DIBROMOCHLOROMETHANE	< 1	µg/l
1,1,2-TRICHLOROETHANE	170	µg/l

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Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF B-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
CIS-1,3-DICHLOROPROPENE	6	µg/l
2-CHLOROETHYLVINYL ETHER	< 1	µg/l
BROMOFORM	< 1	µg/l
1,1,2,2-TETRACHLOROETHANE	< 1	µg/l
TETRACHLOROETHENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	4	µg/l
TOTAL XYLENES	< 1	µg/l
1,2-DIBROMO-3-CHLOROPROPANE	< 1	µg/l
1,2-DICHLOROPROPENE	< 1	µg/l
STYRENE	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Enviropact, Inc.
Environmental Consulting and Analysis

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GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF B-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : BASE NEUTRALS		UNITS
BIS (2-CHLOROISOPROPYL) ETHER	< 10	µg/l
4-BROMOPHENYL PHENYL ETHER	< 10	µg/l
BUTYL BENZYL PHTHALATE	< 5	µg/l
2-CHLORONAPHTHALENE	< 5	µg/l
4-CHLOROPHENYL PHENYL ETHER	< 5	µg/l
CHRYSENE	< 5	µg/l
DIBENZO (A,H) ANTHRACENE	< 5	µg/l
DI-N-BUTYLPHTHALATE	< 5	µg/l
DIETHYLPHTHALATE	< 25	µg/l
DIMETHYLPHTHALATE	< 5	µg/l
2,4-DINITROTOLUENE	< 10	µg/l
2,6-DINITROTOLUENE	< 10	µg/l
DIOCTYLPHTHALATE	< 5	µg/l
FLUORANTHENE	< 5	µg/l
FLUORENE	< 5	µg/l
HEXACHLOROBENZENE	< 5	µg/l
HEXACHLOROBUTADIENE	< 5	µg/l
HEXACHLOROETHANE	< 5	µg/l
INDENO-(1,2,3-CD) PYRENE	< 5	µg/l
ISOPHORONE	< 5	µg/l
NITROBENZENE	< 5	µg/l
N-NITROSODI-N-PROPYLAMINE	< 5	µg/l
PHENANTHRENE	< 5	µg/l
PYRENE	< 5	µg/l

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Environmental Consulting and Analysis

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GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF B-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : BASE NEUTRALS		UNITS
3,3 DICHLOROBENZIDINE	< 50	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
NAPHTHALENE	< 5	µg/l
ALDRIN	< 1	µg/l
DIELDRIN	< 1	µg/l
ENDRIN ALDEHYDE	< 1	µg/l
HEPTACHLOR	< 1	µg/l
HEPTACHLOR-EPOXIDE	< 1	µg/l
BETA BHC	< 1	µg/l
DELTA BHC	< 1	µg/l
ACENAPHTHENE	< 5	µg/l
ACENAPHTHYLENE	< 5	µg/l
ANTHRACENE	< 5	µg/l
BENZO (A) ANTHRACENE	< 10	µg/l
BENZO (B) FLUORANTHENE	< 5	µg/l
BENZO (K) FLUORANTHENE	< 5	µg/l
BENZO (A) PYRENE	< 5	µg/l
BENZO (G,H,I) PERYLENE	< 5	µg/l
BIS (2-CHLOROETHYL) ETHER	< 10	µg/l
BIS (2-CHLOROETHOXY) METHANE	< 5	µg/l
BIS (2-ETHYLHEXYL) PHTHALATE	< 5	µg/l

Envirogact, Inc.
Environmental Consulting and Analysis

1437

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September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF B-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : ACID EXTRACTABLES		UNITS
PHENOL	< 5	µg/l
2 -NITRO PHENOL	< 5	µg/l
2,4 - DIMETHYL PHENOL	5.1	µg/l
2,4 - DICHLOROPHENOL	< 5	µg/l
2,4,6 - TRICHLOROPHENOL	< 5	µg/l
4 - CHLORO - 3 METHYLPHENOL	< 5	µg/l
2,4, - DINITROPHENOL	< 50	µg/l
PENTACHLOROPHENOL	< 5	µg/l
2-CHLOROPHENOL	< 5	µg/l
2-METHYL-4,6-DINITROPHENOL	< 25	µg/l
4-NITROPHENOL	< 5	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn
Laboratory Supervisor
C-1-19

Envirapact. Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF B-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : BASE NEUTRALS		UNITS
1,2,4-TRICHLOROBENZENE	< 5	µg/l
4,4'-DDD	< 1	µg/l
4,4'-DDE	< 1	µg/l
4,4'-DDT	< 1	µg/l
PCB 1016	< 1	µg/l
PCB 1221	< 1	µg/l
PCB 1232	< 1	µg/l
PCB 1242	< 1	µg/l
PCB 1248	< 1	µg/l
PCB 1254	< 1	µg/l
PCB 1260	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

C-1-20

Envirogact, Inc.
Environmental Consulting and Analysis

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GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF B-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : METALS		UNITS
ARSENIC	< 0.005	mg/l
BARIUM	0.18	mg/l
CADMIUM	< 0.01	mg/l
CHROMIUM, TOTAL	< 0.01	mg/l
COPPER	< 0.01	mg/l
LEAD	< 0.01	mg/l
MERCURY	< 0.1	µg/l
NICKEL	< 0.01	mg/l
SELENIUM	< 0.005	mg/l
SILVER	< 0.01	mg/l
ZINC	0.03	mg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Enviropact, Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA, FL 33688

October 18, 1985
Report 14978
LAB I.D. 86119

Sample Received: 9/24/85
Sample Designation:VOC'S BY EPA METHOD 624

Collected By: YOUR REP.

REPORT OF ANALYSIS : NARF-3		UNITS
ACROLEIN	< 1	µg/l
ACRYLONITRILE	< 1	µg/l
TOLUENE	< 1	µg/l
CHLOROMETHANE	< 1	µg/l
BROMOMETHANE	< 1	µg/l
DICHLORODIFLUOROMETHANE	< 1	µg/l
VINYL CHLORIDE	< 1	µg/l
CHLOROETHANE	< 1	µg/l
METHYLENE CHLORIDE	< 1	µg/l
TRICHLOROFLUOROMETHANE	< 1	µg/l
1,1-DICHLOROETHENE	< 1	µg/l
1,1-DICHLOROETHANE	< 1	µg/l
TRANS-1,2-DICHLOROETHENE	< 1	µg/l
CHLOROFORM	< 1	µg/l
1,2-DICHLOROETHANE	< 1	µg/l
1,1,1-TRICHLOROETHANE	< 1	µg/l
CARBON TETRACHLORIDE	< 1	µg/l
BROMODICHLOROMETHANE	< 1	µg/l
1,2-DICHLOROPROPANE	< 1	µg/l
TRANS-1,3-DICHLOROPROPENE	< 1	µg/l
TRICHLOROETHENE	< 1	µg/l
DIBROMOCHLOROMETHANE	< 1	µg/l
1,1,2-TRICHLOROETHANE	13.7	µg/l

Envirogact. Inc.
Environmental Consulting and Analysis

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GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA, FL 33688

October 18, 1985
Report 14978
LAB I.D. 86119

Sample Received: 9/24/85
Sample Designation:VOC'S BY EPA METHOD 624

Collected By: YOUR REP.

REPORT OF ANALYSIS : NARF-3		UNITS
CIS-1,3-DICHLOROPROPENE	< 1	µg/l
2-CHLOROETHYLVINYL ETHER	< 1	µg/l
BROMOFORM	< 1	µg/l
1,1,2,2-TETRACHLOROETHANE	< 1	µg/l
TETRACHLOROETHENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l
1,2-DIBROMO-3-CHLOROPROPANE	< 1	µg/l
1,2-DICHLOROPROPENE	< 1	µg/l
STYRENE	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn
Laboratory Supervisor

C-1-23

Enviropact, Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF - 4

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
ACROLEIN	< 50	µg/l
ACRYLONITRILE	< 50	µg/l
TOLUENE	66	µg/l
CHLOROMETHANE	< 1	µg/l
BROMOMETHANE	< 1	µg/l
DICHLORODIFLUOROMETHANE	< 1	µg/l
VINYL CHLORIDE	< 1	µg/l
CHLOROETHANE	< 1	µg/l
METHYLENE CHLORIDE	< 1	µg/l
TRICHLOROFLUOROMETHANE	< 1	µg/l
1,1-DICHLOROETHENE	< 1	µg/l
1,1-DICHLOROETHANE	< 1	µg/l
TRANS-1,2-DICHLOROETHENE	< 1	µg/l
CHLOROFORM	< 1	µg/l
1,2-DICHLOROETHANE	5.7	µg/l
1,1,1-TRICHLOROETHANE	4	µg/l
CARBON TETRACHLORIDE	2	µg/l
BROMODICHLOROMETHANE	7	µg/l
1,2-DICHLOROPROPANE	< 1	µg/l
TRANS-1,3-DICHLOROPROPENE	< 1	µg/l
TRICHLOROETHENE	3	µg/l
DIBROMOCHLOROMETHANE	< 1	µg/l
1,1,2-TRICHLOROETHANE	< 1	µg/l

Enviropact, Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF - 4

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
CIS-1,3-DICHLOROPROPENE	< 1	µg/l
2-CHLOROETHYLVINYL ETHER	< 1	µg/l
BROMOFORM	< 1	µg/l
1,1,2,2-TETRACHLOROETHANE	< 1	µg/l
TETRACHLOROETHENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l
1,2-DIBROMO-3-CHLOROPROPANE	< 1	µg/l
1,2-DICHLOROPROPENE	< 1	µg/l
STYRENE	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Envirogact, Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF - 5

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
ACROLEIN	< 50	µg/l
ACRYLONITRILE	< 50	µg/l
TOLUENE	6	µg/l
CHLOROMETHANE	< 1	µg/l
BROMOMETHANE	< 1	µg/l
DICHLORODIFLUOROMETHANE	< 1	µg/l
VINYL CHLORIDE	< 1	µg/l
CHLOROETHANE	< 1	µg/l
METHYLENE CHLORIDE	< 1	µg/l
TRICHLOROFLUOROMETHANE	< 1	µg/l
1,1-DICHLOROETHENE	< 1	µg/l
1,1-DICHLOROETHANE	< 1	µg/l
TRANS-1,2-DICHLOROETHENE	< 1	µg/l
CHLOROFORM	< 1	µg/l
1,2-DICHLOROETHANE	< 1	µg/l
1,1,1-TRICHLOROETHANE	< 1	µg/l
CARBON TETRACHLORIDE	2	µg/l
BROMODICHLOROMETHANE	< 1	µg/l
1,2-DICHLOROPROPANE	< 1	µg/l
TRANS-1,3-DICHLOROPROPENE	< 1	µg/l
TRICHLOROETHENE	19	µg/l
DIBROMOCHLOROMETHANE	< 1	µg/l
1,1,2-TRICHLOROETHANE	< 1	µg/l

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Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF - 5

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
CIS-1,3-DICHLOROPROPENE	< 1	µg/l
2-CHLOROETHYLVINYL ETHER	< 1	µg/l
BROMOFORM	< 1	µg/l
1,1,2,2-TETRACHLOROETHANE	< 1	µg/l
TETRACHLOROETHENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l
1,2-DIBROMO-3-CHLOROPROPANE	< 1	µg/l
1,2-DICHLOROPROPENE	< 1	µg/l
STYRENE	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Envirepact. Inc.

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GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF - 6

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
ACROLEIN	< 50	µg/l
ACRYLONITRILE	< 50	µg/l
TOLUENE	8	µg/l
CHLOROMETHANE	< 1	µg/l
BROMOMETHANE	< 1	µg/l
DICHLORODIFLUOROMETHANE	< 1	µg/l
VINYL CHLORIDE	< 1	µg/l
CHLOROETHANE	< 1	µg/l
METHYLENE CHLORIDE	< 1	µg/l
TRICHLOROFLUOROMETHANE	< 1	µg/l
1,1-DICHLOROETHENE	< 1	µg/l
1,1-DICHLOROETHANE	< 1	µg/l
TRANS-1,2-DICHLOROETHENE	< 1	µg/l
CHLOROFORM	< 1	µg/l
1,2-DICHLOROETHANE	< 1	µg/l
1,1,1-TRICHLOROETHANE	16	µg/l
CARBON TETRACHLORIDE	2	µg/l
BROMODICHLOROMETHANE	< 1	µg/l
1,2-DICHLOROPROPANE	< 1	µg/l
TRANS-1,3-DICHLOROPROPENE	< 1	µg/l
TRICHLOROETHENE	< 1	µg/l
DIBROMOCHLOROMETHANE	< 1	µg/l
1,1,2-TRICHLOROETHANE	< 1	µg/l

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September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF - 6

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
CIS-1,3-DICHLOROPROPENE	< 1	µg/l
2-CHLOROETHYLVINYL ETHER	< 1	µg/l
BROMOFORM	< 1	µg/l
1,1,2,2-TETRACHLOROETHANE	< 1	µg/l
TETRACHLOROETHENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l
1,2-DIBROMO-3-CHLOROPROPANE	< 1	µg/l
1,2-DICHLOROPROPENE	< 1	µg/l
STYRENE	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Envirepact. Inc.
Environmental Consulting and Analysis

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P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF - 6

Collected By: YOUR REP.

REPORT OF ANALYSIS : BASE NEUTRALS		UNITS
BIS (2-CHLOROISOPROPYL) ETHER	< 10	µg/l
4-BROMOPHENYL PHENYL ETHER	< 10	µg/l
BUTYL BENZYL PHTHALATE	< 5	µg/l
2-CHLORONAPHTHALENE	< 5	µg/l
4-CHLOROPHENYL PHENYL ETHER	< 5	µg/l
CHRYSENE	< 5	µg/l
DIBENZO (A,H) ANTHRACENE	< 5	µg/l
DI-N-BUTYLPHTHALATE	< 5	µg/l
DIETHYLPHTHALATE	< 25	µg/l
DIMETHYLPHTHALATE	< 5	µg/l
2,4-DINITROTOLUENE	< 10	µg/l
2,6-DINITROTOLUENE	< 10	µg/l
DIOCTYLPHTHALATE	< 5	µg/l
FLUORANTHENE	< 5	µg/l
FLUORENE	< 5	µg/l
HEXACHLOROBENZENE	< 5	µg/l
HEXACHLOROBUTADIENE	< 5	µg/l
HEXACHLOROETHANE	< 5	µg/l
INDENO-(1,2,3-CD) PYRENE	< 5	µg/l
ISOPHORONE	< 5	µg/l
NITROBENZENE	< 5	µg/l
N-NITROSODI-N-PROPYLAMINE	< 5	µg/l
PHENANTHRENE	< 5	µg/l
PYRENE	< 5	µg/l

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Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF - 6

Collected By: YOUR REP.

REPORT OF ANALYSIS : BASE NEUTRALS		UNITS
3,3 DICHLOROBENZIDINE	< 50	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
NAPHTHALENE	< 5	µg/l
ALDRIN	< 1	µg/l
DIELDRIN	< 1	µg/l
ENDRIN ALDEHYDE	< 1	µg/l
HEPTACHLOR	< 1	µg/l
HEPTACHLOR-EPOXIDE	< 1	µg/l
BETA BHC	< 1	µg/l
DELTA BHC	< 1	µg/l
ACENAPHTHENE	< 5	µg/l
ACENAPHTHYLENE	< 5	µg/l
ANTHRACENE	< 5	µg/l
BENZO (A) ANTHRACENE	< 10	µg/l
BENZO (B) FLUORANTHENE	< 5	µg/l
BENZO (K) FLUORANTHENE	< 5	µg/l
BENZO (A) PYRENE	< 5	µg/l
BENZO (G,H,I) PERYLENE	< 5	µg/l
BIS (2-CHLOROETHYL) ETHER	< 10	µg/l
BIS (2-CHLOROETHOXY) METHANE	< 5	µg/l
BIS (2-ETHYLHEXYL) PHTHALATE	< 5	µg/l

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September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF-6

Collected By: YOUR REP.

REPORT OF ANALYSIS : ACID EXTRACTABLES		UNITS
PHENOL	< 5	µg/l
2 -NITRO PHENOL	< 5	µg/l
2,4 - DIMETHYL PHENOL	< 5	µg/l
2,4 - DICHLOROPHENOL	< 5	µg/l
2,4,6 - TRICHLOROPHENOL	< 5	µg/l
4 - CHLORO - 3 METHYLPHENOL	< 5	µg/l
2,4, - DINITROPHENOL	< 50	µg/l
PENTACHLOROPHENOL	< 5	µg/l
2-CHLOROPHENOL	< 5	µg/l
2-METHYL-4,6-DINITROPHENOL	< 25	µg/l
4-NITROPHENOL	< 5	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn
Laboratory Supervisor

C-1-32

Envirapact, Inc.
Environmental Consulting and Analysis

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GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF-6

Collected By: YOUR REP.

REPORT OF ANALYSIS : ACID EXTRACTABLES		UNITS
PHENOL	< 5	µg/l
2 -NITRO PHENOL	< 5	µg/l
2,4 - DIMETHYL PHENOL	< 5	µg/l
2,4 - DICHLOROPHENOL	< 5	µg/l
2,4,6 - TRICHLOROPHENOL	< 5	µg/l
4 - CHLORO - 3 METHYLPHENOL	< 5	µg/l
2,4, - DINITROPHENOL	< 50	µg/l
PENTACHLOROPHENOL	< 5	µg/l
2-CHLOROPHENOL	< 5	µg/l
2-METHYL-4,6-DINITROPHENOL	< 25	µg/l
4-NITROPHENOL	< 5	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn
Laboratory Supervisor

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September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF - 6

Collected By: YOUR REP.

REPORT OF ANALYSIS : BASE NEUTRALS		UNITS
1,2,4-TRICHLOROBENZENE	< 5	µg/l
4,4'-DDD	< 1	µg/l
4,4'-DDE	< 1	µg/l
4,4'-DDT	< 1	µg/l
PCB 1016	< 1	µg/l
PCB 1221	< 1	µg/l
PCB 1232	< 1	µg/l
PCB 1242	< 1	µg/l
PCB 1248	< 1	µg/l
PCB 1254	< 1	µg/l
PCB 1260	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Envirogact, Inc.
Environmental Consulting and Analysis

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GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF-6

Collected By: YOUR REP.

REPORT OF ANALYSIS : METALS		UNITS
ARSENIC	< 0.005	mg/l
BARIUM	0.10	mg/l
CADMIUM	< 0.01	mg/l
CHROMIUM, TOTAL	< 0.01	mg/l
COPPER	< 0.01	mg/l
LEAD	< 0.01	mg/l
MERCURY	< 0.1	µg/l
NICKEL	< 0.01	mg/l
SELENIUM	< 0.005	mg/l
SILVER	< 0.01	mg/l
ZINC	0.02	mg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn
Laboratory Supervisor

Envirepact. Inc.

Environmental Consulting and Analysis

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GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF - 9

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
ACROLEIN	< 50	µg/l
ACRYLONITRILE	< 50	µg/l
TOLUENE	< 1	µg/l
CHLOROMETHANE	< 1	µg/l
BROMOMETHANE	< 1	µg/l
DICHLORODIFLUOROMETHANE	< 1	µg/l
VINYL CHLORIDE	< 1	µg/l
CHLOROETHANE	< 1	µg/l
METHYLENE CHLORIDE	< 1	µg/l
TRICHLOROFLUOROMETHANE	< 1	µg/l
1,1-DICHLOROETHENE	< 1	µg/l
1,1-DICHLOROETHANE	< 1	µg/l
TRANS-1,2-DICHLOROETHENE	< 1	µg/l
CHLOROFORM	2	µg/l
1,2-DICHLOROETHANE	< 1	µg/l
1,1,1-TRICHLOROETHANE	< 1	µg/l
CARBON TETRACHLORIDE	< 1	µg/l
BROMODICHLOROMETHANE	2	µg/l
1,2-DICHLOROPROPANE	< 1	µg/l
TRANS-1,3-DICHLOROPROPENE	< 1	µg/l
TRICHLOROETHENE	< 1	µg/l
DIBROMOCHLOROMETHANE	< 1	µg/l
1,1,2-TRICHLOROETHANE	< 1	µg/l

Envirapact, Inc.

Environmental Consulting and Analysis

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GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86113

Sample Received: 4/05/85
Sample Designation:NARF - 9

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
CIS-1,3-DICHLOROPROPENE	< 1	µg/l
2-CHLOROETHYLVINYL ETHER	< 1	µg/l
BROMOFORM	< 1	µg/l
1,1,2,2-TETRACHLOROETHANE	< 1	µg/l
TETRACHLOROETHENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l
1,2-DIBROMO-3-CHLOROPROPANE	< 1	µg/l
1,2-DICHLOROPROPENE	< 1	µg/l
STYRENE	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Envirogact, Inc.
Environmental Consulting and Analysis

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GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF - 10

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
ACROLEIN	< 50	µg/l
ACRYLONITRILE	< 50	µg/l
TOLUENE	< 1	µg/l
CHLOROMETHANE	< 1	µg/l
BROMOMETHANE	< 1	µg/l
DICHLORODIFLUOROMETHANE	< 1	µg/l
VINYL CHLORIDE	< 1	µg/l
CHLOROETHANE	< 1	µg/l
METHYLENE CHLORIDE	< 1	µg/l
TRICHLOROFLUOROMETHANE	< 1	µg/l
1,1-DICHLOROETHENE	1.3	µg/l
1,1-DICHLOROETHANE	< 1	µg/l
TRANS-1,2-DICHLOROETHENE	< 1	µg/l
CHLOROFORM	< 1	µg/l
1,2-DICHLOROETHANE	5.5	µg/l
1,1,1-TRICHLOROETHANE	< 1	µg/l
CARBON TETRACHLORIDE	< 1	µg/l
BROMODICHLOROMETHANE	< 1	µg/l
1,2-DICHLOROPROPANE	< 1	µg/l
TRANS-1,3-DICHLOROPROPENE	< 1	µg/l
TRICHLOROETHENE	9.6	µg/l
DIBROMOCHLOROMETHANE	< 1	µg/l
1,1,2-TRICHLOROETHANE	< 1	µg/l

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Report 13670
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Sample Received: 4/05/85
Sample Designation:NARF - 10

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
CIS-1,3-DICHLOROPROPENE	< 1	µg/l
2-CHLOROETHYLVINYL ETHER	< 1	µg/l
BROMOFORM	< 1	µg/l
1,1,2,2-TETRACHLOROETHANE	< 1	µg/l
TETRACHLOROETHENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l
1,2-DIBROMO-3-CHLOROPROPANE	< 1	µg/l
1,2-DICHLOROPROPENE	< 1	µg/l
STYRENE	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

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September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF - 11

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
ACROLEIN	< 50	µg/l
ACRYLONITRILE	< 50	µg/l
TOLUENE	7	µg/l
CHLOROMETHANE	< 1	µg/l
BROMOMETHANE	< 1	µg/l
DICHLORODIFLUOROMETHANE	< 1	µg/l
VINYL CHLORIDE	< 1	µg/l
CHLOROETHANE	< 1	µg/l
METHYLENE CHLORIDE	< 1	µg/l
TRICHLOROFLUOROMETHANE	< 1	µg/l
1,1-DICHLOROETHENE	< 1	µg/l
1,1-DICHLOROETHANE	< 1	µg/l
TRANS-1,2-DICHLOROETHENE	< 1	µg/l
CHLOROFORM	2	µg/l
1,2-DICHLOROETHANE	< 1	µg/l
1,1,1-TRICHLOROETHANE	< 1	µg/l
CARBON TETRACHLORIDE	< 1	µg/l
BROMODICHLOROMETHANE	2.5	µg/l
1,2-DICHLOROPROPANE	< 1	µg/l
TRANS-1,3-DICHLOROPROPENE	< 1	µg/l
TRICHLOROETHENE	< 1	µg/l
DIBROMOCHLOROMETHANE	< 1	µg/l
1,1,2-TRICHLOROETHANE	< 1	µg/l

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Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF - 11

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
CIS-1,3-DICHLOROPROPENE	< 1	µg/l
2-CHLOROETHYLVINYL ETHER	< 1	µg/l
BROMOFORM	< 1	µg/l
1,1,2,2-TETRACHLOROETHANE	< 1	µg/l
TETRACHLOROETHENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l
1,2-DIBROMO-3-CHLOROPROPANE	< 1	µg/l
1,2-DICHLOROPROPENE	< 1	µg/l
STYRENE	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Envirogact. Inc.
Environmental Consulting and Analysis

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GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF - 12

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
ACROLEIN	< 50	µg/l
ACRYLONITRILE	< 50	µg/l
TOLUENE	< 1	µg/l
CHLOROMETHANE	< 1	µg/l
BROMOMETHANE	< 1	µg/l
DICHLORODIFLUOROMETHANE	< 1	µg/l
VINYL CHLORIDE	< 1	µg/l
CHLOROETHANE	< 1	µg/l
METHYLENE CHLORIDE	< 1	µg/l
TRICHLOROFLUOROMETHANE	< 1	µg/l
1,1-DICHLOROETHENE	< 1	µg/l
1,1-DICHLOROETHANE	< 1	µg/l
TRANS-1,2-DICHLOROETHENE	< 1	µg/l
CHLOROFORM	< 1	µg/l
1,2-DICHLOROETHANE	< 1	µg/l
1,1,1-TRICHLOROETHANE	< 1	µg/l
CARBON TETRACHLORIDE	< 1	µg/l
BROMODICHLOROMETHANE	< 1	µg/l
1,2-DICHLOROPROPANE	< 1	µg/l
TRANS-1,3-DICHLOROPROPENE	< 1	µg/l
TRICHLOROETHENE	< 1	µg/l
DIBROMOCHLOROMETHANE	< 1	µg/l
1,1,2-TRICHLOROETHANE	< 1	µg/l

Envirogact. Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF - 12

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
CIS-1,3-DICHLOROPROPENE	< 1	µg/l
2-CHLOROETHYLVINYL ETHER	< 1	µg/l
BROMOFORM	< 1	µg/l
1,1,2,2-TETRACHLOROETHANE	< 1	µg/l
TETRACHLOROETHENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l
1,2-DIBROMO-3-CHLOROPROPANE	< 1	µg/l
1,2-DICHLOROPROPENE	< 1	µg/l
STYRENE	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Envirogact, Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA, FL 33688

October 18, 1985
Report 14978
LAB I.D. 86119

Sample Received: 9/24/85
Sample Designation:VOC'S BY EPA METHOD 624

Collected By: YOUR REP.

REPORT OF ANALYSIS : NARF-13		UNITS
ACROLEIN	< 1	µg/l
ACRYLONITRILE	< 1	µg/l
TOLUENE	< 1	µg/l
CHLOROMETHANE	< 1	µg/l
BROMOMETHANE	< 1	µg/l
DICHLORODIFLUOROMETHANE	< 1	µg/l
VINYL CHLORIDE	< 1	µg/l
CHLOROETHANE	< 1	µg/l
METHYLENE CHLORIDE	< 1	µg/l
TRICHLOROFLUOROMETHANE	< 1	µg/l
1,1-DICHLOROETHENE	< 1	µg/l
1,1-DICHLOROETHANE	< 1	µg/l
TRANS-1,2-DICHLOROETHENE	3.5	µg/l
CHLOROFORM	< 1	µg/l
1,2-DICHLOROETHANE	< 1	µg/l
1,1,1-TRICHLOROETHANE	< 1	µg/l
CARBON TETRACHLORIDE	< 1	µg/l
BROMODICHLOROMETHANE	< 1	µg/l
1,2-DICHLOROPROPANE	< 1	µg/l
TRANS-1,3-DICHLOROPROPENE	< 1	µg/l
TRICHLOROETHENE	< 1	µg/l
DIBROMOCHLOROMETHANE	< 1	µg/l
1,1,2-TRICHLOROETHANE	< 1	µg/l

Envirapact. Inc.

Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA, FL 33688

October 18, 1985
Report 14978
LAB I.D. 86119

Sample Received: 9/24/85
Sample Designation:VOC'S BY EPA METHOD 624

Collected By: YOUR REP.

REPORT OF ANALYSIS : NARF-13		UNITS
CIS-1,3-DICHLOROPROPENE	< 1	µg/l
2-CHLOROETHYLVINYL ETHER	< 1	µg/l
BROMOFORM	< 1	µg/l
1,1,2,2-TETRACHLOROETHANE	< 1	µg/l
TETRACHLOROETHENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l
1,2-DIBROMO-3-CHLOROPROPANE	< 1	µg/l
1,2-DICHLOROPROPENE	< 1	µg/l
STYRENE	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Envirapact. Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF 13-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
ACROLEIN	< 50	µg/l
ACRYLONITRILE	< 50	µg/l
TOLUENE	15	µg/l
CHLOROMETHANE	< 1	µg/l
BROMOMETHANE	< 1	µg/l
DICHLORODIFLUOROMETHANE	< 1	µg/l
VINYL CHLORIDE	< 1	µg/l
CHLOROETHANE	< 1	µg/l
METHYLENE CHLORIDE	< 1	µg/l
TRICHLOROFLUOROMETHANE	< 1	µg/l
1,1-DICHLOROETHENE	< 1	µg/l
1,1-DICHLOROETHANE	< 1	µg/l
TRANS-1,2-DICHLOROETHENE	< 1	µg/l
CHLOROFORM	< 1	µg/l
1,2-DICHLOROETHANE	< 1	µg/l
1,1,1-TRICHLOROETHANE	< 1	µg/l
CARBON TETRACHLORIDE	< 1	µg/l
BROMODICHLOROMETHANE	< 1	µg/l
1,2-DICHLOROPROPANE	< 1	µg/l
TRANS-1,3-DICHLOROPROPENE	< 1	µg/l
TRICHLOROETHENE	< 1	µg/l
DIBROMOCHLOROMETHANE	< 1	µg/l
1,1,2-TRICHLOROETHANE	< 1	µg/l

Envirogact. Inc.

Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF 13-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
CIS-1,3-DICHLOROPROPENE	< 1	µg/l
2-CHLOROETHYLVINYL ETHER	< 1	µg/l
BROMOFORM	< 1	µg/l
1,1,2,2-TETRACHLOROETHANE	< 1	µg/l
TETRACHLOROETHENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l
1,2-DIBROMO-3-CHLOROPROPANE	< 1	µg/l
1,2-DICHLOROPROPENE	< 1	µg/l
STYRENE	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Envirotect. Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF 14

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
ACROLEIN	< 50	µg/l
ACRYLONITRILE	< 50	µg/l
TOLUENE	< 1	µg/l
CHLOROMETHANE	< 1	µg/l
BROMOMETHANE	< 1	µg/l
DICHLORODIFLUOROMETHANE	< 1	µg/l
VINYL CHLORIDE	< 1	µg/l
CHLOROETHANE	< 1	µg/l
METHYLENE CHLORIDE	< 1	µg/l
TRICHLOROFLUOROMETHANE	< 1	µg/l
1,1-DICHLOROETHENE	< 1	µg/l
1,1-DICHLOROETHANE	1.1	µg/l
TRANS-1,2-DICHLOROETHENE	< 1	µg/l
CHLOROFORM	< 1	µg/l
1,2-DICHLOROETHANE	< 1	µg/l
1,1,1-TRICHLOROETHANE	< 1	µg/l
CARBON TETRACHLORIDE	< 1	µg/l
BROMODICHLOROMETHANE	< 1	µg/l
1,2-DICHLOROPROPANE	< 1	µg/l
TRANS-1,3-DICHLOROPROPENE	< 1	µg/l
TRICHLOROETHENE	< 1	µg/l
DIBROMOCHLOROMETHANE	< 1	µg/l
1,1,2-TRICHLOROETHANE	< 1	µg/l

Envirogact. Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF 14

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
CIS-1,3-DICHLOROPROPENE	< 1	µg/l
2-CHLOROETHYLVINYL ETHER	< 1	µg/l
BROMOFORM	< 1	µg/l
1,1,2,2-TETRACHLOROETHANE	< 1	µg/l
TETRACHLOROETHENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l
1,2-DIBROMO-3-CHLOROPROPANE	< 1	µg/l
1,2-DICHLOROPROPENE	< 1	µg/l
STYRENE	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Envirotect. Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF 15

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
ACROLEIN	< 50	µg/l
ACRYLONITRILE	< 50	µg/l
TOLUENE	< 1	µg/l
CHLOROMETHANE	< 1	µg/l
BROMOMETHANE	< 1	µg/l
DICHLORODIFLUOROMETHANE	< 1	µg/l
VINYL CHLORIDE	< 1	µg/l
CHLOROETHANE	< 1	µg/l
METHYLENE CHLORIDE	< 1	µg/l
TRICHLOROFLUOROMETHANE	< 1	µg/l
1,1-DICHLOROETHENE	< 1	µg/l
1,1-DICHLOROETHANE	< 1	µg/l
TRANS-1,2-DICHLOROETHENE	< 1	µg/l
CHLOROFORM	< 1	µg/l
1,2-DICHLOROETHANE	< 1	µg/l
1,1,1-TRICHLOROETHANE	< 1	µg/l
CARBON TETRACHLORIDE	< 1	µg/l
BROMODICHLOROMETHANE	< 1	µg/l
1,2-DICHLOROPROPANE	< 1	µg/l
TRANS-1,3-DICHLOROPROPENE	< 1	µg/l
TRICHLOROETHENE	< 1	µg/l
DIBROMOCHLOROMETHANE	< 1	µg/l
1,1,2-TRICHLOROETHANE	< 1	µg/l

Envirepact, Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF 15

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
CIS-1,3-DICHLOROPROPENE	< 1	µg/l
2-CHLOROETHYLVINYL ETHER	< 1	µg/l
BROMOFORM	< 1	µg/l
1,1,2,2-TETRACHLOROETHANE	< 1	µg/l
TETRACHLOROETHENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l
1,2-DIBROMO-3-CHLOROPROPANE	< 1	µg/l
1,2-DICHLOROPROPENE	< 1	µg/l
STYRENE	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Envirogact, Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF 16

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
ACROLEIN	< 50	µg/l
ACRYLONITRILE	< 50	µg/l
TOLUENE	38	µg/l
CHLOROMETHANE	< 1	µg/l
BROMOMETHANE	< 1	µg/l
DICHLORODIFLUOROMETHANE	< 1	µg/l
VINYL CHLORIDE	< 1	µg/l
CHLOROETHANE	< 1	µg/l
METHYLENE CHLORIDE	< 1	µg/l
TRICHLOROFLUOROMETHANE	< 1	µg/l
1,1-DICHLOROETHENE	< 1	µg/l
1,1-DICHLOROETHANE	< 1	µg/l
TRANS-1,2-DICHLOROETHENE	< 1	µg/l
CHLOROFORM	< 1	µg/l
1,2-DICHLOROETHANE	< 1	µg/l
1,1,1-TRICHLOROETHANE	3	µg/l
CARBON TETRACHLORIDE	< 1	µg/l
BROMODICHLOROMETHANE	6	µg/l
1,2-DICHLOROPROPANE	< 1	µg/l
TRANS-1,3-DICHLOROPROPENE	< 1	µg/l
TRICHLOROETHENE	< 1	µg/l
DIBROMOCHLOROMETHANE	< 1	µg/l
1,1,2-TRICHLOROETHANE	< 1	µg/l

Envirapact. Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF 16

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
CIS-1,3-DICHLOROPROPENE	< 1	µg/l
2-CHLOROETHYLVINYL ETHER	< 1	µg/l
BROMOFORM	< 1	µg/l
1,1,2,2-TETRACHLOROETHANE	< 1	µg/l
TETRACHLOROETHENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l
1,2-DIBROMO-3-CHLOROPROPANE	< 1	µg/l
1,2-DICHLOROPROPENE	< 1	µg/l
STYRENE	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn
Laboratory Supervisor

Envirogact. Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF 17

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
ACROLEIN	< 50	µg/l
ACRYLONITRILE	< 50	µg/l
TOLUENE	53	µg/l
CHLOROMETHANE	< 1	µg/l
BROMOMETHANE	< 1	µg/l
DICHLORODIFLUOROMETHANE	< 1	µg/l
VINYL CHLORIDE	< 1	µg/l
CHLOROETHANE	< 1	µg/l
METHYLENE CHLORIDE	< 1	µg/l
TRICHLOROFLUOROMETHANE	< 1	µg/l
1,1-DICHLOROETHENE	< 1	µg/l
1,1-DICHLOROETHANE	< 1	µg/l
TRANS-1,2-DICHLOROETHENE	< 1	µg/l
CHLOROFORM	< 1	µg/l
1,2-DICHLOROETHANE	< 1	µg/l
1,1,1-TRICHLOROETHANE	3	µg/l
CARBON TETRACHLORIDE	< 1	µg/l
BROMODICHLOROMETHANE	6	µg/l
1,2-DICHLOROPROPANE	< 1	µg/l
TRANS-1,3-DICHLOROPROPENE	< 1	µg/l
TRICHLOROETHENE	< 1	µg/l
DIBROMOCHLOROMETHANE	< 1	µg/l
1,1,2-TRICHLOROETHANE	< 1	µg/l

Enviropact, Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF 17

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
CIS-1,3-DICHLOROPROPENE	< 1	µg/l
2-CHLOROETHYLVINYL ETHER	< 1	µg/l
BROMOFORM	< 1	µg/l
1,1,2,2-TETRACHLOROETHANE	< 1	µg/l
TETRACHLOROETHENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l
1,2-DIBROMO-3-CHLOROPROPANE	< 1	µg/l
1,2-DICHLOROPROPENE	< 1	µg/l
STYRENE	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Enviropact, Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF 18

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
ACROLEIN	< 50	µg/l
ACRYLONITRILE	< 50	µg/l
TOLUENE	< 1	µg/l
CHLOROMETHANE	< 1	µg/l
BROMOMETHANE	< 1	µg/l
DICHLORODIFLUOROMETHANE	< 1	µg/l
VINYL CHLORIDE	< 1	µg/l
CHLOROETHANE	< 1	µg/l
METHYLENE CHLORIDE	< 1	µg/l
TRICHLOROFLUOROMETHANE	< 1	µg/l
1,1-DICHLOROETHENE	< 1	µg/l
1,1-DICHLOROETHANE	< 1	µg/l
TRANS-1,2-DICHLOROETHENE	< 1	µg/l
CHLOROFORM	< 1	µg/l
1,2-DICHLOROETHANE	< 1	µg/l
1,1,1-TRICHLOROETHANE	< 1	µg/l
CARBON TETRACHLORIDE	< 1	µg/l
BROMODICHLOROMETHANE	< 1	µg/l
1,2-DICHLOROPROPANE	< 1	µg/l
TRANS-1,3-DICHLOROPROPENE	< 1	µg/l
TRICHLOROETHENE	< 1	µg/l
DIBROMOCHLOROMETHANE	< 1	µg/l
1,1,2-TRICHLOROETHANE	< 1	µg/l

Envirogact. Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NARF 18

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
CIS-1,3-DICHLOROPROPENE	< 1	µg/l
2-CHLOROETHYLVINYL ETHER	< 1	µg/l
BROMOFORM	< 1	µg/l
1,1,2,2-TETRACHLOROETHANE	< 1	µg/l
TETRACHLOROETHENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l
1,2-DIBROMO-3-CHLOROPROPANE	< 1	µg/l
1,2-DICHLOROPROPENE	< 1	µg/l
STYRENE	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn
Laboratory Supervisor

SECTION 2

Organic Disposal Area

Site No. 29

Envirogact, Inc.

Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:PROJECT # T290GW2

Collected By: YOUR REP.

REPORT OF ANALYSIS : NAS - 29 SOIL # 1		UNITS
CADMIUM-E.P.TOXIC	< 0.1	ppm

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Envirogact. Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:PROJECT # T290GW2

Collected By: YOUR REP.

REPORT OF ANALYSIS : NAS - 29 SOIL # 2		UNITS
CADMIUM-E.P.TOXIC	< 0.1	ppm

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Envirogact. Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:PROJECT # T290GW2

Collected By: YOUR REP.

REPORT OF ANALYSIS : NAS - 29 SOIL # 3		UNITS
CADMIUM-E.P.TOXIC	< 0.1	ppm

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Envirospect Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Collected By: YOUR REP.

Sample Received: 4/05/85
Sample Designation:PROJECT # T290GW2

REPORT OF ANALYSIS : NAS - 29 SOIL # 4		UNITS
CADMIUM-E.P.TOXIC	0.19	ppm

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn
Laboratory Supervisor

Envirapact, Inc.

Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:PROJECT # T290GW2

Collected By: YOUR REP.

REPORT OF ANALYSIS : NAS - 29 SOIL # 5		UNITS
CADMIUM-E.P.TOXIC	< 0.1	ppm

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Envirogact. Inc.

Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Collected By: YOUR REP.

Sample Received: 4/05/85
Sample Designation:PROJECT # T290GW2

REPORT OF ANALYSIS : NAS - 29 SOIL # 6		UNITS
CADMIUM-E.P.TOXIC	< 0.1	ppm

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Envirogact. Inc.
Environmental Consulting and Analysis

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GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:PROJECT # T290GW2

Collected By: YOUR REP.

REPORT OF ANALYSIS : NAS - 29 SOIL # 7		UNITS
CADMIUM-E.P.TOXIC	< 0.1	ppm

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Envirogact. Inc.

Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:PROJECT # T290GW2

Collected By: YOUR REP.

REPORT OF ANALYSIS : NAS - 29 SOIL # 8		UNITS
CADMIUM-E.P.TOXIC	< 0.1	ppm

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Envirogact. Inc.

Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:PROJECT # T290GW2

Collected By: YOUR REP.

REPORT OF ANALYSIS : NAS - 29 SOIL # 9		UNITS
CADMIUM-E.P.TOXIC	< 0.1	ppm

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

SECTION 3

Old Drum Lot

Site No. 30

Enviropact, Inc.

Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NAS 30-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
ACROLEIN	< 50	µg/l
ACRYLONITRILE	< 50	µg/l
TOLUENE	< 1	µg/l
CHLOROMETHANE	< 1	µg/l
BROMOMETHANE	< 1	µg/l
DICHLORODIFLUOROMETHANE	< 1	µg/l
VINYL CHLORIDE	< 1	µg/l
CHLOROETHANE	< 1	µg/l
METHYLENE CHLORIDE	< 1	µg/l
TRICHLOROFLUOROMETHANE	< 1	µg/l
1,1-DICHLOROETHENE	< 1	µg/l
1,1-DICHLOROETHANE	< 1	µg/l
TRANS-1,2-DICHLOROETHENE	< 1	µg/l
CHLOROFORM	< 1	µg/l
1,2-DICHLOROETHANE	< 1	µg/l
1,1,1-TRICHLOROETHANE	< 1	µg/l
CARBON TETRACHLORIDE	< 1	µg/l
BROMODICHLOROMETHANE	< 1	µg/l
1,2-DICHLOROPROPANE	< 1	µg/l
TRANS-1,3-DICHLOROPROPENE	< 1	µg/l
TRICHLOROETHENE	< 1	µg/l
DIBROMOCHLOROMETHANE	< 1	µg/l
1,1,2-TRICHLOROETHANE	< 1	µg/l

Envirogact. Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NAS 30-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
CIS-1,3-DICHLOROPROPENE	< 1	µg/l
2-CHLOROETHYLVINYL ETHER	< 1	µg/l
BROMOFORM	< 1	µg/l
1,1,2,2-TETRACHLOROETHANE	< 1	µg/l
TETRACHLOROETHENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l
1,2-DIBROMO-3-CHLOROPROPANE	< 1	µg/l
1,2-DICHLOROPROPENE	< 1	µg/l
STYRENE	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Envirogact. Inc.

Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NAS 30-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : METALS		UNITS
ARSENIC	< 0.005	mg/l
BARIUM	0.14	mg/l
CADMIUM	< 0.01	mg/l
CHROMIUM, TOTAL	< 0.01	mg/l
COPPER	< 0.01	mg/l
LEAD	< 0.01	mg/l
MERCURY	< 0.1	µg/l
SELENIUM	< 0.005	mg/l
SILVER	< 0.01	mg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Enviropact, Inc.
Environmental Consulting and Analysis

4790 N.W. 157th Street
Hialeah, Florida 33014
Telephone: (305) 620-1700
Fla. Wats: (800) 432-8726

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA, FL 33688

October 18, 1985
Report 14978
LAB I.D. 86119

Sample Received: 9/24/85
Sample Designation:VOC'S BY EPA METHOD 624

Collected By: YOUR REP.

REPORT OF ANALYSIS : NAS-30-4		UNITS
ACROLEIN	< 1	µg/l
ACRYLONITRILE	< 1	µg/l
TOLUENE	< 1	µg/l
CHLOROMETHANE	< 1	µg/l
BROMOMETHANE	< 1	µg/l
DICHLORODIFLUOROMETHANE	< 1	µg/l
VINYL CHLORIDE	< 1	µg/l
CHLOROETHANE	< 1	µg/l
METHYLENE CHLORIDE	< 1	µg/l
TRICHLOROFLUOROMETHANE	< 1	µg/l
1,1-DICHLOROETHENE	< 1	µg/l
1,1-DICHLOROETHANE	< 1	µg/l
TRANS-1,2-DICHLOROETHENE	< 1	µg/l
CHLOROFORM	< 1	µg/l
1,2-DICHLOROETHANE	< 1	µg/l
1,1,1-TRICHLOROETHANE	< 1	µg/l
CARBON TETRACHLORIDE	< 1	µg/l
BROMODICHLOROMETHANE	< 1	µg/l
1,2-DICHLOROPROPANE	< 1	µg/l
TRANS-1,3-DICHLOROPROPENE	< 1	µg/l
TRICHLOROETHENE	< 1	µg/l
DIBROMOCHLOROMETHANE	< 1	µg/l
1,1,2-TRICHLOROETHANE	< 1	µg/l

Enviropact, Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA, FL 33688

October 18, 1985
Report 14978
LAB I.D. 86119

Sample Received: 9/24/85
Sample Designation:VOC'S BY EPA METHOD 624

Collected By: YOUR REP.

REPORT OF ANALYSIS : NAS-30-4		UNITS
CIS-1,3-DICHLOROPROPENE	< 1	µg/l
2-CHLOROETHYLVINYL ETHER	< 1	µg/l
BROMOFORM	< 1	µg/l
1,1,2,2-TETRACHLOROETHANE	< 1	µg/l
TETRACHLOROETHENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l
1,2-DIBROMO-3-CHLOROPROPANE	< 1	µg/l
1,2-DICHLOROPROPENE	< 1	µg/l
STYRENE	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn

Envirogact. Inc.

Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NAS 30-4

Collected By: YOUR REP.

REPORT OF ANALYSIS : METALS		UNITS
ARSENIC	< 0.005	mg/l
BARIUM	0.15	mg/l
CADMIUM	< 0.01	mg/l
CHROMIUM, TOTAL	< 0.01	mg/l
COPPER	< 0.01	mg/l
LEAD	< 0.01	mg/l
MERCURY	< 0.1	µg/l
SELENIUM	< 0.005	mg/l
SILVER	< 0.01	mg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Enviropact, Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NAS 30-5

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
ACROLEIN	< 50	µg/l
ACRYLONITRILE	< 50	µg/l
TOLUENE	11	µg/l
CHLOROMETHANE	< 1	µg/l
BROMOMETHANE	< 1	µg/l
DICHLORODIFLUOROMETHANE	< 1	µg/l
VINYL CHLORIDE	< 1	µg/l
CHLOROETHANE	< 1	µg/l
METHYLENE CHLORIDE	< 1	µg/l
TRICHLOROFLUOROMETHANE	< 1	µg/l
1,1-DICHLOROETHENE	< 1	µg/l
1,1-DICHLOROETHANE	< 1	µg/l
TRANS-1,2-DICHLOROETHENE	< 1	µg/l
CHLOROFORM	2.5	µg/l
1,2-DICHLOROETHANE	< 1	µg/l
1,1,1-TRICHLOROETHANE	2.5	µg/l
CARBON TETRACHLORIDE	2	µg/l
BROMODICHLOROMETHANE	4	µg/l
1,2-DICHLOROPROPANE	< 1	µg/l
TRANS-1,3-DICHLOROPROPENE	< 1	µg/l
TRICHLOROETHENE	7	µg/l
DIBROMOCHLOROMETHANE	< 1	µg/l
1,1,2-TRICHLOROETHANE	< 1	µg/l

Envirepact Inc.

Environmental Consulting and Analysis

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P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NAS 30-5

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 624		UNITS
CIS-1,3-DICHLOROPROPENE	< 1	µg/l
2-CHLOROETHYLVINYL ETHER	< 1	µg/l
BROMOFORM	< 1	µg/l
1,1,2,2-TETRACHLOROETHANE	< 1	µg/l
TETRACHLOROETHENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l
1,2-DIBROMO-3-CHLOROPROPANE	< 1	µg/l
1,2-DICHLOROPROPENE	< 1	µg/l
STYRENE	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn
Laboratory Supervisor

Envirapact, Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NAS 30-5

Collected By: YOUR REP.

REPORT OF ANALYSIS : METALS		UNITS
ARSENIC	< 0.005	mg/l
BARIUM	0.25	mg/l
CADMIUM	< 0.01	mg/l
CHROMIUM, TOTAL	< 0.01	mg/l
COPPER	< 0.01	mg/l
LEAD	< 0.01	mg/l
MERCURY	< 0.1	µg/l
SELENIUM	< 0.005	mg/l
SILVER	< 0.01	mg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Enviropact, Inc.

Environmental Consulting and Analysis

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GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:PROJECT # T290GW2

Collected By: YOUR REP.

REPORT OF ANALYSIS : NAS - 30 SOIL # 1		UNITS
CADMIUM-E.P.TOXIC	0.58	ppm
LEAD-E.P.TOXIC	0.20	ppm

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Kohn

Lawrence J. Kohn

Envirapact, Inc.

Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:PROJECT # T290GW2

Collected By: YOUR REP.

REPORT OF ANALYSIS : NAS - 30 SOIL # 2		UNITS
CADMIUM-E.P.TOXIC	0.39	ppm
LEAD-E.P.TOXIC	0.19	ppm

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Envirepact, Inc.
Environmental Consulting and Analysis

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GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:PROJECT # T290GW2

Collected By: YOUR REP.

REPORT OF ANALYSIS : NAS - 30 SOIL # 3		UNITS
CADMIUM-E.P.TOXIC	1.04	ppm
LEAD-E.P.TOXIC	1.51	ppm

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn

Envirepact, Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:PROJECT # T290GW2

Collected By: YOUR REP.

REPORT OF ANALYSIS : NAS - 30 SOIL # 4		UNITS
CADMIUM-E.P.TOXIC	1.18	ppm
LEAD-E.P.TOXIC	0.20	ppm

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn

Envirogact, Inc.
Environmental Consulting and Analysis

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GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:PROJECT # T290GW2

Collected By: YOUR REP.

REPORT OF ANALYSIS : NAS - 30 SOIL # 5		UNITS
CADMIUM-E.P.TOXIC	0.53	ppm
LEAD-E.P.TOXIC	0.13	ppm

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn
Laboratory Supervisor

Envirepact Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:PROJECT # T290GW2

Collected By: YOUR REP.

REPORT OF ANALYSIS : NAS - 30 SOIL # 6		UNITS
CADMIUM-E.P.TOXIC	< 0.1	ppm
LEAD-E.P.TOXIC	0.11	ppm

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

SECTION 4

Base Landfill

Site No. 32

Enviropact, Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NAS 32-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : BASE NEUTRALS		UNITS
BIS (2-CHLOROISOPROPYL) ETHER	< 10	µg/l
4-BROMOPHENYL PHENYL ETHER	< 10	µg/l
BUTYL BENZYL PHTHALATE	< 5	µg/l
2-CHLORONAPHTHALENE	< 5	µg/l
4-CHLOROPHENYL PHENYL ETHER	< 5	µg/l
CHRYSENE	< 5	µg/l
DIBENZO (A,H) ANTHRACENE	< 5	µg/l
DI-N-BUTYLPHTHALATE	< 5	µg/l
DIETHYLPHTHALATE	< 25	µg/l
DIMETHYLPHTHALATE	< 5	µg/l
2,4-DINITROTOLUENE	< 10	µg/l
2,6-DINITROTOLUENE	< 10	µg/l
DIOCTYLPHTHALATE	< 5	µg/l
FLUORANTHENE	< 5	µg/l
FLUORENE	< 5	µg/l
HEXACHLOROBENZENE	< 5	µg/l
HEXACHLOROBUTADIENE	< 5	µg/l
HEXACHLOROETHANE	< 5	µg/l
INDENO-(1,2,3-CD) PYRENE	< 5	µg/l
ISOPHORONE	< 5	µg/l
NITROBENZENE	< 5	µg/l
N-NITROSODI-N-PROPYLAMINE	< 5	µg/l
PHENANTHRENE	< 5	µg/l
PYRENE	< 5	µg/l

Envirepact, Inc.

Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NAS 32-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : BASE NEUTRALS		UNITS
3,3 DICHLOROBENZIDINE	< 50	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
NAPHTHALENE	< 5	µg/l
ALDRIN	< 1	µg/l
DIELDRIN	< 1	µg/l
ENDRIN ALDEHYDE	< 1	µg/l
HEPTACHLOR	< 1	µg/l
HEPTACHLOR-EPOXIDE	< 1	µg/l
BETA BHC	< 1	µg/l
DELTA BHC	< 1	µg/l
ACENAPHTHENE	< 5	µg/l
ACENAPHTHYLENE	< 5	µg/l
ANTHRACENE	< 5	µg/l
BENZO (A) ANTHRACENE	< 10	µg/l
BENZO (B) FLUORANTHENE	< 5	µg/l
BENZO (K) FLUORANTHENE	< 5	µg/l
BENZO (A) PYRENE	< 5	µg/l
BENZO (G,H,I) PERYLENE	< 5	µg/l
BIS (2-CHLOROETHYL) ETHER	< 10	µg/l
BIS (2-CHLOROETHOXY) METHANE	< 5	µg/l
BIS (2-ETHYLHEXYL) PHTHALATE	< 5	µg/l

Envirepact, Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NAS 32-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : BASE NEUTRALS		UNITS
1,2,4-TRICHLOROBENZENE	< 5	µg/l
4,4'-DDD	< 1	µg/l
4,4'-DDE	< 1	µg/l
4,4'-DDT	< 1	µg/l
PCB 1016	< 1	µg/l
PCB 1221	< 1	µg/l
PCB 1232	< 1	µg/l
PCB 1242	< 1	µg/l
PCB 1248	< 1	µg/l
PCB 1254	< 1	µg/l
PCB 1260	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn

Envirotect. Inc.
Environmental Consulting and Analysis

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P.O. BOX 271173
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Report 13670
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Sample Designation:NAS 32-1

Collected By: YOUR REP.

REPORT OF ANALYSIS : ACID EXTRACTABLES		UNITS
PHENOL	< 5	µg/l
2 -NITRO PHENOL	< 5	µg/l
2,4 - DIMETHYL PHENOL	< 5	µg/l
2,4 - DICHLOROPHENOL	< 5	µg/l
2,4,6 - TRICHLOROPHENOL	< 5	µg/l
4 - CHLORO - 3 METHYLPHENOL	< 5	µg/l
2,4, - DINITROPHENOL	< 50	µg/l
PENTACHLOROPHENOL	< 5	µg/l
2-CHLOROPHENOL	< 5	µg/l
2-METHYL-4,6-DINITROPHENOL	< 25	µg/l
4-NITROPHENOL	< 5	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

SECTION 5

NFD: Oil Pond

Site No. 5

Enviropact, Inc.
Environmental Consulting and Analysis

1437

GERAGHTY & MILLER, INC."TAMPA"
P.O. BOX 271173
TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NFD - 2

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 602		UNITS
TOLUENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Enviropact, Inc.

Environmental Consulting and Analysis

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Sample Received: 4/05/85
Sample Designation:NFD - 2

Collected By: YOUR REP.

REPORT OF ANALYSIS : PETROLEUM HYDROCARBONS		UNITS
HYDROCARBONS	1	mg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Envirapact, Inc.
Environmental Consulting and Analysis

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GERAGHTY & MILLER, INC."TAMPA"
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TAMPA ,FL 33688

September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NFD - 3

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 602		UNITS
TOLUENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Enviropact, Inc.

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September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NFD - 3

Collected By: YOUR REP.

REPORT OF ANALYSIS : PETROLEUM HYDROCARBONS		UNITS
HYDROCARBONS	1	mg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Envirapact, Inc.
Environmental Consulting and Analysis

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September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NFD - 4

Collected By: YOUR REP.

REPORT OF ANALYSIS : VOC'S BY EPA METHOD 602		UNITS
TOLUENE	< 1	µg/l
CHLOROBENZENE	< 1	µg/l
1,3-DICHLOROBENZENE	< 1	µg/l
1,2-DICHLOROBENZENE	< 1	µg/l
1,4-DICHLOROBENZENE	< 1	µg/l
BENZENE	< 1	µg/l
ETHYL BENZENE	< 1	µg/l
TOTAL XYLENES	< 1	µg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn

Lawrence J. Korn
Laboratory Supervisor

Envirapact, Inc.
Environmental Consulting and Analysis

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September 12,1985
Report 13670
LAB I.D. 86119

Sample Received: 4/05/85
Sample Designation:NFD - 4

Collected By: YOUR REP.

REPORT OF ANALYSIS : PETROLEUM HYDROCARBONS		UNITS
HYDROCARBONS	< 1	mg/l

Analyses made in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods.

Respectfully Submitted,

Lawrence J. Korn
Laboratory Supervisor