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ABB

08566.012

January 17, 1997

Southern Division
Naval Facilities Engineering Command
ATTN: Mr. Bryan Kizer
P.O. Box 10068
2155 Eagle Drive
North Charleston, SC 29418

Subject: Second Quarter Monitoring Letter Report, Site 119, Naval Air Station (NAS) Jacksonville

The second quarter groundwater samples were collected at Site 119 in December 1996 and shipped to Quanterra Labs in North Canton, Ohio, for analysis. Groundwater samples were collected from 11 monitoring wells at the site. Groundwater samples were collected using a TerraProbe℠ at three locations where monitoring wells MW-32, MW-33, and MW-35 had been destroyed by construction activities at Area B prior to sampling. Monitoring wells and TerraProbe℠ sampling locations are shown in Figure 1, Appendix A. Samples were not collected from monitoring wells in Areas D and F because remedial action (soil excavation) is planned for those areas. The following is a summary of the monitoring wells sampled and the status of each area.

Area A: MW-20 and MW-23 were sampled for U.S. Environmental Protection Agency (USEPA) Methods 602 and 610.

Area B: MW-34 was sampled for USEPA Methods 601, 602, and 610. Groundwater samples were collected using the TerraProbe℠ at the former locations of monitoring wells MW-32, MW-33 and MW-35 for USEPA Methods 601, 602, and 610.

Area C: MW-25, MW-36, MW-37, and MW-38 were sampled for USEPA Methods 602 and 610.

Area D: No groundwater samples were collected. A limited-scope remedial action plan (RAP) is being prepared for Area D.

Area E: MW-01 and MW-17 were sampled for USEPA Method 602.

Area F: No groundwater samples were collected. A limited-scope RAP is being prepared for Area F.

ABB Environmental Services, Inc.

2590 Executive Center Circle East
Berkeley Building
Tallahassee, Florida 32301

Telephone
904-656-1293

Fax
904-877-0742

Area G: MW-07 and MW-09 were sampled for USEPA Methods 601 and 602.

Table 1, Appendix A, is a summary of the first and second quarter analytical results and previous groundwater analytical data. September and October 1995 data show contaminant concentrations from monitoring wells sampled during the contamination assessment. February 1996 data are samples from wells that were overdeveloped as part of an alternate procedure to reduce contaminant concentrations below State No Further Action (NFA) and Monitoring Only (MO) target levels. The data are presented together to show changes in contaminant concentrations in these wells over time. Analytical results for each well sampled during the second quarter are attached in Appendix B, Second Quarter Groundwater Analytical Results, December 1996.

The following summary discusses the analytical results of each area and presents recommendations for further action where needed.

Area A: Results: Contaminant concentrations in groundwater samples from monitoring well MW-23 were below the analytical method detection limits. Fluoranthene and pyrene were detected in concentrations below Florida Department of Environmental Protection target levels in MW-20.

Recommendation: Continue monitoring program per Chapter 62-770, Florida Administrative Code (FAC).

Area B: Results: Contaminant concentrations in groundwater samples from monitoring well MW-34 and TerraProbe℠ locations MW-32 and MW-35 were below the analytical method detection limits. Concentrations of benzene, toluene, ethylbenzene, xylenes (BTEX), total naphthalenes, and nonnaphthalene total polynuclear aromatic hydrocarbons (PAHs) in the groundwater sample from TerraProbe℠ location MW-33 were significantly lower than when previously sampled. Only benzene in TerraProbe℠ sample MW-33 (2.3 parts per billion [ppb]) exceeded the State target level of 1 ppb.

Recommendation: Continue monitoring program per Chapter 62-770, FAC. Replace monitoring wells MW-32, MW-33, and MW-35 before third quarterly sampling scheduled for March 1997.

Area C: Results: Contaminant concentrations in groundwater samples from monitoring wells MW-25 and MW-37 were below the analytical method detection limits. BTEX were detected in the groundwater sample from MW-36 in concentrations below State target levels; however, none of these compounds had been detected previously. Benzene slightly exceeded the State target level.

Chlorobenzene, 1,2-dichlorobenzene, and 1,4-dichlorobenzene, which were detected in MW-38 in very low concentrations during the first quarterly sampling, were below method detection limits. Benzene and total naphthalene concentrations in MW-38 decreased; however, toluene and nonnaphthalene PAH concentrations increased slightly. Total BTEX and PAH concentrations in MW-38 remained below State NFA and MO target levels.

Recommendation: Continue monitoring program per Chapter 62-770, FAC.

Area D: A limited-scope RAP is being prepared to remediate contaminated soil and groundwater.

Area E: Results: Ethylbenzene, which was detected in MW-01 during the first quarterly sampling, was not detected in the second quarterly sampling. However, chlorobenzene, toluene, and 1,4-dichlorobenzene, which were not detected during the first quarterly sampling, were detected in very low concentrations during the second quarterly sampling. Consequently, total BTEX increased slightly in comparison to the previous quarterly sampling results. Contaminant concentrations in groundwater samples from monitoring well MW-17 were below the analytical method detection limits.

Recommendation: Continue monitoring program per Chapter 62-770, FAC.

Area F: A limited-scope RAP is being prepared to remediate contaminated soil and groundwater.

Area G: Results: Contaminant concentrations in groundwater samples from monitoring well MW-07 were below the analytical method detection limits. The concentration of 1,4-dichlorobenzene in the samples from MW-09 decreased to below the method detection limit; however, the chlorobenzene concentration increased significantly from 35 ppb to 200 ppb. The chlorobenzene concentration exceeds the State target level of 100 ppb and the preoverdevelopment concentration of 160 ppb.

Recommendation: Continue MO program at MW-07 per Chapter 62-770, FAC and prepare a limited-scope RAP for the area at MW-9.

In accordance with Chapter 62-770, FAC, ABB Environmental Services, Inc. plans to conduct the third quarterly groundwater sampling at NAS Jacksonville Tank Site 119 in March 1997. Groundwater samples will be collected at the locations of destroyed monitoring wells MW-32, MW-33, and MW-35 using the TerraProbe℠ until the monitoring wells can be replaced during the anticipated contamination assessment at the Auto Hobby Shop site. The Auto Hobby Shop site field investigation is tentatively scheduled to begin in April 1997. Please contact me if you have any questions or comments.

Sincerely,

ABB ENVIRONMENTAL SERVICES, INC.

FOR: Phylissa Miller
Project Manager

Jim Williams, P.G.
Principal Scientist

Attachments

cc: Lt. Beth Melendez (Naval Air Station Jacksonville)
file

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PROFESSIONAL REVIEW CERTIFICATION

This report was prepared under the direct supervision of a professional geologist registered in the State of Florida. The work and professional opinions rendered in this report were conducted or developed in accordance with commonly accepted procedures consistent with applicable standards of practice. This assessment is based on the geologic investigation and associated information detailed in the text and appended to this report or referenced in public literature. Recommendations are based upon interpretations of the applicable regulatory requirements, guidelines, and relevant issues discussed with regulatory personnel during the site assessment. If conditions that differ from those described are determined to exist, the undersigned geologist should be notified to evaluate the effects of any additional information on this assessment or the recommendations made in this report. This report was developed for Site 119, NAS Jacksonville, Jacksonville, Florida, and should not construed to apply to any other site.

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

1/17/97
Date

ATTACHMENT A

FIGURE

TABLE

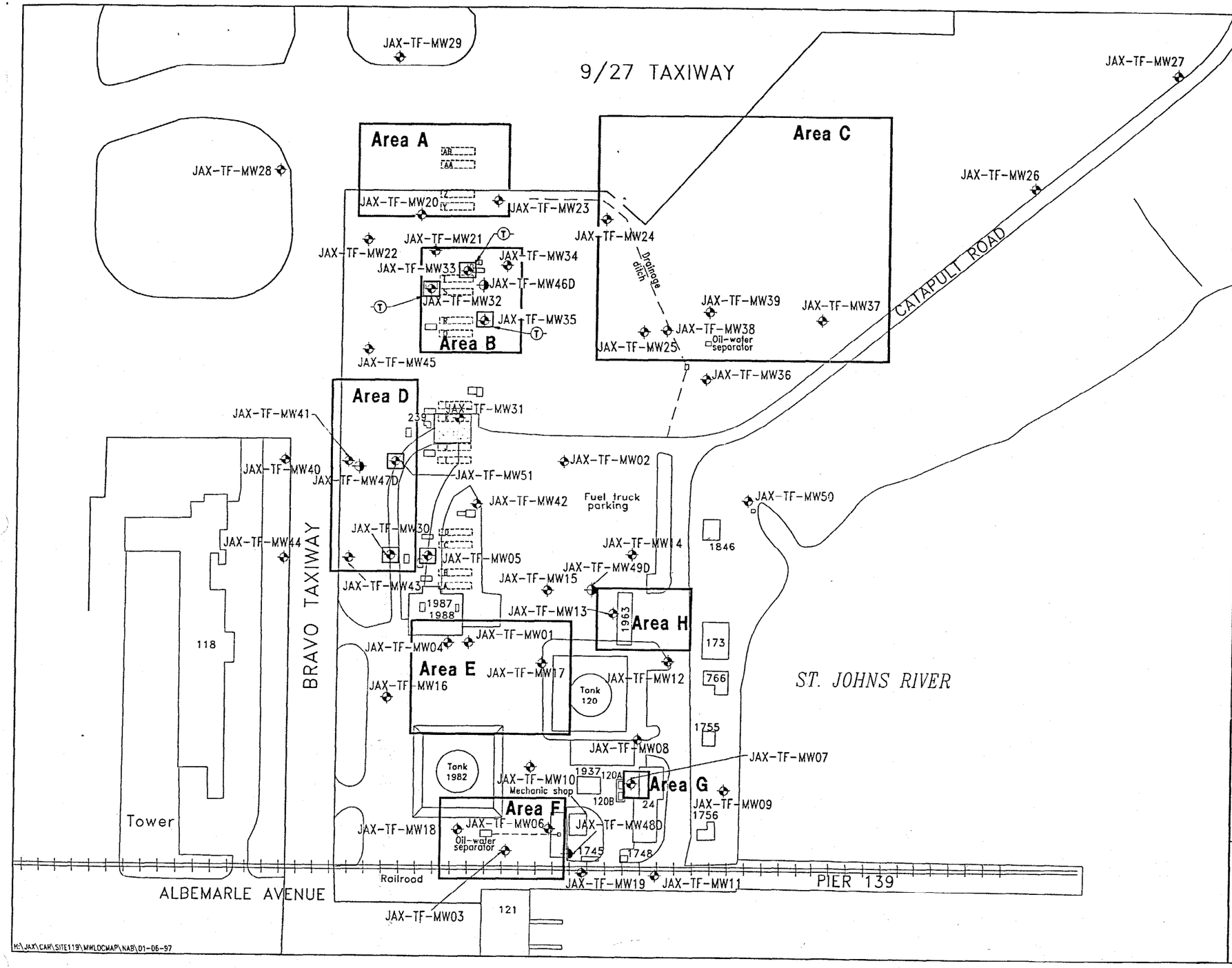

FIGURE 1
MONITORING WELL AND TERRAPROBE SM SAMPLING LOCATIONS

SECOND QUARTER MONITORING LETTER REPORT

NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

01083C137

Table 1
Summary of Groundwater Sample Analytical Results

Second Quarter Monitoring Letter Report, Site 119
Naval Air Station Jacksonville
Jacksonville, Florida

Compound Detected	Area A						State Target Level
	MW-20 19G02000			MW-23 19G02300			
	10/2/95	9/27/96	12/10/96	9/26/95	9/27/96	12/10/96	
Volatile Organic Compounds (USEPA Methods 601/602 or 624), ppb							
1,2-Dichloropropane	ND	NS	NS	ND	ND	NS	5
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	NR	600
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	NR	75
Chlorobenzene	ND	ND	ND	ND	ND	NR	100
Methylene chloride	ND	NS	NS	ND	NS	NS	5
Vinyl chloride	ND	NS	NS	ND	NS	NS	1
Benzene	ND	ND	ND	ND	ND	ND	1
Toluene	ND	ND	ND	ND	ND	ND	NA
Ethylbenzene	ND	ND	ND	ND	ND	ND	NA
Total xylenes	ND	ND	ND	ND	ND	ND	NA
Total BTEX	ND	ND	ND	ND	ND	ND	50
Polynuclear Aromatic Hydrocarbons [PAHs] (USEPA Methods 610 or 625), ppb							
Total Naphthalenes	ND	ND	ND	ND	ND	ND	100
Total PAHs (excluding naphthalenes)	ND	3.02	0.63	ND	ND	ND	10 or DL

See notes at end of table.

Table 1 (Continued)
Summary of Groundwater Sample Analytical Results

Second Quarter Monitoring Letter Report, Site 119
Naval Air Station Jacksonville
Jacksonville, Florida

Compound Detected	Area B													State Target Level
	[1]MW-33 19G03300				MW-32 19G03200			MW-34 19G03400			MW-35 19G03500			
	10/2/95	2/1/96	[2]9/27/96	12/9/96	9/26/95	[2]9/27/96	12/9/96	9/26/95	9/27/96	12/10/96	9/26/95	[2]9/27/96	12/9/96	
Volatile Organic Compounds (USEPA Methods 601/602 or 624), ppb														
1,2-Dichloropropane	ND	NS	NS	ND	ND	NS	ND	ND	ND	ND	ND	NS	ND	5
1,2-Dichlorobenzene	ND	NS	NS	ND	ND	NS	ND	ND	ND	ND	ND	NS	ND	600
1,4-Dichlorobenzene	ND	NS	NS	ND	ND	NS	ND	ND	ND	ND	ND	NS	ND	75
Chlorobenzene	ND	NS	NS	ND	ND	NS	ND	ND	ND	ND	ND	NS	ND	100
Methylene chloride	ND	NS	NS	ND	ND	NS	ND	ND	ND	ND	ND	NS	ND	5
Vinyl chloride	ND	NS	NS	ND	ND	NS	ND	ND	ND	ND	ND	NS	ND	1
Benzene	[3]20	[3]3.8	NS	2.3	ND	NS	ND	ND	ND	ND	ND	NS	ND	1
Toluene	3.3	ND	NS	2.6	ND	NS	ND	ND	ND	ND	ND	NS	ND	NA
Ethylbenzene	46	6.7	NS	ND	ND	NS	ND	ND	ND	ND	ND	NS	ND	NA
Total xylenes	530	165	NS	1.2	ND	NS	ND	ND	ND	ND	ND	NS	ND	NA
Total BTEX	[3]599.3	[3]175.5	NS	6.1	ND	NS	ND	ND	ND	ND	ND	NS	ND	50
PAHs (USEPA Methods 610 or 625), ppb														
Total Naphthalenes	[3]213	[3]328	NS	13	ND	NS	ND	ND	ND	ND	ND	NS	ND	100
Total PAHs (excluding naphthalenes)	[3]28.2	[3]45	NS	9.9	ND	NS	ND	ND	ND	ND	ND	NS	ND	10 or DL

See notes at end of table.

Table 1 (Continued)
Summary of Groundwater Sample Analytical Results

Second Quarter Monitoring Letter Report, Site 119
Naval Air Station Jacksonville
Jacksonville, Florida

Compound Detected	Area C													State Target Level
	[1]MW-38 19G03800			MW-25 19G02500			MW-36 19G03600				MW-37 19G03700			
	10/2/95	9/26/96	12/10/96	9/25/95	9/26/96	12/10/96	10/2/95	2/1/96	9/26/96	12/11/96	9/25/95	9/26/96	12/10/96	
Volatile Organic Compounds (USEPA Methods 601/602 or 624), ppb														
1,2-Dichloropropane	ND	NS	NS	ND	NS	NS	ND	NS	NS	NS	ND	NS	NS	5
1,2-Dichlorobenzene	ND	[4]1.8	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	600
1,4-Dichlorobenzene	ND	[4]1.1	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	75
Chlorobenzene	ND	[4]2.0	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	100
Methylene chloride	ND	NS	NS	ND	NS	NS	ND	NS	NS	NS	ND	NS	NS	5
Vinyl chloride	ND	NS	NS	ND	NS	NS	ND	NS	NS	NS	ND	NS	NS	1
Benzene	[3]1.8	[3]1.1	ND	ND	ND	ND	ND	NS	ND	[3,4]1.1	ND	ND	ND	1
Toluene	ND	ND	[4]2.8	ND	ND	ND	ND	NS	ND	[4]1.1	ND	ND	ND	NA
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	NS	ND	[4]1.1	ND	ND	ND	NA
Total xylenes	1.4	ND	ND	ND	ND	ND	ND	NS	ND	[4]5.5	ND	ND	ND	NA
Total BTEX	3.2	1.1	[4]2.8	ND	ND	ND	ND	NS	ND	[4]8.8	ND	ND	ND	50
PAHs (USEPA Methods 610 or 625), ppb														
Total Naphthalenes	13.4	[4]29	15.9	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	100
Total PAHs (excluding naphthalenes)	ND	ND	[4]0.21	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	10 or DL

See notes at end of table.

Table 1 (Continued)
Summary of Groundwater Sample Analytical Results

Second Quarter Monitoring Letter Report, Site 119
Naval Air Station Jacksonville
Jacksonville, Florida

Compound Detected	Area E							State Target Level
	[1]MW-01 19G00100				MW-17 19G01700			
	10/4/95	2/1/96	9/27/96	12/11/96	10/2/95	9/27/96	12/11/96	
Volatile Organic Compounds (USEPA Methods 601/602 or 624), ppb								
1,2-Dichloropropane	NS	NS	NS	NS	ND	NS	NS	5
1,2-Dichlorobenzene	ND	NS	ND	ND	ND	ND	ND	600
1,4-Dichlorobenzene	ND	NS	ND	[4]1.4	ND	ND	ND	75
Chlorobenzene	ND	NS	ND	[4]1.1	ND	ND	ND	100
Methylene chloride	NS	NS	NS	NS	ND	NS	NS	5
Vinyl chloride	NS	NS	NS	NS	ND	NS	NS	1
Benzene	[3]36	ND	ND	ND	ND	NS	NS	1
Toluene	ND	ND	ND	[4]2.0	ND	ND	ND	NA
Ethylbenzene	ND	ND	[4]1.1	ND	ND	ND	ND	NA
Total xylenes	ND	ND	ND	ND	ND	ND	ND	NA
Total BTEX	36	ND	[4]1.1	[4]2.0	ND	ND	ND	50
PAHs (USEPA Methods 610 or 625), ppb								
Total Naphthalenes	ND	NS	NS	NS	ND	NS	NS	100
Total PAHs (excluding naphthalenes)	ND	NS	NS	NS	ND	NS	NS	10 or DL

See notes at end of table.

Table 1 (Continued)
Summary of Groundwater Sample Analytical Results

Second Quarter Monitoring Letter Report, Site 119
Naval Air Station Jacksonville
Jacksonville, Florida

Compound Detected	Area G						State Target Level
	[1]MW-07 19G00700			MW-09 19G00900			
	10/3/95	9/26/96	12/11/96	9/27/95	9/26/96	12/11/96	
Volatile Organic Compounds (USEPA Methods 601/602 or 624), ppb							
1,2-Dichloropropane	2.4	ND	ND	ND	ND	ND	5
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	600
1,4-Dichlorobenzene	ND	ND	ND	2.5	2.0	ND	75
Chlorobenzene	ND	ND	ND	[3]160	35	[3,4]200	100
Methylene chloride	ND	ND	ND	ND	ND	ND	5
Vinyl chloride	ND	ND	ND	ND	ND	ND	1
Benzene	ND	ND	ND	ND	ND	ND	1
Toluene	ND	ND	ND	ND	ND	ND	NA
Ethylbenzene	ND	ND	ND	ND	ND	ND	NA
Total xylenes	ND	ND	ND	ND	ND	ND	NA
Total BTEX	ND	ND	ND	ND	ND	ND	50
PAHs (USEPA Methods 610 or 625), ppb							
Total Naphthalenes	ND	NS	NS	ND	NS	NS	100
Total PAHs (excluding naphthalenes)	ND	NS	NS	ND	NS	NS	10 or DL

[1] Source area monitoring well.
[2] Well damaged or destroyed.
[3] Concentration exceeds State target level.
[4] Concentration greater than when sampled previously.
[5] Concentration of duplicate sample.

Notes: USEPA = U.S. Environmental Protection Agency.
ppb = parts per billion.
ND = not detected.
NS = not sampled.
NR = not reported.
NA = not applicable.
BTEX = benzene, toluene, ethylbenzene, and xylenes.
DL = detection limit.

APPENDIX B

SECOND QUARTER GROUNDWATER ANALYTICAL RESULTS

19G00100 -- 12/11/96

1,2-Dichlorobenzene	1.0000	U	ug/L
1,3-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobenzene	1.4000	**	ug/L
Benzene	1.0000	U	ug/L
Benzene	17.0000		ug/L
Chlorobenzene	1.1000	**	ug/L
Ethylbenzene	1.0000	U	ug/L
Ethylbenzene	18.0000		ug/L
Methyl tert-butyl ether	1.0000	U	ug/L
Toluene	2.0000		ug/L
Toluene	20.0000		ug/L
Trifluorotoluene	226.0000	*	PERCENT
Trifluorotoluene	201.0000	*	PERCENT
Xylenes (total)	1.0000	U	ug/L

19G00700 -- 12/11/96

1,1,1-Trichloroethane	1.0000	U	ug/L
1,1,2,2-Tetrachloroethane	1.0000	U	ug/L
1,1,2-Trichloroethane	1.0000	U	ug/L
1,1-Dichloroethane	1.0000	U	ug/L
1,1-Dichloroethene	1.0000	U	ug/L
1,2-Dichlorobenzene	1.0000	U	ug/L
1,2-Dichlorobenzene	1.0000	U	ug/L
1,2-Dichloroethane	1.0000	U	ug/L
1,2-Dichloropropane	1.0000	U	ug/L
1,3-Dichlorobenzene	1.0000	U	ug/L
1,3-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobutane	88.0000		PERCENT
2-Chloroethyl vinyl ether	0.0000	U	ug/L
Benzene	1.0000	U	ug/L
Bromodichloromethane	1.0000	U	ug/L
Bromoform	1.0000	U	ug/L
Bromomethane	1.0000	U	ug/L
Carbon tetrachloride	1.0000	U	ug/L
Chlorobenzene	1.0000	U	ug/L
Chlorobenzene	1.0000	U	ug/L
Chloroethane	1.0000	U	ug/L
Chloroform	1.0000	U	ug/L
Chloromethane	1.0000	U	ug/L
Dibromochloromethane	1.0000	U	ug/L
Dichlorodifluoromethane	1.0000	U	ug/L
Ethylbenzene	1.0000	U	ug/L
Methyl tert-butyl ether	1.0000	U	ug/L
Methylene chloride	5.0000	U	ug/L
Tetrachloroethene	1.0000	U	ug/L
Toluene	1.0000	U	ug/L
Trichloroethene	1.0000	U	ug/L
Trichlorofluoromethane	1.0000	U	ug/L
Trifluorotoluene	106.0000		PERCENT

Vinyl chloride	1.0000	U	ug/L
Xylenes (total)	1.0000	U	ug/L
cis-1,3-Dichloropropene	1.0000	U	ug/L
trans-1,2-Dichloroethene	1.0000	U	ug/L
trans-1,3-Dichloropropene	1.0000	U	ug/L

19G00900 -- 12/11/96

1,1,1-Trichloroethane	5.0000	U	ug/L
1,1,1-Trichloroethane	82.0000		ug/L
1,1,2,2-Tetrachloroethane	5.0000	U	ug/L
1,1,2,2-Tetrachloroethane	100.0000		ug/L
1,1,2-Trichloroethane	5.0000	U	ug/L
1,1,2-Trichloroethane	76.0000		ug/L
1,1-Dichloroethane	5.0000	U	ug/L
1,1-Dichloroethane	85.0000		ug/L
1,1-Dichloroethene	5.0000	U	ug/L
1,1-Dichloroethene	72.0000		ug/L
1,2-Dichlorobenzene	1.0000	U	ug/L
1,2-Dichlorobenzene	5.0000	U	ug/L
1,2-Dichlorobenzene	110.0000		ug/L
1,2-Dichloroethane	5.0000	U	ug/L
1,2-Dichloroethane	86.0000		ug/L
1,2-Dichloropropane	5.0000	U	ug/L
1,2-Dichloropropane	82.0000		ug/L
1,3-Dichlorobenzene	1.0000	U	ug/L
1,3-Dichlorobenzene	5.0000	U	ug/L
1,3-Dichlorobenzene	100.0000		ug/L
1,4-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobenzene	5.0000	U	ug/L
1,4-Dichlorobenzene	100.0000		ug/L
1,4-Dichlorobutane	107.0000		PERCENT
1,4-Dichlorobutane	97.0000		PERCENT
1,4-Dichlorobutane	104.0000		PERCENT
2-Chloroethyl vinyl ether	0.0000	U	ug/L
2-Chloroethyl vinyl ether	11.0000		ug/L
Benzene	1.0000	U	ug/L
Bromodichloromethane	5.0000	U	ug/L
Bromodichloromethane	85.0000		ug/L
Bromoform	5.0000	U	ug/L
Bromoform	110.0000		ug/L
Bromomethane	5.0000	U	ug/L
Bromomethane	120.0000		ug/L
Carbon tetrachloride	5.0000	U	ug/L
Carbon tetrachloride	69.0000		ug/L
Chlorobenzene	160.0000		ug/L
Chlorobenzene	200.0000		ug/L
Chlorobenzene	240.0000	a	ug/L
Chloroethane	5.0000	U	ug/L
Chloroethane	94.0000		ug/L
Chloroform	5.0000	U	ug/L
Chloroform	97.0000		ug/L
Chloromethane	5.0000	U	ug/L
Chloromethane	87.0000		ug/L
Dibromochloromethane	5.0000	U	ug/L

Dibromochloromethane	88.0000		ug/L
Dichlorodifluoromethane	5.0000	U	ug/L
Ethylbenzene	1.0000	U	ug/L
Methyl tert-butyl ether	1.0000	U	ug/L
Methylene chloride	5.0000	U	ug/L
Methylene chloride	25.0000	U	ug/L
Methylene chloride	100.0000		ug/L
Tetrachloroethene	5.0000	U	ug/L
Tetrachloroethene	69.0000		ug/L
Toluene	1.0000	U	ug/L
Trichloroethene	5.0000	U	ug/L
Trichloroethene	85.0000		ug/L
Trichlorofluoromethane	5.0000	U	ug/L
Trichlorofluoromethane	74.0000		ug/L
Trifluorotoluene	98.0000		PERCENT
Trifluorotoluene	99.0000		PERCENT
Vinyl chloride	1.0000	U	ug/L
Vinyl chloride	5.0000	U	ug/L
Vinyl chloride	74.0000		ug/L
Xylenes (total)	1.0000	U	ug/L
cis-1,3-Dichloropropene	5.0000	U	ug/L
cis-1,3-Dichloropropene	79.0000		ug/L
trans-1,2-Dichloroethene	5.0000	U	ug/L
trans-1,2-Dichloroethene	79.0000		ug/L
trans-1,3-Dichloropropene	5.0000	U	ug/L
trans-1,3-Dichloropropene	73.0000		ug/L

19G00TB01 -- 12/11/96

1,1,1-Trichloroethane	1.0000	U	ug/L
1,1,2,2-Tetrachloroethane	1.0000	U	ug/L
1,1,2-Trichloroethane	1.0000	U	ug/L
1,1-Dichloroethane	1.0000	U	ug/L
1,1-Dichloroethene	1.0000	U	ug/L
1,2-Dichlorobenzene	1.0000	U	ug/L
1,2-Dichlorobenzene	1.0000	U	ug/L
1,2-Dichloroethane	1.0000	U	ug/L
1,2-Dichloropropane	1.0000	U	ug/L
1,3-Dichlorobenzene	1.0000	U	ug/L
1,3-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobutane	88.0000		PERCENT
2-Chloroethyl vinyl ether	0.0000	U	ug/L
Benzene	1.0000	U	ug/L
Bromodichloromethane	1.0000	U	ug/L
Bromoform	1.0000	U	ug/L
Bromomethane	1.0000	U	ug/L
Carbon tetrachloride	1.0000	U	ug/L
Chlorobenzene	1.0000	U	ug/L
Chlorobenzene	1.0000	U	ug/L
Chloroethane	1.0000	U	ug/L
Chloroform	8.7000		ug/L
Chloromethane	1.0000	U	ug/L
Dibromochloromethane	1.0000	U	ug/L

Dichlorodifluoromethane	1.0000 U	ug/L
Ethylbenzene	1.0000 U	ug/L
Methyl tert-butyl ether	1.0000 U	ug/L
Methylene chloride	5.0000 U	ug/L
Tetrachloroethene	1.0000 U	ug/L
Toluene	1.0000 U	ug/L
Trichloroethene	1.0000 U	ug/L
Trichlorofluoromethane	1.0000 U	ug/L
Trifluorotoluene	107.0000	PERCENT
Vinyl chloride	1.0000 U	ug/L
Xylenes (total)	1.0000 U	ug/L
cis-1,3-Dichloropropene	1.0000 U	ug/L
trans-1,2-Dichloroethene	1.0000 U	ug/L
trans-1,3-Dichloropropene	1.0000 U	ug/L

19G01700 -- 12/11/96

1,2-Dichlorobenzene	1.0000 U	ug/L
1,3-Dichlorobenzene	1.0000 U	ug/L
1,4-Dichlorobenzene	1.0000 U	ug/L
Benzene	1.0000 U	ug/L
Chlorobenzene	1.0000 U	ug/L
Ethylbenzene	1.0000 U	ug/L
Methyl tert-butyl ether	1.0000 U	ug/L
Toluene	1.0000 U	ug/L
Trifluorotoluene	102.0000	PERCENT
Xylenes (total)	1.0000 U	ug/L

19G02000 -- 12/10/96

1,2-Dichlorobenzene	1.0000 U	ug/L
1,3-Dichlorobenzene	1.0000 U	ug/L
1,4-Dichlorobenzene	1.0000 U	ug/L
1-Methylnaphthalene	1.0000 U	ug/L
2-Methylnaphthalene	1.0000 U	ug/L
Acenaphthene	1.0000 U	ug/L
Acenaphthylene	1.0000 U	ug/L
Anthracene	1.0000 U	ug/L
Benzene	1.0000 U	ug/L
Benzo(a)anthracene	0.2000 U	ug/L
Benzo(a)pyrene	0.2000 U	ug/L
Benzo(b)fluoranthene	0.2000 U	ug/L
Benzo(e)pyrene	63.0000	PERCENT
Benzo(ghi)perylene	0.2000 U	ug/L
Benzo(k)fluoranthene	0.2000 U	ug/L
Chlorobenzene	1.0000 U	ug/L
Chrysene	0.2000 U	ug/L
Dibenz(a,h)anthracene	0.2000 U	ug/L
Ethylbenzene	1.0000 U	ug/L
Fluoranthene	0.3400	ug/L
Fluorene	1.0000 U	ug/L
Indeno(1,2,3-cd)pyrene	0.2000 U	ug/L
Methyl tert-butyl ether	1.0000 U	ug/L
Naphthalene	1.0000 U	ug/L
Phenanthrene	1.0000 U	ug/L
Pyrene	0.2900 PD	ug/L

Terphenyl-d14	47.0000		PERCENT
Toluene	1.0000	U	ug/L
Trifluorotoluene	108.0000		PERCENT
Xylenes (total)	1.0000	U	ug/L

19G02300 -- 12/10/96

1-Methylnaphthalene	1.0000	U	ug/L
2-Methylnaphthalene	1.0000	U	ug/L
Acenaphthene	1.0000	U	ug/L
Acenaphthylene	1.0000	U	ug/L
Anthracene	1.0000	U	ug/L
Benzene	1.0000	U	ug/L
Benzo(a)anthracene	0.2000	U	ug/L
Benzo(a)pyrene	0.2000	U	ug/L
Benzo(b)fluoranthene	0.2000	U	ug/L
Benzo(e)pyrene	106.0000		PERCENT
Benzo(ghi)perylene	0.2000	U	ug/L
Benzo(k)fluoranthene	0.2000	U	ug/L
Chrysene	0.2000	U	ug/L
Dibenz(a,h)anthracene	0.2000	U	ug/L
Ethylbenzene	1.0000	U	ug/L
Fluoranthene	0.2000	U	ug/L
Fluorene	1.0000	U	ug/L
Indeno(1,2,3-cd)pyrene	0.2000	U	ug/L
Methyl tert-butyl ether	1.0000	U	ug/L
Naphthalene	1.0000	U	ug/L
Phenanthrene	1.0000	U	ug/L
Pyrene	0.2000	U	ug/L
Terphenyl-d14	79.0000		PERCENT
Toluene	1.0000	U	ug/L
Trifluorotoluene	119.0000		PERCENT
Xylenes (total)	1.0000	U	ug/L

19G02500 -- 12/10/96

1,2-Dichlorobenzene	1.0000	U	ug/L
1,3-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobenzene	1.0000	U	ug/L
1-Methylnaphthalene	1.0000	U	ug/L
2-Methylnaphthalene	1.0000	U	ug/L
Acenaphthene	1.0000	U	ug/L
Acenaphthylene	1.0000	U	ug/L
Anthracene	1.0000	U	ug/L
Benzene	1.0000	U	ug/L
Benzo(a)anthracene	0.2000	U	ug/L
Benzo(a)pyrene	0.2000	U	ug/L
Benzo(b)fluoranthene	0.2000	U	ug/L
Benzo(e)pyrene	115.0000		PERCENT
Benzo(ghi)perylene	0.2000	U	ug/L
Benzo(k)fluoranthene	0.2000	U	ug/L
Chlorobenzene	1.0000	U	ug/L
Chrysene	0.2000	U	ug/L
Dibenz(a,h)anthracene	0.2000	U	ug/L
Ethylbenzene	1.0000	U	ug/L
Fluoranthene	0.2000	U	ug/L

Fluorene	1.0000	U	ug/L
Indeno(1,2,3-cd)pyrene	0.2000	U	ug/L
Methyl tert-butyl ether	1.0000	U	ug/L
Naphthalene	1.0000	U	ug/L
Phenanthrene	1.0000	U	ug/L
Pyrene	0.2000	U	ug/L
Terphenyl-d14	84.0000		PERCENT
Toluene	1.0000	U	ug/L
Trifluorotoluene	104.0000		PERCENT
Xylenes (total)	1.0000	U	ug/L

19G03200 -- 12/09/96

1,1,1-Trichloroethane	1.0000	U	ug/L
1,1,2,2-Tetrachloroethane	1.0000	U	ug/L
1,1,2-Trichloroethane	1.0000	U	ug/L
1,1-Dichloroethane	1.0000	U	ug/L
1,1-Dichloroethene	1.0000	U	ug/L
1,2-Dichlorobenzene	1.0000	U	ug/L
1,2-Dichlorobenzene	1.0000	U	ug/L
1,2-Dichloroethane	1.0000	U	ug/L
1,2-Dichloropropane	1.0000	U	ug/L
1,3-Dichlorobenzene	1.0000	U	ug/L
1,3-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobutane	98.0000		PERCENT
1-Methylnaphthalene	1.0000	U	ug/L
2-Chloroethyl vinyl ether	0.0000	U	ug/L
2-Methylnaphthalene	1.0000	U	ug/L
Acenaphthene	1.0000	U	ug/L
Acenaphthylene	1.0000	U	ug/L
Anthracene	1.0000	U	ug/L
Benzene	1.0000	U	ug/L
Benzo(a)anthracene	0.2000	U	ug/L
Benzo(a)pyrene	0.2000	U	ug/L
Benzo(b)fluoranthene	0.2000	U	ug/L
Benzo(e)pyrene	117.0000		PERCENT
Benzo(ghi)perylene	0.2000	U	ug/L
Benzo(k)fluoranthene	0.2000	U	ug/L
Bromodichloromethane	1.0000	U	ug/L
Bromoform	1.0000	U	ug/L
Bromomethane	1.0000	U	ug/L
Carbon tetrachloride	1.0000	U	ug/L
Chlorobenzene	1.0000	U	ug/L
Chlorobenzene	1.0000	U	ug/L
Chloroethane	1.0000	U	ug/L
Chloroform	1.0000	U	ug/L
Chloromethane	1.0000	U	ug/L
Chrysene	0.2000	U	ug/L
Dibenz(a,h)anthracene	0.2000	U	ug/L
Dibromochloromethane	1.0000	U	ug/L
Dichlorodifluoromethane	1.0000	U	ug/L
Ethylbenzene	1.0000	U	ug/L
Fluoranthene	0.2000	U	ug/L

Fluorene	1.0000	U	ug/L
Indeno(1,2,3-cd)pyrene	0.2000	U	ug/L
Methyl tert-butyl ether	1.0000	U	ug/L
Methylene chloride	5.0000	U	ug/L
Naphthalene	1.0000	U	ug/L
Phenanthrene	1.0000	U	ug/L
Pyrene	0.2000	U	ug/L
Terphenyl-d14	86.0000		PERCENT
Tetrachloroethene	1.0000	U	ug/L
Toluene	1.0000	U	ug/L
Trichloroethene	1.0000	U	ug/L
Trichlorofluoromethane	1.0000	U	ug/L
Trifluorotoluene	106.0000		PERCENT
Vinyl chloride	1.0000	U	ug/L
Xylenes (total)	1.0000	U	ug/L
cis-1,3-Dichloropropene	1.0000	U	ug/L
trans-1,2-Dichloroethene	1.0000	U	ug/L
trans-1,3-Dichloropropene	1.0000	U	ug/L

19G03300 -- 12/09/96

1,1,1-Trichloroethane	1.0000	U	ug/L
1,1,2,2-Tetrachloroethane	1.0000	U	ug/L
1,1,2-Trichloroethane	1.0000	U	ug/L
1,1-Dichloroethane	1.0000	U	ug/L
1,1-Dichloroethene	1.0000	U	ug/L
1,2-Dichlorobenzene	1.0000	U	ug/L
1,2-Dichlorobenzene	1.0000	U	ug/L
1,2-Dichloroethane	1.0000	U	ug/L
1,2-Dichloropropane	1.0000	U	ug/L
1,3-Dichlorobenzene	1.0000	U	ug/L
1,3-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobutane	107.0000		PERCENT
1-Methylnaphthalene	1.0000	U	ug/L
2-Chloroethyl vinyl ether	0.0000	U	ug/L
2-Methylnaphthalene	1.0000	U	ug/L
Acenaphthene	6.8000		ug/L
Acenaphthylene	1.0000	U	ug/L
Anthracene	1.0000	U	ug/L
Benzene	2.3000	**	ug/L
Benzo(a)anthracene	0.2000	U	ug/L
Benzo(a)pyrene	0.2000	U	ug/L
Benzo(b)fluoranthene	0.2000	U	ug/L
Benzo(e)pyrene	119.0000		PERCENT
Benzo(ghi)perylene	0.2000	U	ug/L
Benzo(k)fluoranthene	0.2000	U	ug/L
Bromodichloromethane	1.0000	U	ug/L
Bromoform	1.0000	U	ug/L
Bromomethane	1.0000	U	ug/L
Carbon tetrachloride	1.0000	U	ug/L
Chlorobenzene	1.0000	U	ug/L
Chlorobenzene	1.0000	U	ug/L
Chloroethane	1.0000	U	ug/L

Chloroform	1.0000	U	ug/L
Chloromethane	1.0000	U	ug/L
Chrysene	0.2000	U	ug/L
Dibenz(a,h)anthracene	0.2000	U	ug/L
Dibromochloromethane	1.0000	U	ug/L
Dichlorodifluoromethane	1.0000	U	ug/L
Ethylbenzene	1.0000	U	ug/L
Fluoranthene	0.2000	U	ug/L
Fluorene	3.1000		ug/L
Indeno(1,2,3-cd)pyrene	0.2000	U	ug/L
Methyl tert-butyl ether	1.0000	U	ug/L
Methylene chloride	5.0000	U	ug/L
Naphthalene	13.0000		ug/L
Phenanthrene	1.0000	U	ug/L
Pyrene	0.2000	U	ug/L
Terphenyl-d14	90.0000		PERCENT
Tetrachloroethene	1.0000	U	ug/L
Toluene	2.6000	**	ug/L
Trichloroethene	1.0000	U	ug/L
Trichlorofluoromethane	1.0000	U	ug/L
Trifluorotoluene	168.0000	*	PERCENT
Vinyl chloride	1.0000	U	ug/L
Xylenes (total)	1.2000	**	ug/L
cis-1,3-Dichloropropene	1.0000	U	ug/L
trans-1,2-Dichloroethene	1.0000	U	ug/L
trans-1,3-Dichloropropene	1.0000	U	ug/L

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1,1,1-Trichloroethane	1.0000	U	ug/L
1,1,2,2-Tetrachloroethane	1.0000	U	ug/L
1,1,2-Trichloroethane	1.0000	U	ug/L
1,1-Dichloroethane	1.0000	U	ug/L
1,1-Dichloroethene	1.0000	U	ug/L
1,2-Dichlorobenzene	1.0000	U	ug/L
1,2-Dichlorobenzene	1.0000	U	ug/L
1,2-Dichloroethane	1.0000	U	ug/L
1,2-Dichloropropane	1.0000	U	ug/L
1,3-Dichlorobenzene	1.0000	U	ug/L
1,3-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobutane	96.0000		PERCENT
1-Methylnaphthalene	1.0000	U	ug/L
2-Chloroethyl vinyl ether	0.0000	U	ug/L
2-Methylnaphthalene	1.0000	U	ug/L
Acenaphthene	1.0000	U	ug/L
Acenaphthylene	1.0000	U	ug/L
Anthracene	1.0000	U	ug/L
Benzene	1.0000	U	ug/L
Benzo(a)anthracene	0.2000	U	ug/L
Benzo(a)pyrene	0.2000	U	ug/L
Benzo(b)fluoranthene	0.2000	U	ug/L
Benzo(e)pyrene	102.0000		PERCENT
Benzo(ghi)perylene	0.2000	U	ug/L

Benzo(k)fluoranthene	0.2000	U	ug/L
Bromodichloromethane	1.0000	U	ug/L
Bromoform	1.0000	U	ug/L
Bromomethane	1.0000	U	ug/L
Carbon tetrachloride	1.0000	U	ug/L
Chlorobenzene	1.0000	U	ug/L
Chlorobenzene	1.0000	U	ug/L
Chloroethane	1.0000	U	ug/L
Chloroform	1.0000	U	ug/L
Chloromethane	1.0000	U	ug/L
Chrysene	0.2000	U	ug/L
Dibenz(a,h)anthracene	0.2000	U	ug/L
Dibromochloromethane	1.0000	U	ug/L
Dichlorodifluoromethane	1.0000	U	ug/L
Ethylbenzene	1.0000	U	ug/L
Fluoranthene	0.2000	U	ug/L
Fluorene	1.0000	U	ug/L
Indeno(1,2,3-cd)pyrene	0.2000	U	ug/L
Methyl tert-butyl ether	1.0000	U	ug/L
Methylene chloride	5.0000	U	ug/L
Naphthalene	1.0000	U	ug/L
Phenanthrene	1.0000	U	ug/L
Pyrene	0.2000	U	ug/L
Terphenyl-d14	67.0000		PERCENT
Tetrachloroethene	1.0000	U	ug/L
Toluene	1.0000	U	ug/L
Trichloroethene	1.0000	U	ug/L
Trichlorofluoromethane	1.0000	U	ug/L
Trifluorotoluene	100.0000		PERCENT
Vinyl chloride	1.0000	U	ug/L
Xylenes (total)	1.0000	U	ug/L
cis-1,3-Dichloropropene	1.0000	U	ug/L
trans-1,2-Dichloroethene	1.0000	U	ug/L
trans-1,3-Dichloropropene	1.0000	U	ug/L

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1,1,1-Trichloroethane	1.0000	U	ug/L
1,1,2,2-Tetrachloroethane	1.0000	U	ug/L
1,1,2-Trichloroethane	1.0000	U	ug/L
1,1-Dichloroethane	1.0000	U	ug/L
1,1-Dichloroethene	1.0000	U	ug/L
1,2-Dichlorobenzene	1.0000	U	ug/L
1,2-Dichlorobenzene	1.0000	U	ug/L
1,2-Dichloroethane	1.0000	U	ug/L
1,2-Dichloropropane	1.0000	U	ug/L
1,3-Dichlorobenzene	1.0000	U	ug/L
1,3-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobutane	98.0000		PERCENT
1-Methylnaphthalene	1.0000	U	ug/L
2-Chloroethyl vinyl ether	0.0000	U	ug/L
2-Methylnaphthalene	1.0000	U	ug/L
Acenaphthene	1.0000	U	ug/L

Acenaphthylene	1.0000	U	ug/L
Anthracene	1.0000	U	ug/L
Benzene	1.0000	U	ug/L
Benzo(a)anthracene	0.2000	U	ug/L
Benzo(a)pyrene	0.2000	U	ug/L
Benzo(b)fluoranthene	0.2000	U	ug/L
Benzo(e)pyrene	113.0000		PERCENT
Benzo(ghi)perylene	0.2000	U	ug/L
Benzo(k)fluoranthene	0.2000	U	ug/L
Bromodichloromethane	1.0000	U	ug/L
Bromoform	1.0000	U	ug/L
Bromomethane	1.0000	U	ug/L
Carbon tetrachloride	1.0000	U	ug/L
Chlorobenzene	1.0000	U	ug/L
Chlorobenzene	1.0000	U	ug/L
Chloroethane	1.0000	U	ug/L
Chloroform	1.0000	U	ug/L
Chloromethane	1.0000	U	ug/L
Chrysene	0.2000	U	ug/L
Dibenz(a,h)anthracene	0.2000	U	ug/L
Dibromochloromethane	1.0000	U	ug/L
Dichlorodifluoromethane	1.0000	U	ug/L
Ethylbenzene	1.0000	U	ug/L
Fluoranthene	0.2000	U	ug/L
Fluorene	1.0000	U	ug/L
Indeno(1,2,3-cd)pyrene	0.2000	U	ug/L
Methyl tert-butyl ether	1.0000	U	ug/L
Methylene chloride	5.0000	U	ug/L
Naphthalene	1.0000	U	ug/L
Phenanthrene	1.0000	U	ug/L
Pyrene	0.2000	U	ug/L
Terphenyl-d14	83.0000		PERCENT
Tetrachloroethene	1.0000	U	ug/L
Toluene	1.0000	U	ug/L
Trichloroethene	1.0000	U	ug/L
Trichlorofluoromethane	1.0000	U	ug/L
Trifluorotoluene	108.0000		PERCENT
Vinyl chloride	1.0000	U	ug/L
Xylenes (total)	1.0000	U	ug/L
cis-1,3-Dichloropropene	1.0000	U	ug/L
trans-1,2-Dichloroethene	1.0000	U	ug/L
trans-1,3-Dichloropropene	1.0000	U	ug/L

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1,2-Dichlorobenzene	1.0000	U	ug/L
1,3-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobenzene	1.0000	U	ug/L
1-Methylnaphthalene	1.0000	U	ug/L
2-Methylnaphthalene	1.0000	U	ug/L
Acenaphthene	1.0000	U	ug/L
Acenaphthene	1.4000	a	ug/L
Acenaphthylene	1.0000	U	ug/L
Acenaphthylene	2.9000	a	ug/L
Anthracene	1.0000	U	ug/L

Anthracene	0.4200		ug/L
Benzene	1.1000		ug/L
Benzo(a)anthracene	0.2000	U	ug/L
Benzo(a)anthracene	0.3200		ug/L
Benzo(a)pyrene	0.2000	U	ug/L
Benzo(a)pyrene	0.2900		ug/L
Benzo(b)fluoranthene	0.2000	U	ug/L
Benzo(b)fluoranthene	0.6200		ug/L
Benzo(e)pyrene	109.0000		PERCENT
Benzo(e)pyrene	24.0000		PERCENT
Benzo(ghi)perylene	0.2000	U	ug/L
Benzo(ghi)perylene	0.5300		ug/L
Benzo(k)fluoranthene	0.2000	U	ug/L
Benzo(k)fluoranthene	0.3000		ug/L
Chlorobenzene	1.0000	U	ug/L
Chrysene	0.2000	U	ug/L
Chrysene	0.3400		ug/L
Dibenz(a,h)anthracene	0.2000	U	ug/L
Dibenz(a,h)anthracene	0.5200		ug/L
Ethylbenzene	1.1000		ug/L
Fluoranthene	0.2000	U	ug/L
Fluoranthene	0.5700		ug/L
Fluorene	1.0000	U	ug/L
Fluorene	0.3900	a	ug/L
Indeno(1,2,3-cd)pyrene	0.2000	U	ug/L
Indeno(1,2,3-cd)pyrene	0.2800		ug/L
Methyl tert-butyl ether	1.0000	U	ug/L
Naphthalene	1.0000	U	ug/L
Naphthalene	1.4000	a	ug/L
Phenanthrene	1.0000	U	ug/L
Phenanthrene	0.4500		ug/L
Pyrene	0.2000	U	ug/L
Pyrene	0.3100		ug/L
Terphenyl-d14	80.0000		PERCENT
Terphenyl-d14	19.0000		PERCENT
Toluene	1.1000		ug/L
Trifluorotoluene	119.0000		PERCENT
Xylenes (total)	5.5000		ug/L

19G03700 -- 12/10/96

1,2-Dichlorobenzene	1.0000	U	ug/L
1,3-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobenzene	1.0000	U	ug/L
1-Methylnaphthalene	1.0000	U	ug/L
2-Methylnaphthalene	1.0000	U	ug/L
Acenaphthene	1.0000	U	ug/L
Acenaphthene	14.0000		ug/L
Acenaphthylene	1.0000	U	ug/L
Acenaphthylene	26.0000		ug/L
Anthracene	1.0000	U	ug/L
Anthracene	1.5000		ug/L
Benzene	1.0000	U	ug/L
Benzene	16.0000		ug/L
Benzene	18.0000		ug/L

Benzo(a)anthracene	0.2000	U	ug/L
Benzo(a)anthracene	1.5000		ug/L
Benzo(a)pyrene	0.2000	U	ug/L
Benzo(a)pyrene	1.3000		ug/L
Benzo(b)fluoranthene	0.2000	U	ug/L
Benzo(b)fluoranthene	2.9000		ug/L
Benzo(e)pyrene	119.0000		PERCENT
Benzo(e)pyrene	110.0000		PERCENT
Benzo(ghi)perylene	0.2000	U	ug/L
Benzo(ghi)perylene	2.6000		ug/L
Benzo(k)fluoranthene	0.2000	U	ug/L
Benzo(k)fluoranthene	1.4000		ug/L
Chlorobenzene	1.0000	U	ug/L
Chrysene	0.2000	U	ug/L
Chrysene	1.5000		ug/L
Dibenz(a,h)anthracene	0.2000	U	ug/L
Dibenz(a,h)anthracene	2.7000		ug/L
Ethylbenzene	1.0000	U	ug/L
Ethylbenzene	17.0000		ug/L
Ethylbenzene	18.0000		ug/L
Fluoranthene	0.2000	U	ug/L
Fluoranthene	3.0000		ug/L
Fluorene	1.0000	U	ug/L
Fluorene	2.9000		ug/L
Indeno(1,2,3-cd)pyrene	0.2000	U	ug/L
Indeno(1,2,3-cd)pyrene	1.4000		ug/L
Methyl tert-butyl ether	1.0000	U	ug/L
Naphthalene	1.0000	U	ug/L
Naphthalene	11.0000		ug/L
Phenanthrene	1.0000	U	ug/L
Phenanthrene	1.7000		ug/L
Pyrene	0.2000	U	ug/L
Pyrene	1.6000		ug/L
Terphenyl-d14	87.0000		PERCENT
Terphenyl-d14	89.0000		PERCENT
Toluene	1.0000	U	ug/L
Toluene	17.0000		ug/L
Toluene	18.0000		ug/L
Trifluorotoluene	105.0000		PERCENT
Trifluorotoluene	89.0000		PERCENT
Trifluorotoluene	99.0000		PERCENT
Xylenes (total)	1.0000	U	ug/L

19G03700D -- 12/10/96

1,2-Dichlorobenzene	1.0000	U	ug/L
1,3-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobenzene	1.0000	U	ug/L
1-Methylnaphthalene	1.0000	U	ug/L
2-Methylnaphthalene	1.0000	U	ug/L
Acenaphthene	1.0000	U	ug/L
Acenaphthylene	1.0000	U	ug/L
Anthracene	1.0000	U	ug/L
Benzene	1.0000	U	ug/L
Benzo(a)anthracene	0.2000	U	ug/L

Benzo(a)pyrene	0.2000	U	ug/L
Benzo(b)fluoranthene	0.2000	U	ug/L
Benzo(e)pyrene	122.0000		PERCENT
Benzo(ghi)perylene	0.2000	U	ug/L
Benzo(k)fluoranthene	0.2000	U	ug/L
Chlorobenzene	1.0000	U	ug/L
Chrysene	0.2000	U	ug/L
Dibenz(a,h)anthracene	0.2000	U	ug/L
Ethylbenzene	1.0000	U	ug/L
Fluoranthene	0.2000	U	ug/L
Fluorene	1.0000	U	ug/L
Indeno(1,2,3-cd)pyrene	0.2000	U	ug/L
Methyl tert-butyl ether	1.0000	U	ug/L
Naphthalene	1.0000	U	ug/L
Phenanthrene	1.0000	U	ug/L
Pyrene	0.2000	U	ug/L
Terphenyl-d14	91.0000		PERCENT
Toluene	1.0000	U	ug/L
Trifluorotoluene	105.0000		PERCENT
Xylenes (total)	1.0000	U	ug/L

19G03800 -- 12/10/96

1,2-Dichlorobenzene	1.0000	U	ug/L
1,3-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobenzene	2.1000	**	ug/L
1-Methylnaphthalene	7.6000		ug/L
2-Methylnaphthalene	8.3000		ug/L
Acenaphthene	1.0000	U	ug/L
Acenaphthylene	1.0000	U	ug/L
Anthracene	1.0000	U	ug/L
Benzene	1.0000	U	ug/L
Benzo(a)anthracene	0.2000	U	ug/L
Benzo(a)pyrene	0.2000	U	ug/L
Benzo(b)fluoranthene	0.2100	PD	ug/L
Benzo(e)pyrene	94.0000		PERCENT
Benzo(ghi)perylene	0.2000	U	ug/L
Benzo(k)fluoranthene	0.2000	U	ug/L
Chlorobenzene	1.9000	**	ug/L
Chrysene	0.2000	U	ug/L
Dibenz(a,h)anthracene	0.2000	U	ug/L
Ethylbenzene	1.0000	U	ug/L
Fluoranthene	0.2000	U	ug/L
Fluorene	1.0000	U	ug/L
Indeno(1,2,3-cd)pyrene	0.2000	U	ug/L
Methyl tert-butyl ether	1.0000	U	ug/L
Naphthalene	1.0000	U	ug/L
Phenanthrene	1.0000	U	ug/L
Pyrene	0.2000	U	ug/L
Terphenyl-d14	79.0000		PERCENT
Toluene	2.8000	**	ug/L
Trifluorotoluene	157.0000	*	PERCENT
Xylenes (total)	1.0000	U	ug/L

19G0TB00 -- 12/10/96

1,1,1-Trichloroethane	1.0000	U	ug/L
1,1,2,2-Tetrachloroethane	1.0000	U	ug/L
1,1,2-Trichloroethane	1.0000	U	ug/L
1,1-Dichloroethane	1.0000	U	ug/L
1,1-Dichloroethene	1.0000	U	ug/L
1,2-Dichlorobenzene	1.0000	U	ug/L
1,2-Dichloroethane	1.0000	U	ug/L
1,2-Dichloropropane	1.0000	U	ug/L
1,3-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobenzene	1.0000	U	ug/L
1,4-Dichlorobutane	96.0000		PERCENT
2-Chloroethyl vinyl ether	0.0000	U	ug/L
Benzene	1.0000	U	ug/L
Bromodichloromethane	1.0000	U	ug/L
Bromoform	1.0000	U	ug/L
Bromomethane	1.0000	U	ug/L
Carbon tetrachloride	1.0000	U	ug/L
Chlorobenzene	1.0000	U	ug/L
Chloroethane	1.0000	U	ug/L
Chloroform	1.0000	U	ug/L
Chloromethane	1.0000	U	ug/L
Dibromochloromethane	1.0000	U	ug/L
Dichlorodifluoromethane	1.0000	U	ug/L
Ethylbenzene	1.0000	U	ug/L
Methyl tert-butyl ether	1.0000	U	ug/L
Methylene chloride	5.0000	U	ug/L
Tetrachloroethene	1.0000	U	ug/L
Toluene	1.0000	U	ug/L
Trichloroethene	1.0000	U	ug/L
Trichlorofluoromethane	1.0000	U	ug/L
Trifluorotoluene	107.0000		PERCENT
Vinyl chloride	1.0000	U	ug/L
Xylenes (total)	1.0000	U	ug/L
cis-1,3-Dichloropropene	1.0000	U	ug/L
trans-1,2-Dichloroethene	1.0000	U	ug/L
trans-1,3-Dichloropropene	1.0000	U	ug/L

ABB

08566.014

April 25, 1997

Southern Division
Naval Facilities Engineering Command
ATTN: Mr. Bryan Kizer
P.O. Box 10068
2155 Eagle Drive
North Charleston, SC 29418

SUBJECT: Third Quarter Monitoring Letter Report, Site 119, Naval Air Station (NAS) Jacksonville, Jacksonville, Florida.

The third quarter groundwater samples were collected at Site 119 in March 1997 and shipped to Quanterra Labs in North Canton, Ohio, for analysis. Groundwater samples were collected from 11 monitoring wells at the site. Groundwater samples were also collected using a TerraProbe℠ at three locations where monitoring wells MW-32, MW-33, and MW-35 had been destroyed by construction activities at Area B prior to sampling. Monitoring wells and TerraProbe℠ sampling locations are shown on Figure 1, Appendix A. Samples were not collected from monitoring wells in Areas D and F because remedial action (soil excavation) is planned for those areas. The following is a summary of the monitoring wells and TerraProbe℠ locations sampled and the status of each area.

Area A: MW-20 and MW-23 were sampled for U.S. Environmental Protection Agency (USEPA) Methods 602 and 610.

Area B: MW-34 was sampled for USEPA Methods 601, 602, and 610. Groundwater samples were collected using the TerraProbe℠ at the former locations of monitoring wells MW-32, MW-33, and MW-35 for USEPA Methods 601, 602, and 610.

Area C: MW-25, MW-36, MW-37, and MW-38 were sampled for USEPA Methods 602 and 610.

Area D: No groundwater samples were collected. A limited-scope remedial action plan (RAP) is being prepared for Area D.

Area E: MW-01 and MW-17 were sampled for USEPA Method 602.

Area F: No groundwater samples were collected. A limited-scope RAP is being prepared for Area F.

Area G: MW-07 and MW-09 were sampled for USEPA Methods 601 and 602.

Table 1, Appendix A, is a summary of the first, second, and third quarter analytical results and previous groundwater analytical data. September and October 1995 data show contaminant concentrations from monitoring wells sampled during the contamination assessment. February 1996 data are samples from wells that were overdeveloped as part of an alternate procedure to reduce contaminant concentrations below State No Further Action (NFA) and Monitoring Only (MO) target levels. The data are presented together to show changes in contaminant concentrations in these wells over time. Analytical results for each well sampled during the third quarter are attached in Appendix B, Third Quarter Groundwater Analytical Results, March 1997.

The following summary discusses the analytical results of each area and presents recommendations for further action where needed.

Area A: Results: Contaminant concentrations in groundwater samples from monitoring well MW-23 were below the analytical method detection limits. Fluoranthene and pyrene (nonnaphthalene polynuclear aromatic hydrocarbons [PAHs]) were detected in concentrations below Florida Department of Environmental Protection (FDEP) target levels in MW-20. The concentration of nonnaphthalene PAHs decreased in MW-20 in the third quarter.

Recommendation: Continue monitoring program per Chapter 62-770, Florida Administrative Code (FAC). If fourth quarter sampling results are similar to previous results, NFA will be recommended for Area A.

Area B: Results: Contaminant concentrations in groundwater samples from monitoring well MW-34 and TerraProbe℠ locations MW-32 and MW-35 were below the analytical method detection limits. A very low concentration of methylene chloride (1.2 parts per billion [ppb]) detected in MW-35 is believed to be due to laboratory contamination. Concentrations of benzene, toluene, ethylbenzene, xylenes (BTEX), total naphthalenes, and total nonnaphthalene PAHs in the groundwater sample from TerraProbe℠ location MW-33 were slightly higher overall than when previously sampled. Only benzene in TerraProbe℠ sample MW-33 (1.8 ppb) slightly exceeded the FDEP target level of 1 ppb.

Recommendation: Continue monitoring program per Chapter 62-770, FAC. Monitoring wells MW-32, MW-33, and MW-35 were replaced April 16, 1997. If fourth quarter sampling results are similar to previous results, NFA will be recommended for Area B.

Area C: Results: Contaminant concentrations in groundwater samples from monitoring wells MW-25, MW-36, and MW-37 were below the analytical method detection limits. BTEX compounds previously detected in the second quarter groundwater sample from MW-36 were not detected in the third quarter.

Benzene and total naphthalene concentrations in MW-38 decreased again in the third quarter; however, nonnaphthalene PAH concentrations increased slightly above the State target level. Total naphthalenes concentrations in MW-38 remained below State NFA and MO target levels.

Recommendation: Continue monitoring program per Chapter 62-770, FAC. If fourth quarter sampling results are similar to previous results, NFA will be recommended for Area C.

Area D: A limited-scope RAP was prepared to remediate contaminated soil in Areas D and F and groundwater in Area G. Additional groundwater sampling using direct-push technology (DPT) was recommended to better estimate the area of groundwater affected by overlying soil contamination in Areas D and F. The DPT groundwater sampling results are expected to reduce the volume of contaminated soil recommended for remediation in the limited-scope RAP.

Area E: Results: Ethylbenzene, which was detected in MW-01 during the first quarterly sampling, was not detected in the second or third quarter. Additionally, chlorobenzene, toluene, and 1,4-dichlorobenzene, which were detected in very low concentrations during the second quarterly sampling, were not detected in the third quarter. Contaminant concentrations in groundwater samples from monitoring well MW-17 were also below the analytical method detection limits.

Recommendation: Continue monitoring program per Chapter 62-770, FAC. If fourth quarter sampling results are similar to previous results, NFA will be recommended for Area E.

Area F: A limited-scope RAP was prepared to remediate contaminated soil in Areas D and F and groundwater in Area G. Additional groundwater sampling using DPT was recommended to better estimate the area of groundwater affected by overlying soil contamination in Area F. The DPT groundwater sampling results are expected to reduce the volume of contaminated soil recommended for remediation in the limited-scope RAP.

Area G: Results: Contaminant concentrations in groundwater samples from monitoring well MW-07 were below the analytical method detection limits. The concentration of 1,2-dichlorobenzene and 1,4-dichlorobenzene in the samples from MW-09 increased slightly above method detection limits, but remained well below FDEP target levels. Chlorobenzene concentrations have increased from 200 ppb in the second quarter to 390 ppb in the third quarter. The State target level for chlorobenzene is 100 ppb.

Recommendation: Continue MO program at MW-07 per Chapter 62-770, FAC. A 72-hour overdevelopment of MW-09 was recommended in the limited-scope RAP to address contaminated groundwater in the vicinity of MW-09. Overdevelopment is scheduled to be performed May 20 through May 22, 1997. Postoverdevelopment groundwater sampling of MW-09 is scheduled to be performed on or about June 5, 1997.

In accordance with Chapter 62-770, FAC, ABB Environmental Services, Inc., plans to conduct the fourth quarter groundwater sampling at NAS Jacksonville Tank Site 119 in June 1997. Groundwater samples will be collected from 14 monitoring wells, including MW-32, MW-33, and MW-35, which were replaced in April 1997. Please contact me if you have any questions or comments.

Sincerely,

ABB ENVIRONMENTAL SERVICES, INC.

FOR: Phylissa Miller
Project Manager

Jim Williams, P.G.
Principal Scientist

Attachments

cc: Lt. Beth Melendez (Naval Air Station Jacksonville)
file

JAX3Q119.LTR
PMW.04.97

PROFESSIONAL REVIEW CERTIFICATION

This report was prepared under the direct supervision of a professional geologist registered in the State of Florida. The work and professional opinions rendered in this report were conducted or developed in accordance with commonly accepted procedures consistent with applicable standards of practice. This assessment is based on the geologic investigation and associated information detailed in the text and appended to this report or referenced in public literature. Recommendations are based upon interpretations of the applicable regulatory requirements, guidelines, and relevant issues discussed with regulatory personnel during the site assessment. If conditions that differ from those described are determined to exist, the undersigned geologist should be notified to evaluate the effects of any additional information on this assessment or the recommendations made in this report. This report was developed for Site 119, NAS Jacksonville, Jacksonville, Florida, and should not be construed to apply to any other site.

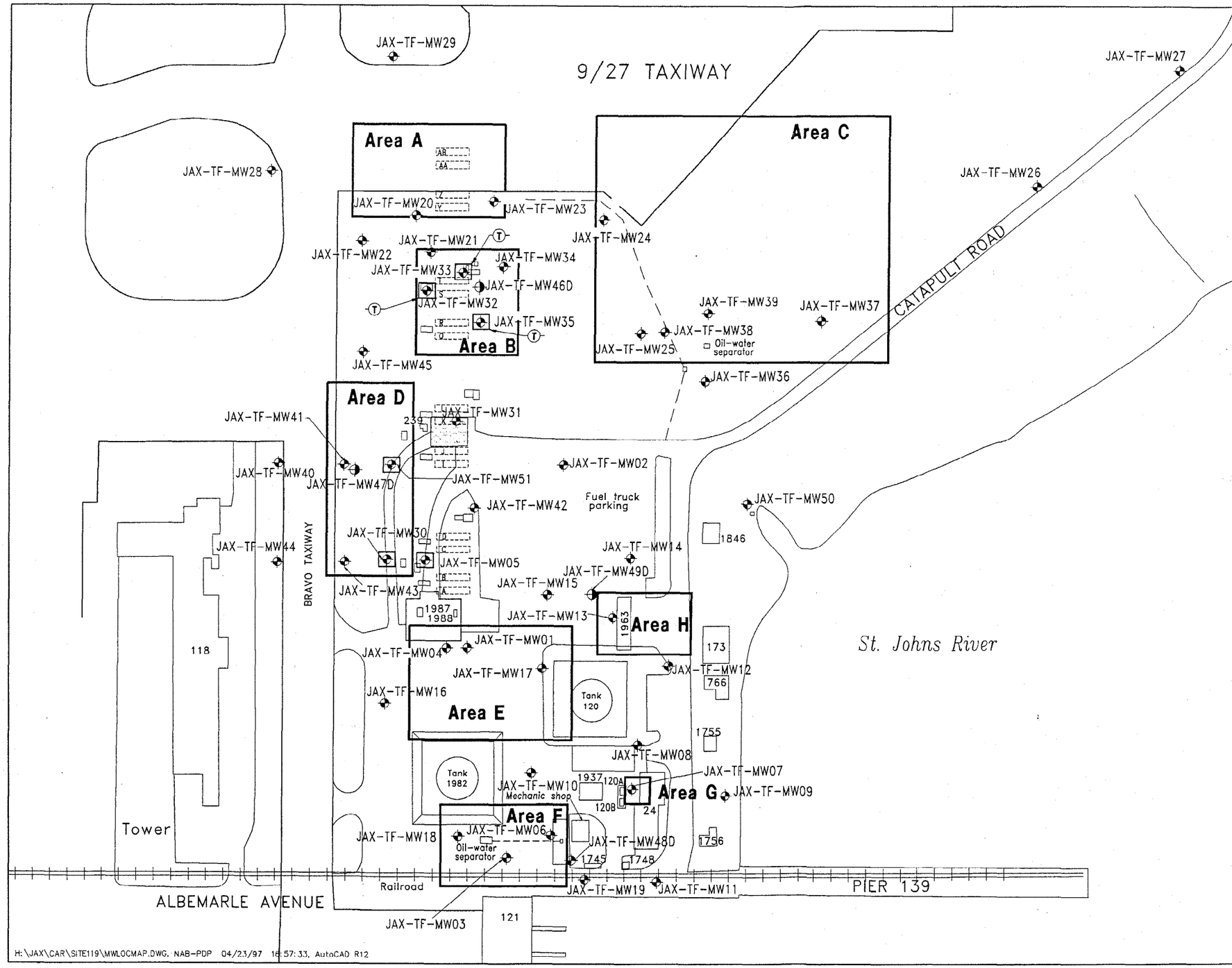
Michael J. Williams
Professional Geologist
P.G. No. 344

4/25/97
Date

ATTACHMENT A

FIGURE

TABLE



N

LEGEND

JAX-TF-MW01	Monitoring well location with designation
JAX-TF-MW48D	Deep monitoring well location with designation
JAX-TF-MW05	Damaged or destroyed monitoring well location with designation
T	TerraProbe[SM] sampling location
Area A	Areas with excessively contaminated soil
NAS	Naval Air Station

0 75 150
SCALE: 1 INCH = 150 FEET

FIGURE 1
MONITORING WELL AND TERRAPROBE [SM] SAMPLING LOCATIONS

THIRD QUARTER MONITORING LETTER REPORT, SITE 119

NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

01083C147

Table 1
Summary of Groundwater Sample Analytical Results

Third Quarter Monitoring Letter Report, Site 119
Naval Air Station Jacksonville
Jacksonville, Florida

Compound Detected	Area A								State Target Level
	MW-20 19G02000				MW-23 19G02300				
	10/2/95	9/27/96	12/10/96	3/8/97	9/26/95	9/27/96	12/10/96	3/8/97	
Volatile Organic Compounds (USEPA Methods 601/602 or 624), ppb									
1,2-Dichloropropane	ND	NS	NS	NS	ND	ND	NS	NS	5
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	NR	ND	600
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	NR	ND	75
Chlorobenzene	ND	ND	ND	ND	ND	ND	NR	ND	100
Methylene chloride	ND	NS	NS	NS	ND	NS	NS	NS	5
Vinyl chloride	ND	NS	NS	NS	ND	NS	NS	NS	1
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	1
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	NA
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	NA
Total xylenes	ND	ND	ND	ND	ND	ND	ND	ND	NA
Total BTEX	ND	ND	ND	ND	ND	ND	ND	ND	50
Polynuclear Aromatic Hydrocarbons (PAHs) (USEPA Methods 610 or 625), ppb									
Total Naphthalenes	ND	ND	ND	ND	ND	ND	ND	ND	100
Total PAHs (excluding naphthalenes)	ND	3.02	0.63	0.47	ND	ND	ND	ND	10 or DL

See notes at end of table.

Table 1 (Continued)
Summary of Groundwater Sample Analytical Results

Third Quarter Monitoring Letter Report, Site 119
Naval Air Station Jacksonville
Jacksonville, Florida

Compound Detected	Area B													State Target Level
	[1]MW-33 19G03300					MW-32 19G03200				MW-34 19G03400				
	10/2/95	2/1/96	[2]9/27/96	12/9/96	3/8/97	9/26/95	[2]9/27/96	12/9/96	3/8/97	9/26/95	9/27/96	12/10/96	3/9/97	
Volatile Organic Compounds (USEPA Methods 601/602 or 624), ppb														
1,2-Dichloropropane	ND	NS	NS	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	5
1,2-Dichlorobenzene	ND	NS	NS	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	600
1,4-Dichlorobenzene	ND	NS	NS	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	75
Chlorobenzene	ND	NS	NS	ND	1.3	ND	NS	ND	ND	ND	ND	ND	ND	100
Methylene chloride	ND	NS	NS	ND	1.6	ND	NS	ND	ND	ND	ND	ND	ND	5
Vinyl chloride	ND	NS	NS	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	1
Benzene	[3]20	[3]3.8	NS	[3]2.3	[3]1.8	ND	NS	ND	ND	ND	ND	ND	ND	1
Toluene	3.3	ND	NS	2.6	ND	ND	NS	ND	ND	ND	ND	ND	ND	NA
Ethylbenzene	46	6.7	NS	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	NA
Total xylenes	530	165	NS	1.2	[4]5.2	ND	NS	ND	ND	ND	ND	ND	ND	NA
Total BTEX	[3]599.3	[3]175.5	NS	6.1	[4]7.0	ND	NS	ND	ND	ND	ND	ND	ND	50
PAHs (USEPA Methods 610 or 625), ppb														
Total Naphthalenes	[3]213	[3]328	NS	13	[4]54.3	ND	NS	ND	ND	ND	ND	ND	ND	100
Total PAHs (excluding naphthalenes)	[3]28.2	[3]45	NS	9.9	[3,4]15.1	ND	NS	ND	ND	ND	ND	ND	ND	10 or DL

See notes at end of table.

Table 1 (Continued)
Summary of Groundwater Sample Analytical Results

Third Quarter Monitoring Letter Report, Site 119
Naval Air Station Jacksonville
Jacksonville, Florida

Compound Detected	Area B				Area C								State Target Level
	MW-35 19G03500				[1]MW-38 19G03800				MW-25 19G02500				
	9/26/95	[2]9/27/96	12/9/96	3/8/97	10/2/95	9/26/96	12/10/96	3/9/97	9/25/95	9/26/96	12/10/96	3/9/97	
Volatile Organic Compounds (USEPA Methods 601/602 or 624), ppb													
1,2-Dichloropropane	ND	NS	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS	5
1,2-Dichlorobenzene	ND	NS	ND	ND	ND	[4]1.8	ND	ND	ND	ND	ND	ND	600
1,4-Dichlorobenzene	ND	NS	ND	ND	ND	[4]1.1	ND	ND	ND	ND	ND	ND	75
Chlorobenzene	ND	NS	ND	ND	ND	[4]2.0	ND	ND	ND	ND	ND	ND	100
Methylene chloride	ND	NS	ND	[4]1.2	ND	NS	NS	NS	ND	NS	NS	NS	5
Vinyl chloride	ND	NS	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS	1
MTBE	ND	NS	ND	ND	ND	ND	ND	[4]1.1	ND	ND	ND	ND	50
Benzene	ND	NS	ND	ND	[3]1.8	[3]1.1	ND	ND	ND	ND	ND	ND	1
Toluene	ND	NS	ND	ND	ND	ND	[4]2.8	ND	ND	ND	ND	ND	NA
Ethylbenzene	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Total xylenes	ND	NS	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	NA
Total BTEX	ND	NS	ND	ND	3.2	1.1	[4]2.8	ND	ND	ND	ND	ND	50
PAHs (USEPA Methods 610 or 625), ppb													
Total Naphthalenes	ND	NS	ND	ND	13.4	[4]29	15.9	4.7	ND	ND	ND	ND	100
Total PAHs (excluding naphthalenes)	ND	NS	ND	ND	ND	ND	[4]0.21	[3,4]15.0	ND	ND	ND	ND	10 or DL

See notes at end of table.

Table 1 (Continued)
Summary of Groundwater Sample Analytical Results

Third Quarter Monitoring Letter Report, Site 119
Naval Air Station Jacksonville
Jacksonville, Florida

Compound Detected	Area C									State Target Level
	MW-36 19G03600					MW-37 19G03700				
	10/2/95	2/1/96	9/26/96	12/11/96	3/9/97	9/25/95	9/26/96	12/10/96	3/9/97	
Volatile Organic Compounds (USEPA Methods 601/602 or 624), ppb										
1,2-Dichloropropane	ND	NS	NS	NS	NS	ND	NS	NS	NS	5
1,2-Dichlorobenzene	ND	NS	ND	ND	ND	ND	ND	ND	ND	600
1,4-Dichlorobenzene	ND	NS	ND	ND	ND	ND	ND	ND	ND	75
Chlorobenzene	ND	NS	ND	ND	ND	ND	ND	ND	ND	100
Methylene chloride	ND	NS	NS	NS	NS	ND	NS	NS	NS	5
Vinyl chloride	ND	NS	NS	NS	NS	ND	NS	NS	NS	1
MTBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
Benzene	ND	NS	ND	[3,4]1.1	ND	ND	ND	ND	ND	1
Toluene	ND	NS	ND	[4]1.1	ND	ND	ND	ND	ND	NA
Ethylbenzene	ND	NS	ND	[4]1.1	ND	ND	ND	ND	ND	NA
Total xylenes	ND	NS	ND	[4]5.5	ND	ND	ND	ND	ND	NA
Total BTEX	ND	NS	ND	[4]8.8	ND	ND	ND	ND	ND	50
PAHs (USEPA Methods 610 or 625), ppb										
Total Naphthalenes	ND	NS	ND	ND	4.7	ND	ND	ND	ND	100
Total PAHs (excluding naphthalenes)	ND	NS	ND	ND	[3,4]15.0	ND	ND	ND	ND	10 or DL

See notes at end of table.

Table 1 (Continued)
Summary of Groundwater Sample Analytical Results

Third Quarter Monitoring Letter Report, Site 119
Naval Air Station Jacksonville
Jacksonville, Florida

Compound Detected	Area E									State Target Level
	[1]MW-01 19G00100					MW-17 19G01700				
	10/4/95	2/1/96	9/27/96	12/11/96	3/9/97	10/2/95	9/27/96	12/11/96	3/10/97	
Volatile Organic Compounds (USEPA Methods 601/602 or 624), ppb										
1,2-Dichloropropane	NS	NS	NS	NS	NS	ND	NS	NS	NS	5
1,2-Dichlorobenzene	ND	NS	ND	ND	ND	ND	ND	ND	ND	600
1,4-Dichlorobenzene	ND	NS	ND	[4]1.4	ND	ND	ND	ND	ND	75
Chlorobenzene	ND	NS	ND	[4]1.1	ND	ND	ND	ND	ND	100
Methylene chloride	NS	NS	NS	NS	NS	ND	NS	NS	NS	5
Vinyl chloride	NS	NS	NS	NS	NS	ND	NS	NS	NS	1
Benzene	[3]36	ND	ND	ND	ND	ND	NS	NS	NS	1
Toluene	ND	ND	ND	[4]2.0	ND	ND	ND	ND	ND	NA
Ethylbenzene	ND	ND	[4]1.1	ND	ND	ND	ND	ND	ND	NA
Total xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Total BTEX	36	ND	[4]1.1	[4]2.0	ND	ND	ND	ND	ND	50
PAHs (USEPA Methods 610 or 625), ppb										
Total Naphthalenes	ND	NS	NS	NS	NS	ND	NS	NS	NS	100
Total PAHs (excluding naphthalenes)	ND	NS	NS	NS	NS	ND	NS	NS	NS	10 or DL

See notes at end of table.

Table 1 (Continued)
Summary of Groundwater Sample Analytical Results

Third Quarter Monitoring Letter Report, Site 119
Naval Air Station Jacksonville
Jacksonville, Florida

Compound Detected	Area G								State Target Level
	[1]MW-07 19G00700				MW-09 19G00900				
	10/3/95	9/26/96	12/11/96	3/9/97	9/27/95	9/26/96	12/11/96	3/9/97	
Volatile Organic Compounds (USEPA Methods 601/602 or 624), ppb									
1,2-Dichloropropane	2.4	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	2.0	600
1,4-Dichlorobenzene	ND	ND	ND	ND	2.5	2.0	ND	3.9	75
Chlorobenzene	ND	ND	ND	ND	[3]160	35	[3,4]200	390	100
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	5
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	1
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	1
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	NA
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	NA
Total xylenes	ND	ND	ND	ND	ND	ND	ND	ND	NA
Total BTEX	ND	ND	ND	ND	ND	ND	ND	ND	50
PAHs (USEPA Methods 610 or 625), ppb									
Total Naphthalenes	ND	NS	NS	NS	ND	NS	NS	NS	100
Total PAHs (excluding naphthalenes)	ND	NS	NS	NS	ND	NS	NS	NS	10 or DL

[1] Source area monitoring well.
[2] Well damaged or destroyed.
[3] Concentration exceeds State target level.
[4] Concentration greater than when sampled previously.

Notes:
USEPA = U.S. Environmental Protection Agency.
ppb = parts per billion.
ND = not detected.
NS = not sampled.
NR = not reported.
NA = not applicable.
MTBE = Methyl tert-butyl ether.
BTEX = benzene, toluene, ethylbenzene, and xylenes.
DL = detection limit.

APPENDIX B

THIRD QUARTER GROUNDWATER ANALYTICAL RESULTS, MARCH 1997

PORT: Site 119

A7C130134001 03/08/97 19G03300 :

1,1,1-Trichloroethane	1.0	U	ug/L
1,1,2,2-Tetrachloroethane	1.0	U	ug/L
1,1,2-Trichloroethane	1.0	U	ug/L
1,1-Dichloroethane	1.0	U	ug/L
1,1-Dichloroethene	1.0	U	ug/L
1,2-Dichlorobenzene	1.0	U	ug/L
1,2-Dichlorobenzene	1.0	U	ug/L
1,2-Dichloroethane	1.0	U	ug/L
1,2-Dichloropropane	1.0	U	ug/L
1,3-Dichlorobenzene	1.0	U	ug/L
1,3-Dichlorobenzene	1.0	U	ug/L
1,4-Dichlorobenzene	1.0	U	ug/L
1,4-Dichlorobenzene	1.0	U	ug/L
1-Methylnaphthalene	2.6	V	ug/L
2-Methylnaphthalene	1.7	V	ug/L
Acenaphthene	5.6	V	ug/L
Acenaphthylene	1.1	V U	ug/L
Anthracene	1.1	V U	ug/L
Benzene	1.8	**	ug/L
Benzo(a)anthracene	0.20	U	ug/L
Benzo(a)pyrene	0.20	U	ug/L
Benzo(b)fluoranthene	0.21	P	ug/L
Benzo(ghi)perylene	0.20	U	ug/L
Benzo(k)fluoranthene	0.20	U	ug/L
Bromodichloromethane	1.0	U	ug/L
Bromoform	1.0	U	ug/L
Bromomethane	1.0	U	ug/L
Carbon tetrachloride	1.0	U	ug/L
Chlorobenzene	1.3		ug/L
Chlorobenzene	1.2	**	ug/L
Chloroethane	1.0	U	ug/L
Chloroform	1.0	U	ug/L
Chloromethane	1.6		ug/L
Chrysene	0.20	U	ug/L
Dibenz(a,h)anthracene	0.20	U	ug/L
Dibromochloromethane	1.0	U	ug/L
Dichlorodifluoromethane	1.0	U	ug/L
Ethylbenzene	1.0	U	ug/L
Fluoranthene	0.93		ug/L
Fluorene	3.0	V	ug/L
Indeno(1,2,3-cd)pyrene	0.20	U	ug/L

V = Elevated reporting limit. The reporting limit is elevated due to limited sample volume.

** = Suspect due to hydrocarbon interference.

P = The percent difference between the original and confirmation analysis is greater than 25%.

Methyl tert-butyl ether	1.0	U	ug/L
Methylene chloride	5.0	U	ug/L
Naphthalene	50	V	ug/L
Phenanthrene	4.8	V	ug/L
Pyrene	0.56	P	ug/L
Tetrachloroethene	1.0	U	ug/L
Toluene	1.0	U	ug/L
Trichloroethene	1.0	U	ug/L
Trichlorofluoromethane	1.0	U	ug/L
Vinyl chloride	1.0	U	ug/L
Xylenes (total)	5.2	**	ug/L
cis-1,3-Dichloropropene	1.0	U	ug/L
trans-1,2-Dichloroethene	1.0	U	ug/L
trans-1,3-Dichloropropene	1.0	U	ug/L

A7C130134002 03/08/97 19G03200 :

1,1,1-Trichloroethane	1.0	U	ug/L
1,1,2,2-Tetrachloroethane	1.0	U	ug/L
1,1,2-Trichloroethane	1.0	U	ug/L
1,1-Dichloroethane	1.0	U	ug/L
1,1-Dichloroethene	1.0	U	ug/L
1,2-Dichlorobenzene	1.0	U	ug/L
1,2-Dichlorobenzene	1.0	U	ug/L
1,2-Dichloroethane	1.0	U	ug/L
1,2-Dichloropropane	1.0	U	ug/L
1,3-Dichlorobenzene	1.0	U	ug/L
1,3-Dichlorobenzene	1.0	U	ug/L
1,4-Dichlorobenzene	1.0	U	ug/L
1,4-Dichlorobenzene	1.0	U	ug/L
1-Methylnaphthalene	1.0	U	ug/L
2-Methylnaphthalene	1.0	U	ug/L
Acenaphthene	1.0	U	ug/L
Acenaphthylene	1.0	U	ug/L
Anthracene	1.0	U	ug/L
Benzene	1.0	U	ug/L
Benzo(a)anthracene	0.20	U	ug/L
Benzo(a)pyrene	0.20	U	ug/L
Benzo(b)fluoranthene	0.20	U	ug/L
Benzo(ghi)perylene	0.20	U	ug/L
Benzo(k)fluoranthene	0.20	U	ug/L
Bromodichloromethane	1.0	U	ug/L
Bromoform	1.0	U	ug/L
Bromomethane	1.0	U	ug/L
Carbon tetrachloride	1.0	U	ug/L
Chlorobenzene	1.0	U	ug/L

V = Elevated reporting limit. The reporting limit is elevated due to limited sample volume.

** = Suspect due to hydrocarbon interference.

P = The percent difference between the original and confirmation analysis is greater than 25%.

Chlorobenzene	1.0	U	ug/L
C[illegible]oroethane	1.0	U	ug/L
Chloroform	1.0	U	ug/L
Chloromethane	1.0	U	ug/L
Chrysene	0.20	U	ug/L
Dibenz(a,h)anthracene	0.20	U	ug/L
Dibromochloromethane	1.0	U	ug/L
Dichlorodifluoromethane	1.0	U	ug/L
Ethylbenzene	1.0	U	ug/L
Fluoranthene	0.20	U	ug/L
Fluorene	1.0	U	ug/L
Indeno(1,2,3-cd)pyrene	0.20	U	ug/L
Methyl tert-butyl ether	1.0	U	ug/L
Methylene chloride	5.0	U	ug/L
Naphthalene	1.0	U	ug/L
Phenanthrene	1.0	U	ug/L
Pyrene	0.20	U	ug/L
Tetrachloroethene	1.0	U	ug/L
Toluene	1.0	U	ug/L
Trichloroethene	1.0	U	ug/L
Trichlorofluoromethane	1.0	U	ug/L
Vinyl chloride	1.0	U	ug/L
Xylenes (total)	1.0	U	ug/L
cis-1,3-Dichloropropene	1.0	U	ug/L
trans-1,2-Dichloroethene	1.0	U	ug/L
trans-1,3-Dichloropropene	1.0	U	ug/L

C130134003 03/08/97 19G02000 :

1,2-Dichlorobenzene	1.0	U	ug/L
1,3-Dichlorobenzene	1.0	U	ug/L
1,4-Dichlorobenzene	1.0	U	ug/L
1-Methylnaphthalene	1.0	U	ug/L
2-Methylnaphthalene	1.0	U	ug/L
Acenaphthene	1.0	U	ug/L
Acenaphthylene	1.0	U	ug/L
Anthracene	1.0	U	ug/L
Benzene	1.0	U	ug/L
Benzo(a)anthracene	0.20	U	ug/L
Benzo(a)pyrene	0.20	U	ug/L
Benzo(b)fluoranthene	0.20	U	ug/L
Benzo(ghi)perylene	0.20	U	ug/L
Benzo(k)fluoranthene	0.20	U	ug/L
Chlorobenzene	1.0	U	ug/L
Chrysene	0.20	U	ug/L
Dibenz(a,h)anthracene	0.20	U	ug/L
Ethylbenzene	1.0	U	ug/L
Fluoranthene	0.23		ug/L
Fluorene	1.0	U	ug/L
Indeno(1,2,3-cd)pyrene	0.20	U	ug/L
Methyl tert-butyl ether	1.0	U	ug/L
Naphthalene	1.0	U	ug/L
Phenanthrene	1.0	U	ug/L
P[illegible]ene	0.24		ug/L
T[illegible]uene	1.0	U	ug/L

Xylenes (total)	1.0	U	ug/L

A7C130134004 03/08/97 19G02300 :

1,2-Dichlorobenzene	1.0	U	ug/L
1,3-Dichlorobenzene	1.0	U	ug/L
1,4-Dichlorobenzene	1.0	U	ug/L
1-Methylnaphthalene	1.0	U	ug/L
2-Methylnaphthalene	1.0	U	ug/L
Acenaphthene	1.0	U	ug/L
Acenaphthylene	1.0	U	ug/L
Anthracene	1.0	U	ug/L
Benzene	1.0	U	ug/L
Benzo(a)anthracene	0.20	U	ug/L
Benzo(a)pyrene	0.20	U	ug/L
Benzo(b)fluoranthene	0.20	U	ug/L
Benzo(ghi)perylene	0.20	U	ug/L
Benzo(k)fluoranthene	0.20	U	ug/L
Chlorobenzene	1.0	U	ug/L
Chrysene	0.20	U	ug/L
Dibenz(a,h)anthracene	0.20	U	ug/L
Ethylbenzene	1.0	U	ug/L
Fluoranthene	0.20	U	ug/L
Fluorene	1.0	U	ug/L
Indeno(1,2,3-cd)pyrene	0.20	U	ug/L
Methyl tert-butyl ether	1.0	U	ug/L
Naphthalene	1.0	U	ug/L
Phenanthrene	1.0	U	ug/L
Pyrene	0.20	U	ug/L
Toluene	1.0	U	ug/L
Xylenes (total)	1.0	U	ug/L

A7C130134005 03/08/97 19G03500 :

1,1,1-Trichloroethane	1.0	U	ug/L
1,1,2,2-Tetrachloroethane	1.0	U	ug/L
1,1,2-Trichloroethane	1.0	U	ug/L
1,1-Dichloroethane	1.0	U	ug/L
1,1-Dichloroethene	1.0	U	ug/L
1,2-Dichlorobenzene	1.0	U	ug/L
1,2-Dichlorobenzene	1.0	U	ug/L
1,2-Dichloroethane	1.0	U	ug/L
1,2-Dichloropropane	1.0	U	ug/L
1,3-Dichlorobenzene	1.0	U	ug/L
1,3-Dichlorobenzene	1.0	U	ug/L
1,4-Dichlorobenzene	1.0	U	ug/L
1,4-Dichlorobenzene	1.0	U	ug/L
1-Methylnaphthalene	1.2	V U	ug/L
2-Methylnaphthalene	1.2	V U	ug/L
Acenaphthene	1.2	V U	ug/L
Acenaphthylene	1.2	V U	ug/L
Anthracene	1.2	V U	ug/L
Benzene	1.0	U	ug/L
Benzo(a)anthracene	0.20	U	ug/L
Benzo(a)pyrene	0.20	U	ug/L
Benzo(b)fluoranthene	0.20	U	ug/L

Benzo(ghi)perylene	0.20	U	ug/L
Benzo(k)fluoranthene	0.20	U	ug/L
Bromodichloromethane	1.0	U	ug/L
Bromoform	1.0	U	ug/L
Bromomethane	1.0	U	ug/L
Carbon tetrachloride	1.0	U	ug/L
Chlorobenzene	1.0	U	ug/L
Chlorobenzene	1.0	U	ug/L
Chloroethane	1.0	U	ug/L
Chloroform	1.0	U	ug/L
Chloromethane	1.2		ug/L
Chrysene	0.20	U	ug/L
Dibenz(a,h)anthracene	0.20	U	ug/L
Dibromochloromethane	1.0	U	ug/L
Dichlorodifluoromethane	1.0	U	ug/L
Ethylbenzene	1.0	U	ug/L
Fluoranthene	0.20	U	ug/L
Fluorene	1.2	V U	ug/L
Indeno(1,2,3-cd)pyrene	0.20	U	ug/L
Methyl tert-butyl ether	1.0	U	ug/L
Methylene chloride	5.0	U	ug/L
Naphthalene	1.2	V U	ug/L
Phenanthrene	1.2	V U	ug/L
Pyrene	0.20	U	ug/L
Tetrachloroethene	1.0	U	ug/L
Toluene	1.0	U	ug/L
Trichloroethene	1.0	U	ug/L
Trichlorofluoromethane	1.0	U	ug/L
Vinyl chloride	1.0	U	ug/L
Xylenes (total)	1.0	U	ug/L
cis-1,3-Dichloropropene	1.0	U	ug/L
trans-1,2-Dichloroethene	1.0	U	ug/L
trans-1,3-Dichloropropene	1.0	U	ug/L

A7C130134006 03/09/97 19G03400 :

1,1,1-Trichloroethane	1.0	U	ug/L
1,1,2,2-Tetrachloroethane	1.0	U	ug/L
1,1,2-Trichloroethane	1.0	U	ug/L
1,1-Dichloroethane	1.0	U	ug/L
1,1-Dichloroethene	1.0	U	ug/L
1,2-Dichlorobenzene	1.0	U	ug/L
1,2-Dichlorobenzene	1.0	U	ug/L
1,2-Dichloroethane	1.0	U	ug/L
1,2-Dichloropropane	1.0	U	ug/L
1,3-Dichlorobenzene	1.0	U	ug/L
1,3-Dichlorobenzene	1.0	U	ug/L
1,4-Dichlorobenzene	1.0	U	ug/L
1,4-Dichlorobenzene	1.0	U	ug/L
1-Methylnaphthalene	1.0	U	ug/L
2-Methylnaphthalene	1.0	U	ug/L
Acenaphthene	1.0	U	ug/L
Acenaphthylene	1.0	U	ug/L
Anthracene	1.0	U	ug/L
Benzene	1.0	U	ug/L

Benzo(a)anthracene	0.20	U	ug/L
Benzo(a)pyrene	0.20	U	ug/L
Benzo(b)fluoranthene	0.20	U	ug/L
Benzo(ghi)perylene	0.20	U	ug/L
Benzo(k)fluoranthene	0.20	U	ug/L
Bromodichloromethane	1.0	U	ug/L
Bromoform	1.0	U	ug/L
Bromomethane	1.0	U	ug/L
Carbon tetrachloride	1.0	U	ug/L
Chlorobenzene	1.0	U	ug/L
Chlorobenzene	1.0	U	ug/L
Chloroethane	1.0	U	ug/L
Chloroform	1.0	U	ug/L
Chloromethane	1.0	U	ug/L
Chrysene	0.20	U	ug/L
Dibenz(a,h)anthracene	0.20	U	ug/L
Dibromochloromethane	1.0	U	ug/L
Dichlorodifluoromethane	1.0	U	ug/L
Ethylbenzene	1.0	U	ug/L
Fluoranthene	0.20	U	ug/L
Fluorene	1.0	U	ug/L
Indeno(1,2,3-cd)pyrene	0.20	U	ug/L
Methyl tert-butyl ether	1.0	U	ug/L
Methylene chloride	5.0	U	ug/L
Naphthalene	1.0	U	ug/L
Phenanthrene	1.0	U	ug/L
Pyrene	0.20	U	ug/L
Tetrachloroethene	1.0	U	ug/L
Toluene	1.0	U	ug/L
Trichloroethene	1.0	U	ug/L
Trichlorofluoromethane	1.0	U	ug/L
Vinyl chloride	1.0	U	ug/L
Xylenes (total)	1.0	U	ug/L
cis-1,3-Dichloropropene	1.0	U	ug/L
trans-1,2-Dichloroethene	1.0	U	ug/L
trans-1,3-Dichloropropene	1.0	U	ug/L

A7C130134006S 03/09/97 19G03400 :

1,1,1-Trichloroethane	17	U	ug/L
1,1,2,2-Tetrachloroethane	15	U	ug/L
1,1,2-Trichloroethane	16	U	ug/L
1,1-Dichloroethane	17	U	ug/L
1,1-Dichloroethene	24	U	ug/L
1,2-Dichlorobenzene	17	U	ug/L
1,2-Dichloroethane	17	U	ug/L
1,2-Dichloropropane	14	U	ug/L
1,3-Dichlorobenzene	16	U	ug/L
1,4-Dichlorobenzene	16	U	ug/L
2-Chloroethyl vinyl ether	0.0	a	ug/L
Benzene	16	U	ug/L
Bromodichloromethane	15	U	ug/L

a = Reporting limit not shown on lab report.

Bromoform	15	U	ug/L
Bromomethane	33	U	ug/L
Carbon tetrachloride	18	U	ug/L
Chlorobenzene	16	U	ug/L
Chloroethane	18	U	ug/L
Chloroform	15	U	ug/L
Chloromethane	18	U	ug/L
Dibromochloromethane	15	U	ug/L
Ethylbenzene	16	U	ug/L
Methylene chloride	19	U	ug/L
Tetrachloroethene	17	U	ug/L
Toluene	16	U	ug/L
Trichloroethene	17	U	ug/L
Trichlorofluoromethane	18	U	ug/L
Vinyl chloride	19	U	ug/L
cis-1,3-Dichloropropene	16	U	ug/L
trans-1,2-Dichloroethene	20	U	ug/L
trans-1,3-Dichloropropene	16	U	ug/L

A7C130134007 03/09/97 19G02500 :

1,2-Dichlorobenzene	1.0	U	ug/L
1,3-Dichlorobenzene	1.0	U	ug/L
1,4-Dichlorobenzene	1.0	U	ug/L
1-Methylnaphthalene	1.1	V U	ug/L
2-Methylnaphthalene	1.1	V U	ug/L
Acenaphthene	1.1	V U	ug/L
Acenaphthylene	1.1	V U	ug/L
Anthracene	1.1	V U	ug/L
Benzene	1.0	U	ug/L
Benzo(a)anthracene	0.20	U	ug/L
Benzo(a)pyrene	0.20	U	ug/L
Benzo(b)fluoranthene	0.20	U	ug/L
Benzo(ghi)perylene	0.20	U	ug/L
Benzo(k)fluoranthene	0.20	U	ug/L
Chlorobenzene	1.0	U	ug/L
Chrysene	0.20	U	ug/L
Dibenz(a,h)anthracene	0.20	U	ug/L
Ethylbenzene	1.0	U	ug/L
Fluoranthene	0.20	U	ug/L
Fluorene	1.1	V U	ug/L
Indeno(1,2,3-cd)pyrene	0.20	U	ug/L
Methyl tert-butyl ether	1.0	U	ug/L
Naphthalene	1.1	V U	ug/L
Phenanthrene	1.1	V U	ug/L
Pyrene	0.20	U	ug/L
Toluene	1.0	U	ug/L
Xylenes (total)	1.0	U	ug/L

A7C130134008 03/09/97 19G03800 :

1,2-Dichlorobenzene	1.0	U	ug/L
1,3-Dichlorobenzene	1.0	U	ug/L
1,4-Dichlorobenzene	1.0	U	ug/L
1-Methylnaphthalene	1.1	V U	ug/L
2-Methylnaphthalene	4.7	V	ug/L

Acenaphthene	15	V	ug/L
Acenaphthylene	1.1	V U	ug/L
Anthracene	1.1	V U	ug/L
Benzene	1.0	U	ug/L
Benzo(a)anthracene	0.20	U	ug/L
Benzo(a)pyrene	0.20	U	ug/L
Benzo(b)fluoranthene	0.20	U	ug/L
Benzo(ghi)perylene	0.20	U	ug/L
Benzo(k)fluoranthene	0.20	U	ug/L
Chlorobenzene	1.0	U	ug/L
Chrysene	0.20	U	ug/L
Dibenz(a,h)anthracene	0.20	U	ug/L
Ethylbenzene	1.0	U	ug/L
Fluoranthene	0.20	U	ug/L
Fluorene	1.1	V U	ug/L
Indeno(1,2,3-cd)pyrene	0.20	U	ug/L
Methyl tert-butyl ether	1.1	**	ug/L
Naphthalene	1.1	V U	ug/L
Phenanthrene	1.1	V U	ug/L
Pyrene	0.20	U	ug/L
Toluene	1.0	U	ug/L
Xylenes (total)	1.0	U	ug/L

A7C130134009 03/09/97 19G03600 :

1,2-Dichlorobenzene	1.0	U	ug/L
1,3-Dichlorobenzene	1.0	U	ug/L
1,4-Dichlorobenzene	1.0	U	ug/L
1-Methylnaphthalene	1.0	U	ug/L
2-Methylnaphthalene	1.0	U	ug/L
Acenaphthene	1.0	U	ug/L
Acenaphthylene	1.0	U	ug/L
Anthracene	1.0	U	ug/L
Benzene	1.0	U	ug/L
Benzo(a)anthracene	0.20	U	ug/L
Benzo(a)pyrene	0.20	U	ug/L
Benzo(b)fluoranthene	0.20	U	ug/L
Benzo(ghi)perylene	0.20	U	ug/L
Benzo(k)fluoranthene	0.20	U	ug/L
Chlorobenzene	1.0	U	ug/L
Chrysene	0.20	U	ug/L
Dibenz(a,h)anthracene	0.20	U	ug/L
Ethylbenzene	1.0	U	ug/L
Fluoranthene	0.20	U	ug/L
Fluorene	1.0	U	ug/L
Indeno(1,2,3-cd)pyrene	0.20	U	ug/L
Methyl tert-butyl ether	1.0	U	ug/L
Naphthalene	1.0	U	ug/L
Phenanthrene	1.0	U	ug/L
Pyrene	0.20	U	ug/L
Toluene	1.0	U	ug/L
Xylenes (total)	1.0	U	ug/L

A7C130134011 03/09/97 19G03700D :

1,2-Dichlorobenzene	1.0	U	ug/L

1,3-Dichlorobenzene	1.0	U	ug/L
1 -Dichlorobenzene	1.0	U	ug/L
1-Methylnaphthalene	1.0	U	ug/L
2-Methylnaphthalene	1.0	U	ug/L
Acenaphthene	1.0	U	ug/L
Acenaphthylene	1.0	U	ug/L
Anthracene	1.0	U	ug/L
Benzene	1.0	U	ug/L
Benzo(a)anthracene	0.20	U	ug/L
Benzo(a)pyrene	0.20	U	ug/L
Benzo(b)fluoranthene	0.20	U	ug/L
Benzo(ghi)perylene	0.20	U	ug/L
Benzo(k)fluoranthene	0.20	U	ug/L
Chlorobenzene	1.0	U	ug/L
Chrysene	0.20	U	ug/L
Dibenz(a,h)anthracene	0.20	U	ug/L
Ethylbenzene	1.0	U	ug/L
Fluoranthene	0.20	U	ug/L
Fluorene	1.0	U	ug/L
Indeno(1,2,3-cd)pyrene	0.20	U	ug/L
Methyl tert-butyl ether	1.0	U	ug/L
Naphthalene	1.0	U	ug/L
Phenanthrene	1.0	U	ug/L
Pyrene	0.20	U	ug/L
Toluene	1.0	U	ug/L
Xylenes (total)	1.0	U	ug/L

C130134012 03/09/97 19G00900 :

1,1,1-Trichloroethane	1.0	U	ug/L
1,1,2,2-Tetrachloroethane	1.0	U	ug/L
1,1,2-Trichloroethane	1.0	U	ug/L
1,1-Dichloroethane	1.0	U	ug/L
1,1-Dichloroethene	1.0	U	ug/L
1,2-Dichlorobenzene	1.0	U	ug/L
1,2-Dichlorobenzene	10	U	ug/L
1,2-Dichloroethane	1.0	U	ug/L
1,2-Dichloropropane	1.0	U	ug/L
1,3-Dichlorobenzene	2.0		ug/L
1,3-Dichlorobenzene	10	U	ug/L
1,4-Dichlorobenzene	3.9		ug/L
1,4-Dichlorobenzene	10	U	ug/L
Benzene	10	U	ug/L
Bromodichloromethane	1.0	U	ug/L
Bromoform	1.0	U	ug/L
Bromomethane	1.0	U	ug/L
Carbon tetrachloride	1.0	U	ug/L
Chlorobenzene	310		ug/L
Chloroethane	1.0	U	ug/L
Chloroform	1.0	U	ug/L
Chloromethane	1.0	U	ug/L
Dibromochloromethane	1.0	U	ug/L
Dichlorodifluoromethane	1.0	U	ug/L
F ylbenzene	10	U	ug/L
M hyl tert-butyl ether	10	U	ug/L

Methylene chloride			5.0	U	ug/L
Tetrachloroethene			1.0	U	ug/L
Toluene			10	U	ug/L
Trichloroethene			1.0	U	ug/L
Trichlorofluoromethane			1.0	U	ug/L
Vinyl chloride			1.0	U	ug/L
Xylenes (total)			10	U	ug/L
cis-1,3-Dichloropropene			1.0	U	ug/L
trans-1,2-Dichloroethene			1.0	U	ug/L
trans-1,3-Dichloropropene			1.0	U	ug/L
A7C130134012R2	03/09/97	19G00900	:		
Chlorobenzene			390		ug/L
A7C130134013	03/09/97	19G00700	:		
1,1,1-Trichloroethane			1.0	U	ug/L
1,1,2,2-Tetrachloroethane			1.0	U	ug/L
1,1,2-Trichloroethane			1.0	U	ug/L
1,1-Dichloroethane			1.0	U	ug/L
1,1-Dichloroethene			1.0	U	ug/L
1,2-Dichlorobenzene			1.0	U	ug/L
1,2-Dichlorobenzene			1.0	U	ug/L
1,2-Dichloroethane			1.0	U	ug/L
1,2-Dichloropropane			1.0	U	ug/L
1,3-Dichlorobenzene			1.0	U	ug/L
1,3-Dichlorobenzene			1.0	U	ug/L
1,4-Dichlorobenzene			1.0	U	ug/L
1,4-Dichlorobenzene			1.0	U	ug/L
Benzene			1.0	U	ug/L
Bromodichloromethane			1.0	U	ug/L
Bromoform			1.0	U	ug/L
Bromomethane			1.0	U	ug/L
Carbon tetrachloride			1.0	U	ug/L
Chlorobenzene			1.0	U	ug/L
Chlorobenzene			1.0	U	ug/L
Chloroethane			1.0	U	ug/L
Chloroform			1.0	U	ug/L
Chloromethane			1.0	U	ug/L
Dibromochloromethane			1.0	U	ug/L
Dichlorodifluoromethane			1.0	U	ug/L
Ethylbenzene			1.0	U	ug/L
Methyl tert-butyl ether			1.0	U	ug/L
Methylene chloride			5.0	U	ug/L
Tetrachloroethene			1.0	U	ug/L
Toluene			1.0	U	ug/L
Trichloroethene			1.0	U	ug/L
Trichlorofluoromethane			1.0	U	ug/L
Vinyl chloride			1.0	U	ug/L
Xylenes (total)			1.0	U	ug/L
cis-1,3-Dichloropropene			1.0	U	ug/L
trans-1,2-Dichloroethene			1.0	U	ug/L
trans-1,3-Dichloropropene			1.0	U	ug/L
A7C130134014	03/09/97	19G00100	:		

1,2-Dichlorobenzene	1.0	U	ug/L
1,3-Dichlorobenzene	1.0	U	ug/L
1,4-Dichlorobenzene	1.0	U	ug/L
Benzene	1.0	U	ug/L
Chlorobenzene	1.0	U	ug/L
Ethylbenzene	1.0	U	ug/L
Methyl tert-butyl ether	1.0	U	ug/L
Toluene	1.0	U	ug/L
Xylenes (total)	1.0	U	ug/L

A7C130134015 03/10/97 19G001700 :

1,2-Dichlorobenzene	1.0	U	ug/L
1,3-Dichlorobenzene	1.0	U	ug/L
1,4-Dichlorobenzene	1.0	U	ug/L
Benzene	1.0	U	ug/L
Chlorobenzene	1.0	U	ug/L
Ethylbenzene	1.0	U	ug/L
Methyl tert-butyl ether	1.0	U	ug/L
Toluene	1.0	U	ug/L
Xylenes (total)	1.0	U	ug/L