N60508.AR.000510
NAS WHITING FIELD
5090.3a

LETTER REGARDING ANALYTICAL WATER RESULTS COLLECTED FROM THE BATTERY SHOP ON 16 DECEMBER 1986 WITH ATTACHMENTS NAS WHITING FIELD FL
4/2/1987
NAS WHITING FIELD

18.01.00.0026

00769

5090
Code 1143/11

2 APR 1987

Mr. George E. Hoffman, Jr.
District Enforcement Officer
Florida Department of Environmental Regulation
160 Governmental Center
Pensacola, FL 32501-5794

Subj: GROUNDWATER MONITORING AT THE BATTERY SHOP SITE, NAVAL AIR STATION (NAS), WHITING FIELD, MILTON, FL

Dear Mr. Hoffman:

The analytical results of water samples collected on December 16, 1986, from the Battery Shop Site at NAS Whiting Field are attached as enclosure (1). Samples were collected from monitor wells GMW-1, GMW-2, GMW-3, GMW-4, and water supply well W-S2, shown in figure 1, and were analyzed for volatile organic compounds (VOCs) according to EPA Method 624. Only benzene was detected at 3 micrograms per liter (ug/l) in water supply well W-S2.

A summary of organic compounds and their corresponding concentrations of all past analyses of water samples from the Battery Shop Site is given in table 1. The only frequently detected compound appears to be benzene in water supply well W-S2 and monitor well GMW-2; however, the last three sampling events from monitor well GMW-2 have not detected benzene.

This sampling event concludes our one year sampling and analysis program which was recommended in our "Detection and Monitoring Program" final report dated November 14, 1985, and was subsequently agreed upon by you in your December 23, 1985, letter to Mr. D. R. Spell. We feel that our analyses have proven that the groundwater quality and soils in the vicinity of the battery shop have not been adversely impacted by metals or other chemicals believed to be associated with past discharges to the dry well. However, we do feel that the groundwater in the battery shop area is being affected by a regional groundwater problem associated with one or more of the Navy Assessment and Control of Installation Pollutants (NACIP) Program sites. The Final Report of the NACIP Verification Study, sent to Mr. Thomas Moody on December 24, 1986, showed that groundwater contamination at some NACIP sites does exist and these sites are the probable source of groundwater contamination at the Battery Shop Site.

We request that the Consent Order entered into between the State of Florida Department of Environmental Regulation and the United States Navy, Whiting Field Naval Air Station regarding the Battery Shop Site, be terminated. We will continue to investigate this regional groundwater problem under the NACIP program and could forward copies of all future reports, etc to you if you request.

Figure 1. Locations of Wells at the Battery Shop Site, NAS Whiting

5090
Code 1143/[redacted]
2 APR 1987

Should you have any questions or comments concerning this matter, please contact Mr. Sonny Chestnut at telephone number (803) 743-0574.

Sincerely,

D. R. SPELL P.E.
Head Environmental Branch

Encl:
(1) December 16, 1986 Analytical Results

Copy to:
[redacted]nny Locklear)
GERAGHTY & MILLER (Bill Bocskocsky)
FDER NORTHWEST DISTRICT (Thomas Moody)

114
09B
11433
dow
4/1/87
WANG 0139L

114
1143
11433

[illegible] on December 16, 1986, from [illegible] attached as enclosure (1). Samples were collect[illegible] GMW-1, GMW-2, GMW-3, GMW-4, and water supply well [illegible] were analyzed for volatile [illegible] compounds [illegible] 624. [illegible] benzene was [illegible] at 3 microgram per liter [illegible] water [illegible] well W-52.

[illegible] summary of organic compounds and [illegible] corresponding [illegible] concentrations of all [illegible] analyses of water samples from the Battery Shop [illegible] is given in [illegible] The only frequently detected compound [illegible] benzene in water supply well W-52 and monitor well GMW-[illegible] However, the [illegible] three sampling events from monitor [illegible] GMW-[illegible] have not [illegible] benzene.

This sampling event concludes our one year sampling and analysis program which was recommended in [illegible] Detection and Monitoring Program [illegible] final report dated November 14, 1985, and was subsequently agreed upon by [illegible] your December 23, 1985, letter to Mr. D. R. Spell. We feel that our [illegible] have proven that the groundwater quality and soils in the vicinity [illegible] Battery Shop have not been adversely impacted by metals or other che[illegible] believed to be associated with past discharges to the [illegible] well. Note[illegible] we do feel that the groundwater in the Battery Shop area is being affecte[illegible] groundwater problem associated with one or more of the [illegible] Assessment and Control of Installation Pollutants (NACIP) Program site[illegible] the Final Report of the NACIP Verification Study, sent to [illegible] Thomas Moody [illegible] December 24, 1986, showed that groundwater contamination at [illegible] NACIP [illegible] and these sites are the probable source of groundwater contamination [illegible] of the Battery Shop Site.

We request that the Consent Order entered into between [illegible] State of Florida Department of Environmental Regulation and the United [illegible] Navy, Whiting Field Naval Air Station regarding the Battery Shop Site be terminated. We will continue to investigate this regional groundwater [illegible] under the NACIP program and could forward copies of all future reports, [illegible] to you if you request.

GERAGHTY & MILLER, INC.
Ground-Water Consultants

1193b
1 A 33 cc 3/30

Jaque - Sonny will you draft a response fms

441/27 March 25, 1987

Mr. Sonny Chestnut
Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
P.O. Box 10068
Charleston, SC 29411-0068

Re: Water-Quality Monitoring at the Battery Shop (Site 5), NAS Whiting Field, Florida.

Dear Mr. Chestnut:

Transmitted herein are the laboratory analytical results of ground-water samples collected on December 16, 1986 at the battery shop site at NAS Whiting Field. Samples were collected from monitor wells GMW-1, GMW-2, GMW-3, and GMW-4, and water-supply well W-S2 (Figure 1) and were analyzed for volatile organic compounds (VOCs) according to EPA Method 624. Only benzene at 3 ug/l (micrograms per liter) was detected in water-supply well W-S2; all water samples from the four monitor wells were "clean".

Table 1 summarizes those organic compounds and their corresponding concentrations of all past analyses performed on water samples from the battery shop site wells. The only frequently identified and quantified compound appears to be benzene in water-supply well W-S2 and monitor well GMW-2; however, the last three sampling events from monitor well GMW-2 have not detected benzene.

This should conclude the one-year sampling and analysis program which was agreed upon between the Navy and the FDER (Florida Department of Environmental Regulation) and recommended in the Detection and Monitoring Program report, dated November 14, 1985. Furthermore, because there is no reason to believe that petroleum products were disposed of into the dry well at the site, and because other sites at the NAS Whiting Field are currently being investigated concerning benzene contamination in the ground water under NACIP, it would be prudent at this time to request the FDER to remove Site 5 from the Consent Order and allow it to be incorporated into NACIP. Site 5 would then be included in the Plan-of-Action for the upcoming Characterization study.

Sincerely,

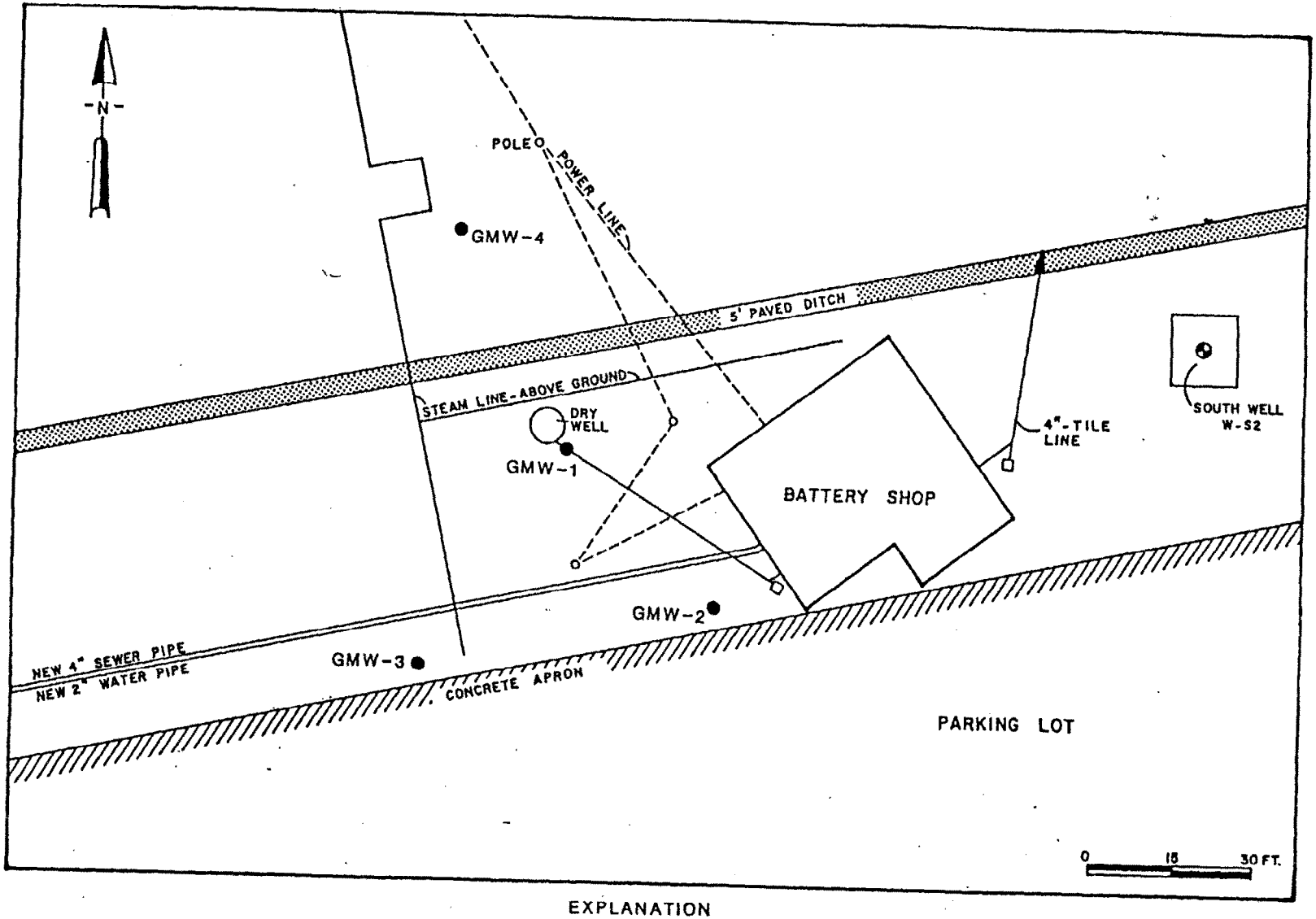
GERAGHTY & MILLER, INC.

William Bocskocsky

William P. Bocskocsky
Senior Scientist

WPB:lt
enc.

Northdale Executive Center • 3820 Northdale Blvd., Suite 200A • Post Office Box 273630 • Tampa, FL 33688-3630 • (813) 961-1921



EXPLANATION

GMW-2 ● MONITOR WELL AND NUMBER

W-S2 ⊕ PRODUCTION WELL AND NUMBER

Figure 1. Locations of Wells at the Batttery Shop Site, NAS Whiting Field, Florida.

Geraghty & Miller, Inc.

Table 1.

SUMMARY OF WATER QUALITY ANALYSES FROM MONITOR WELLS
BATTERY SHOP, SITE 5, NAS WHITING FIELD, MILTON FLORIDA

EXPLANATION

HEPT	=	HEPTACHLOR
g-BHC	=	g-BHC
ALD	=	ALDRIN
BENZ	=	BENZENE
EBZ	=	ETHYLBENZENE
TCE	=	TRICHLOROETHENE
CHLOR	=	CHLOROETHANE
VC	=	VINYL CHLORIDE
2-NP	=	2-NITROPHENOL
2,4-DCP	=	2,4-DICHLOROPHENOL
-	=	COMPOUND WAS NOT DETECTED

NOTE: All analyses performed by Pioneer Laboratory, Inc., Pensacola, Fl., according to EPA Methods 608, 624, & 625

DATA REVISED: March 25, 1987

Table 1. Cont'd.

MONITOR WELL GMW-1

Concentrations in ug/l (ppb)

	PESTICIDES			VOLATILE ORGANICS					ACID EXTRACTABLES	
DATE	HEPT	g-BHC	ALD	BENZ	EBZ	TCE	CHLOR	VC	2-NP	2,4-DCP
10-Aug-85	0.04	-	0.13	-	-	-	-	-	-	-
01-Nov-85	-	-	-	3	-	-	-	-	-	-
					-	-	-	-	-	-
21-Mar-86	-	-	-	-	-	-	-	-	-	-
21-Apr-86	-	-	-	-	-	-	-	-	-	-
20-May-86	-	-	-	-	-	-	-	-	-	-
19-Aug-86	-	-	-	-	-	-	-	-	-	-
16-Dec-86	-	-	-	-	-	-	-	-	-	-

MONITOR WELL GMW-2

Concentrations in ug/l (ppb)

	PESTICIDES			VOLATILE ORGANICS					ACID EXTRACTABLES	
DATE	HEPT	g-BHC	ALD	BENZ	EBZ	TCE	CHLOR	VC	2-NP	2,4-DCP
10-Aug-85	-	-	-	21	-	-	-	-	-	-
01-Nov-85	-	-	-	17	-	-	-	-	-	-
21-Mar-86	-	-	-	56	4	-	-	-	-	-
21-Apr-86	-	-	-	32	-	-	-	-	-	-
20-May-86	-	-	-	-	-	-	39	56	-	-
19-Aug-86	-	-	-	-	-	-	-	-	-	-
16-Dec-86	-	-	-	-	-	-	-	-	-	-

Table 1. Cont'd.

MONITOR WELL GMW-3

Concentrations in ug/l (ppb)

	PESTICIDES			VOLATILE ORGANICS					ACID EXTRACTABLES	
DATE	HEPT	g-BHC	ALD	BENZ	EBZ	TCE	CHLOR	VC	2-NP	2,4-DCP
10-Aug-85	0.02	0.02	-	-	-	-	-	-	-	-
01-Nov-85	-	-	-	1	-	-	-	-	-	-
21-Mar-86	-	-	-	-	-	-	-	-	-	-
21-Apr-86	-	-	-	-	-	-	-	-	-	-
20-May-86	-	-	-	-	-	-	-	-	-	-
19-Aug-86	-	-	-	-	-	-	-	-	-	-
16-Dec-86	-	-	-	-	-	-	-	-	-	-

MONITOR WELL GMW-4

Concentrations in ug/l (ppb)

	PESTICIDES			VOLATILE ORGANICS					ACID EXTRACTABLES	
DATE	HEPT	g-BHC	ALD	BENZ	EBZ	TCE	CHLOR	VC	2-NP	2,4-DCP
10-Aug-85	-	-	-	26	-	-	-	-	410	20
01-Nov-85	-	-	-	14	-	-	-	-	-	-
21-Mar-86	-	-	-	-	-	-	-	-	-	-
21-Apr-86	-	-	-	-	-	-	-	-	-	-
20-May-86	-	-	-	-	-	-	-	-	-	-
19-Aug-86	-	-	-	-	-	-	-	-	-	-
16-Dec-86	-	-	-	-	-	-	-	-	-	-

Table 1. Cont'd.

WATER SUPPLY WELL W-S2

Concentrations in ug/l (ppb)

	PESTICIDES			VOLATILE ORGANICS					ACID EXTRACTABLES	
DATE	HEPT	g-BHC	ALD	BENZ	EBZ	TCE	CHLOR	VC	2-NP	2,4-DCP
01-Nov-85	-	-	-	-	-	4	-	-	-	-
21-Mar-86	-	-	-	4	-	-	-	-	-	-
21-Apr-86	-	-	-	2	-	-	-	-	-	-
20-May-86	-	-	-	-	-	-	25	49	-	-
21-Jul-86	-	-	-	4	-	-	-	-	-	-
19-Aug-86	-	-	-	-	-	-	-	-	-	-
16-Dec-86	-	-	-	3	-	-	-	-	-	-

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

RECEIVED
JAN 20 1987
Geraghty and Miller

To: Geraghty & Miller
Northdale Executive Center
3820 Northdale Boulevard Suite 200
Tampa, FL 33624

Lab I.D.: 86-3946-2

PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

MONITOR WELL GMW-1

Collector:	Bob Ackart
Sample Site:	NAS Whiting Field Battery Shop Project Number T0290WH2 GMWF-1
Date and Time Collected:	December 16, 1986 3:53 p.m.
Date and Time Samples Received:	December 16, 1986 4:10 p.m.
Analysts:	Bruce Hunt, Beverly Vanderstar
Date Analyses Started:	December 24, 1986
Date Reported:	January 7, 1987

Laboratory I.D. No.: 81142

Approved By: W. F. Bowen

Pioneer
PLI LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

To: Geraghty & Miller
Northdale Executive Center
3820 Northdale Boulevard Suite 200
Tampa, FL 33624

Lab I.D.: 86-3946-2
Date of Order: Dec. 16, 1986
Sample I.D.: NAS Whiting Field
Project #T0290WH2 GMWF-1

MONITOR WELL GMW-1

Method 624

Analysis	Results	Det.Limit
Benzene	BDL	1 ppb
Bromodichloromethane	BDL	5 ppb
Bromoform	BDL	5 ppb
Bromomethane	BDL	5 ppb
Carbon Tetrachloride	BDL	3 ppb
Chlorobenzene	BDL	1 ppb
Chloroethane	BDL	5 ppb
2-Chloroethylvinyl ether	BDL	5 ppb
Chloroform	BDL	5 ppb
Chloromethane	BDL	5 ppb
Dibromochloroemethane	BDL	5 ppb
1,2 Dichloroebenzene	BDL	5 ppb
1,3 Dichloroebenzene	BDL	5 ppb
1,4 Dichloroebenzene	BDL	5 ppb
1,1 Dichloroethane	BDL	5 ppb
1,2 Dichloroethane	BDL	3 ppb
1,1 Dichloroethene	BDL	5 ppb
trans-1,2-Dichloroethene	BDL	5 ppb
1,2 Dichloropropane	BDL	5 ppb
cis-1,3 Dichloropropene	BDL	5 ppb
trans-1,3 Dichloropropene	BDL	5 ppb
Ethyl Benzene	BDL	1 ppb
Methylene Chloride	BDL	5 ppb
1,1,2,2-Tetrachloroethane	BDL	5 ppb
Tetrachloroethene	BDL	3 ppb
Toluene	BDL	1 ppb
1,1,1-Trichloroethane	BDL	5 ppb
1,1,2-Trichloroethane	BDL	5 ppb
Trichloroethene	BDL	1 ppb
Trichloroflurometh ane	BDL	5 ppb
Vinyl Chloride	BDL	1 ppb

*EPA Method 624 - Reference: **Method for Organic Chemical Analysis of Municipal and Industrial Wastewater,** EPA-600/4-82-057, July 1982.

Note: BDL = Below Detection Limit
ppb = parts per billion
< = less than

Pioneer
LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

To: Geraghty & Miller
Northdale Executive Center
3820 Northdale Boulevard Suite 200
Tampa, FL 33624

Lab I.D.: 86-3946-3

PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

MONITOR WELL GMW-2

Collector:	Bob Ackart
Sample Site:	NAS Whiting Field Battery Shop Project Number T0290WH2 GMWF-2
Date and Time Collected:	December 16, 1986 3:53 p.m.
Date and Time Samples Received:	December 16, 1986 4:10 p.m.
Analysts:	Bruce Hunt, Beverly Vanderstar
Date Analyses Started:	December 24, 1986
Date Reported:	January 7, 1987

Laboratory I.D. No.: 81142

Approved By: W. F. Bowers

Pioneer
PLI LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

To: Geraghty & Miller
Northdale Executive Center
3820 Northdale Boulevard Suite 200
Tampa, FL 33624

Lab I.D.: 86-3946-3
Date of Order: Dec. 16, 1986
Sample I.D.: NAS Whiting Field
Project #T0290WH2 GMWF-2

MONITOR WELL GMW-2

Method 624

Analysis	Results	Det.Limit
Benzene	BDL	1 ppb
Bromodichloromethane	BDL	5 ppb
Bromoform	BDL	5 ppb
Bromomethane	BDL	5 ppb
Carbon Tetrachloride	BDL	3 ppb
Chlorobenzene	BDL	1 ppb
Chloroethane	BDL	5 ppb
2-Chloroethylvinyl ether	BDL	5 ppb
Chloroform	BDL	5 ppb
Chloromethane	BDL	5 ppb
Dibromochloroemethane	BDL	5 ppb
1,2 Dichloroebenzene	BDL	5 ppb
1,3 Dichloroebenzene	BDL	5 ppb
1,4 Dichloroebenzene	BDL	5 ppb
1,1 Dichloroethane	BDL	5 ppb
1,2 Dichloroethane	BDL	3 ppb
1,1 Dichloroethene	BDL	5 ppb
trans-1,2-Dichloroethene	BDL	5 ppb
1,2 Dichloropropane	BDL	5 ppb
cis-1,3 Dichloropropene	BDL	5 ppb
trans-1,3 Dichloropropene	BDL	5 ppb
Ethyl Benzene	BDL	1 ppb
Methylene Chloride	BDL	5 ppb
1,1,2,2-Tetrachloroethane	BDL	5 ppb
Tetrachloroethene	BDL	3 ppb
Toluene	BDL	1 ppb
1,1,1-Trichloroethane	BDL	5 ppb
1,1,2-Trichloroethane	BDL	5 ppb
Trichloroethene	BDL	1 ppb
Trichlorofluromethane	BDL	5 ppb
Vinyl Chloride	BDL	1 ppb

*EPA Method 624 - Reference: **Method for Organic Chemical Analysis of Municipal and Industrial Wastewater,** EPA-600/4-82-057, July 1982.

Note: BDL = Below Detection Limit
ppb = parts per billion
< = less than

Pioneer
PLI LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

To: Geraghty & Miller
Northdale Executive Center
3820 Northdale Boulevard Suite 200
Tampa, FL 33624

Lab I.D.: 86-3946-4

PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

MONITOR WELL GMW-3

Collector:	Bob Ackart
Sample Site:	NAS Whiting Field Battery Shop Project Number T0290WH2 GMWF-3
Date and Time Collected:	December 16, 1986 3:53 p.m.
Date and Time Samples Received:	December 16, 1986 4:10 p.m.
Analysts:	Bruce Hunt, Beverly Vanderstar
Date Analyses Started:	December 24, 1986
Date Reported:	January 7, 1987

Laboratory I.D. No.: 81142

Approved By: W. F. Bowers

Pioneer
LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

To: Geraghty & Miller
Northdale Executive Center
3820 Northdale Boulevard Suite 200
Tampa, FL 33624

Lab I.D.: 86-3946-4
Date of Order: Dec. 16, 1986
Sample I.D.: NAS Whiting Field
Project #T0290WH2 GMWF-3

MONITOR WELL GMW-3

Method 624

Analysis	Results	Det.Limit
Benzene	BDL	1 ppb
Bromodichloromethane	BDL	5 ppb
Bromoform	BDL	5 ppb
Bromomethane	BDL	5 ppb
Carbon Tetrachloride	BDL	3 ppb
Chlorobenzene	BDL	1 ppb
Chloroethane	BDL	5 ppb
2-Chloroethylvinyl ether	BDL	5 ppb
Chloroform	BDL	5 ppb
Chloromethane	BDL	5 ppb
Dibromochloroemethane	BDL	5 ppb
1,2 Dichloroebenzene	BDL	5 ppb
1,3 Dichloroebenzene	BDL	5 ppb
1,4 Dichloroebenzene	BDL	5 ppb
1,1 Dichloroethane	BDL	5 ppb
1,2 Dichloroethane	BDL	3 ppb
1,1 Dichloroethene	BDL	5 ppb
trans-1,2-Dichloroethene	BDL	5 ppb
1,2 Dichloropropane	BDL	5 ppb
cis-1,3 Dichloropropene	BDL	5 ppb
trans-1,3 Dichloropropene	BDL	5 ppb
Ethyl Benzene	BDL	1 ppb
Methylene Chloride	BDL	5 ppb
1,1,2,2-Tetrachloroethane	BDL	5 ppb
Tetrachloroethene	BDL	3 ppb
Toluene	BDL	1 ppb
1,1,1-Trichloroethane	BDL	5 ppb
1,1,2-Trichloroethane	BDL	5 ppb
Trichloroethene	BDL	1 ppb
Trichlorofluromethane	BDL	5 ppb
Vinyl Chloride	BDL	1 ppb

*EPA Method 624 - Reference: **Method for Organic Chemical Analysis of Municipal and Industrial Wastewater,** EPA-600/4-82-057, July 1982.

Note: BDL = Below Detection Limit
ppb = parts per billion
< = less than

Pioneer
PLI LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

To: Geraghty & Miller
Northdale Executive Center
3820 Northdale Boulevard Suite 200
Tampa, FL 33624

Lab I.D.: 86-3946-5

PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

MONITOR WELL GMW-4

Collector:	Bob Ackart
Sample Site:	NAS Whiting Field Battery Shop Project Number T0290WH2 GMWF-4
Date and Time Collected:	December 16, 1986 3:53 p.m.
Date and Time Samples Received:	December 16, 1986 4:10 p.m.
Analysts:	Bruce Hunt, Beverly Vanderstar
Date Analyses Started:	December 24, 1986
Date Reported:	January 7, 1987

Laboratory I.D. No.: 81142

Approved By: W. F. Bowers

Pioneer
PLI LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

To: Geraghty & Miller
Northdale Executive Center
3820 Northdale Boulevard Suite 200
Tampa, FL 33624

Lab I.D.: 86-3946-5
Date of Order: Dec. 16, 1986
Sample I.D.: NAS Whiting Field
Project #T0290WH2 GMWF-4

MONITOR WELL GMW-4

Method 624

Analysis	Results	Det.Limit
Benzene	5	1 ppb
Bromodichloromethane	BDL	5 ppb
Bromoform	BDL	5 ppb
Bromomethane	BDL	5 ppb
Carbon Tetrachloride	BDL	3 ppb
Chlorobenzene	BDL	1 ppb
Chloroethane	BDL	5 ppb
2-Chloroethylvinyl ether	BDL	5 ppb
Chloroform	BDL	5 ppb
Chloromethane	BDL	5 ppb
Dibromochloroemethane	BDL	5 ppb
1,2 Dichloroebenzene	BDL	5 ppb
1,3 Dichloroebenzene	BDL	5 ppb
1,4 Dichloroebenzene	BDL	5 ppb
1,1 Dichloroethane	BDL	5 ppb
1,2 Dichloroethane	BDL	3 ppb
1,1 Dichloroethene	BDL	5 ppb
trans-1,2-Dichloroethene	BDL	5 ppb
1,2 Dichloropropane	BDL	5 ppb
cis-1,3 Dichloropropene	BDL	5 ppb
trans-1,3 Dichloropropene	BDL	5 ppb
Ethyl Benzene	BDL	1 ppb
Methylene Chloride	BDL	5 ppb
1,1,2,2-Tetrachloroethane	BDL	5 ppb
Tetrachloroethene	BDL	3 ppb
Toluene	BDL	1 ppb
1,1,1-Trichloroethane	BDL	5 ppb
1,1,2-Trichloroethane	BDL	5 ppb
Trichloroethene	BDL	1 ppb
Trichloroflurometh ane	BDL	5 ppb
Vinyl Chloride	BDL	1 ppb

*EPA Method 624 - Reference: **Method for Organic Chemical Analysis of Municipal and Industrial Wastewater,** EPA-600/4-82-057, July 1982.

Note: BDL = Below Detection Limit
ppb = parts per billion
< = less than

Pioneer
PLI LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

RECEIVED
JAN 20 1987
Geraghty and Miller, Inc.

To: Geraghty & Miller
Northdale Executive Center
3820 Northdale Boulevard Suite 200
Tampa, FL 33624

Lab I.D.: 86-3946-1

PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

WATER-SUPPLY WELL W-S2

Collector:	Bob Ackart
Sample Site:	NAS Whiting Field Battery Shop Project Number T0290WH2 SWH
Date and Time Collected:	December 16, 1986 3:53 p.m.
Date and Time Samples Received:	December 16, 1986 4:10 p.m.
Analysts:	Bruce Hunt, Beverly Vanderstar
Date Analyses Started:	December 24, 1986
Date Reported:	January 7, 1987

Laboratory I.D. No.: 81142

Approved By: W. F. Bowen

Pioneer
PLI LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

To: Geraghty & Miller
Northdale Executive Center
3820 Northdale Boulevard Suite 200
Tampa, FL 33624

Lab I.D.: 86-3946-1
Date of Order: Dec. 16, 1986
Sample I.D.: NAS Whiting Field
Project #T0290WH2 SWH

WATER-SUPPLY WELL W-S2

Method 624

Analysis	Results	Det.Limit
Benzene	3	1 ppb
Bromodichloromethane	BDL	5 ppb
Bromoform	BDL	5 ppb
Bromomethane	BDL	5 ppb
Carbon Tetrachloride	BDL	3 ppb
Chlorobenzene	BDL	1 ppb
Chloroethane	BDL	5 ppb
2-Chloroethylvinyl ether	BDL	5 ppb
Chloroform	BDL	5 ppb
Chloromethane	BDL	5 ppb
ibromochloroemethane	BDL	5 ppb
1,2 Dichloroebenzene	BDL	5 ppb
1,3 Dichloroebenzene	BDL	5 ppb
1,4 Dichloroebenzene	BDL	5 ppb
1,1 Dichloroethane	BDL	5 ppb
1,2 Dichloroethane	BDL	3 ppb
1,1 Dichloroethene	BDL	5 ppb
trans-1,2-Dichloroethene	BDL	5 ppb
1,2 Dichloropropane	BDL	5 ppb
cis-1,3 Dichloropropene	BDL	5 ppb
trans-1,3 Dichloropropene	BDL	5 ppb
Ethyl Benzene	BDL	1 ppb
Methylene Chloride	BDL	5 ppb
1,1,2,2-Tetrachloroethane	BDL	5 ppb
Tetrachloroethene	BDL	3 ppb
Toluene	BDL	1 ppb
1,1,1-Trichloroethane	BDL	5 ppb
1,1,2-Trichloroethane	BDL	5 ppb
Trichloroethene	BDL	1 ppb
Trichlorofluromethane	BDL	5 ppb
Vinyl Chloride	BDL	1 ppb

*EPA Method 624 - Reference: **Method for Organic Chemical Analysis of Municipal and Industrial Wastewater,** EPA-600/4-82-057, July 1982.

Note: BDL = Below Detection Limit
ppb = parts per billion
< = less than

Pioneer
PLI LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

To: Geraghty & Miller
Northdale Executive Center
3820 Northdale Boulevard Suite 200
Tampa, FL 33624

Lab I.D.: 86-3946-6

PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS
TRIP BLANK

Collector:	Bob Ackart
Sample Site:	NAS Whiting Field Battery Shop Project Number T0290WH2 Trip Blank
Date and Time Collected:	December 16, 1986 3:53 p.m.
Date and Time Samples Received:	December 16, 1986 4:10 p.m.
Analysts:	Bruce Hunt, Beverly Vanderstar
Date Analyses Started:	December 24, 1986
Date Reported:	January 7, 1987

Laboratory I.D. No.: 81142

Approved By: W. F. Brown

Pioneer
PLI LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

To: Geraghty & Miller
Northdale Executive Center
3820 Northdale Boulevard Suite 200
Tampa, FL 33624

Lab I.D.: 86-3946-6
Date of Order: Dec. 16, 1986
Sample I.D.: NAS Whiting Field
Project #T0290WH2 Trip Blank

TRIP BLANK

Method 624

Analysis	Results	Det.Limit
Benzene	BDL	1 ppb
Bromodichloromethane	BDL	5 ppb
Bromoform	BDL	5 ppb
Bromomethane	BDL	5 ppb
Carbon Tetrachloride	BDL	3 ppb
Chlorobenzene	BDL	1 ppb
Chloroethane	BDL	5 ppb
2-Chloroethylvinyl ether	BDL	5 ppb
Chloroform	BDL	5 ppb
Chloromethane	BDL	5 ppb
Dibromochloroemethane	BDL	5 ppb
1,2 Dichloroebenzene	BDL	5 ppb
1,3 Dichloroebenzene	BDL	5 ppb
1,4 Dichloroebenzene	BDL	5 ppb
1,1 Dichloroethane	BDL	5 ppb
1,2 Dichloroethane	BDL	3 ppb
1,1 Dichloroethene	BDL	5 ppb
trans-1,2-Dichloroethene	BDL	5 ppb
1,2 Dichloropropane	BDL	5 ppb
cis-1,3 Dichloropropene	BDL	5 ppb
trans-1,3 Dichloropropene	BDL	5 ppb
Ethyl Benzene	BDL	1 ppb
Methylene Chloride	BDL	5 ppb
1,1,2,2-Tetrachloroethane	BDL	5 ppb
Tetrachloroethene	BDL	3 ppb
Toluene	BDL	1 ppb
1,1,1-Trichloroethane	BDL	5 ppb
1,1,2-Trichloroethane	BDL	5 ppb
Trichloroethene	BDL	1 ppb
Trichloroflurometh ane	BDL	5 ppb
Vinyl Chloride	BDL	1 ppb

*EPA Method 624 - Reference: **Method for Organic Chemical Analysis of Municipal and Industrial Wastewater,** EPA-600/4-82-057, July 1982.

Note: BDL = Below Detection Limit
ppb = parts per billion
< = less than