



## DEPARTMENT OF THE NAVY

13.01.00.0019

NORTHERN DIVISION  
 NAVAL FACILITIES ENGINEERING COMMAND  
 10 INDUSTRIAL HIGHWAY  
 MAIL STOP, #82  
 LESTER, PA 19113-2090

IN REPLY REFER TO

5090  
 Ser 1903/1821/JLC

JUN 22 1993

MEMORANDUM

**FOR THE MEMBERS OF THE TECHNICAL REVIEW COMMITTEE (TRC) FOR  
 INSTALLATION RESTORATION PROGRAM AT NAVAL WEAPONS INDUSTRIAL  
 RESERVE PLANT (NWIRP) BETHPAGE, NEW YORK**

This memorandum is to inform you that the next TRC meeting for NWIRP Bethpage will be held on Tuesday, August 10, 1993 at 10:00 a.m. in the Defense Plant Representative Office conference room at Grumman Aerospace Corporation in Bethpage, New York.

The focus of the meeting will be to discuss preliminary comments regarding the Phase II Remedial Investigation and Feasibility Study Reports which are to be sent out shortly.

Enclosed are the results from the Phase II Remedial Investigation fieldwork as they will appear in the Draft RI Report. Please review and call the Remedial Project Manager for NWIRP Bethpage, Mr. James Colter, with any questions you may have. Mr. Colter can be reached at (215) 595-0567, ext. 163.

Please supply a list of names of the personnel from your office who will be attending the TRC to Mr. Colter at least one week prior to the meeting. This will allow Grumman security to have badges in their name ready upon their arrival.

Sincerely,

*Delna L. Felton*  
 for JAMES SHAFER

Acting Head, Restoration Management Sect.  
 By direction of the Commanding Officer

## Distribution:

Bethpage Water District, John Molloy  
 DCMD Northeast, Jim McConnell  
 DLA/DPRO, Martin Simonson  
 Geraghty and Miller, Carlo San Giovanni  
 Grumman Aerospace Corporation, John Ohlmann  
 Nassau County Health Department, Laurie Lutzker  
 Naval Air Systems Command, Robert Booth  
 NYSDEC, John Barnes/Kelly Bologna  
 NYS Department of Health, Lloyd Wilson  
 EPA Region II, Mary Logan/Dale Carpenter

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 CNO OP-45  
 COMNAVFACENGCOM, Code 181  
 Halliburton NUS, David Brayack

2-10

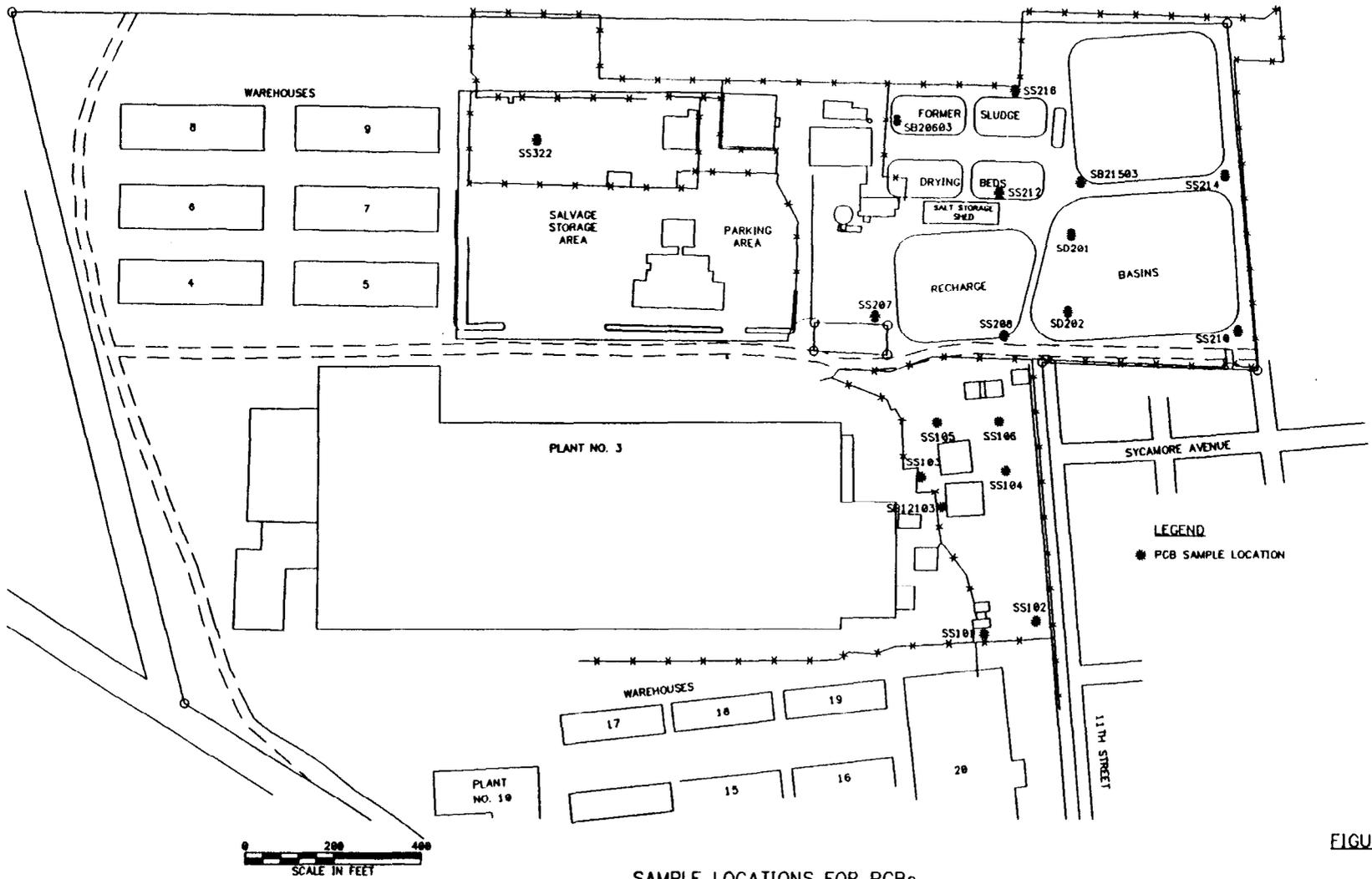


FIGURE 2-4

**SAMPLE LOCATIONS FOR PCBs**  
**PHASE 2 REMEDIAL INVESTIGATION/FEASIBILITY STUDY**  
**NWIRP, BETHPAGE, NEW YORK**



Rough Draft

TABLE 4-1

OCCURRENCE AND DISTRIBUTION OF SURFACE AND NEAR-SURFACE PCBS AND PESTICIDES  
SITE 1: FORMER DRUM MARSHALING AREA  
NWIRP BETHPAGE, NEW YORK (ug/kg)

MDL	LOCATION	101	102	103	104	105	106	121	125 *
	SAMPLE DEPTH	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	3 FEET	SURFACE
1.37	4,4-DDE		27J						
1.50	4,4-DDT		37						
4.00	Aroclor-1242					25000			
8.33	Aroclor-1248	25000	1100/7900 *	1300000	2500		1700	1000J	7500
6.99	Aroclor-1254	5000J	660J	170000J	530J		400J	210J	

J: Estimated

\*: Phase 1 result.

TABLE 4-4

OCCURRENCE AND DISTRIBUTION OF SURFACE AND NEAR-SURFACE PCBS AND PESTICIDES  
 SITE 2: RECHARGE BASIN AREA  
 NWIRP BETHPAGE, NEW YORK (ug/kg)

MDL	LOCATION	207	207(DUP)	208	210	210(DUP)	212	214
	SAMPLE DEPTH	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE
1.37	Dieldrin							7.2J
1.37	4,4-DDE	93J	130J					
1.6	Endrin		4.7					
1.33	4,4-DDD		6.3J					
1.5	4,4-DDT	170	620J			4.4		13J
8.33	Aroclor-1248		230	73J	50J	75	2500	2200
6.99	Aroclor-1254		61J				490J	580J

**TABLE 4-4 (Continued)**  
**OCCURRENCE AND DISTRIBUTION OF SURFACE AND NEAR-SURFACE**  
**PCBS AND PESTICIDES (ug/kg)**  
**PAGE 2**

CRQL	LOCATION	226*	226(DUP)*	229*	216	206	215	201	202
	SAMPLE DEPTH	SURFACE	SURFACE	3 FEET	SURFACE	3 FEET	3 FEET	BASIN SEDIMENT	BASIN SEDIMENT
0.63	Heptachlor Epoxide							12J	
1.37	Dieldrin							7.9J	
8.33	Aroclor-1248	1800	2000	6800	6200	33000	280	2600	48J
6.99	Aroclor-1254				1000J	3600J	91J		

J: Estimated.

\*: Phase 1 RI result.

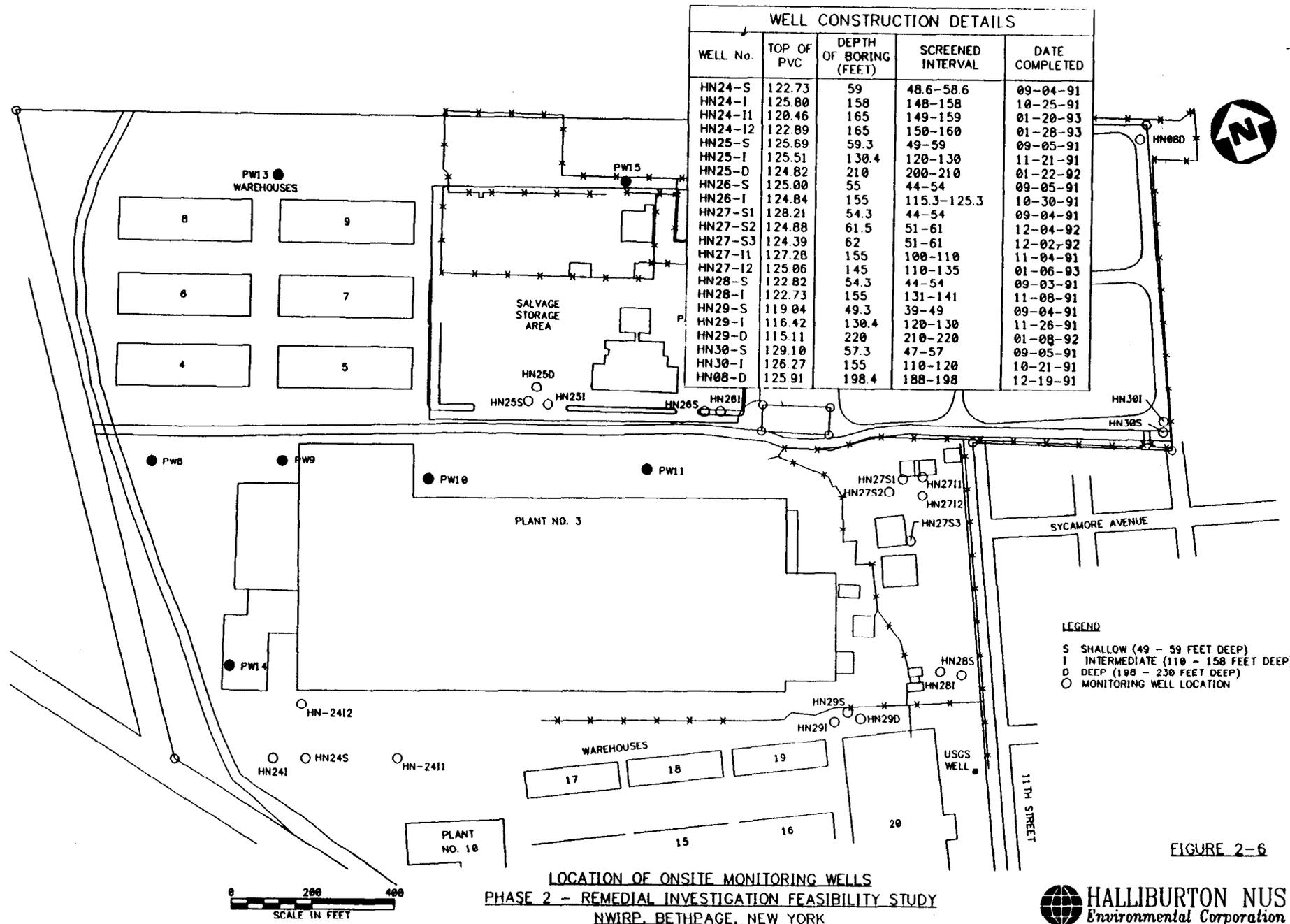
TABLE 4-5

OCCURRENCE AND DISTRIBUTION OF SURFACE AND NEAR-SURFACE PCBS AND PESTICIDES  
 SITE 3: SALVAGE STORAGE AREA  
 NWIRP BETHPAGE, NEW YORK (ug/kg)

MDL	LOCATION	322	327*	328*	329*	316*	329*	328*
	SAMPLE DEPTH	SURFACE	SURFACE	SURFACE	SURFACE	3 FEET	3 FEET	3 FEET
0.57	Heptachlor	17						
1.37	Dieldrin	5J						
1.37	4,4-DDE	6.9						
1.50	4,4-DDT	9.1						
1.07	Endrin Ketone							
0.70	alpha-Chlordane	48						
0.67	gamma-Chlordane	62						
8.33	Aroclor-1248		830	250	445			
6.99	Aroclor-1254			530				

J: Estimated

\*: Phase 1 RI Result.



WELL CONSTRUCTION DETAILS				
WELL No.	TOP OF PVC	DEPTH OF BORING (FEET)	SCREENED INTERVAL	DATE COMPLETED
HN24-S	122.73	59	48.6-58.6	09-04-91
HN24-I	125.80	158	148-158	10-25-91
HN24-I1	120.46	165	149-159	01-20-93
HN24-I2	122.89	165	150-160	01-28-93
HN25-S	125.69	59.3	49-59	09-05-91
HN25-I	125.51	130.4	120-130	11-21-91
HN25-D	124.82	210	200-210	01-22-92
HN26-S	125.00	55	44-54	09-05-91
HN26-I	124.84	155	115.3-125.3	10-30-91
HN27-S1	128.21	54.3	44-54	09-04-91
HN27-S2	124.88	61.5	51-61	12-04-92
HN27-S3	124.39	62	51-61	12-02-92
HN27-I1	127.28	155	100-110	11-04-91
HN27-I2	125.06	145	110-135	01-06-93
HN28-S	122.82	54.3	44-54	09-03-91
HN28-I	122.73	155	131-141	11-08-91
HN29-S	119.04	49.3	39-49	09-04-91
HN29-I	116.42	130.4	120-130	11-26-91
HN29-D	115.11	220	210-220	01-08-92
HN30-S	129.10	57.3	47-57	09-05-91
HN30-I	126.27	155	110-120	10-21-91
HN08-D	125.91	198.4	188-198	12-19-91

LOCATION OF ONSITE MONITORING WELLS  
 PHASE 2 - REMEDIAL INVESTIGATION FEASIBILITY STUDY  
 NWIRP, BETHPAGE, NEW YORK

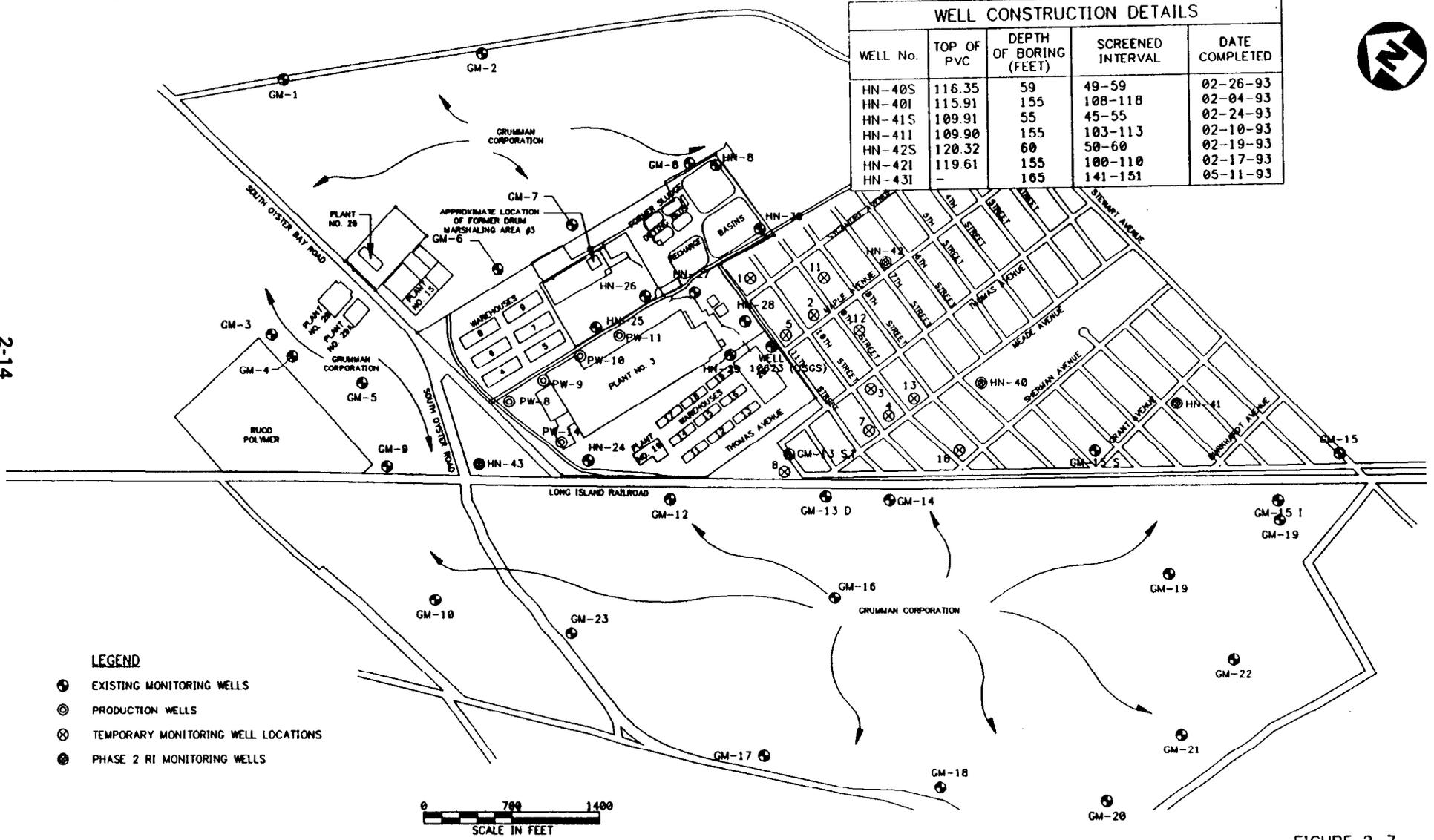
FIGURE 2-6



DATE: 01/13/00  
 DRAWN: JAC/ML/STL  
 CHECKED: JAC/ML/STL  
 SCALE: AS SHOWN

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WELL CONSTRUCTION DETAILS				
WELL No.	TOP OF PVC	DEPTH OF BORING (FEET)	SCREENED INTERVAL	DATE COMPLETED
HN-40S	116.35	59	49-59	02-26-93
HN-40I	115.91	155	108-118	02-04-93
HN-41S	109.91	55	45-55	02-24-93
HN-41I	109.90	155	103-113	02-10-93
HN-42S	120.32	60	50-60	02-19-93
HN-42I	119.61	155	100-110	02-17-93
HN-43I	-	165	141-151	05-11-93



- LEGEND**
- ⊕ EXISTING MONITORING WELLS
  - ⊙ PRODUCTION WELLS
  - ⊗ TEMPORARY MONITORING WELL LOCATIONS
  - ⊛ PHASE 2 RI MONITORING WELLS



OFFSITE MONITORING WELLS  
 PHASE 2 - REMEDIAL INVESTIGATION FEASIBILITY STUDY  
 NWIRP, BETHPAGE, NEW YORK

FIGURE 2-7



TABLE 4-3

OCCURRENCE AND DISTRIBUTION OF GROUNDWATER  
VOLATILE ORGANIC CONTAMINATION - SITE 1  
NWIRP BETHPAGE, NEW YORK (ug/l)

MDL	WELL LOCATION	HN-27S		HN-27I		HN-28S		HN-28I		HN-29S		HN-29I			HN-29D		U&GS	
	SAMPLING DATE	12/91	3/93: DRY	12/91	3/93	12/91	3/93: DRY	12/91	3/93	12/91	3/93	12/91	3/93	3/93 (dup)	2/92	3/93	12/91	3/93
0.91	Trichloroethene	16		13	4J	1,100		9	9J	780	340	6	17	17	11	13	12	100
1.00	Tetrachloroethene			2J		430		2J		3,600	1,400	2J		6J	10	26	11	28
2.29	1,1,1-Trichloroethane	8		3J		220				10,000	690	2J	4J		48		4J	31
1.67	1,1-Dichloroethane	10				29				880	120				4J			4J
4.34	1,1-Dichloroethene					9				260	30J				2J			
4.89	1,2-Dichloroethane					180				3,600	220				7			16
0.73	Ethylbenzene									3J								
0.82	Xylenes									19								
1.81	Toluene									39								

J: Estimated

MDL: Method Detection Limit

- NOTES: 1. MDL Applies only to results of 3/93.  
 2. A blank indicates a concentration below reported detection limits.  
 3. All samples were analyzed for TCL volatiles. Contaminants not listed were not found above reported detection limits.  
 4. Wells HN-27S and HN-28S were dry in 3/93; no groundwater samples could be obtained.

Rough Draft

TABLE 4-7

OCCURRENCE AND DISTRIBUTION OF GROUNDWATER  
VOLATILE ORGANIC CONTAMINATION - HN-24 AREA  
NWIRP BETHPAGE, NEW YORK (ug/l)

MDL	WELL LOCATION	HN-24S		HN-24I		HN-2411	HN-2412	HN-2413
	SAMPLING DATE	12/91	3/93	12/91	3/93	3/93	3/93	5/93
0.91	Trichloroethene	61	16	58,000	9,000	91	12,000	—
1.00	Tetrachloroethene	14	7J	9				—
2.29	1,1,1-Trichloroethane	8J		6J				—
4.34	1,1-Dichloroethene	2J		2J				—
1.61	Toluene			9				—
1.58	Carbon Tetrachloride			8				—

J: Estimated.

MDL: Method Detection Limit

- Notes: 1. MDL applies only to results of 3/93  
2. Blank indicates concentrations below reported detection limits.  
3. All samples were analyzed for TCL volatiles. Contaminants not listed were not found above report detection limits.

*Data not available*

Rough Draft

TABLE 4-13

OCCURRENCE AND DISTRIBUTION OF GROUNDWATER  
VOLATILE ORGANIC CONTAMINATION - OFFSITE (RESIDENTIAL NEIGHBORHOOD)  
NWIRP BETHPAGE, NEW YORK (ug/l)

MDL	WELL LOCATION	HN-40S	HN-40I		HN-41S	HN-41I	HN-42S	HN-42I
	SAMPLING DATE	3/93	3/93	3/93 (dup)	3/93	3/93	3/93	3/93
0.91	Trichloroethene		7J	8J				6J
1.00	Tetrachloroethene							2J
2.29	1,1,1-Trichloroethane					16		
1.57	1,1-Dichloroethane					14		
4.34	1,1-Dichloroethene					7J		
4.89	1,2-Dichloroethene							
1.61	Toluene	4J	7J	8J	7J	8J	4J	3J

J: Estimated

MDL: Method Detection Limit

- Notes: 1. MDL applies only to results of 3/93  
2. A blank indicates concentrations below reported detection limits.  
3. All samples were analyzed for TCL volatiles. Contaminants not listed were not found above report detection limits.

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TABLE 4-6

OCCURRENCE AND DISTRIBUTION OF SUBSURFACE SOIL  
VOLATILE ORGANIC CONTAMINATION - HN-24 AREA  
NWIRP BETHPAGE, NEW YORK (ug/kg)

MDL	BOREHOLE LOCATION	HN-2411					HN-2412			
	SAMPLING DEPTH (FT)	10	140	150	150 (DUP)	160	20	130	140	150
0.91	Trichloroethene	4J	17	8J	10J	3J			36	
1.61	Toluene	13J	27	12	16	6J		5J		
3.86	Carbon Disulfide		12J	11J	11J	12J				

J: Estimated

MDL: Method Detection Limit

- Notes: 1. Blanks indicate concentrations below reported detection limits.  
2. All samples were analyzed for TCL volatiles. Contaminants not listed were not found above reported detection limits.