

Bob Alexander *3*
03.01-06/05/87-²³⁰¹⁹00318 *6/12*

(804) 445-1814

6280
114307F

5 JUN 1987

North Carolina Division of Environmental
Management

Attn: R. Paul Wilms
Director

P.O. Box 27687
Raleigh, NC 27611-7687

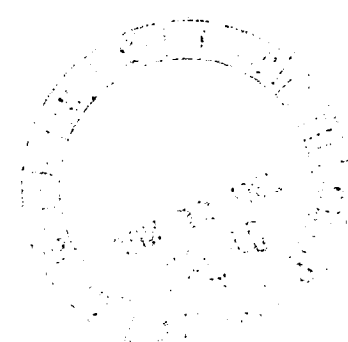
Re: Remedial Investigation/Feasibility Study (RI/FS) at the
Marine Corps Base, Camp Lejeune, North Carolina

Gentlemen:

We are conducting a RI/FS (formerly Confirmation Study) under the Installation Restoration program at several sites on the Marine Corps Base, Camp Lejeune. The study commenced in April 1984 and was accelerated for the Hadnot Point area when trichloroethene (TCE) was detected in several potable wells. You were informed of our preliminary findings in an April 25, 1986 letter and in meetings in July 1986 and January 1987. At the present time, our contractor is concluding his investigation in the Hadnot Point area and commencing an evaluation of feasible alternatives for remediation.

Under CERCLA Section 121, our remedial action is required to attain legally applicable or relevant and appropriate standards, requirements, criteria, or limitations (ARARs). We understand that these ARARs can be contaminant-specific, location-specific, or action-specific and that, for non-NPL sites, remedial actions must conform to state laws. We are hereby requesting your input on what ARARs are applicable to this particular site, so we can ensure our recommended alternative will achieve the level of cleanup desired.

To facilitate your evaluation, we have enclosed a brief description of the site and the results of our investigation to date. The contaminants of concern are TCE, 1,2-dichloroethane, 1,1-dichloroethene, trans-1,2-dichloroethene, tetrachloroethene, vinyl chloride, and benzene.



Our feasibility study is currently scheduled for completion in August 1987. We would like your response by July 15, 1987 to enable inclusion of your ARARs in the report. If you cannot meet the date, we will complete the study using those ARARs our consultant deems will satisfy the requirements of CERCLA. You will have the opportunity to comment on the draft feasibility study; we plan to give an informational briefing at Camp Lejeune in the August/September timeframe. The final version of the feasibility study will also be made available for public comment.

We will be happy to answer any additional questions you may have. Our point of contact is Cherryl Barnett, (804) 445-1814.

Sincerely,

J. R. BAILEY, P.E.
Head, Environmental Quality Branch
Utilities, Energy and Environmental
Division
By direction of the Commander

Encl:
(1) Site History Report

Copy to:
MARCORB Camp Lejeune ←
NAVFACENGCON (112)
CMC (Code LFL)

Environmental Science and
Engineering
P.O. Box ESE
Gainesville, FL 32602

Division of Health Services
Attn: Dr. Ronald Levine
Director
P.O. Box 2091
Raleigh, NC 27602-2091

SITE HISTORY

During the first phase of the Installation Restoration (formerly IACIP) program, eight potentially-contaminated sites were identified in the Hadnot Point industrial area, an area bounded by Holcomb Boulevard, Sneads Ferry Road, and the New River (see Attachment A). Based on the available evidence, five of these sites were recommended for further study to confirm the existence of contamination. The Phase II effort commenced in April 1984 with the installation of 17 shallow monitoring wells in the Hadnot Point area and sampling of groundwater, surface water, soils and sediment. A preliminary report dated December 1984 showed benzene in Potable Well 602 at 380 ppb.

Additional sampling by base and Department of Human Resources personnel confirmed the benzene and detected T-1,2-dichloroethene and trichloroethene (TCE) in Well 602. TCE was also detected in Wells 601, 608, 634, 637, 651, 652, and 653, all of which were shut down.

Low concentrations of volatile organic compounds (VOC) were detected in some of the shallow monitoring wells during the 1984 sampling. With the exception of the benzene from Site 22, however, it did not appear that any identified sites could be the source of the VOC contamination. Subsequently, we conducted a site survey to locate other potential sources and investigated these further during a soil gas survey.

The soil gas survey identified several areas where TCE was detected and three buildings where concentrations in the vicinity exceeded 10 ppm: Buildings 1202, 1601, and 1709. A network of shallow wells was installed to confirm the soil gas findings, including one at each contaminated potable well to determine if the well construction had contributed to the spread of contamination. These wells (shown in Attachment B) are being sampled three times for VOCs. Only the first set of data is available at this time; it is forwarded as Attachment C.

Concurrent with the site survey/soil gas effort, each contaminated potable well was sampled. From the data tabulated in Attachment D, we can surmise that degradation of the TCE to lesser chlorinated compounds is occurring and that, from two years of pumping inactivity, significant contamination appears to be limited to Wells 602, 608, and 651. Although Wells 651, 652, and 653 are located outside the Hadnot Point industrial area, they were included in the site and soil gas surveys. The only potential source identified in these areas was Lot 203, which is being investigated under the IR program as Site 6.

From the shallow groundwater data (Attachment C), we have identified zones of contamination in the water table aquifer at two of the three buildings targeted by the soil gas survey. Although the potable aquifer is described as semi-confined, neither USGS nor our contractor have been able to locate a continuous confining layer separating it from the water table aquifer in the Hadnot Point area. The distribution of TCE in the water table aquifer is not areally extensive because it may be sinking up to several hundred feet and being picked up by the potable wells.

To test this hypothesis, we are planning to install one 75-foot and one 150-foot well to form a cluster at each of the three buildings identified above. This work should commence within the next month. At the conclusion of this effort, we anticipate having enough data to complete the RI/FS for groundwater contamination in the Madnet Point area. Current projections are for a draft RI for the remaining sites on Camp Lejeune to be completed by mid-1988.



VICINITY MAP

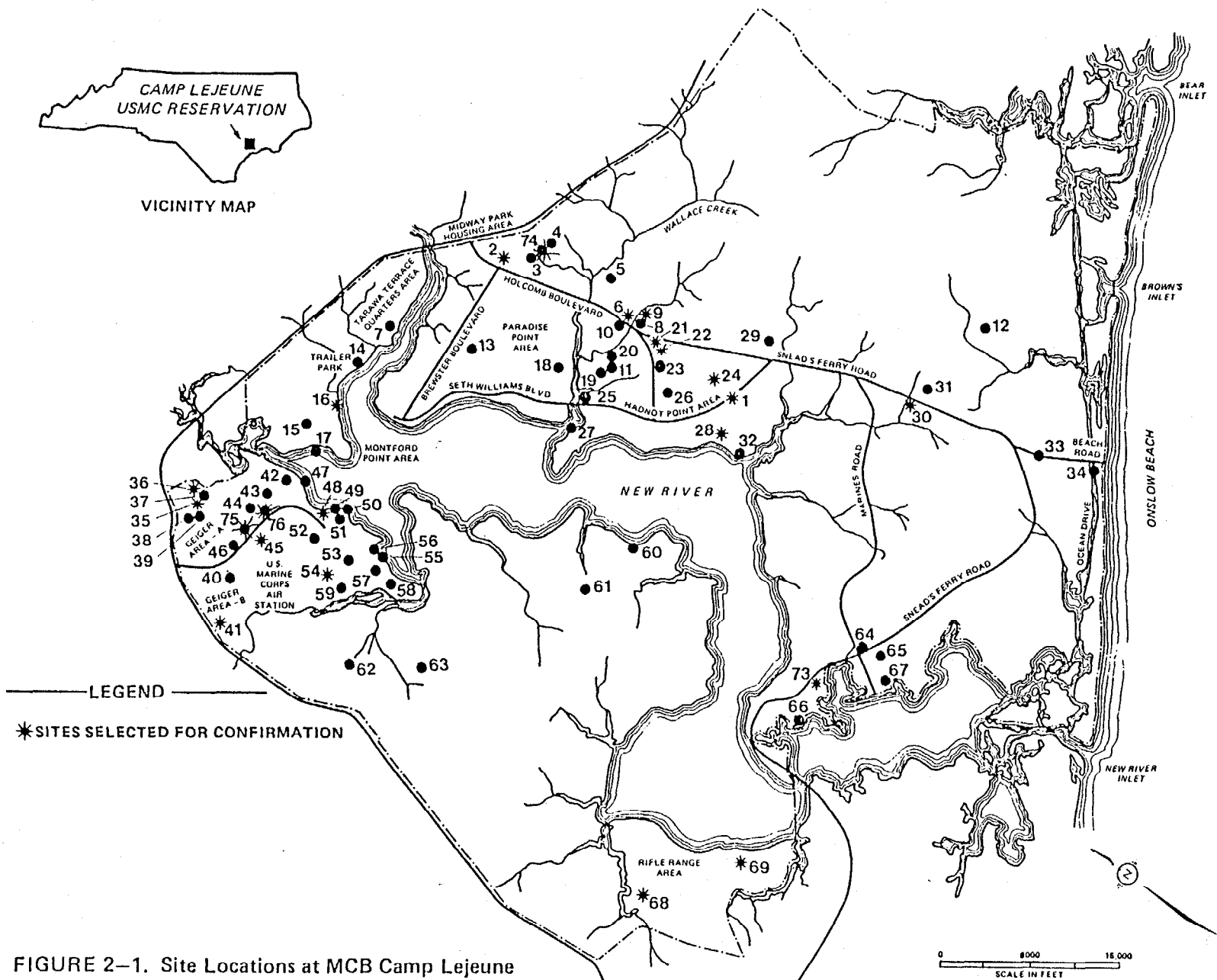
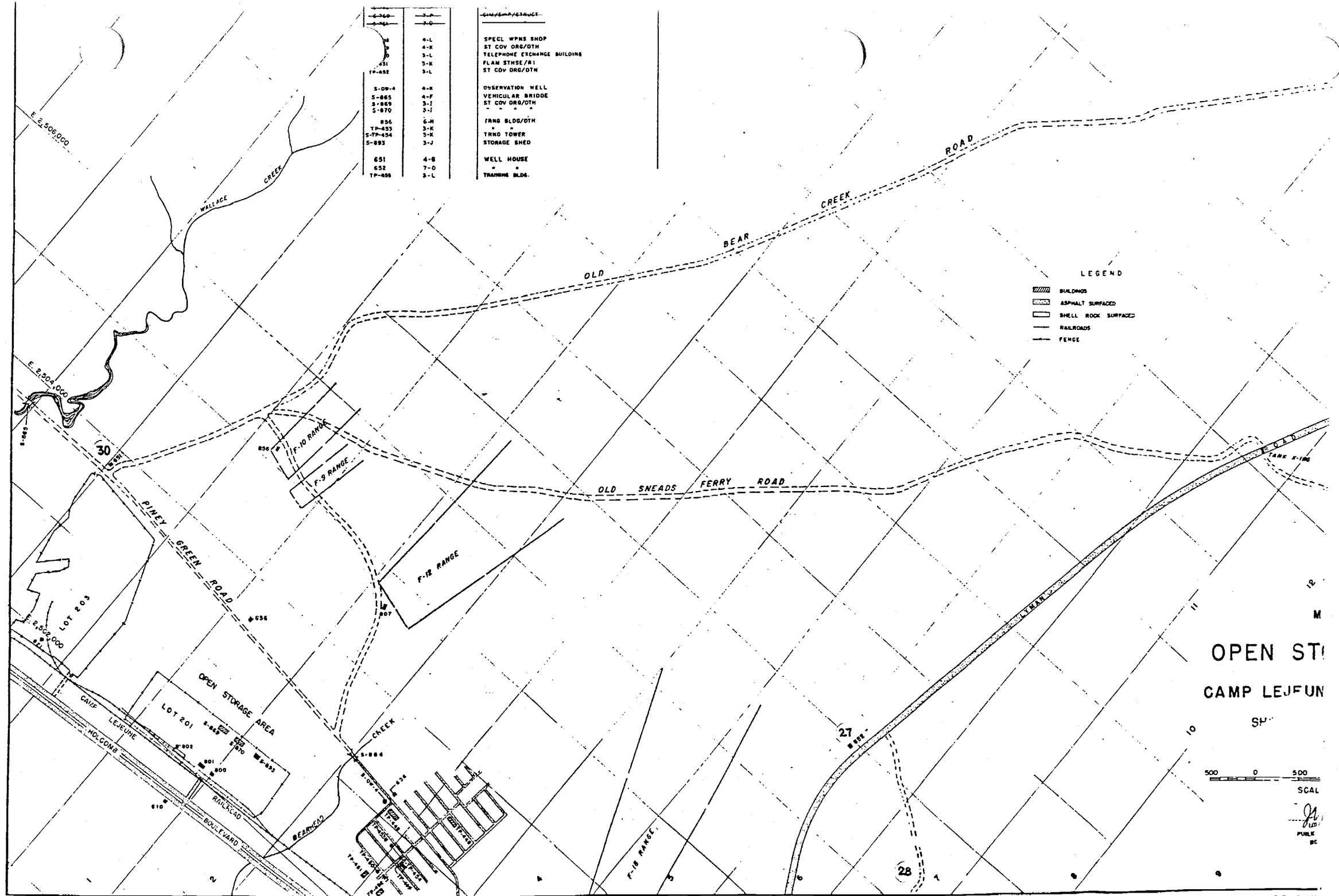


FIGURE 2-1. Site Locations at MCB Camp Lejeune

2-3

Attachment A

Figure 2. Additional Monitor Wells -- Soil Gas Investigation



SYMBOL	DESCRIPTION
4-L	SPECL WPNS SHOP
4-R	ST COV DRG/DTM
3-L	TELEPHONE EXCHANGE BUILDING
3-K	FLAM STNSE/R1
3-L	ST COV DRG/DTM
4-R	OBSERVATION WELL
4-F	VEHICULAR BRIDGE
3-T	ST COV DRG/DTM
3-J	FRNG BLDG/DTM
3-K	TRNG TOWER
3-J	STORAGE SHED
4-B	WELL HOUSE
7-O	TRAINING BLDG.
3-L	

LEGEND

[Hatched Box]	BUILDINGS
[Dotted Box]	ASPHALT SURFACED
[Stippled Box]	SHELL ROCK SURFACED
[Double Line]	RAILROADS
[Single Line]	FENCE

OPEN ST
CAMP LEJFUN
SP

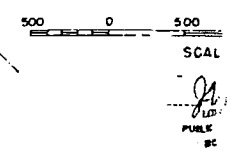


Figure 1. Location of Monitor Wells at Hadnot Point Industrial Area Installed After Soil Gas Investigation.

(All well numbers will be coded as HPGWxx)

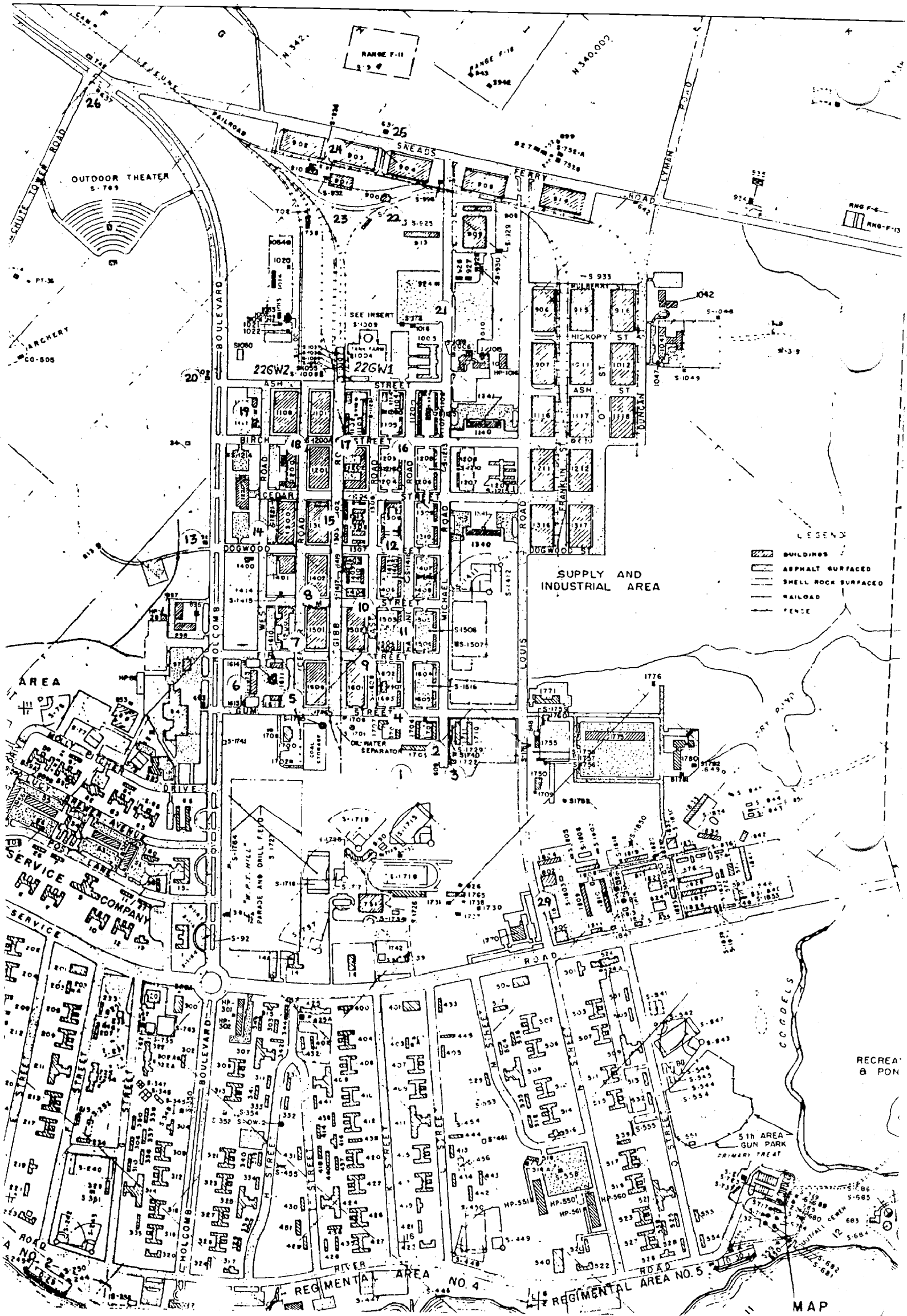
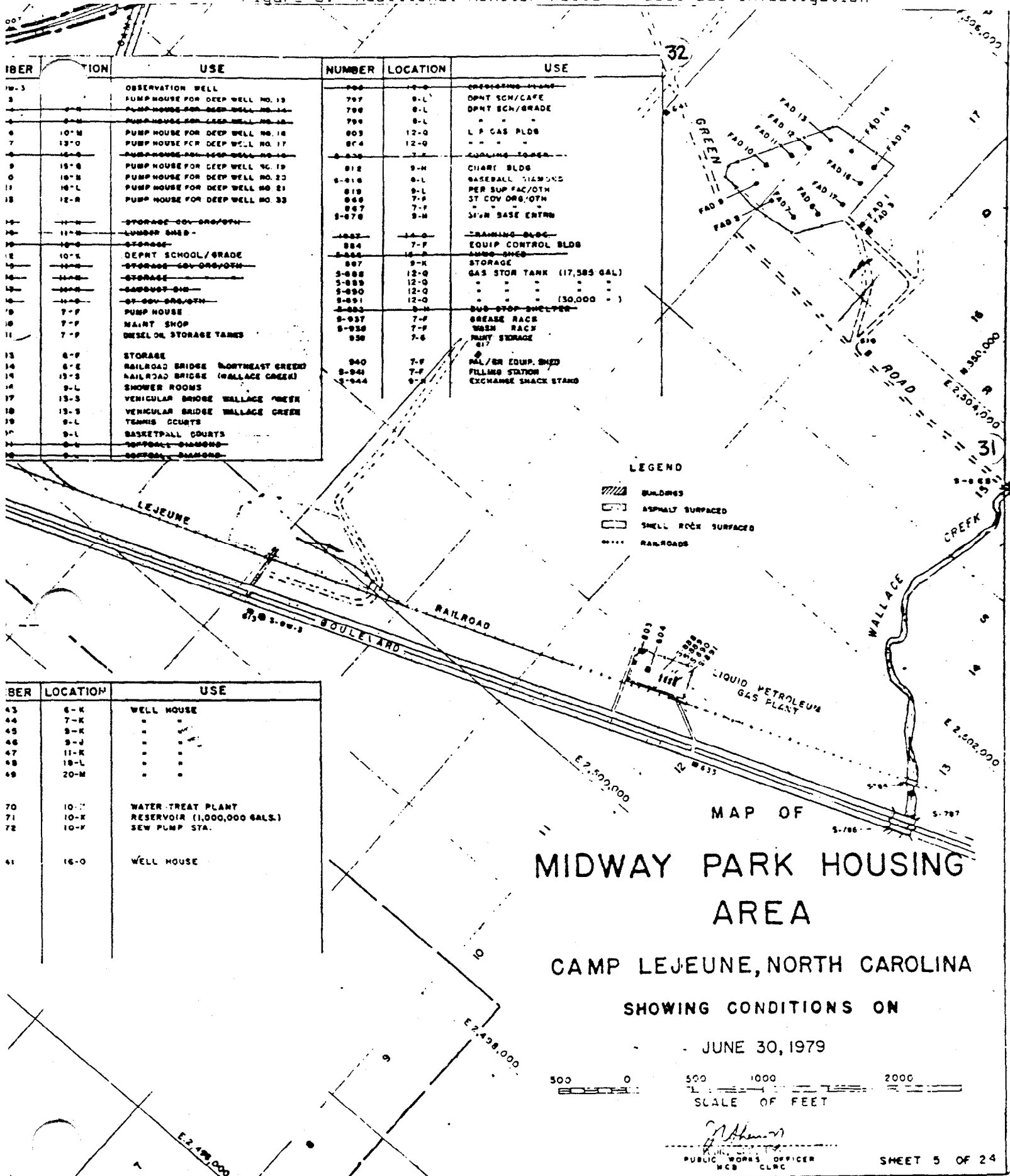


Figure 3. Additional Monitor Wells -- Soil Gas Investigation

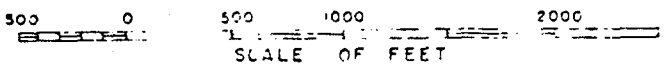


NUMBER	LOCATION	USE
707	8-L	CREATING HOUSE
708	8-L	DRNT SCH/GRADE
709	8-L	DRNT SCH/GRADE
803	12-Q	L P GAS PLDS
804	12-Q	" " " "
812	9-M	CHART BLDG
816	8-L	BASEBALL DIAMOND
818	8-L	PER SUP FAC/OTH
845	7-F	ST COV DRG/OTH
847	7-F	" " " "
848	8-M	SPIN BASE ENTRN
849	14-Q	TRAINING BLDG
854	7-F	EQUIP CONTROL BLDG
855	16-E	STORAGE
857	9-M	STORAGE
858	12-Q	GAS STOR TANK (17,585 GAL)
859	12-Q	" " " "
850	12-Q	" " " "
851	12-Q	" " " " (30,000 -)
852	8-M	BUS STOP SHELTER
853	7-F	GREASE RACK
854	7-F	WASH RACK
855	7-F	PAINT STORAGE
856	7-F	" " " "
857	7-F	" " " "
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NUMBER	LOCATION	USE
43	6-K	WELL HOUSE
44	7-K	" " " "
45	9-K	" " " "
46	9-J	" " " "
47	11-K	" " " "
48	18-L	" " " "
49	20-M	" " " "
70	10-T	WATER TREAT PLANT
71	10-K	RESERVOIR (1,000,000 GALS.)
72	10-F	SEW PUMP STA.
41	16-O	WELL HOUSE

MAP OF
MIDWAY PARK HOUSING AREA
 CAMP LEJEUNE, NORTH CAROLINA
 SHOWING CONDITIONS ON

JUNE 30, 1979



[Signature]
 PUBLIC WORKS OFFICER
 MCB CLRC

SHEET 5 OF 24

FOR OFFICIAL USE ONLY

PROJECT NUMBER 86447 0400
FIELD GROUP LJHP-1

PROJECT NAME NAVY - LEJEUNE
PROJECT MANAGER J.D. SHAMIS
LAB COORDINATOR JEFF SHAMIS

PARAMETERS	STORET # METHOD	SAMPLE ID/#														
		22GW1 LJHP-1	22GW2 LJHP-1	HPGW1 LJHP-1	HPGW2 LJHP-1	HPGW3 LJHP-1	HPGW4 LJHP-1	HPGW5 LJHP-1	HPGW6 LJHP-1	HPGW7 LJHP-1	HPGW8 LJHP-1	HPGW9 LJHP-1	HPGW10 LJHP-1	HPGW11 LJHP-1	HPGW12 LJHP-1	HPGW13 LJHP-1
UNITS		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
DATE		01/09/87	01/09/87	01/09/87	01/09/87	01/09/87	01/12/87	01/12/87	01/12/87	01/12/87	01/13/87	01/14/87	01/14/87	01/14/87	01/14/87	01/14/87
TIME		11:02	10:05	12:05	13:20	14:25	10:00	12:05	14:08	16:40	14:55	10:25	11:45	12:55	13:59	15:55
LEAD, TOTAL	1051 UG/L ICAP															
OIL&GR, IR	560 MG/L	7	0.8	0.7	0.7	0.8	0.3	0.9	0.2	3	0.1	32	0.4	0.3	0.2	0.2
BENZENE	34030 UG/L GMS	12000	<1.0	43	12	1.4	25	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<1.0	<1.0	<1.0
BROMODICHLOROMETHANE	32101 UG/L GMS	<22	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<220	<2.2	<2.2	<2.2	<2.2
BROMOFORM	32104 UG/L GMS	<47	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<470	<4.7	<4.7	<4.7	<4.7
BROMOMETHANE	34413 UG/L GMS	<58	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<580	<5.8	<5.8	<5.8	<5.8
CARBON TETRACHLORIDE	32102 UG/L GMS	<28	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<280	<2.8	<2.8	<2.8	<2.8
CHLORO BENZENE	34301 UG/L GMS	<60	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<600	<6.0	<6.0	<6.0	<6.0
CHLOROETHANE	34311 UG/L GMS	<82	<8.2	<8.2	<8.2	<8.2	<8.2	<8.2	<8.2	<8.2	<8.2	<820	<8.2	<8.2	<8.2	<8.2
2-CHLOROETHYL VINYLETHER	34576 UG/L GMS	<150	<26	<15	<15	<15	<15	<15	<15	<15	<15	<1500	<15	<15	<15	<15
CHLOROFORM	32106 UG/L GMS	<16	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<160	<1.6	3.2	<1.6	<1.6
CHLOROMETHANE	34418 UG/L GMS	<43	<4.3	<4.3	5.0	<4.3	<4.3	<4.3	<4.3	<4.3	7.2	<430	<4.3	<4.3	<4.3	<4.3
DIBROMOCHLOROMETHANE	32105 UG/L GMS	<31	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<310	<3.1	<3.1	<3.1	<3.1
1,1-DICHLOROETHANE	34496 UG/L GMS	<47	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<470	<4.7	<4.7	<4.7	<4.7
1,2-DICHLOROETHANE	34531 UG/L GMS	<28	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<280	<2.8	<2.8	<2.8	<2.8
1,1-DICHLOROETHYLENE	34501 UG/L GMS	<28	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<280	<2.8	<2.8	<2.8	<2.8
T-1,2-DICHLOROETHENE	34546 UG/L GMS	<16	<1.6	<1.6	<1.6	<1.6	1.9	<1.6	<1.6	<1.6	<1.6	740	<1.6	13	<1.6	<1.6
1,2-DICHLOROPROPANE	34541 UG/L GMS	<60	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<600	<6.0	<6.0	<6.0	<6.0
CIS-1,3-DICHLOROPROPENE	34704 UG/L GMS	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<5.0	<5.0	<5.0
T-1,3-DICHLOROPROPENE	34699 UG/L GMS	<64	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<640	<6.4	<6.4	<6.4	<6.4

Attachment

PROJECT NUMBER 86447 0400
FIELD GROUP LJHP-1PROJECT NAME NAVY - LEJEUNE
PROJECT MANAGER J.D. SHAMIS
LAB COORDINATOR JEFF SHAMIS

PARAMETERS	STORET # UNITS METHOD	SAMPLE ID/#			
		HPGW29 LJHP-1 31	HPGW30 LJHP-1 32	HPGW31 LJHP-1 33	HPGW32 LJHP-1 34
DATE		01/20/87	01/20/87	01/20/87	01/20/87
TIME		11:20	15:25	16:04	16:55
LEAD, TOTAL	1051		NRQ	NRQ	NRQ
UG/L	ICAP				
OIL & GR, IR	560	0.2	NRQ	NRQ	NRQ
MG/L	1				
BENZENE	34030	<1.0	<1.0	<1.0	<1.0
UG/L	GMS				
BROMODICHLOROMETHANE	32101	<2.2	<2.2	<2.2	<2.2
UG/L	GMS				
BROMOFORM	32104	<4.7	<4.7	<4.7	<4.7
UG/L	GMS				
BROMOMETHANE	34413	<5.8	<5.8	<5.8	<5.8
UG/L	GMS				
CARBON TETRACHLORIDE	32102	<2.8	<2.8	<2.8	<2.8
UG/L	GMS				
CHLORO BENZENE	34301	<6.0	<6.0	<6.0	<6.0
UG/L	GMS				
CHLOROETHANE	34311	<8.2	<8.2	<8.2	<8.2
UG/L	GMS				
2-CHLOROETHYL VINYLET HER	34576	<15	<15	<15	<15
UG/L	GMS				
CHLOROFORM	32106	<1.6	<1.6	7.0	<1.6
UG/L	GMS				
CHLOROMETHANE	34418	<4.3	<4.3	<4.3	<4.3
UG/L	GMS				
DIBROMOCHLOROMETHANE	32105	<3.1	<3.1	<3.1	<3.1
UG/L	GMS				
1,1-DICHLOROETHANE	34496	<4.7	<4.7	<4.7	<4.7
UG/L	GMS				
1,2-DICHLOROETHANE	34531	<2.8	<2.8	<2.8	<2.8
UG/L	GMS				
1,1-DICHLOROETHYLENE	34501	<2.8	<2.8	<2.8	<2.8
UG/L	GMS				
T-1,2-DICHLOROETHENE	34546	<1.6	<1.6	<1.6	<1.6
UG/L	GMS				
1,2-DICHLOROPROPANE	34541	<6.0	<6.0	<6.0	<6.0
UG/L	GMS				
CIS-1,3-DICHL'PROPENE	34704	<5.0	<5.0	<5.0	<5.0
UG/L	GMS				
T-1,3-DICHL'PROPENE	34699	<6.4	<6.4	<6.4	<6.4
UG/L	GMS				

PROJECT NUMBER 86447 0400
FIELD GROUP LJHP-1

PROJECT NAME NAVY - LEJEUNE
PROJECT MANAGER J.D. SHAMIS
LAB COORDINATOR JEFF SHAMIS

SAMPLE ID/#

PARAMETERS	STORET # METHOD	HPGW29	HPGW30	HPGW31	HPGW32
		LJHP-1 31	LJHP-1 32	LJHP-1 33	LJHP-1 34
DATE		01/20/87	01/20/87	01/20/87	01/20/87
TIME		11:20	15:25	16:04	16:55
ETHYLBENZENE	34371	<7.2	<7.2	<7.2	<7.2
UG/L	GMS				
METHYLENE CHLORIDE	34423	<2.8	<2.8	<2.8	<2.8
UG/L	GMS				
1,1,2,2-TE'CH'ETHANE	34516	<4.1	<4.1	<4.1	<4.1
UG/L	GMS				
TETRACHLOROETHENE	34475	<3.0	<3.0	<3.0	<3.0
UG/L	GMS				
TOLUENE	34010	<6.0	<6.0	<6.0	<6.0
UG/L	GMS				
1,1,1-TRICHL'ETHANE	34506	<3.8	<3.8	<3.8	<3.8
UG/L	GMS				
1,1,2-TRICHLOROETHAN	34511	<5.0	<5.0	<5.0	<5.0
E UG/L	GMS				
TRICHLOROETHENE	39180	<3.0	<3.0	<3.0	<3.0
UG/L	GMS				
TRICHLOROFLUOROMETHA	34488	<3.2	<3.2	<3.2	<3.2
NE UG/L	GMS				
VINYL CHLORIDE	39175	<1.0	<1.0	<1.0	<1.0
UG/L	GMS				
ACROLEIN	34210	<100	<100	<100	<100
UG/L	GMS				
ACRYLONITRILE	34215	<100	<100	<100	<100
UG/L	GMS				
DICHLORODIFLUOROMETH	34668	<10	<10	<10	<10
ANE UG/L	GMS				
M-XYLENE	98553	<12	<12	<12	<12
UG/L	GMS				
O-AND/OR-P XYLENE	98554	<12	<12	<12	<12
UG/L	GMS				
METHYL ETHYL KETONE	81595	<48	<48	<48	<48
UG/L	GMS				
METHYL ISOBUT'KETONE	81596	<12	<12	<12	<12
UG/L	GMS				

PROJECT NUMBER 86447 0400
FIELD GROUP LJPWIC

PROJECT NAME NAVY - LEJEUNE
PROJECT MANAGER J.D. SHAMIS
LAB COORDINATOR JEFF SHAMIS

PARAMETERS	STORET #	SAMPLE ID/#							
		601	602	608	634	651	652	653	
UNITS	METHOD	LJPWIC	LJPWIC	LJPWIC	LJPWIC	LJPWIC	LJPWIC	LJPWIC	LJPWIC
		11	12	13	14	16	17	18	
DATE		11/12/86	11/12/86	11/12/86	11/12/86	11/12/86	11/12/86	11/12/86	11/12/86
TIME		13:56	13:37	14:41	12:57	12:23	00:00	12:01	
ENDRIN	39390	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.010	
UG/L	EC								
ENDRIN ALDEHYDE	34366	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.025	
UG/L	EC								
HEPTACHLOR	39410	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.010	
UG/L	EC								
HEPTACHLOR EPOXIDE	39420	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.010	
UG/L	EC								
TOXAPHENE	39400	<0.738	<0.738	<0.738	<0.738	<0.738	<0.738	<1.18	
UG/L	EC								
PCBS, WATER	39516	<0.313	<0.313	<0.313	<0.313	<0.313	<0.313	<0.500	
UG/L	EC								
BENZENE	34030	<4.4	50	<4.4	<4.4	<4.4	<1.0	<4.4	
UG/L	GMS								
BROMODICHLOROMETHANE	32101	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	
UG/L	GMS								
BROMOFORM	32104	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	
UG/L	GMS								
BROMOMETHANE	34413	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	
UG/L	GMS								
CARBON TETRACHLORIDE	32102	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	
UG/L	GMS								
CHLOROBENZENE	34301	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	
UG/L	GMS								
CHLOROETHANE	34311	<8.2	<8.2	<8.2	<8.2	<8.2	<8.2	<8.2	
UG/L	GMS								
2-CHLOROETHYL VINYLETHER	34576	<15	<15	<15	<15	<15	<15	<15	
UG/L	GMS								
CHLOROFORM	32106	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	
UG/L	GMS								
CHLOROMETHANE	34418	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	
UG/L	GMS								
DIBROMOCHLOROMETHANE	32105	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	
UG/L	GMS								
1,1-DICHLOROETHANE	34496	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	
UG/L	GMS								
1,2-DICHLOROETHANE	34531	<2.8	9.2	<2.8	<2.8	<2.8	<2.8	<2.8	
UG/L	GMS								
1,1-DICHLOROETHYLENE	34501	<2.8	<2.8	<2.8	<2.8	7.0	<2.8	<2.8	
UG/L	GMS								

Attached

PROJECT NUMBER 86447 0400
FIELD GROUP LJPWIC

PROJECT NAME NAVY - LEJEUNE
PROJECT MANAGER J.D. SHAMIS
LAB COORDINATOR JEFF SHAMIS

PARAMETERS	STORET #	SAMPLE ID/#						
		601	602	608	634	651	652	653
UNITS	METHOD	LJPWIC	LJPWIC	LJPWIC	LJPWIC	LJPWIC	LJPWIC	LJPWIC
		11	12	13	14	16	17	18
DATE		11/12/86	11/12/86	11/12/86	11/12/86	11/12/86	11/12/86	11/12/86
TIME		13:56	13:37	14:41	12:57	12:23	00:00	12:01
T-1,2-DICHLOROETHENE	34546	<1.6	14	8.5	2.9	140	<1.6	<1.6
UG/L	GMS							
1,2-DICHLOROPROPANE	34541	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
UG/L	GMS							
CIS-1,3-DICHLOROPROPENE	34704	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
UG/L	GMS							
T-1,3-DICHLOROPROPENE	34699	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
UG/L	GMS							
ETHYLBENZENE	34371	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2
UG/L	GMS							
METHYLENE CHLORIDE	34423	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
UG/L	GMS							
1,1,2,2-TETRACHLOROETHANE	34516	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1
UG/L	GMS							
TETRACHLOROETHENE	34475	<4.1	<4.1	<4.1	<4.1	45	<3.0	<4.1
UG/L	GMS							
TOLUENE	34010	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
UG/L	GMS							
1,1,1-TRICHLOROETHANE	34506	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8
UG/L	GMS							
1,1,2-TRICHLOROETHANE	34511	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
UG/L	GMS							
TRICHLOROETHENE	39180	<1.9	2.2	66	<1.9	32	<3.0	2.6
UG/L	GMS							
TRICHLOROFUOROMETHANE	34488	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2
UG/L	GMS							
VINYL CHLORIDE	39175	<4.9	<4.9	<4.9	<4.9	140	<1.0	<4.9
UG/L	GMS							
ACROLEIN	34210	<100	<100	<100	<100	<100	<100	<100
UG/L	GMS							
ACRYLONITRILE	34215	<100	<100	<100	<100	<100	<100	<100
UG/L	GMS							
DICHLORODIFLUOROMETHANE	34668	<10	<10	<10	<10	<10	<10	<10
UG/L	GMS							
M-XYLENE	98553	<12	<12	<12	<12	<12	<12	<12
UG/L	GMS							
O-AND/OR-P XYLENE	98554	<12	<12	<12	<12	<12	<12	<12
UG/L	GMS							
METHYL ETHYL KETONE	81595	<48	<48	<48	<48	<48	<48	<48
UG/L	GMS							