

0461

**INSTALLATION RESTORATION DIVISION**  
**UNITED STATES MARINE CORPS**

Commanding General  
AC/S EMD (IRD)  
Marine Corps Base  
PSC Box 20004  
Camp Lejeune, NC 28542-0004  
(910) 451-5068

To: nmp, bwr  
From: Mick Senus (ext 411)  
Date: 06 May 1996  
re: HP-638 at Site 1 (OU 7)

**Located:** *along the south side of the Main Service Road and 2 miles east of its intersection with Sneads Ferry Road, adjacent to the southern disposal area within HPIA.*  
Site 1 is the French Creek Liquids Disposal Area. The site is 7-8 acres used since the 1940s to pour vehicle liquid wastes onto the ground. Batteries and battery acid were also dumped here. 5,000-20,000 gal of waste POL and 1,000-10,000 gal of battery acid is the dumped estimation. Pesticides were also dumped and/or stored.

**Well Characteristics**

Installed: 1969  
Well depth: 196-ft bgs  
Elevation: 17 msl  
Water level: 20.1-ft bgs  
Diameter: 8 inches  
Type of finish: gravel pack  
Screened intervals: 106-114, 126-134, 150-158, 162-170, 176-184, 188-196  
Production: 201 gpm

**Well Contamination History**

RI report, page 2-4. (Baker, Env). July 95.  
During the July 1984 round, HP-638 did not exhibit VOC contamination above laboratory detection. No other target contaminants were found.

Wellhead Management Program, Engineering Study 91-36 (Geophex, Inc). March 93.  
No contaminant detected by Holcomb Blvd Water Treatment Plant on 21 Nov 1991.

**CLW**

0000002674

Wellhead Monitoring Study, Engineering Study 92-34 (Greenhorne & O'Mara, Inc). Jan 94.  
In 9/92 benzene was found at a concentration of 2 ppb which was less than the MCL but higher than 2L standard. There were hits for Fe, Pb, Mg, chloride, fluoride, MBAs, nitrates, sulfates, TDSs but they did not exceed standards. Except for benzene, most wells have this type of chemistry (S. Miller)

Sampling and Analysis of Groundwater at MCB (Bionomics Lab). Dec 95.  
No contaminants found.

#### Comments from Water Treatment Supervisor

Stanley Miller (5/8/96) The well was severed from the system on 11/10/92. He just took the elbow off. It would take \$100,000 to install a new well. But only \$8-10,000 to put an auxiliary engine back on. The old one was cannibalized. This well and others in the area did/would go to Bldg 20, the water treatment plant.

HP-655 was taken off line because it caved in. There is a well field to the left of Sneads Ferry Road towards Onslow Beach. Other than HP-655 there has been no problem.

At HP-638, there is an old tin building (GP-21) 150-ft to the west and 200-ft south of the well house there is an area where trucks and equipment used to be washed. Benzene may have shown up because of washed off fuel at this spot. Benzene can also come from the manufacture of solvents and pesticides. To the best of his knowledge this activity no longer exists. All buildings were vacant on his last visit.

#### Recommendations

The well should remain open and put back on line. Because the sample taken in 1992 may be a potential false positive, one more round of confirmatory sampling may be useful. There are no other analysis that indicate contamination before or after this date. Unless other evidence or sampling indicates there is contamination in the well since 1992, the well could be considered clean.

Cost of permanently closing this well and installing a entirely new well should be considered.

Mick,

I concur w/ your recommendation - please proceed.  
When sample results are received, draft Htr to  
DWO/Facilities Dept. w/ recommendation (based on  
analysis). Staff work provided on this subject is  
superb. Recommendation is especially appreciated.  
It's nice to tackle a problem and get a solution.

Keep up the good work,

CLW

N 0000002675  
5.20