

DEPARTMENT OF THE NAVY  
*Memorandum*

MAIN

DATE: 27 July 1987

FROM: Utilities Systems General Foreman

TO: Director, Utilities Branch  
Via: Utilities General Foreman

SUBJ: INFORMATION CONCERNING RAW WATER WELLS; REQUEST FOR

1. The Navy Assessment and Controls of Installation Pollutants (NACIP) Program began the sampling of raw water wells aboard Marine Corps Base, Camp Lejeune in late 1984. Fifteen raw water wells have been discovered to contain Volitional Organic Contaminates (VOC's) of different levels and different types.

2. The following raw water wells were secured on the dates indicated:

602	-	11-30-84	651	-	2-4-85
601 renumb.		12-6-84	RR-227 renumb.-		2-4-85
608 <sup>660</sup>	-	12-6-84	RR-229		
634	-	12-14-84	TT-26	-	2-8-85
637	-	12-14-84	TT-23	-	2-8-85
TT-25	-	1-14-87	652	-	2-8-85
645	-	1-13-87	653	-	2-8-85
AS-106	-	1-13-87	AS-4150	-	2-4-85

3. The approximate cost of a new well is \$85,000.00. This equates to \$1,275,000.00 of equipment not being utilized with possible down time equaling years in the future. The following questions are of immediate concern and need to be addressed.

a. Are we going to attempt to treat VOC's either point of use, at well head, or in plant treatment?

b. Are we going to attempt to clean up VOC's?

c. If clean up is determined, will this re-claim raw water wells in future?

d. If we are not going to re-claim the secured wells, a determination should be made to re-use well pumps, auxiliary motors and applicable equipment. Would re-locating well pumps transfer VOC's pollution from one well to another? Continued down time of this equipment will ultimately preclude it from ever re-starting.

e. RR-227 was re-numbered RR-229. During initial sampling, the well contained tri-chlorethane. This chemical was believed to have been left over by the drilling process. Subsequently, it was recommended a vigorous flushing program be undertaken to eliminate the problem. This was accomplished and it was our understanding sub-

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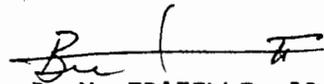
sequent testing showed no trace of VOC's. Can this well be re-started and utilized?

f. 645 was discovered to have benzene. Further investigation revealed a leak in the underground copper tubing feeding gasoline to the auxiliary motor. The line was replaced. Can this well be re-started?

g. Wells 634 and 637 were sampled 3 times. 2 out of three revealed no VOC's. Can they be re-started?

h. Well 652 had 9.0 ppb VOC's and well 653 had 5.5 ppb VOC's. Are we going to use 0.0 ppb as the limit to secure? Is this amount which equals less than 1.0 ppm determined to be too much to run well?

4. We are quickly approaching 3 years since the first of the 15 wells were secured. From my vantage point, these questions need addressing and should be of command interest and action.

  
B. M. FRAZELLE, II

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