

Date: 8 September 1982

Memorandum for the Record

From: Ms. Betz, Quality Control Lab., Environmental Section, NREAB, BMaintDiv

Subj: 18 March 1982 Sampling of Suspected Chemical Dump; Results of

1. On 18 March 1982, samples were taken of the three test wells at the Dump at TLZ Owl, the three raw water wells at the Rifle Range and delivered water from the Rifle Range Water Treatment Plant. Purgeable organics were run on all samples. Pesticides and PCBs were run on all but wells 45 and 47. The delivered water was also analyzed for more organics, metals, cyanides, asbestos and phenols. Below is a break down of individual samples and how these results compare to the two samplings of 10 April 1981 and 20 May 1981. The 30 March 1981 sampling is not discussed since those results are suspected to be erroneous due to possible sample container contamination. Purgeable organics were the only parameters checked in 1981.

2. Test Well 15 showed 1.07ppb Methylene Chloride and 1200ppb PCB. For 10 April 1981, it showed 2ppb Methylene Chloride, and for 20 May 1982 it was clean.

3. Below is a table comparing the results of Test Well 16:

Parameter	18 Mar 1982	20 May 1982	10 Apr 1982
Benzene	0	77.9	*
Toluene	3.86	316	52
1,1-Dichloroethane	9.0	0	38
1,2-Dichloroethane	10.14	0	52
1,1-Dichloroethylene	15.3	0	74
1,1,1-Trichloroethane	8.34	33.2	*
Trichloroethylene	2.04	15.6	*
Trichlorofluoromethane	0	0	*
1,1,2,2-Tetrachloroethane	0	1.8	*
Methylene Chloride	0	0	13
PCB	3000	*	*

Units\*ppbs  
\*-No Results

4. Test Well 17 was not collected in 1981, so the 18 March 1982 sample is the only results available. The results are listed below. Most of the levels of organics are the highest found.

Toluene	1.68 ppb
Methylene Chloride	8.29 ppb
1,1-Dichloroethane	89.58 ppb
1,2-Dichloroethane	114.0 ppb
1,1-Dichloroethylene	182.52 ppb
1,1,1-Trichloroethane	52.0 ppb
Trichlorofluoromethane	1.42 ppb

5. Raw water well #47 for 10 April 1981 and 18 March 1982 showed no contaminants. **CLW**

6. Raw water well #45 for 10 April 1981 showed 4ppb Methylene Chloride and for 18 March 1982 it showed 0.14ppb. No other contaminants were found. **0000000835**

7. Raw water well #97 showed 17ppb of Chloroform and 2ppb of Trichloroethylene for 10 April 1981 and showed nothing for chloroform or trichloroethylene for 18 March 1982. It showed no toluene or 1,1-Dichloroethane for 10 April 1981, but it showed 10.0ppb and 20.0ppb, respectively, for 18 March 1982. The only parameter found both times was Methylene Chloride with 6ppb for 10 April 1981 and 4.64ppb for 18 March 1982.

8. The finished water at RR-85, Rifle Range Water Treatment Plant, showed 17ppb of chloroform and 3ppb Methylene Chloride for 10 April 1981, which could be related to the concentrations of these chemicals in raw water well 97. Since that well has not been used, except in emergencies. The 18 March 1982 finished water showed nothing but 1000ppb of PCB. The PCB analysis is believed erroneous since it has only appeared once.

  
Elizabeth A. Betz  
Supervisory Chemist

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TO BMO  
ABMO BOE

AREA:  
Let's discuss.  
BOE

CLW

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Juryal.

This is the original  
of the letter I sent over  
before.

(B)

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Danny,

See Mr Elston's Note

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