

MEMORANDUM

To H.F.P., R.J.T.
From C.O.O.
Subject ARSENIC SUPPRESSION

Date APRIL 26, 1976
Ref. _____

Abstract: a further study into the use of FeCl_3 and NH_4OH as a suppressant in the CPW. *CPB*

Procedure: 1000 ml samples of CPW were treated with varying amounts of FeCl_3 and a constant amount of NH_4OH .

Data:

SD	Amount FeCl_3 (g)	Amount NH_4OH (ml)	pH	Fe	As
CPW	0	0	8.0	64	1140
1	15	0	6.3	21.8	55
2	20	0	5.5	170	38
3	25	0	4.4	440	49
1A	15	10	7.3	1.0	49
2A	20	10	7.0	1.5	29
3A	25	10	7.0	.6	17

Note: 15 g FeCl_3 3100 ppm Fe
20 g FeCl_3 4132 ppm Fe
25 g FeCl_3 5165 ppm Fe

Conclusions as shown in the above data the arsenic suppresses very readily
after the addition of FeCl_3 to the CPW a vast amount of HCN gas was noted with the use of a HCN gas Drager tube. Therefore if such a method of suppress^{ion} was to be employed it would have to be done in a closed system.