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From C.O.O.

Ref.

Subject ARSENIC SUPPRESSION

Abstract to determine the use of FeCl_3 and NH_4OH as an arsenic suppressant for the D.T.B.

Procedure D.T.B. was collected and subjected to various amounts of FeCl_3 and a constant amount of NH_4OH .

Data

SD	Amount FeCl_3 (g)	Amount NH_4OH (ml)	pH	ppm Fe	ppm As	Avail Fe/ As Removed
DTB	0	0	7.9	57	1540	1:1
1	5	0	7.7	6.1	480 69%	= 1:1
2	10	0	7.6	3.6	180 88%	= 1.5:1
3	15	0	7.5	3.7	160 90%	= 2.2:1
1A	5	10	8.9	67.0	128 92%	= .7:1
2A	10	10	8.1	4.5	58.5 96%	= 1.4:1
3A	15	10	7.3	.35	40 97.4%	= 2.1:1

N.B. all test sample sizes 1000 ml

5 g FeCl_3 = 1033 ppm Fe

10 g FeCl_3 = 2066 ppm Fe

15 g FeCl_3 = 3099 ppm Fe 2:1 by weight.

Conclusions by approaching the 5:1 Fe/As ratio it would seem evident that the suppression of arsenic to low levels is possible in the D.T.B. which is shown in the above data at a 2:1 ration. Therefore more tests will be run to substantiate the above data.