

To M&P ; D&D ; J&A ; File

Date Jan. 2nd, 1963

From JOF

Ref.

Subject Waste Solutions from Various Mill Circuits

The following data was obtained from daily samples cut over a 24hr. period, and composited on a weekly basis.

Period: December 14th - December 20th inclusive

<u>Product</u>	<u>Estimated Tonnage</u>	<u>pH</u>	<u>Assay As (p.p.m.)</u>	<u>Soluble As Discarded lb. per day</u>
Calcine W.T.O. (Dorrco)	195 tpd	4.6	112.5	43.8
Calcine W.T.O. (Mill)	601 tpd	5.6	6.4	7.6
H.C.D. - W.T.O.	210 tpd	5.7	73.4	30.8

As content in the Hot Cottrell Dust during this period assayed 10.89% As.

A precipitation test was made on a sample of equal parts Calcine W.T.O. (Dorrco) and H.C.D. - W.T.O. solutions. Test results indicated 91.5 percent of the arsenic was precipitated by adjusting the pH to 8.6 with lime. Indicated CaO consumption was 1.5 lb. per ton of solution treated.

A sample of Hot Cottrell Dust was pulped with Calcine W.T.O. (Dorrco) solution and agitated for 3 hours. The As content of the solution increased from 112.5 p.p.m. to 319.0 p.p.m. The pH of the solution increased from 4.6 to 5.4

Period: December 21st - December 27th inclusive

<u>Product</u>	<u>Estimated Tonnage</u>	<u>pH</u>	<u>Assay As ( p.p.m. )</u>	<u>Soluble As Discarded lb. per day</u>
Calcine W.T.O. (Dorrco)	193 tpd	3.5	124.6	48.0

# MEMORANDUM

To .....

Date .....

From .....


Ref. ....

Subject (2) ~~Waste Solutions from Various Mill Circuits~~

Calcine W.T.O. (Mill)	570 tpd	5.4	8.4	9.6
H.C.D. - W.T.O.	190 tpd	5.2	148.3	56.3

As content of the Hot Cottrell Dust during this period was 7.72 percent.

A sample of Hot Cottrell Dust was pulped with Calcine W.T.O. (Darrco) solution and agitated for 3 hours. The As content of the solution increased from 124.6 p.p.m. to 145.9 p.p.m. The pH of the solution increased from 3.5 to 4.3 .

  
E.O. Foster