

CONCENTRATE 200 T.

ACID RETURN 229.035 T.W.

CALCINE FROM CONCENTRATE 488998 lbs		
	SOLUBLE	INSOL. 191198 lbs
Cu	28509	1800
Fe	8507	74512
Fe ⁺⁺	5221	1457
Fe ⁺⁺⁺	3212	7511.5
Al ₂ O ₃	224	1554
CaSO ₄	1483	-
As	79	-
Sb	24	-
CALCINE FROM CEMENT 117761 lbs		
Cu	37373	6308 lbs
Fe	447	4018
Fe ⁺⁺	35	-
Fe ⁺⁺⁺	472	-
H ₂ SO ₄ CONSUMED	17146 lbs	-

LEACH PULP	203 OVERFLOW	202 UNDERFLOW	204 OVERFLOW	203 UNDERFLOW	205 OVERFLOW	204 UNDERFLOW
*OFF SOLUTIONS 1466.994 TONS						
Cu	5915	5925	137	747	83	93
Fe	442	443	55	56	6	7
Fe ⁺⁺	248	248	31	31	3	3
Fe ⁺⁺⁺	194	195	24	25	3	4
Sol. Al ₂ O ₃	11	11	1	1	-	-
CaSO ₄	73	73	1	1	1	1
As	4	4	-	-	-	-
Sb	1	1	-	-	-	-
H ₂ SO ₄	18278	18278	-	-	-	-
INSOL. RESIDUE 98753 TONS	444	444	155	56	6	7

CEMENT COPPER

FRESH WATER 586.587 T.W.

WASTE 197506 lbs	
INSOL. CU	10
SOL. CU	1374
H ₂ SO ₄	1
Fe	-
Fe ⁺⁺	-
Fe ⁺⁺⁺	1
Sol. Al ₂ O ₃	-
CaSO ₄	-
As	-
Sb	-

RETURN SPENT ELECTROLYTE 229.035 T.W.		
Cu	g/L	lbs
Cu	3	1374
Fe	3	1369
Fe ⁺⁺	1.0	456
Fe ⁺⁺⁺	2.0	913
Sol. Al ₂ O ₃	0.1	34
CaSO ₄	0.5	227
As	-	11
Sb	-	4
H ₂ SO ₄	60	27302

202 OVERFLOW		
Cu	g/L	lbs
Cu	138083	138083
Fe	10318	10318
Fe ⁺⁺	5781	5781
Fe ⁺⁺⁺	4537	4537
Sol. Al ₂ O ₃	258	258
CaSO ₄	1710	1710
As	91	91
Sb	28	28
H ₂ SO ₄	10356	10356

TANKHOUSE "OFF" SOLUTION 1726.040 TONS		
Cu	g/L	lbs
Cu	40	138083
Fe	3	10318
Fe ⁺⁺	1.7	5781
Fe ⁺⁺⁺	3.3	4537
Sol. Al ₂ O ₃	0.1	258
CaSO ₄	0.5	1710
As	-	91
Sb	-	28
H ₂ SO ₄	3	10356

TANKHOUSE "OFF" 1726.040 TONS		
Cu	g/L	lbs
Cu	3	10356
Fe	3	10318
Fe ⁺⁺	1.0	3459
Fe ⁺⁺⁺	2.0	6769
Sol. Al ₂ O ₃	0.1	258
CaSO ₄	0.5	1710
As	-	91
Sb	-	28
H ₂ SO ₄	60	207261

OXIDE LEACH SOLUTION 1497.005 TONS		
Cu	g/L	INS
Cu	3	8982
Fe	3	8949
Fe ⁺⁺	1.0	2487
Fe ⁺⁺⁺	2.0	5266
Sol. Al ₂ O ₃	0.1	254
CaSO ₄	0.5	1283
As	-	79
Sb	-	24
H ₂ SO ₄	60	179759

CEMENT COPPER 44651 lbs	
Cu	lbs. CONTENT
Cu	40186
Fe	4465

WIRE BAR COPPER 12772.7 lbs. Cu.

TITLE QUANTITATIVE FLOWSHEET BAGDAD COPPER CORPORATION REDUCTION PLANT	THE DORR COMPANY ENGINEERS	
	ENGINEERING DEPARTMENT	STAMFORD CONN.
	REVISED 6-3-51	SHEET NO. S-304-1
ORDER NO. CE-304	2	