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020255

*Grum
Expl
Metallurgy*

DATE:

August 11 4 91

ATTENTION:

Godfrey McDonald

Fax No.:

416 - 363 - 1732

FROM: DOUG NEWMAN
Sr. Project Metallurgist

No. of Pages 54

MESSAGE

REFERENCE: Grum 4/35

Attached please find the following:

1. Grum test mass balances, Tests 1-54.
2. Flowsheet + typical reagent additions (for Test
3. Summary of recent Tests 51-54. Note that Tests 50-55, the high grade area is complete (except for 64835, insufficient sample).

Best regards

Any problems with this transmission - please contact Su at Ext #245

Test No. F-1

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	46.7	2.38	48.5	14.2	31.3	6.8
2. Pb 4th Cl. Tail	34.2	1.74	32.6	18.9	15.4	6.6
3. Pb 3rd Cl. Tail	34.2	1.74	18.3	21.2	8.6	7.4
4. Pb 2nd Cl. Tail	52.6	2.68	5.7	14.8	4.1	8.0
5. Pb 1st Cl.Sc Conc	14.7	0.75	6.69	18.7	1.4	2.8
6. Zn Cl Conc	115.8	5.90	2.92	44.2	4.7	52.3
7. Zn 4th Cl Tail	13.7	0.70	4.47	11.1	0.8	1.6
8. Zn 3rd Cl Tail	27.6	1.41	4.16	7.11	1.6	2.0
9. Zn 2nd Cl Tail	59.8	3.05	3.01	2.77	2.5	1.7
10. Zn 1st Cl Sc Conc	32.3	1.65	1.89	0.72	0.8	0.2
11. Zn 1st Cl Sc Tail	189.1	9.64	3.11	2.55	8.1	4.9
12. Zn Ro Tail	1341.7	68.37	1.11	0.42	20.6	5.8
Head Calc.	1962.4	100.00	3.69	4.99	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	4.12	41.8	16.2	46.7	13.4
Products 1-3 (Pb 2nd Cl Conc)	5.87	34.8	17.7	55.4	20.8
Products 1-4 (Pb 1st Cl Conc)	8.55	25.7	16.8	59.5	28.7
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	9.29	24.1	16.9	60.9	31.5
Zn Rougher Feed	90.71	1.59	3.76	39.1	68.5
Products 6-7 (Zn 3rd Cl Conc)	6.60	3.08	40.7	5.5	53.8
Products 6-8 (Zn 2nd Cl Conc)	8.01	3.27	34.8	7.1	55.8
Products 6-9 (Zn 1st Cl Conc)	11.05	3.20	26.0	9.6	57.5
Products 6-11 (Zn Ro Conc)	22.33	3.06	14.0	18.6	62.7
Products 11+12 (Zn Tails)	78.01	1.36	0.68	28.7	10.7

Test No. F-2

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	76.1	3.85	56.0	7.62	71.3	6.8
2. Pb 4th Cl. Tail	9.4	0.48	9.7	16.10	1.5	1.8
3. Pb 3rd Cl. Tail	15.3	0.77	4.99	15.30	1.3	2.7
4. Pb 2nd Cl. Tail	29.7	1.50	2.64	13.8	1.3	4.8
5. Pb 1st Cl.Sc Conc	7.1	0.36	3.5	21.8	0.4	1.8
6a. Pb 1st Cl Sc Tail (to Zn Ro)	184.7	8.33	0.96	9.46	2.6	18.2
6b. Pb 1st Cl Sc Tail (Sample)	16.8	0.85	0.96	9.46	0.3	1.9
7. Zn Cl Conc	182.9	9.25	3.04	32.7	9.3	69.8
8. Zn 4th Cl Tail	19.6	0.99	1.67	2.4	0.5	0.6
9. Zn 3rd Cl Tail	27.5	1.39	1.08	1.25	0.5	0.4
10. Zn 2nd Cl Tail	74.6	3.77	0.76	0.72	0.9	0.6
11. Zn 1st Cl Sc Conc	44.5	2.25	0.75	0.71	0.6	0.4
12. Zn 1st Cl Sc Tail	255.5	12.92	0.58	0.52	2.5	1.6
13. Zn Ro Tail	1218.5	61.62	0.47	0.49	9.6	7.0
Head Calc.	1977.5	100.00	3.02	4.33	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	4.32	50.9	8.55	72.8	8.5
Products 1-3 (Pb 2nd Cl Conc)	5.10	43.9	9.58	74.1	11.3
Products 1-4 (Pb 1st Cl Conc)	6.60	34.5	10.5	75.4	16.1
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	6.96	32.9	11.1	75.8	17.9
Products 1-6 (Pb Ro Conc)	16.14	14.8	10.2	78.7	37.9
Pb Ro Tail	83.86	0.77	3.21	21.3	62.1
Products 1-8 (Pb 1st Cl Scav Tail)	9.18	0.96	9.46	2.9	20.0
Products 7-13 (Zn Ro Feed)	92.19	0.78	3.77	23.9	80.3
Products 7-8 (Zn 3rd Cl Conc)	10.24	2.91	29.8	9.8	70.4
Products 7-9 (Zn 2nd Cl Conc)	11.83	2.69	26.4	10.3	70.8
Products 7-10 (Zn 1st Cl Conc)	15.40	2.22	20.1	11.3	71.4
Products 7-12 (Zn Ro Conc)	30.57	1.42	10.4	14.3	73.3
Products 12+13 (Zn Tails)	74.54	0.49	0.50	12.1	8.5
Products 6a +12 +13 (Comb Tails)	75.39	0.49	0.60	12.3	10.4

Test No. F-3

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	80.0	4.10	41.8	7.36	40.7	5.9
2. Pb 4th Cl. Tail	61.3	3.14	25	9.75	18.6	6.0
3. Pb 3rd Cl. Tail	48.7	2.40	8.52	11.3	4.8	5.3
4. Pb 2nd Cl. Tail	85.3	4.38	3.91	10.5	4.1	9.0
5. Pb 1st Cl.Sc Conc	48.3	2.48	3.42	10.6	2.0	5.2
6a. Pb 1st Cl Sc Tail (to Zn Ro)	316.7	16.25	1.74	8.29	6.7	26.5
6b. Pb 1st Cl Sc Tail (Sample)	24.6	1.26	1.74	8.29	0.5	2.1
7. Zn Cl Conc	42.9	2.20	4.01	39.6	2.1	17.1
8. Zn 4th Cl Tail	18.8	0.96	3.84	25.3	0.9	4.8
9. Zn 3rd Cl Tail	32.0	1.64	3.23	16.6	1.3	5.4
10. Zn 2nd Cl Tail	64.1	3.29	2.11	4.98	1.6	3.2
11. Zn 1st Cl Sc Conc	61.0	3.13	1.72	2.82	1.3	1.7
12. Zn 1st Cl Sc Tail	305.4	15.87	1.32	1.85	4.9	5.7
13. Zn Ro Tail	1079.1	55.35	1.31	2.63	17.2	28.6
Head Calc.	1949.5	100.00	4.22	5.09	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	7.25	34.5	8.40	59.3	12.0
Products 1-3 (Pb 2nd Cl Conc)	9.64	28.1	9.12	64.2	17.3
Products 1-4 (Pb 1st Cl Conc)	14.02	20.5	9.55	68.2	26.3
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	16.50	18.0	9.71	70.2	31.5
Products 1-6 (Pb Ro Conc)	34.00	9.60	8.98	77.5	60.0
Pb Ro Tail	66.00	1.44	3.09	22.5	40.0
Products 1-8 (Pb 1st Cl Scav Tail)	17.51	1.74	8.29	7.2	28.5
Products 7-13 (Zn Ro Feed)	82.24	1.50	4.12	29.3	66.5
Products 7-8 (Zn 3rd Cl Conc)	3.16	3.96	35.2	3.0	21.9
Products 7-9 (Zn 2nd Cl Conc)	4.81	3.71	28.9	4.2	27.3
Products 7-10 (Zn 1st Cl Conc)	8.09	3.06	19.2	5.9	30.5
Products 7-12 (Zn Ro Conc)	26.89	1.89	7.18	12.1	37.9
Products 12+13 (Zn Tails)	71.02	1.31	2.46	22.1	34.3
Products 6a +12 +13 (Comb Tails)	72.28	1.32	2.56	22.6	36.3

Test No. F-4

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	70.4	3.59	59.7	9.22	48.7	4.1
2. Pb 4th Cl. Tail	46.1	2.35	41	14.3	21.9	4.1
3. Pb 3rd Cl. Tail	50.5	2.57	20.7	18.7	12.1	5.9
4. Pb 2nd Cl. Tail	108.6	5.53	5.88	18.3	7.4	12.4
5. Pb 1st Cl.Sc Conc	15.1	0.77	2.83	18.4	0.5	1.7
6a. Pb 1st Cl Sc Tail (to Zn Ro)	103.9	5.29	1.49	15.7	1.8	10.2
6b. Pb 1st Cl Sc Tail (Sample)	6.1	0.31	1.49	15.7	0.1	0.6
7. Zn Cl Conc	105.6	5.38	1.2	51.1	1.5	33.7
8. Zn 4th Cl Tail	33.1	1.69	1.46	35.9	0.6	7.4
9. Zn 3rd Cl Tail	37.1	1.89	1.6	19.6	0.7	4.5
10. Zn 2nd Cl Tail	143.3	7.30	1.09	17.6	1.8	15.8
11. Zn 1st Cl Sc Conc	37.0	1.89	0.8	3.91	0.3	0.9
12. Zn 1st Cl Sc Tail	183.7	9.36	0.52	1.8	1.1	2.1
13. Zn Ro Tail	1125.7	57.37	0.26	0.96	3.4	6.8
Head Calc.	1962.3	100.00	4.40	8.16	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	5.94	52.3	11.2	70.5	8.2
Products 1-3 (Pb 2nd Cl Conc)	8.51	42.7	13.5	82.6	14.1
Products 1-4 (Pb 1st Cl Conc)	14.04	28.2	15.4	90.0	26.5
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	14.81	26.9	15.5	90.5	28.2
Products 1-6 (Pb Ro Conc)	20.42	19.9	15.6	92.4	39.0
Pb Ro Tail	79.58	0.42	6.25	7.6	61.0
Products 1-8 (Pb 1st Cl Scav Tail)	5.61	1.49	15.7	1.9	10.8
Products 7-13 (Zn Ro Feed)	84.87	0.49	6.84	9.4	71.2
Products 7-8 (Zn 3rd Cl Conc)	7.07	1.26	47.5	2.0	41.1
Products 7-9 (Zn 2nd Cl Conc)	8.96	1.33	41.6	2.7	45.7
Products 7-10 (Zn 1st Cl Conc)	16.26	1.22	30.8	4.5	61.4
Products 7-12 (Zn Ro Conc)	27.51	0.96	19.1	6.0	64.4
Products 12+13 (Zn Tails)	66.73	0.30	1.08	4.5	8.8
Products 6a +12 +13 (Comb Tails)	67.04	0.30	1.15	4.6	9.4

Test No. F-5

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	48.9	2.49	57	17.1	46.0	5.9
2. Pb 4th Cl. Tail	6.0	0.31	32.8	31.9	3.2	1.4
3. Pb 3rd Cl. Tail	21.0	1.07	37.6	26.8	13.0	4.0
4. Pb 2nd Cl. Tail	41.3	2.10	24.9	26.3	17.0	7.7
5. Pb 1st Cl.Sc Conc	12.4	0.63	14.9	29.2	3.0	2.6
6a. Pb 1st Cl Sc Tail (to Zn Ro)	101.4	5.17	3.77	21.5	6.3	15.5
6b. Pb 1st Cl Sc Tail (Sample)	8.6	0.44	3.77	21.5	0.5	1.3
7. Zn Cl Conc	143.2	7.30	1.63	52.8	3.8	53.7
8. Zn 4th Cl Tail	12.4	0.63	2.41	30.4	0.5	2.7
9. Zn 3rd Cl Tail	17.0	0.87	2.49	25.8	0.7	3.1
10. Zn 2nd Cl Tail	51.7	2.63	2.25	16.6	1.9	6.1
11. Zn 1st Cl Sc Conc	11.1	0.57	2.67	17	0.5	1.3
12. Zn 1st Cl Sc Tail	91.2	4.65	1.07	3.2	1.6	2.1
13. Zn Ro Tail	1498.0	76.32	0.33	0.76	8.2	8.1
Head Calc.	1962.8	100.00	3.09	7.17	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	2.80	54.4	18.7	49.2	7.3
Products 1-3 (Pb 2nd Cl Conc)	3.87	49.7	21.0	62.2	11.3
Products 1-4 (Pb 1st Cl Conc)	5.97	41.0	22.8	79.2	19.0
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	6.80	38.5	23.4	82.3	21.6
Products 1-6 (Pb Ro Conc)	12.21	22.5	22.6	89.1	38.4
Pb Ro Tail	87.79	0.38	5.03	10.9	61.6
Products 1-8 (Pb 1st Cl Scav Tail)	5.60	3.77	21.5	6.8	16.8
Products 7-13 (Zn Ro Feed)	92.96	0.57	5.95	17.2	77.1
Products 7-8 (Zn 3rd Cl Conc)	7.93	1.69	51.0	4.3	56.4
Products 7-9 (Zn 2nd Cl Conc)	8.79	1.77	48.5	5.0	59.5
Products 7-10 (Zn 1st Cl Conc)	11.43	1.88	41.2	7.0	65.6
Products 7-12 (Zn Ro Conc)	16.64	1.68	29.7	9.1	69.0
Products 12+13 (Zn Tails)	80.97	0.37	0.90	9.8	10.2
Products 6a.+12.+13 (Comb Tails)	81.40	0.39	1.01	10.3	11.5

Test No. F-6

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	202.1	10.30	53.9	10	86.1	10.5
2. Pb 4th Cl. Tail	19.0	0.97	14	13.5	2.1	1.3
3. Pb 3rd Cl. Tail	16.4	0.84	10.5	10.6	1.4	0.9
4. Pb 2nd Cl. Tail	32.8	1.67	4.72	12.3	1.2	2.1
5. Pb 1st Cl.Sc Conc	25.1	1.28	4.88	18	1.0	2.4
6a. Pb 1st Cl Sc Tail (to Zn Ro)	145.4	7.41	1.36	15.3	1.6	11.6
6b. Pb 1st Cl Sc Tail (Sample)	19.8	1.01	1.36	15.3	0.2	1.6
7. Zn Cl Conc	270.1	13.77	0.93	53.4	2.0	75.2
8. Zn 4th Cl Tail	7.7	0.39	3.18	19	0.2	0.8
9. Zn 3rd Cl Tail	9.0	0.46	3.07	12.7	0.2	0.6
10. Zn 2nd Cl Tail	23.1	1.18	2.84	7.78	0.5	0.9
11. Zn 1st Cl Sc Conc	34.0	1.73	1.67	3.87	0.4	0.7
12. Zn 1st Cl Sc Tail	177.8	9.06	0.88	0.9	1.2	0.8
13. Zn Ro Tail	1124.8	57.34	0.38	0.38	3.4	2.2
Head Calc.	1961.7	100.00	6.45	9.78	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	11.27	50.5	10.3	88.2	11.9
Products 1-3 (Pb 2nd Cl Conc)	12.11	47.7	10.3	89.6	12.8
Products 1-4 (Pb 1st Cl Conc)	13.78	42.5	10.6	90.8	14.9
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	15.06	39.3	11.2	91.8	17.2
Products 1-6 (Pb Ro Conc)	23.48	25.7	12.7	93.6	30.4
Pb Ro Tail	76.52	0.54	8.90	6.4	69.6
Products 1-8 (Pb 1st Cl Scav Tail)	8.42	1.36	15.3	1.8	13.2
Products 7-13 (Zn Ro Feed)	83.93	0.61	9.46	8.0	81.2
Products 7-8 (Zn 3rd Cl Conc)	14.16	0.99	52.4	2.2	75.9
Products 7-9 (Zn 2nd Cl Conc)	14.62	1.06	51.2	2.4	76.5
Products 7-10 (Zn 1st Cl Conc)	15.80	1.19	48.0	2.9	77.4
Products 7-12 (Zn Ro Conc)	26.59	1.12	29.0	4.6	79.0
Products 12+13 (Zn Tails)	66.40	0.45	0.45	4.6	3.1
Products 6a +12 +13 (Comb Tails)	67.41	0.48	0.67	4.8	4.6

Test No. F-7

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	173.4	9.00	66.3	12.3	65.1	6.0
2. Pb 4th Cl. Tail	26.4	1.37	34.5	20.8	5.2	1.5
3. Pb 3rd Cl. Tail	38.4	1.99	23.4	33.6	5.1	3.6
4. Pb 2nd Cl. Tail	64.8	3.36	7.33	37.4	2.7	6.8
5. Pb 1st Cl.Sc Conc	85.8	4.45	11.6	30.5	5.6	7.3
6a. Pb 1st Cl Sc Tail (to Zn Ro)	393.0	20.40	1.8	32.4	4.0	35.7
6b. Pb 1st Cl Sc Tail (Sample)	18.3	0.95	1.8	32.4	0.2	1.7
7. Zn Cl Conc	532.1	27.62	2.57	42.7	7.7	63.6
8. Zn 4th Cl Tail	64.3	3.34	2.3	18.9	0.8	3.4
9. Zn 3rd Cl Tail	67.6	3.51	2.14	13.7	0.8	2.6
10. Zn 2nd Cl Tail	54.8	2.84	1.72	9.68	0.5	1.5
11. Zn 1st Cl Sc Conc	80.4	4.17	1.12	2.62	0.5	0.6
12. Zn 1st Cl Sc Tail	97.0	5.03	1.55	1.31	0.9	0.4
13. Zn Ro Tail	623.5	32.36	1.39	0.61	4.9	1.1
Head Calc.	1926.8	100.00	9.17	18.5	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	10.37	62.1	13.42	70.2	7.5
Products 1-3 (Pb 2nd Cl Conc)	12.36	55.9	16.68	75.3	11.1
Products 1-4 (Pb 1st Cl Conc)	15.73	45.5	21.11	78.0	17.9
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	20.18	38.0	23.2	83.6	25.2
Products 1-6 (Pb Ro Conc)	41.52	19.4	27.9	87.8	62.5
Pb Ro Tail	58.48	1.91	11.9	12.2	37.5
Products 1-8 (Pb 1st Cl Scav Tail)	21.35	1.8	32.4	4.2	37.3
Products 7-13 (Zn Ro Feed)	78.87	1.88	17.2	16.2	73.1
Products 7-8 (Zn 3rd Cl Conc)	30.95	2.54	40.1	8.6	67.0
Products 7-9 (Zn 2nd Cl Conc)	34.46	2.50	37.4	9.4	69.8
Products 7-10 (Zn 1st Cl Conc)	37.31	2.44	35.3	9.9	71.1
Products 7-12 (Zn Ro Conc)	46.51	2.23	28.7	11.3	72.0
Products 12+13 (Zn Tails)	37.39	1.41	0.70	5.8	1.4
Products 6a +12 +13 (Comb Tails)	38.34	1.42	1.49	5.9	3.1

Test No. F-8

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	108.0	5.61	69	9.41	54.7	3.7
2. Pb 4th Cl. Tail	7.8	0.41	49.8	18.4	2.8	0.5
3. Pb 3rd Cl. Tail	10.8	0.56	47.4	17.6	3.8	0.7
4. Pb 2nd Cl. Tail	25.3	1.31	28.2	24.1	5.2	2.2
5. Pb 1st Cl.Sc Conc	63.9	3.32	21.4	29.2	10.0	6.8
6a. Pb 1st Cl Sc Tail (to Zn Ro)	364.8	18.95	3.58	26.5	9.6	35.1
6b. Pb 1st Cl Sc Tail (Sample)	25.6	1.33	3.58	26.5	0.7	2.5
7. Zn Cl Conc	350.2	18.19	2.71	49.5	7.0	63.0
8. Zn 4th Cl Tail	57.8	3.00	4.55	32.2	1.9	6.8
9. Zn 3rd Cl Tail	51.4	2.67	4.42	19	1.7	3.5
10. Zn 2nd Cl Tail	89.3	4.64	2.61	7.99	1.7	2.6
11. Zn 1st Cl Sc Conc	43.8	2.27	2.44	8.27	0.8	1.3
12. Zn 1st Cl Sc Tail	200.5	10.41	1.92	2.56	2.8	1.9
13. Zn Ro Tail	890.9	46.27	1.06	1.42	6.9	4.6
Head Calc.	1925.3	100.00	7.08	14.3	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	6.01	67.7	10.02	57.5	4.2
Products 1-3 (Pb 2nd Cl Conc)	6.58	66.0	10.66	61.3	4.9
Products 1-4 (Pb 1st Cl Conc)	7.89	59.7	12.90	66.5	7.1
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	11.21	48.3	17.7	76.5	13.9
Products 1-6 (Pb Ro Conc)	31.49	19.5	23.4	86.8	51.5
Pb Ro Tail	68.51	1.37	10.1	13.2	48.5
Products 1-8 (Pb 1st Cl Scav Tail)	20.28	3.6	26.5	10.3	37.6
Products 7-13 (Zn Ro Feed)	67.46	1.85	13.7	22.8	83.6
Products 7-8 (Zn 3rd Cl Conc)	21.19	2.97	47.0	8.9	69.7
Products 7-9 (Zn 2nd Cl Conc)	23.86	3.13	43.9	10.6	73.3
Products 7-10 (Zn 1st Cl Conc)	28.50	3.05	38.1	12.3	75.9
Products 7-12 (Zn Ro Conc)	41.19	2.73	27.4	15.9	79.0
Products 12+13 (Zn Tails)	56.69	1.22	1.63	9.8	6.5
Products 6a +12 +13 (Comb Tails)	58.02	1.27	2.20	10.4	8.9

Test No. F-9

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	35.1	1.84	72.3	5.75	37.5	1.4
2. Pb 4th Cl. Tail	3.1	0.16	49.7	10.5	2.3	0.2
3. Pb 3rd Cl. Tail	27.1	1.42	52.5	11.4	21.1	2.1
4. Pb 2nd Cl. Tail	36.0	1.89	22.4	19.2	11.9	4.7
5. Pb 1st Cl.Sc Conc	14.6	0.77	18.1	26.5	3.9	2.6
6a. Pb 1st Cl Sc Tail (to Zn Ro)	194.2	10.18	3.28	23.5	9.4	31.1
6b. Pb 1st Cl Sc Tail (Sample)	16.3	0.85	3.28	23.5	0.8	2.6
7. Zn Cl Conc	207.5	10.87	1.77	48.1	5.4	67.9
8. Zn 4th Cl Tail	10.1	0.53	2.98	18.5	0.4	1.3
9. Zn 3rd Cl Tail	31.8	1.67	2.47	24.1	1.2	5.2
10. Zn 2nd Cl Tail	86.5	4.53	2.28	8.24	2.9	4.9
11. Zn 1st Cl Sc Conc	32.8	1.72	2	6.42	1.0	1.4
12. Zn 1st Cl Sc Tail	171.4	8.98	1.17	1.25	3.0	1.5
13. Zn Ro Tail	1235.9	64.77	0.47	0.5	8.6	4.2
Head Calc.	1908.2	100.00	3.54	7.70	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	2.00	70.5	6.14	39.8	1.6
Products 1-3 (Pb 2nd Cl Conc)	3.42	63.0	8.32	60.9	3.7
Products 1-4 (Pb 1st Cl Conc)	5.31	48.6	12.19	72.8	8.4
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	6.07	44.7	14.0	76.7	11.0
Products 1-6 (Pb Ro Conc)	17.11	18.0	20.1	86.9	44.7
Pb Ro Tail	82.89	0.56	5.1	13.1	55.3
Products 1-8 (Pb 1st Cl Scav Tail)	11.03	3.3	23.5	10.2	33.7
Products 7-13 (Zn Ro Feed)	93.07	0.86	7.1	22.5	86.4
Products 7-8 (Zn 3rd Cl Conc)	11.40	1.83	46.7	5.9	69.2
Products 7-9 (Zn 2nd Cl Conc)	13.07	1.91	43.8	7.0	74.4
Products 7-10 (Zn 1st Cl Conc)	17.60	2.00	34.7	10.0	79.3
Products 7-12 (Zn Ro Conc)	28.30	1.74	22.4	13.9	82.2
Products 12+13 (Zn Tails)	73.75	0.56	0.59	11.6	5.7
Products 6a +12 +13 (Comb Tails)	74.60	0.59	0.85	12.4	8.3

Test No. F-10

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	190.0	9.72	72.9	8.52	58.8	3.4
2. Pb 4th Cl. Tail	1.0	0.05	55.9	10.3	0.2	0.0
3. Pb 3rd Cl. Tail	4.0	0.20	57	11.5	1.0	0.1
4. Pb 2nd Cl. Tail	25.2	1.29	46.2	19.8	4.9	1.0
5. Pb 1st Cl.Sc Conc	37.9	1.94	44.8	23.5	7.2	1.9
6a. Pb 1st Cl Sc Tail (to Zn Ro)	226.1	11.57	13	36.8	12.5	17.3
6b. Pb 1st Cl Sc Tail (Sample)	20.6	1.05	13	36.8	1.1	1.6
7. Zn Cl Conc	698.5	35.85	3.99	53.8	11.8	77.9
8. Zn 4th Cl Tail	57.5	2.94	9.16	34.2	2.2	4.1
9. Zn 3rd Cl Tail	79.6	4.07	9.2	24.4	3.1	4.0
10. Zn 2nd Cl Tail	129.6	6.63	6.96	12.2	3.8	3.3
11. Zn 1st Cl Sc Conc	82.8	4.24	4.95	7.47	1.7	1.3
12. Zn 1st Cl Sc Tail	236.0	12.08	2.26	1.51	2.3	0.7
13. Zn Ro Tail	393.1	20.12	1.08	0.95	1.8	0.8
Head Calc.	1953.8	100.00	12.1	24.6	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	9.78	72.8	8.53	59.0	3.4
Products 1-3 (Pb 2nd Cl Conc)	9.98	72.5	8.59	60.0	3.5
Products 1-4 (Pb 1st Cl Conc)	11.27	69.5	9.87	64.9	4.5
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	13.21	65.9	11.9	72.1	6.4
Products 1-6 (Pb Ro Conc)	25.84	40.0	24.1	85.7	25.2
Pb Ro Tail	74.16	2.32	24.8	14.3	74.8
Products 1-8 (Pb 1st Cl Scav Tail)	12.83	13.0	36.8	13.6	18.9
Products 7-13 (Zn Ro Feed)	85.74	3.77	26.5	26.8	92.1
Products 7-8 (Zn 3rd Cl Conc)	38.59	4.38	52.3	14.0	81.9
Products 7-9 (Zn 2nd Cl Conc)	42.67	4.84	49.6	17.1	86.0
Products 7-10 (Zn 1st Cl Conc)	49.30	5.13	44.6	21.0	89.3
Products 7-12 (Zn Ro Conc)	65.82	4.59	34.3	25.0	91.3
Products 12+13 (Zn Tails)	32.20	1.52	1.16	4.1	1.5
Products 6a +12 +13 (Comb Tails)	33.25	1.89	2.29	5.2	3.1

Test No. F-11

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	32.6	1.67	75.9	1.68	57.0	0.9
2. Pb 4th Cl. Tail	3.6	0.18	42.2	5.54	3.5	0.3
3. Pb 3rd Cl. Tail	2.4	0.12	22.3	7.01	1.2	0.3
4. Pb 2nd Cl. Tail	30.7	1.57	20.5	6.9	14.5	3.4
5. Pb 1st Cl.Sc Conc	8.6	0.44	8.16	9.21	1.6	1.3
6a. Pb 1st Cl Sc Tail (to Zn Ro)	144.5	7.41	1.31	8.66	4.4	20.3
6b. Pb 1st Cl Sc Tail (Sample)	12.0	0.62	1.31	8.66	0.4	1.7
7. Zn Cl Conc	97.2	4.99	1.33	51.5	3.0	81.3
8. Zn 4th Cl Tail	9.2	0.47	1.66	5.43	0.4	0.8
9. Zn 3rd Cl Tail	13.9	0.71	1.22	2.42	0.4	0.5
10. Zn 2nd Cl Tail	42.6	2.19	0.82	1.26	0.8	0.9
11. Zn 1st Cl Sc Conc	67.2	3.45	0.68	1.2	1.1	1.3
12. Zn 1st Cl Sc Tail	243.2	12.48	0.51	0.31	2.9	1.2
13. Zn Ro Tail	1386.2	71.11	0.42	0.27	13.4	6.1
Head Calc.	1949.4	100.00	2.23	3.16	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	1.86	72.5	2.06	60.5	1.2
Products 1-3 (Pb 2nd Cl Conc)	1.98	69.4	2.37	61.7	1.5
Products 1-4 (Pb 1st Cl Conc)	3.55	47.8	4.38	76.2	4.9
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	4.00	43.4	4.91	77.8	6.2
Products 1-6 (Pb Ro Conc)	12.02	15.3	7.41	82.5	28.2
Pb Ro Tail	87.98	0.44	2.58	17.5	71.8
Products 1-8 (Pb 1st Cl Scav Tail)	8.03	1.31	8.66	4.7	22.0
Products 7-13 (Zn Ro Feed)	95.39	0.51	3.05	21.8	92.1
Products 7-8 (Zn 3rd Cl Conc)	5.46	1.36	47.5	3.3	82.1
Products 7-9 (Zn 2nd Cl Conc)	6.17	1.34	42.3	3.7	82.6
Products 7-10 (Zn 1st Cl Conc)	8.36	1.21	31.6	4.5	83.5
Products 7-12 (Zn Ro Conc)	24.28	0.77	11.2	8.4	86.0
Products 12+13 (Zn Tails)	83.58	0.43	0.28	16.3	7.3
Products 6a +12 +13 (Comb Tails)	84.20	0.44	0.34	16.6	9.0

Test No. F-12

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	6.0	0.31	60	1.11	15.5	0.1
2. Pb 4th Cl. Tail	3.8	0.20	49.3	2.1	8.1	0.1
3. Pb 3rd Cl. Tail	2.8	0.14	39.3	3.46	4.7	0.2
4. Pb 2nd Cl. Tail	4.2	0.22	17.6	6.88	3.2	0.5
5. Pb 1st Cl.Sc Conc	5.6	0.29	17.1	14.1	4.1	1.3
6. Zn Cl Conc	38.8	2.00	6.74	54.9	11.2	35.6
7. Zn 4th Cl Tail	1.7	0.09	15	24.5	1.1	0.7
8. Zn 3rd Cl Tail	4.9	0.25	13.6	18.3	2.9	1.5
9. Zn 2nd Cl Tail	9.1	0.47	7.88	9.73	3.1	1.5
10. Zn 1st Cl Sc Conc	3.6	0.19	4.92	6.55	0.8	0.4
11. Zn 1st Cl Sc Tail	35.1	1.81	2.45	4.32	3.7	2.5
12. Zn Ro Tail	1828.1	94.05	0.53	1.82	41.7	55.6
Head Calc.	1943.7	100.00	1.20	3.08	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	0.50	55.9	1.5	23.5	.2
Products 1-3 (Pb 2nd Cl Conc)	0.65	52.2	1.9	28.3	.4
Products 1-4 (Pb 1st Cl Conc)	0.86	43.5	3.2	31.5	.9
Products 1-5 (Pb 1st Cl + Cl Scav Conca)	1.15	36.9	5.9	35.6	2.2
Zn Rougher Feed	98.85	0.78	3.05	64.4	97.8
Products 6-7 (Zn 3rd Cl Conc)	2.08	7.09	53.6	12.3	36.3
Products 6-8 (Zn 2nd Cl Conc)	2.34	7.79	49.8	15.2	37.8
Products 6-9 (Zn 1st Cl Conc)	2.80	7.80	43.1	18.3	39.3
Products 6-11 (Zn Ro Conc)	4.79	5.68	27.1	22.8	42.2
Products 11+12 (Zn Tails)	95.86	0.57	1.87	45.4	58.1

Test No. F-13

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	85.3	4.36	74.4	3.8	75.6	1.7
2. Pb 4th Cl. Tail	3.6	0.18	33.5	15.3	1.5	0.3
3. Pb 3rd Cl. Tail	12.7	0.65	31.2	15.3	4.8	1.0
4. Pb 2nd Cl. Tail	16.1	0.82	9.79	17.8	1.9	1.5
5. Pb 1st Cl.Sc Conc	7.4	0.38	9.69	20.6	0.9	0.8
6a. Pb 1st Cl Sc Tail (to Zn Ro)	72.9	3.73	2.16	14.7	1.9	5.7
6b. Pb 1st Cl Sc Tail (Sample)	8.1	0.41	2.16	14.7	0.2	0.6
7. Zn Cl Conc	208.5	10.67	1.05	59.5	2.6	65.6
8. Zn 4th Cl Tail	11.1	0.57	2.93	22.6	0.4	1.3
9. Zn 3rd Cl Tail	21.2	1.08	2.79	24.1	0.7	2.7
10. Zn 2nd Cl Tail	15.6	0.80	2.65	10.3	0.5	0.9
11. Zn 1st Cl Sc Conc	11.9	0.61	3.21	24.6	0.5	1.5
12. Zn 1st Cl Sc Tail	85.0	4.35	1.69	5.31	1.7	2.4
13. Zn Ro Tail	1468.0	75.11	0.44	2.52	7.8	19.6
Head Calc.	1954.5	100.00	4.24	9.67	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	4.55	72.7	4.27	78.0	2.0
Products 1-3 (Pb 2nd Cl Conc)	5.20	67.6	5.64	82.8	3.0
Products 1-4 (Pb 1st Cl Conc)	6.02	59.6	7.31	84.7	4.6
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	6.40	56.7	8.09	85.6	5.4
Products 1-6 (Pb Ro Conc)	10.54	35.3	10.7	87.7	11.7
Pb Ro Tail	89.46	0.58	9.55	12.3	88.3
Products 1-8 (Pb 1st Cl Scav Tail)	4.14	2.16	14.7	2.1	6.3
Products 7-13 (Zn Ro Feed)	93.18	0.65	9.76	14.2	94.0
Products 7-8 (Zn 3rd Cl Conc)	11.24	1.15	57.6	3.0	67.0
Products 7-9 (Zn 2nd Cl Conc)	12.92	1.29	54.7	3.7	69.7
Products 7-10 (Zn 1st Cl Conc)	13.12	1.37	52.0	4.2	70.5
Products 7-12 (Zn Ro Conc)	18.08	1.51	39.8	6.4	74.4
Products 12+13 (Zn Tails)	79.46	0.51	2.67	9.5	22.0
Products: 6a +12 +13 (Comb Tails)	79.87	0.52	2.74	9.7	22.6

Test No. F-14

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	69.6	3.61	78.7	3.24	51.0	1.2
2. Pb 4th Cl. Tail	25.1	1.30	80.3	7.77	14.5	1.0
3. Pb 3rd Cl. Tail	23.6	1.22	45.3	10.5	10.2	1.3
4. Pb 2nd Cl. Tail	26.6	1.38	24.3	12.4	6.2	1.7
5. Pb 1st Cl. Sc Conc	17.2	0.89	15	14.3	2.5	1.3
6a. Pb 1st Cl Sc Tail (to Zn Ro)	155.4	8.06	2.74	12.4	4.1	9.9
6b. Pb 1st Cl Sc Tail (Sample)	13.1	0.68	2.74	12.4	0.3	0.8
7. Zn Cl Conc	212.0	11.00	1.36	59.2	2.8	64.8
8. Zn 4th Cl Tail	8.0	0.42	5.28	26.5	0.4	1.1
9. Zn 3rd Cl Tail	16.9	0.88	5.45	19.5	0.9	1.7
10. Zn 2nd Cl Tail	25.2	1.31	4.68	10.6	1.1	1.4
11. Zn 1st Cl Sc Conc	15.0	0.78	4.94	11.1	0.7	0.9
12. Zn 1st Cl Sc Tail	79.5	4.13	2.79	4.88	2.1	2.0
13. Zn Ro Tail	1395.1	72.40	0.55	2.91	7.3	20.9
Head Calc.	1926.9	100.00	5.43	10.1	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	4.91	72.4	4.44	65.5	2.2
Products 1-3 (Pb 2nd Cl Conc)	6.14	67.0	5.65	75.7	3.4
Products 1-4 (Pb 1st Cl Conc)	7.52	59.1	6.89	81.9	5.2
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	8.41	54.4	7.68	84.3	6.4
Products 1-6 (Pb Ro Conc)	17.16	28.1	10.1	88.7	17.2
Pb Ro Tail	82.84	0.74	10.1	11.3	82.8
Products 1-8 (Pb 1st Cl Scav Tail)	8.74	2.74	12.4	4.4	10.8
Products 7-13 (Zn Ro Feed)	90.91	0.92	10.3	15.3	92.7
Products 7-8 (Zn 3rd Cl Conc)	11.42	1.50	58.0	3.2	65.9
Products 7-9 (Zn 2nd Cl Conc)	12.29	1.78	55.3	4.0	67.6
Products 7-10 (Zn 1st Cl Conc)	13.60	2.06	51.0	5.2	68.9
Products 7-12 (Zn Ro Conc)	18.51	2.35	39.0	8.0	71.8
Products 12+13 (Zn Tails)	76.53	0.67	3.02	9.5	23.0
Products 6a +12 +13 (Comb Tails)	77.21	0.69	3.10	9.8	23.8

Test No. F-15

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	132.5	8.75	65.2	5.65	81.4	3.9
2. Pb 4th Cl. Tail	9.8	0.50	18.7	16.1	1.7	0.8
3. Pb 3rd Cl. Tail	9.5	0.48	14.9	12.4	1.3	0.6
4. Pb 2nd Cl. Tail	31.0	1.58	7.75	14.6	2.3	2.3
5. Pb 1st Cl.Sc Conc	21.9	1.12	3.96	13.9	0.8	1.6
6a. Pb 1st Cl Sc Tail (to Zn Ro)	164.0	8.36	1.42	11.3	2.2	9.6
6b. Pb 1st Cl Sc Tail (Sample)	14.8	0.75	1.42	11.3	0.2	0.9
7. Zn Cl Conc	200.1	10.20	1.35	54.6	2.5	56.5
8. Zn 4th Cl Tail	6.8	0.35	3.17	14.5	0.2	0.5
9. Zn 3rd Cl Tail	7.4	0.38	3.76	11.7	0.3	0.4
10. Zn 2nd Cl Tail	23.4	1.19	2.95	14.6	0.7	1.8
11. Zn 1st Cl Sc Conc	7.8	0.40	2.24	7.91	0.2	0.3
12. Zn 1st Cl Sc Tail	184.6	9.41	1.33	5.44	2.3	5.2
13. Zn Ro Tail	1312.8	66.90	0.49	3.72	6.1	25.2
Head Calc.	1962.4	100.00	5.40	9.86	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	7.25	62.0	6.37	83.2	4.7
Products 1-3 (Pb 2nd Cl Conc)	7.74	59.1	6.75	84.5	5.3
Products 1-4 (Pb 1st Cl Conc)	9.32	50.4	8.08	86.8	7.6
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	10.43	45.4	8.70	87.6	9.2
Products 1-6 (Pb Ro Conc)	19.54	24.9	9.9	90.0	19.6
Pb Ro Tail	80.46	0.67	9.8	10.0	80.4
Products 1-8 (Pb 1st Cl Scav Tail)	9.11	1.42	11.3	2.4	10.4
Products 7-13 (Zn Ro Feed)	88.81	0.74	10.0	12.2	89.9
Products 7-8 (Zn 3rd Cl Conc)	10.54	1.41	53.3	2.8	57.0
Products 7-9 (Zn 2nd Cl Conc)	10.92	1.49	51.8	3.0	57.4
Products 7-10 (Zn 1st Cl Conc)	12.11	1.63	48.2	3.7	59.2
Products 7-12 (Zn Ro Conc)	21.92	1.51	29.1	6.1	64.7
Products 12+13 (Zn Tails)	76.30	0.59	3.93	8.4	30.4
Products 6a +12 +13 (Comb Tails)	77.06	0.60	4.00	8.6	31.3

Test No. F-16

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	193.2	9.87	69.3	7.66	79.4	6.0
2. Pb 4th Cl. Tail	17.7	0.90	44.9	12.1	4.7	0.9
3. Pb 3rd Cl. Tail	11.6	0.59	36.5	12.8	2.5	0.6
4. Pb 2nd Cl. Tail	40.7	2.08	14.7	18.8	3.5	3.1
5. Pb 1st Cl.Sc Conc	24.3	1.24	8.86	21.2	1.3	2.1
6a. Pb 1st Cl Sc Tail (to Zn Ro)	235.5	12.03	1.71	16.2	2.4	15.4
6b. Pb 1st Cl Sc Tail (Sample)	13.9	0.71	1.71	16.2	0.1	0.9
7. Zn Cl Conc	298.6	15.15	1.17	61.1	2.1	73.3
8. Zn 4th Cl Tail	34.1	1.74	3.18	25.4	0.6	3.5
9. Zn 3rd Cl Tail	28.7	1.47	3.68	17.5	0.6	2.0
10. Zn 2nd Cl Tail	39.0	1.99	3.01	9.01	0.7	1.4
11. Zn 1st Cl Sc Conc	8.4	0.43	3.08	10.2	0.2	0.3
12. Zn 1st Cl Sc Tail	115.5	5.90	1.93	2.56	1.3	1.2
13. Zn Ro Tail	1134.5	57.94	0.43	1.01	2.9	4.6
Head Calc.	1958.2	100.00	6.61	12.6	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	10.77	67.3	8.03	84.1	6.9
Products 1-3 (Pb 2nd Cl Conc)	11.36	65.6	8.28	86.8	7.5
Products 1-4 (Pb 1st Cl Conc)	13.44	57.8	9.91	90.2	10.6
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	14.68	53.6	10.9	91.5	12.6
Products 1-6 (Pb Ro Conc)	27.42	29.5	13.3	94.0	29.0
Pb Ro Tail	72.58	0.71	12.4	6.0	71.0
Products 1-8 (Pb 1st Cl Scav Tail)	12.74	1.71	16.2	2.5	16.3
Products 7-13 (Zn Ro Feed)	84.61	0.85	12.9	8.4	86.5
Products 7-8 (Zn 3rd Cl Conc)	16.89	1.38	57.4	2.7	76.8
Products 7-9 (Zn 2nd Cl Conc)	18.35	1.56	54.2	3.3	78.9
Products 7-10 (Zn 1st Cl Conc)	20.35	1.70	49.8	4.0	80.3
Products 7-12 (Zn Ro Conc)	26.67	1.77	38.7	5.5	81.8
Products 12+13 (Zn Tails)	63.83	0.57	1.15	4.2	5.8
Products 6a +12 +13 (Comb Tails)	64.54	0.58	1.32	4.4	6.7

Test No. F-17

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	168.8	8.60	65	7.69	73.7	5.2
2. Pb 4th Cl. Tail	45.8	2.33	28.9	19.2	8.9	3.5
3. Pb 3rd Cl. Tail	20.5	1.04	12	19.1	1.7	1.6
4. Pb 2nd Cl. Tail	51.6	2.63	6.12	18.1	2.1	3.7
5. Pb 1st Cl.Sc Conc	22.0	1.12	5.44	18.9	0.8	1.7
6a. Pb 1st Cl Sc Tail (to Zn Ro)	169.3	8.63	1.86	12.1	2.1	8.1
6b. Pb 1st Cl Sc Tail (Sample)	15.2	0.77	1.86	12.1	0.2	0.7
7. Zn Cl Conc	274.0	13.96	2.37	61	4.4	66.5
8. Zn 4th Cl Tail	26.6	1.36	3.47	30.6	0.6	3.2
9. Zn 3rd Cl Tail	21.6	1.10	3.42	11.6	0.5	1.0
10. Zn 2nd Cl Tail	20.2	1.03	2.57	5.36	0.3	0.4
11. Zn 1st Cl Sc Conc	11.5	0.59	2.95	7.86	0.2	0.4
12. Zn 1st Cl Sc Tail	150.5	7.67	1.33	3.32	1.3	2.0
13. Zn Ro Tail	1134.2	57.79	0.68	2.26	5.2	10.2
Head Calc.	1982.5	100.00	7.58	12.8	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	10.94	57.3	10.1	82.6	8.7
Products 1-3 (Pb 2nd Cl Conc)	11.98	53.3	10.9	84.3	10.2
Products 1-4 (Pb 1st Cl Conc)	14.61	44.8	12.2	86.4	13.9
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	15.73	42.0	12.7	87.2	15.6
Products 1-6 (Pb Ro Conc)	25.13	27.0	12.5	89.5	24.5
Pb Ro Tail	74.87	1.06	12.9	10.5	75.5
Products 1-8 (Pb 1st Cl Scav Tail)	9.40	1.86	12.1	2.3	8.9
Products 7-13 (Zn Ro Feed)	83.50	1.14	12.8	12.6	83.7
Products 7-8 (Zn 3rd Cl Conc)	15.32	2.47	58.3	5.0	69.7
Products 7-9 (Zn 2nd Cl Conc)	16.42	2.53	55.2	5.5	70.7
Products 7-10 (Zn 1st Cl Conc)	17.45	2.53	52.2	5.8	71.1
Products 7-12 (Zn Ro Conc)	25.70	2.18	36.6	7.4	73.5
Products 12+13 (Zn Tails)	65.46	0.76	2.38	6.5	12.2
Products 6a +12 +13 (Comb Tails)	68.24	0.77	2.50	6.7	12.9

Test No. F-18

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	81.0	5.43	66.8	10.9	55.0	3.6
2. Pb 4th Cl. Tail	24.3	1.63	41.4	24.8	10.2	2.5
3. Pb 3rd Cl. Tail	21.9	1.47	33.9	27.1	7.5	2.4
4. Pb 2nd Cl. Tail	22.9	1.53	17.7	29.2	4.1	2.7
5. Pb 1st Cl.Sc Conc	17.1	1.15	12.9	34.8	2.2	2.4
6a. Pb 1st Cl Sc Tail (to Zn Ro)	127.0	8.51	2.34	24.9	3.0	12.9
6b. Pb 1st Cl Sc Tail (Sample)	15.2	1.02	2.34	24.9	0.4	1.5
7. Zn Cl Conc	333.7	22.36	3.19	57.5	10.8	78.3
8. Zn 4th Cl Tail	6.9	0.46	4.82	17	0.3	0.5
9. Zn 3rd Cl Tail	12.4	0.83	5.28	14.3	0.7	0.7
10. Zn 2nd Cl Tail	16.0	1.07	3.75	8.81	0.6	0.6
11. Zn 1st Cl Sc Conc	11.3	0.76	2.19	4.88	0.3	0.2
12. Zn 1st Cl Sc Tail	58.4	3.91	1.65	2.09	1.0	0.5
13. Zn Ro Tail	871.0	58.37	0.78	1.13	6.9	4.0
Head Calc.	1492.1	100.00	6.60	16.4	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	7.08	60.9	14.1	65.2	6.1
Products 1-3 (Pb 2nd Cl Conc)	8.52	56.3	16.3	72.7	8.5
Products 1-4 (Pb 1st Cl Conc)	10.06	50.4	18.3	76.8	11.2
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	11.21	46.6	20.0	79.1	13.6
Products 1-6 (Pb Ro Conc)	20.74	26.2	22.2	82.5	28.1
Pb Ro Tail	79.26	1.46	14.9	17.5	71.9
Products 1-8 (Pb 1st Cl Scav Tail)	9.53	2.34	24.9	3.4	14.4
Products 7-13 (Zn Ro Feed)	87.78	1.55	15.9	20.6	84.8
Products 7-8 (Zn 3rd Cl Conc)	22.83	3.22	56.7	11.2	78.8
Products 7-9 (Zn 2nd Cl Conc)	23.66	3.30	55.2	11.8	79.5
Products 7-10 (Zn 1st Cl Conc)	24.73	3.31	53.2	12.4	80.1
Products 7-12 (Zn Ro Conc)	29.40	3.06	45.1	13.7	80.8
Products 12+13 (Zn Tails)	62.29	0.83	1.19	7.9	4.5
Products 6a +12 +13 (Comb Tails)	63.31	0.86	1.57	8.2	6.1

Test No. F-19

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	125.4	6.29	68.1	5.49	76.6	3.4
2. Pb 4th Cl. Tail	30.1	1.51	28.3	15.5	7.6	2.3
3. Pb 3rd Cl. Tail	22.2	1.11	13.5	16.3	2.7	1.8
4. Pb 2nd Cl. Tail	42.2	2.12	6.25	15.4	2.4	3.2
5. Pb 1st Cl.Sc Conc	21.8	1.09	3.8	21.2	0.7	2.3
6a. Pb 1st Cl Sc Tail (to Zn Ro)	206.1	10.33	1.01	9.13	1.9	9.2
6b. Pb 1st Cl Sc Tail (Sample)	16.9	0.85	1.01	9.13	0.2	0.8
7. Zn Cl Conc	221.7	11.11	1.32	61.2	2.6	66.7
8. Zn 4th Cl Tail	5.0	0.25	3.02	38.5	0.1	0.9
9. Zn 3rd Cl Tail	4.7	0.24	2.84	24.6	0.1	0.6
10. Zn 2nd Cl Tail	9.1	0.46	2.57	16.7	0.2	0.7
11. Zn 1st Cl Sc Conc	9.5	0.48	2.68	21.5	0.2	1.0
12. Zn 1st Cl Sc Tail	99.5	4.99	0.9	3.93	0.8	1.9
13. Zn Ro Tail	1386.7	69.52	0.46	2.12	5.7	14.4
Head Calc.	1994.8	100.00	5.59	10.2	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	7.80	60.4	7.43	84.2	5.7
Products 1-3 (Pb 2nd Cl Conc)	8.91	54.5	8.54	86.9	7.5
Products 1-4 (Pb 1st Cl Conc)	11.02	45.3	9.85	89.3	10.6
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	12.12	41.5	10.9	90.0	12.9
Products 1-6 (Pb Ro Conc)	23.30	22.1	10.0	92.0	22.9
Pb Ro Tail	76.70	0.58	10.2	8.0	77.1
Products 1-8 (Pb 1st Cl Scav Tail)	11.18	1.01	9.13	2.0	10.0
Products 7-13 (Zn Ro Feed)	87.04	0.63	10.1	9.8	86.3
Products 7-8 (Zn 3rd Cl Conc)	11.36	1.36	60.7	2.8	67.6
Products 7-9 (Zn 2nd Cl Conc)	11.60	1.39	60.0	2.9	68.2
Products 7-10 (Zn 1st Cl Conc)	12.06	1.43	58.3	3.1	68.9
Products 7-12 (Zn Ro Conc)	17.52	1.31	41.8	4.1	71.9
Products 12+13 (Zn Tails)	74.50	0.49	2.24	6.5	16.4
Products 6a +12 +13 (Comb Tails)	75.35	0.50	2.32	6.7	17.1

Test No. F-20

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	149.1	7.56	68	6.48	80.0	3.6
2. Pb 4th Cl. Tail	21.0	1.06	26	20.8	4.3	1.6
3. Pb 3rd Cl. Tail	16.9	0.86	13.5	20.5	1.8	1.3
4. Pb 2nd Cl. Tail	39.1	1.98	5.62	19.3	1.7	2.8
5. Pb 1st Cl.Sc Conc	24.2	1.23	4.72	23.9	0.9	2.2
6a. Pb 1st Cl Sc Tail (to Zn Ro)	192.6	9.76	1.23	13.8	1.9	10.0
6b. Pb 1st Cl Sc Tail (Sample)	15.4	0.78	1.23	13.8	0.1	0.8
7. Zn Cl Conc	336.9	17.07	1.71	61.9	4.5	78.3
8. Zn 4th Cl Tail	2.9	0.15	3.04	18.1	0.1	0.2
9. Zn 3rd Cl Tail	7.8	0.40	2.91	13.4	0.2	0.4
10. Zn 2nd Cl Tail	13.0	0.68	1.93	6.9	0.2	0.3
11. Zn 1st Cl Sc Conc	10.1	0.51	1.71	9.49	0.1	0.4
12. Zn 1st Cl Sc Tail	99.5	5.04	0.97	2.74	0.8	1.0
13. Zn Ro Tail	1237.4	62.71	0.54	1.52	5.3	7.1
Head Calc.	1973.3	100.00	6.43	13.5	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	8.62	62.8	8.25	84.3	5.3
Products 1-3 (Pb 2nd Cl Conc)	9.48	58.4	9.36	86.1	6.6
Products 1-4 (Pb 1st Cl Conc)	11.46	49.2	11.1	87.8	9.4
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	12.68	44.9	12.3	88.7	11.6
Products 1-6 (Pb Ro Conc)	23.23	25.1	13.0	90.7	22.3
Pb Ro Tail	76.77	0.78	13.7	9.3	77.7
Products 1-8 (Pb 1st Cl Scav Tail)	10.54	1.23	13.8	2.0	10.8
Products 7-13 (Zn Ro Feed)	86.54	0.83	13.7	11.2	87.6
Products 7-8 (Zn 3rd Cl Conc)	17.22	1.72	61.5	4.6	78.5
Products 7-9 (Zn 2nd Cl Conc)	17.62	1.75	60.4	4.8	78.9
Products 7-10 (Zn 1st Cl Conc)	18.27	1.75	58.5	5.0	79.2
Products 7-12 (Zn Ro Conc)	23.83	1.59	45.7	5.9	80.6
Products 12+13 (Zn Tails)	67.75	0.57	1.61	6.0	8.1
Products 6a +12 +13 (Comb Tails)	68.53	0.58	1.75	6.2	8.9

Test No. F-21

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	118.0	6.00	68.7	8.78	55.0	3.1
2. Pb 4th Cl. Tail	24.3	1.24	53	16.6	8.7	1.2
3. Pb 3rd Cl. Tail	13.5	0.69	47.3	14.9	4.3	0.6
4. Pb 2nd Cl. Tail	48.1	2.45	32.1	21.6	10.5	3.1
5. Pb 1st Cl.Sc Conc	42.8	2.18	15.6	25.5	4.5	3.2
6a. Pb 1st Cl Sc Tail (to Zn Ro)	194.1	9.87	3.12	23.4	4.1	13.4
6b. Pb 1st Cl Sc Tail (Sample)	13.9	0.71	3.12	23.4	0.3	1.0
7. Zn Cl Conc	467.6	23.78	2.14	57.9	6.8	79.8
8. Zn 4th Cl Tail	18.9	0.96	5.32	16.3	0.7	0.9
9. Zn 3rd Cl Tail	32.1	1.63	4.32	10.4	0.9	1.0
10. Zn 2nd Cl Tail	52.0	2.64	4.15	8.02	1.5	1.2
11. Zn 1st Cl Sc Conc	70.4	3.58	1.75	3.38	0.8	0.7
12. Zn 1st Cl Sc Tail	133.8	6.81	1.58	2.09	1.4	0.8
13. Zn Ro Tail	930.7	47.34	0.72	1.29	4.5	3.5
Head Calc.	1966.1	100.00	7.50	17.3	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	7.24	66.0	10.1	63.7	4.2
Products 1-3 (Pb 2nd Cl Conc)	7.92	64.4	10.5	68.0	4.8
Products 1-4 (Pb 1st Cl Conc)	10.37	56.8	13.1	78.5	7.9
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	12.55	49.6	15.3	83.0	11.1
Products 1-6 (Pb Ro Conc)	23.13	28.4	19.0	87.4	25.4
Pb Ro Tail	76.87	1.23	16.7	12.6	74.6
Products 1-8 (Pb 1st Cl Scav Tail)	10.58	3.12	23.4	4.4	14.3
Products 7-13 (Zn Ro Feed)	86.75	1.44	17.5	16.7	87.9
Products 7-8 (Zn 3rd Cl Conc)	24.74	2.26	56.3	7.5	80.7
Products 7-9 (Zn 2nd Cl Conc)	26.38	2.39	53.4	8.4	81.6
Products 7-10 (Zn 1st Cl Conc)	29.02	2.55	49.3	9.9	82.9
Products 7-12 (Zn Ro Conc)	39.41	2.31	37.0	12.1	84.4
Products 12+13 (Zn Tails)	54.14	0.83	1.39	6.0	4.4
Products 6a +12 +13 (Comb Tails)	54.85	0.86	1.67	6.3	5.3

Test No. F-22

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	69.3	3.55	67.4	4.86	51.6	1.5
2. Pb 4th Cl. Tail	38.4	1.96	46	9.46	19.5	1.7
3. Pb 3rd Cl. Tail	32.0	1.64	20.2	13.8	7.1	2.0
4. Pb 2nd Cl. Tail	51.8	2.65	7.75	15.3	4.4	3.6
5. Pb 1st Cl.Sc Conc	17.3	0.89	4.28	16.1	0.8	1.3
6a. Pb 1st Cl Sc Tall (to Zn Ro)	194.5	9.95	1.4	10.8	3.0	9.6
6b. Pb 1st Cl Sc Tall (Sample)	14.5	0.74	1.4	10.8	0.2	0.7
7. Zn Cl Conc	254.3	13.01	1.12	58.8	3.1	68.3
8. Zn 4th Cl Tail	9.1	0.47	3.26	21.9	0.3	0.9
9. Zn 3rd Cl Tail	9.5	0.49	3.48	15.7	0.4	0.7
10. Zn 2nd Cl Tail	22.9	1.17	2.79	9.31	0.7	1.0
11. Zn 1st Cl Sc Conc	19.0	0.97	1.86	7.18	0.4	0.6
12. Zn 1st Cl Sc Tall	129.4	6.62	1.41	4.53	2.0	2.7
13. Zn Ro Tail	1286.7	65.84	0.65	2.55	9.2	15.0
Head Calc.	1954.2	100.00	4.63	11.2	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	5.51	59.8	6.50	71.2	3.2
Products 1-3 (Pb 2nd Cl Conc)	7.15	50.7	8.17	78.3	5.2
Products 1-4 (Pb 1st Cl Conc)	9.80	39.1	10.1	82.8	8.8
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	10.68	36.2	10.6	83.6	10.1
Products 1-6 (Pb Ro Conc)	21.38	18.8	10.7	86.8	20.4
Pb Ro Tail	78.62	0.78	11.3	13.2	79.6
Products 6a-6b (Pb 1st Cl Scav Tall)	10.69	1.40	10.8	3.2	10.3
Products 7-13 (Zn Ro Feed)	88.57	0.85	11.3	16.2	89.2
Products 7-8 (Zn 3rd Cl Conc)	13.48	1.19	57.5	3.5	69.2
Products 7-9 (Zn 2nd Cl Conc)	13.96	1.27	58.1	3.8	69.9
Products 7-10 (Zn 1st Cl Conc)	15.14	1.39	52.4	4.5	70.9
Products 7-12 (Zn Ro Conc)	22.73	1.42	38.6	7.0	74.2
Products 12+13 (Zn Tails)	72.46	0.72	2.73	11.3	17.7
Products 6a +12 +13 (Comb Tails)	73.21	0.73	2.81	11.5	18.4

Test No. F-23

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	101.9	5.18	67.1	5.48	69.0	2.1
2. Pb 4th Cl. Tail	18.4	0.94	39.7	11	7.4	0.8
3. Pb 3rd Cl. Tail	8.4	0.43	25.6	9.66	2.2	0.3
4. Pb 2nd Cl. Tail	35.3	1.79	15.2	13.7	5.4	1.8
5a. Pb 1st Cl Sc Tail (to Zn Ro)	186.8	9.50	1.76	12.6	3.3	9.0
5b. Pb 1st Cl Sc Tail (Sample)	17.2	0.87	1.76	12.6	0.3	0.8
6. Zn Cl Conc	352.0	17.90	1.35	56	4.8	75.1
7. Zn 4th Cl Tail	22.5	1.14	3.08	13.4	0.7	1.1
8. Zn 3rd Cl Tail	20.3	1.03	3.69	11.2	0.8	0.9
9. Zn 2nd Cl Tail	45.5	2.31	2.48	7.02	1.1	1.2
10. Zn 1st Cl Sc Conc	24.2	1.23	1.85	4.61	0.5	0.4
11. Zn 1st Cl Sc Tail	151.0	7.68	1.23	4.47	1.9	2.6
12. Zn Ro Tail	1170.0	59.49	0.51	2.88	6.0	12.8
Head Calc.	1966.7	100.00	5.04	13.4	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	6.12	62.9	6.32	76.4	2.9
Products 1-3 (Pb 2nd Cl Conc)	6.54	60.5	6.54	78.5	3.2
Products 1-4 (Pb 1st Cl Conc)	8.34	50.7	8.08	84.0	5.0
Products 1-5 (Pb Ro Conc)	18.71	23.6	10.6	87.6	14.8
Pb Ro Tail	81.29	0.77	14.0	12.4	85.2
Products 5a-5b (Pb 1st Cl Scav Tail)	10.37	1.76	12.6	3.6	9.8
Products 6-12 (Zn Ro Feed)	90.79	0.87	13.8	15.7	94.1
Products 6-7 (Zn 3rd Cl Conc)	19.04	1.45	53.4	5.5	76.2
Products 6-8 (Zn 2nd Cl Conc)	20.07	1.57	51.3	6.3	77.1
Products 6-9 (Zn 1st Cl Conc)	22.39	1.66	46.7	7.4	78.3
Products 6-11 (Zn Ro Conc)	31.30	1.56	34.7	9.7	81.3
Products 11+12 (Zn Tails)	67.17	0.59	3.06	7.9	15.4
Products 5b +11 +12 (Comb Tails)	68.04	0.61	3.18	8.2	16.2

Test No. F-24

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	149.5	7.62	71.1	5.64	74.8	3.0
2. Pb 4th Cl. Tail	19.2	0.98	40	14.8	5.4	1.0
3. Pb 3rd Cl. Tail	23.2	1.18	28.8	16.3	4.7	1.4
4. Pb 2nd Cl. Tail	39.7	2.02	12.5	18.4	3.5	2.6
5. Pb 1st Cl.Sc Conc	24.7	1.26	8.22	19.6	1.4	1.7
6a. Pb 1st Cl Sc Tail (to Zn Ro)	224.7	11.46	1.52	18.7	2.4	15.1
6b. Pb 1st Cl Sc Tail (Sample)	17.3	0.88	1.52	18.7	0.2	1.2
7. Zn Cl Conc	435.0	22.18	1.23	53.9	3.8	84.0
8. Zn 4th Cl Tail	11.2	0.57	4.03	17.6	0.3	0.7
9. Zn 3rd Cl Tail	16.3	0.83	3.52	15.2	0.4	0.9
10. Zn 2nd Cl Tail	35.9	1.83	3.28	10.4	0.8	1.3
11. Zn 1st Cl Sc Conc	8.7	0.44	2.3	5.54	0.1	0.2
12. Zn 1st Cl Sc Tail	93.8	4.78	1.5	1.7	1.0	0.8
13. Zn Ro Tail	1087.0	55.42	0.46	0.37	3.5	1.4
Head Calc.	1961.5	100.00	7.24	14.2	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	8.60	67.6	6.68	80.2	4.0
Products 1-3 (Pb 2nd Cl Conc)	9.78	62.9	7.85	84.9	5.4
Products 1-4 (Pb 1st Cl Conc)	11.81	54.2	9.65	88.4	8.0
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	13.07	49.8	10.6	89.8	9.7
Products 1-6 (Pb Ro Conc)	25.40	28.3	14.5	92.4	26.0
Pb Ro Tail	74.60	0.73	14.1	7.6	74.0
Products 6a-6b (Pb 1st Cl Scav Tail)	12.34	1.52	18.7	2.6	16.2
Products 7-13 (Zn Ro Feed)	86.05	0.84	14.7	10.0	89.1
Products 7-8 (Zn 3rd Cl Conc)	22.75	1.30	53.0	4.1	84.7
Products 7-9 (Zn 2nd Cl Conc)	23.58	1.38	51.7	4.5	85.6
Products 7-10 (Zn 1st Cl Conc)	25.41	1.52	48.7	5.3	86.9
Products 7-12 (Zn Ro Conc)	30.63	1.52	40.7	6.4	87.7
Products 12+13 (Zn Tails)	60.20	0.54	0.48	4.5	2.0
Products 6a +12 +13 (Comb Tails)	61.08	0.56	0.74	4.7	3.2

Test No. F-25

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	122.6	6.16	68	5.72	68.5	2.8
2. Pb 4th Cl. Tail	22.2	1.12	34.4	14.3	6.3	1.2
3. Pb 3rd Cl. Tail	18.8	0.95	28.1	13.2	4.3	1.0
4. Pb 2nd Cl. Tail	43.6	2.19	14.2	17.3	5.1	3.0
5. Pb 1st Cl.Sc Conc	20.6	1.04	7.98	23.3	1.4	1.9
6a. Pb 1st Cl Sc Tail (to Zn Ro)	161.6	8.12	2.44	14.9	3.2	9.5
6b. Pb 1st Cl Sc Tail (Sample)	15.6	0.78	2.44	14.9	0.3	0.9
7. Zn Cl Conc	399.1	20.07	1.56	53	5.1	83.3
8. Zn 4th Cl Tail	6.9	0.35	6.74	16.9	0.4	0.5
9. Zn 3rd Cl Tail	9.5	0.48	6.54	11.8	0.5	0.4
10. Zn 2nd Cl Tail	20.5	1.03	5.16	8.05	0.9	0.6
11. Zn 1st Cl So Conc	20.2	1.02	3.92	6.74	0.7	0.5
12. Zn 1st Cl Sc Tail	189.2	9.51	1.54	1.23	2.4	0.9
13. Zn Ro Tail	1100.2	55.31	0.46	0.69	4.2	3.0
Head Calc.	1989.0	100.00	6.12	12.8	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	7.28	62.8	7.04	74.8	4.0
Products 1-3 (Pb 2nd Cl Conc)	8.23	58.9	7.74	79.2	5.0
Products 1-4 (Pb 1st Cl Conc)	10.42	49.5	9.75	84.2	8.0
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	11.45	45.7	11.0	85.6	9.8
Products 1-6 (Pb Ro Conc)	20.36	26.8	12.7	89.2	20.2
Pb Ro Tail	79.64	0.83	12.8	10.8	79.8
Products 6a-6b (Pb 1st Cl Scav Tail)	8.91	2.44	14.9	3.6	10.4
Products 7-13 (Zn Ro Feed)	87.76	0.98	13.0	14.1	89.2
Products 7-8 (Zn 3rd Cl Conc)	20.41	1.65	52.4	5.5	83.7
Products 7-9 (Zn 2nd Cl Conc)	20.89	1.78	51.5	6.0	84.2
Products 7-10 (Zn 1st Cl Conc)	21.92	1.92	49.4	6.9	84.8
Products 7-12 (Zn Ro Conc)	32.45	1.87	34.0	9.9	86.3
Products 12+13 (Zn Tails)	64.83	0.82	0.77	6.6	3.9
Products 6a +12 +13 (Comb Tails)	65.61	0.64	0.94	6.9	4.8

Test No. F-26

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	135.5	6.85	69.4	5.24	69.8	2.8
2. Pb 4th Cl. Tail	13.3	0.67	40.1	15.2	4.0	0.8
3. Pb 3rd Cl. Tail	14.0	0.71	38.7	12.1	4.0	0.7
4. Pb 2nd Cl. Tail	25.3	1.28	22.3	16.4	4.2	1.6
5. Pb 1st Cl.Sc Conc	23.1	1.17	21	20.8	3.6	1.9
6a. Pb 1st Cl Sc Tail (to Zn Ro)	162.0	8.19	4.44	22.4	5.3	14.3
6b. Pb 1st Cl Sc Tail (Sample)	13.7	0.69	4.44	22.4	0.5	1.2
7. Zn Cl Conc	408.8	20.65	1.92	52.9	5.8	85.0
8. Zn 4th Cl Tail	12.1	0.61	6.36	13.8	0.6	0.7
9. Zn 3rd Cl Tail	23.5	1.19	4.8	9.63	0.8	0.9
10. Zn 2nd Cl Tail	48.9	2.47	3.08	5.32	1.1	1.0
11. Zn 1st Cl Sc Conc	21.1	1.07	2.44	3.75	0.4	0.3
12. Zn 1st Cl Sc Tail	142.6	7.20	1.17	1.08	1.2	0.6
13. Zn Ro Tail	1097.3	55.44	0.49	0.59	4.0	2.5
Head Calc.	1979.2	100.00	6.81	12.9	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	7.52	66.8	6.13	73.8	3.6
Products 1-3 (Pb 2nd Cl Conc)	8.23	64.4	6.64	77.8	4.3
Products 1-4 (Pb 1st Cl Conc)	9.50	58.7	7.96	82.0	5.9
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	10.67	54.6	9.4	85.6	7.8
Products 1-6 (Pb Ro Conc)	19.55	31.8	15.3	91.4	23.2
Pb Ro Tail	80.45	0.73	12.3	8.6	76.8
Products 6a-6b (Pb 1st Cl Scav Tail)	8.88	4.44	22.4	5.8	15.5
Products 7-13 (Zn Ro Feed)	88.64	1.07	13.2	14.0	91.0
Products 7-8 (Zn 3rd Cl Conc)	21.27	2.05	51.8	6.4	85.7
Products 7-9 (Zn 2nd Cl Conc)	22.45	2.19	49.5	7.2	86.5
Products 7-10 (Zn 1st Cl Conc)	24.92	2.28	45.2	8.4	87.6
Products 7-12 (Zn Ro Conc)	33.20	2.05	34.3	10.0	88.5
Products 12+13 (Zn Tails)	62.65	0.57	0.65	5.2	3.1
Products 6a +12 +13 (Comb Tails)	63.34	0.61	0.88	5.7	4.4

Test No. F-27

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	223.7	11.28	56.7	9.48	63.6	10.0
2. Pb 4th Cl. Tail	15.7	0.79	17.2	15.6	1.8	1.2
3. Pb 3rd Cl. Tail	19.2	0.97	11.6	10.6	1.5	1.0
4. Pb 2nd Cl. Tail	37.0	1.87	7.84	11.2	1.9	2.0
5. Pb 1st Cl.Sc Conc	38.0	1.92	5.67	13.5	1.4	2.4
6a. Pb 1st Cl So Tail (to Zn Ro)	300.3	15.15	1.19	12.1	2.4	17.2
6b. Pb 1st Cl So Tail (Sample)	18.5	0.93	1.19	12.1	0.1	1.1
7. Zn Cl Conc	289.7	14.61	1.39	54.5	2.7	74.6
8. Zn 4th Cl Tail	6.8	0.34	5.78	15	0.3	0.5
9. Zn 3rd Cl Tail	10.8	0.54	5.16	12.1	0.4	0.6
10. Zn 2nd Cl Tail	17.5	0.88	4.44	8.79	0.5	0.7
11. Zn 1st Cl Sc Conc	17.8	0.90	2.87	6.68	0.3	0.6
12. Zn 1st Cl So Tail	131.0	6.61	1.51	1.87	1.3	1.2
13. Zn Ro Tail	1157.0	58.35	0.56	0.79	4.3	4.3
Head Calc.	1982.7	100.00	7.65	10.7	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	12.07	54.1	9.88	85.4	11.2
Products 1-3 (Pb 2nd Cl Conc)	13.04	51.0	9.93	86.8	12.1
Products 1-4 (Pb 1st Cl Conc)	14.91	45.6	10.1	88.7	14.1
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	16.83	41.0	10.5	90.2	16.5
Products 1-6 (Pb Ro Conc)	32.90	21.6	11.3	92.7	34.7
Pb Ro Tail	67.10	0.84	10.4	7.3	65.3
Products 6a-6b (Pb 1st Cl Scav Tail)	16.08	1.19	12.1	2.5	18.2
Products 7-13 (Zn Ro Feed)	82.24	0.90	10.7	9.7	82.4
Products 7-8 (Zn 3rd Cl Conc)	14.95	1.49	53.6	2.9	75.0
Products 7-9 (Zn 2nd Cl Conc)	15.50	1.62	52.1	3.3	75.7
Products 7-10 (Zn 1st Cl Conc)	16.38	1.77	49.8	3.8	76.4
Products 7-12 (Zn Ro Conc)	23.89	1.74	34.9	5.4	78.1
Products 12+13 (Zn Tails)	64.96	0.66	0.90	5.6	5.5
Products 6a +12 +13 (Comb Tails)	65.89	0.66	1.06	5.7	6.5

Test No. F-28

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	115.2	5.80	64.4	7.75	75.7	4.9
2. Pb 4th Cl. Tail	5.0	0.25	22.9	17.6	1.2	0.5
3. Pb 3rd Cl. Tail	21.3	1.07	26.1	14	5.7	1.6
4. Pb 2nd Cl. Tail	17.3	0.87	11.3	12.1	2.0	1.2
5. Pb 1st Cl.Sc Conc	12.0	0.60	12.5	16.9	1.5	1.1
6a. Pb 1st Cl Sc Tail (to Zn Ro)	231.7	11.66	1.57	15.1	3.7	19.3
6b. Pb 1st Cl Sc Tail (Sample)	18.2	0.92	1.57	15.1	0.3	1.5
7. Zn Cl Conc	292.0	14.69	1.2	50.4	3.6	81.3
8. Zn 4th Cl Tail	9.5	0.48	4.43	15.5	0.4	0.8
9. Zn 3rd Cl Tail	13.1	0.66	4.63	10.6	0.6	0.8
10. Zn 2nd Cl Tail	29.5	1.48	3.52	6.14	1.1	1.0
11. Zn 1st Cl Sc Conc	23.7	1.19	2.4	4.16	0.6	0.5
12. Zn 1st Cl Sc Tail	192.7	9.70	1.17	1.11	2.3	1.2
13. Zn Ro Tail	1238.0	62.29	0.4	0.52	5.1	3.6
Head Calc.	1987.5	100.00	4.93	9.11	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	6.05	62.7	8.16	76.9	5.4
Products 1-3 (Pb 2nd Cl Conc)	7.12	57.2	9.04	82.6	7.1
Products 1-4 (Pb 1st Cl Conc)	7.99	52.2	9.37	84.6	8.2
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	8.59	49.4	9.90	86.1	9.3
Products 1-6 (Pb Ro Conc)	21.17	21.0	13.0	90.1	30.2
Pb Ro Tail	78.83	0.62	8.07	9.9	69.8
Products 6a-6b (Pb 1st Cl Scav Tail)	12.57	1.57	15.1	4.0	20.8
Products 7-13 (Zn Ro Feed)	90.49	0.74	8.97	13.6	89.1
Products 7-8 (Zn 3rd Cl Conc)	15.17	1.30	49.3	4.0	82.1
Products 7-9 (Zn 2nd Cl Conc)	15.83	1.44	47.7	4.6	82.9
Products 7-10 (Zn 1st Cl Conc)	17.31	1.62	44.1	5.7	83.9
Products 7-12 (Zn Ro Conc)	28.20	1.50	27.6	8.6	85.6
Products 12+13 (Zn Tails)	71.98	0.50	0.60	7.4	4.7
Products 6a +12 +13 (Comb Tails)	72.90	0.52	0.78	7.6	6.3

Test No. F-29

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	83.1	4.18	50.3	7.54	64.2	5.7
2. Pb 4th Cl. Tail	12.2	0.61	20.1	13.1	3.8	1.5
3. Pb 3rd Cl. Tail	14.8	0.74	9.92	12.7	2.3	1.7
4. Pb 2nd Cl. Tail	30.1	1.51	4.69	14	2.2	3.8
5. Pb 1st Cl.Sc Conc	26.8	1.35	4.32	11	1.8	2.7
6a. Pb 1st Cl Sc Tail (to Zn Ro)	266.0	13.39	1.37	11	5.6	26.7
6b. Pb 1st Cl Sc Tail (Sample)	20.1	1.01	1.37	11	0.4	2.0
7. Zn Cl Conc	109.9	5.53	1.54	53.6	2.6	53.7
8. Zn 4th Cl Tail	6.8	0.34	2.44	37.4	0.3	2.3
9. Zn 3rd Cl Tail	10.9	0.55	2.73	30.2	0.5	3.0
10. Zn 2nd Cl Tail	21.2	1.07	2.71	14.8	0.9	2.9
11. Zn 1st Cl Sc Conc	13.9	0.70	2.5	11.8	0.5	1.5
12. Zn 1st Cl Sc Tail	106.7	5.37	1.76	3.16	2.9	3.1
13. Zn Ro Tail	1530.7	77.03	0.76	1.16	17.9	16.2
Head Calc.	1987.2	100.00	3.28	5.52	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	4.80	46.4	8.25	67.9	7.2
Products 1-3 (Pb 2nd Cl Conc)	5.54	41.5	8.85	70.2	8.9
Products 1-4 (Pb 1st Cl Conc)	7.06	33.6	10.0	72.3	12.7
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	8.40	28.9	10.1	74.1	15.4
Products 1-6 (Pb Ro Conc)	22.80	11.5	10.7	80.1	44.1
Pb Ro Tail	77.20	0.84	4.00	19.9	55.9
Products 6a-6b (Pb 1st Cl Scav Tail)	14.40	1.37	11.0	6.0	28.7
Products 7-13 (Zn Ro Feed)	90.58	0.92	5.04	25.5	82.6
Products 7-8 (Zn 3rd Cl Conc)	5.87	1.59	52.7	2.9	56.0
Products 7-9 (Zn 2nd Cl Conc)	6.42	1.69	50.7	3.3	59.0
Products 7-10 (Zn 1st Cl Conc)	7.49	1.83	45.6	4.2	61.8
Products 7-12 (Zn Ro Conc)	13.56	1.84	27.1	7.6	66.4
Products 12+13 (Zn Tails)	82.40	0.83	1.29	20.7	19.2
Products 6a +12 +13 (Comb Tails)	83.41	0.83	1.41	21.2	21.3

Test No. F-30

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	90.3	4.58	59.9	11.3	62.3	5.4
2. Pb 4th Cl. Tail	6.7	0.34	17.3	27.6	1.3	1.0
3. Pb 3rd Cl. Tail	10.1	0.51	12.1	24.9	1.4	1.3
4. Pb 2nd Cl. Tail	38.2	1.94	6.79	24.4	3.0	5.0
5. Pb 1st Cl.Sc Conc	28.9	1.46	5.02	25.3	1.7	3.9
6a. Pb 1st Cl Sc Tail (to Zn Ro)	234.7	11.89	1.52	17.9	4.1	22.4
6b. Pb 1st Cl Sc Tail (Sample)	14.1	0.71	1.52	17.9	0.2	1.3
7. Zn Cl Conc	227.2	11.51	2.35	44.5	6.1	53.9
8. Zn 4th Cl Tail	12.0	0.61	3.92	20.4	0.5	1.3
9. Zn 3rd Cl Tail	10.5	0.53	3.69	11.9	0.4	0.7
10. Zn 2nd Cl Tail	30.8	1.56	2.89	9.05	1.0	1.5
11. Zn 1st Cl Sc Conc	30.7	1.56	2.09	6.14	0.7	1.0
12. Zn 1st Cl Sc Tail	109.4	5.54	1.74	4.23	2.2	2.5
13. Zn Ro Tail	1364.3	69.14	1.21	2.92	19.0	21.2
Head Calc.	1973.2	100.00	4.40	9.51	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	4.92	57.0	12.4	63.6	6.4
Products 1-3 (Pb 2nd Cl Conc)	5.43	52.7	13.6	65.0	7.8
Products 1-4 (Pb 1st Cl Conc)	7.36	40.7	16.4	68.0	12.7
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	8.83	34.7	17.9	69.7	16.6
Products 1-6 (Pb Ro Conc)	21.44	15.2	17.9	74.0	40.4
Pb Ro Tail	78.56	1.46	7.22	26.0	59.6
Products 6a-6b (Pb 1st Cl Scav Tail)	12.61	1.52	17.9	4.4	23.7
Products 7-13 (Zn Ro Feed)	90.46	1.46	8.62	30.1	82.0
Products 7-8 (Zn 3rd Cl Conc)	12.12	2.43	43.3	6.7	55.2
Products 7-9 (Zn 2nd Cl Conc)	12.65	2.48	42.0	7.1	55.8
Products 7-10 (Zn 1st Cl Conc)	14.22	2.53	38.4	8.2	57.3
Products 7-12 (Zn Ro Conc)	21.32	2.29	27.1	11.1	60.8
Products 12+13 (Zn Tails)	74.69	1.25	3.02	21.2	23.7
Products 6a +12 +13 (Comb Tails)	75.40	1.25	3.16	21.4	25.0

Test No. F-31

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	248.2	12.56	58.4	13	82.0	10.3
2. Pb 4th Cl. Tail	11.5	0.58	21.7	15.4	1.4	0.6
3. Pb 3rd Cl. Tail	15.0	0.76	19.1	17	1.6	0.8
4. Pb 2nd Cl. Tail	15.7	0.79	13.3	18.9	1.2	1.0
5. Pb 1st Cl.Sc Conc	29.4	1.49	9.88	25	1.6	2.4
6a. Pb 1st Cl Sc Tail (to Zn Ro)	205.1	10.38	2.8	24	3.2	15.8
6b. Pb 1st Cl Sc Tail (Sample)	14.9	0.75	2.8	24	0.2	1.1
7. Zn Cl Conc	452.1	22.88	1.8	52.3	4.6	75.7
8. Zn 4th Cl Tail	24.6	1.24	4.86	19.7	0.7	1.6
9. Zn 3rd Cl Tail	20.8	1.05	5.14	12.8	0.6	0.9
10. Zn 2nd Cl Tail	43.0	2.18	3.74	7.46	0.9	1.0
11. Zn 1st Cl Sc Conc	34.2	1.73	2.64	9.63	0.5	1.1
12. Zn 1st Cl Sc Tail	108.1	5.47	2.03	2.43	1.2	0.8
13. Zn Ro Tail	958.8	48.51	0.63	0.91	3.4	2.8
Head Calc.	1976.3	100.00	8.95	15.8	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	13.14	56.8	13.1	83.4	10.9
Products 1-3 (Pb 2nd Cl Conc)	13.90	54.7	13.3	85.0	11.7
Products 1-4 (Pb 1st Cl Conc)	14.69	52.5	13.6	86.2	12.7
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	16.18	48.6	14.7	87.8	15.0
Products 1-6 (Pb Ro Conc)	27.31	29.9	18.5	91.3	31.9
Pb Ro Tail	72.69	1.07	14.8	8.7	68.1
Products 6a-6b (Pb 1st Cl Scav Tail)	11.13	2.80	24.0	3.5	16.9
Products 7-13 (Zn Ro Feed)	83.06	1.29	15.9	12.0	83.8
Products 7-8 (Zn 3rd Cl Conc)	24.12	1.96	50.6	5.3	77.3
Products 7-9 (Zn 2nd Cl Conc)	25.17	2.09	49.0	5.9	78.1
Products 7-10 (Zn 1st Cl Conc)	27.35	2.22	45.7	6.8	79.1
Products 7-12 (Zn Ro Conc)	34.55	2.21	37.1	8.5	81.0
Products 12+13 (Zn Tails)	53.98	0.77	1.06	4.7	3.6
Products 6a +12 +13 (Comb Tails)	54.74	0.80	1.38	4.9	4.8

Test No. F-32

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	129.9	6.64	65.6	6.4	79.1	4.6
2. Pb 4th Cl. Tail	17.2	0.88	30.1	11.4	4.8	1.1
3. Pb 3rd Cl. Tail	8.1	0.41	20.3	5.82	1.5	0.3
4. Pb 2nd Cl. Tail	33.4	1.71	10.6	14.3	3.3	2.6
5. Pb 1st Cl.Sc Conc	13.4	0.68	7.43	18.3	0.9	1.4
6a. Pb 1st Cl Sc Tail (to Zn Ro)	135.2	6.91	1.96	17	2.5	12.7
6b. Pb 1st Cl Sc Tail (Sample)	11.5	0.59	1.96	17	0.2	1.1
7. Zn Cl Conc	263.5	13.46	0.72	51.9	1.8	75.8
8. Zn 4th Cl Tail	8.2	0.42	3.53	19.3	0.3	0.9
9. Zn 3rd Cl Tail	9.4	0.48	3.74	14	0.3	0.7
10. Zn 2nd Cl Tail	24.1	1.23	3.07	8.48	0.7	1.1
11. Zn 1st Cl Sc Conc	18.2	0.93	2.22	8.53	0.4	0.9
12. Zn 1st Cl Sc Tail	132.0	6.74	1.13	1.78	1.4	1.3
13. Zn Ro Tail	1288.6	65.83	0.45	1.15	5.4	8.2
Head Calc.	1957.5	100.00	5.51	9.21	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	7.51	61.4	6.98	83.9	5.7
Products 1-3 (Pb 2nd Cl Conc)	7.93	59.3	6.92	85.4	6.0
Products 1-4 (Pb 1st Cl Conc)	9.63	50.7	8.23	88.7	8.6
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	10.32	47.8	8.90	89.6	10.0
Products 1-6 (Pb Ro Conc)	17.81	28.5	12.3	92.3	23.8
Pb Ro Tail	82.19	0.52	8.54	7.7	76.2
Products 6a-6b (Pb 1st Cl Scav Tail)	7.49	1.96	17.0	2.7	13.8
Products 7-13 (Zn Ro Feed)	89.09	0.63	9.20	10.2	88.9
Products 7-8 (Zn 3rd Cl Conc)	13.88	0.80	50.9	2.0	76.7
Products 7-9 (Zn 2nd Cl Conc)	14.36	0.90	49.7	2.4	77.4
Products 7-10 (Zn 1st Cl Conc)	15.59	1.07	46.4	3.0	78.6
Products 7-12 (Zn Ro Conc)	23.26	1.14	32.0	4.8	80.7
Products 12+13 (Zn Tails)	72.57	0.51	1.21	6.8	9.5
Products 6a +12 +13 (Comb Tails)	73.16	0.52	1.34	7.0	10.6

Test No. F-33

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	155.7	7.89	66.1	6.93	79.2	4.6
2. Pb 4th Cl. Tail	12.1	0.61	32.2	13.7	3.0	0.7
3. Pb 3rd Cl. Tail	7.9	0.40	23.3	10.5	1.4	0.4
4. Pb 2nd Cl. Tail	18.4	0.93	16.8	19.4	2.4	1.5
5. Pb 1st Cl.Sc Conc	23.5	1.19	15.8	20.4	2.9	2.0
6a. Pb 1st Cl Sc Tail (to Zn Ro)	136.4	6.91	4.14	22.2	4.3	12.8
6b. Pb 1st Cl Sc Tail (Sample)	8.2	0.42	4.14	22.2	0.3	0.8
7. Zn Cl Conc	387.5	19.62	1.34	51.8	4.0	84.8
8. Zn 4th Cl Tail	11.6	0.59	5.43	11.8	0.5	0.6
9. Zn 3rd Cl Tail	20.4	1.03	5.06	9.82	0.8	0.8
10. Zn 2nd Cl Tail	25.3	1.28	3.78	5.45	0.7	0.6
11. Zn 1st Cl Sc Conc	11.7	0.59	2.52	3.74	0.2	0.2
12. Zn 1st Cl Sc Tail	137.3	6.95	1.17	1.09	1.2	0.6
13. Zn Ro Tail	1155.0	58.49	0.39	0.5	3.5	2.4
Head Calc.	1974.6	100.00	6.58	12.0	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	8.50	63.7	7.42	82.2	5.3
Products 1-3 (Pb 2nd Cl Conc)	8.90	61.8	7.56	83.6	5.6
Products 1-4 (Pb 1st Cl Conc)	9.83	57.6	8.68	85.9	7.1
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	11.02	53.1	9.9	88.8	9.1
Products 1-6 (Pb Ro Conc)	18.34	33.5	14.8	93.4	22.7
Pb Ro Tail	81.66	0.53	11.3	6.6	77.3
Products 6a-6b (Pb 1st Cl Scav Tail)	7.32	4.14	22.2	4.6	13.6
Products 7-13 (Zn Ro Feed)	88.56	0.81	12.2	10.9	90.1
Products 7-8 (Zn 3rd Cl Conc)	20.21	1.46	50.6	4.5	85.4
Products 7-9 (Zn 2nd Cl Conc)	21.24	1.63	48.7	5.3	86.2
Products 7-10 (Zn 1st Cl Conc)	22.53	1.76	46.2	6.0	86.8
Products 7-12 (Zn Ro Conc)	30.07	1.84	34.9	7.5	87.6
Products 12+13 (Zn Tails)	65.45	0.47	0.56	4.7	3.1
Products 6a +12 +13 (Comb Tails)	65.86	0.50	0.70	5.0	3.8

Test No. F-35

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	122.4	6.28	57	15.6	53.0	6.2
2. Pb 4th Cl. Tail	55.6	2.85	39.8	24.3	16.8	4.4
3. Pb 3rd Cl. Tail	16.0	0.82	26.7	26.1	3.2	1.4
4. Pb 2nd Cl. Tail	44.3	2.27	12.3	29.9	4.1	4.3
5. Pb 1st Cl.Sc Conc	44.7	2.29	9.9	31.5	3.4	4.6
6a. Pb 1st Cl Sc Tail (to Zn Ro)	288.8	13.79	2.58	22.3	5.3	19.5
6b. Pb 1st Cl Sc Tail (Sample)	12.8	0.66	2.58	22.3	0.3	0.9
7. Zn Cl Conc	469.9	24.10	2.24	43.9	8.0	67.0
8. Zn 4th Cl Tail	49.3	2.53	3.3	10.8	1.2	1.7
9. Zn 3rd Cl Tail	91.9	4.71	2.63	10.4	1.8	3.1
10. Zn 2nd Cl Tail	66.0	3.39	2.07	5.39	1.0	1.2
11. Zn 1st Cl Sc Conc	17.4	0.89	1.88	4.6	0.2	0.3
12. Zn 1st Cl Sc Tail	102.2	5.24	1.09	1.55	0.8	0.5
13. Zn Ro Tail	856.9	43.96	0.92	1.61	6.0	4.5
Head Calc.	1949.4	100.00	6.75	15.8	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	9.13	51.6	18.3	69.8	10.6
Products 1-3 (Pb 2nd Cl Conc)	9.95	49.6	19.0	73.1	11.9
Products 1-4 (Pb 1st Cl Conc)	12.22	42.6	21.0	77.2	16.2
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	14.52	37.5	22.7	80.6	20.8
Products 1-6 (Pb Ro Conc)	28.96	20.1	22.5	86.1	41.2
Pb Ro Tail	71.04	1.32	13.1	13.9	58.8
Products 6a-6b (Pb 1st Cl Scav Tail)	14.45	2.58	22.3	5.5	20.4
Products 7-13 (Zn Ro Feed)	84.83	1.53	14.6	19.2	78.2
Products 7-8 (Zn 3rd Cl Conc)	26.83	2.34	40.8	9.2	68.7
Products 7-9 (Zn 2nd Cl Conc)	31.35	2.38	36.2	11.1	71.8
Products 7-10 (Zn 1st Cl Conc)	34.73	2.35	33.2	12.1	73.0
Products 7-12 (Zn Ro Conc)	40.87	2.18	28.5	13.2	73.8
Products 12+13 (Zn Tails)	49.20	0.94	1.60	6.8	5.0
Products 6a +12 +13 (Comb Tails)	49.86	0.96	1.88	7.1	5.9

Test No. F-39

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	18.8	0.95	61	9.32	42.6	2.8
2. Pb 4th Cl. Tail	1.1	0.06	21.9	19.3	0.9	0.3
3. Pb 3rd Cl. Tail	5.0	0.25	20.9	19.1	3.9	1.5
4. Pb 2nd Cl. Tail	16.5	0.84	6.84	15.4	4.2	4.1
5. Pb 1st Cl.Sc Conc	11.8	0.60	4.56	12.8	2.0	2.4
6a. Pb 1st Cl Sc Tail (to Zn Ro)	209.2	10.62	1.48	6.11	11.5	20.5
6b. Pb 1st Cl Sc Tail (Sample)	17.5	0.89	1.48	6.11	1.0	1.7
7. Zn Cl Conc	74.1	3.76	3.04	56.7	8.4	67.4
8. Zn 4th Cl Tail	1.5	0.08	2.92	20.6	0.2	0.5
9. Zn 3rd Cl Tail	5.3	0.27	2.91	18.1	0.6	1.5
10. Zn 2nd Cl Tail	11.2	0.57	2.14	8.53	0.9	1.5
11. Zn 1st Cl Sc Conc	8.3	0.42	1.82	7.27	0.6	1.0
12. Zn 1st Cl Sc Tail	59.0	3.00	1.16	1.54	2.5	1.5
13. Zn Ro Tail	1739.6	88.32	0.5	0.49	32.3	13.7
Head Calc.	1969.7	100.00	1.37	3.16	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	1.01	58.8	9.87	43.5	3.2
Products 1-3 (Pb 2nd Cl Conc)	1.26	51.2	11.7	47.4	4.7
Products 1-4 (Pb 1st Cl Conc)	2.10	33.5	13.2	51.6	8.8
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	2.70	27.1	13.1	53.6	11.2
Products 1-6 (Pb Ro Conc)	14.21	6.35	7.44	66.1	33.4
Pb Ro Tail	85.79	0.54	2.46	33.9	66.6
Products 6a-6b (Pb 1st Cl Scav Tail)	11.51	1.48	6.11	12.5	22.2
Products 7-13 (Zn Ro Feed)	96.41	0.64	2.86	45.4	87.1
Products 7-8 (Zn 3rd Cl Conc)	3.84	3.04	56.0	8.5	67.9
Products 7-9 (Zn 2nd Cl Conc)	4.11	3.03	53.5	9.1	69.5
Products 7-10 (Zn 1st Cl Conc)	4.68	2.92	48.0	10.0	71.0
Products 7-12 (Zn Ro Conc)	8.09	2.21	28.7	13.1	73.4
Products 12+13 (Zn Tails)	91.31	0.52	0.52	34.9	15.1
Products 6a +12 +13 (Comb Tails)	92.20	0.53	0.58	35.8	16.9

Test No. F-40

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	115.4	5.82	56	14.3	63.5	6.8
2. Pb 4th Cl. Tail	11.6	0.59	34	24.5	3.9	1.2
3. Pb 3rd Cl. Tail	16.1	0.81	24.8	28.2	3.9	1.9
4. Pb 2nd Cl. Tail	34.6	1.75	12.3	29.4	4.2	4.2
5. Pb 1st Cl.Sc Conc	29.8	1.50	12.9	30.8	3.8	3.8
6a. Pb 1st Cl Sc Tail (to Zn Ro)	343.8	17.34	2.1	18.5	7.1	23.4
6b. Pb 1st Cl Sc Tail (Sample)	21.6	1.09	2.1	18.5	0.4	1.5
7. Zn Cl Conc	250.8	12.65	1.88	52	4.6	53.7
8. Zn 4th Cl Tail	40.8	2.06	2.83	29	1.1	4.9
9. Zn 3rd Cl Tail	50.2	2.53	2.98	19.7	1.5	4.1
10. Zn 2nd Cl Tail	54.2	2.73	2.57	13.2	1.4	2.9
11. Zn 1st Cl Sc Conc	18.4	0.93	2.56	10.3	0.5	0.8
12. Zn 1st Cl Sc Tail	99.0	4.99	1.87	3.36	1.6	1.4
13. Zn Ro Tail	1240.1	62.55	0.79	2.53	9.6	12.9
Head Calc.	1982.8	100.00	5.13	12.2	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	8.41	54.0	15.2	67.4	8.0
Products 1-3 (Pb 2nd Cl Conc)	7.22	50.7	16.7	71.3	9.8
Products 1-4 (Pb 1st Cl Conc)	8.96	43.2	19.2	75.5	14.0
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	10.47	38.9	20.8	79.3	17.8
Products 1-6 (Pb Ro Conc)	28.90	15.4	18.1	86.8	42.7
Pb Ro Tail	71.10	0.95	9.87	13.2	57.3
Products 6a-6b (Pb 1st Cl Scav Tail)	18.43	2.10	18.5	7.5	24.8
Products 7-13 (Zn Ro Feed)	88.44	1.17	11.2	20.3	80.7
Products 7-8 (Zn 3rd Cl Conc)	14.71	1.98	48.8	5.7	58.6
Products 7-9 (Zn 2nd Cl Conc)	17.24	2.13	44.5	7.2	62.7
Products 7-10 (Zn 1st Cl Conc)	19.97	2.19	40.2	8.5	65.6
Products 7-12 (Zn Ro Conc)	25.90	2.10	32.0	10.6	67.8
Products 12+13 (Zn Tails)	67.54	0.88	2.59	11.3	14.3
Products 6a +12 +13 (Comb Tails)	68.63	0.87	2.81	11.7	15.8

Test No. F-41

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	26.5	1.33	71.2	1.94	65.7	1.4
2. Pb 3rd Cl. Tail	5.9	0.30	31.9	5.56	6.6	0.9
3. Pb 2nd Cl. Tail	13.1	0.66	11.3	6.04	5.2	2.1
4. Pb 1st Cl.Sc Conc	8.1	0.41	4.64	15.6	1.3	3.4
5a. Pb 1st Cl Sc Tail (to Zn Ro)	184.7	9.29	1.37	3.56	8.8	17.4
5b. Pb 1st Cl Sc Tail (Sample)	8.8	0.44	1.37	3.56	0.4	0.8
6. Zn Cl Conc	43.6	2.19	1.7	54.8	2.6	63.4
7. Zn 4th Cl Tail	0.8	0.04	2.46	16.1	0.1	0.3
8. Zn 3rd Cl Tail	1.9	0.10	2.13	12.1	0.1	0.6
9. Zn 2nd Cl Tail	27.5	1.38	1.01	4.34	1.0	3.2
10. Zn 1st Cl Sc Conc	29.1	1.46	0.5	1.23	0.5	0.9
11. Zn 1st Cl Sc Tail	134.1	6.74	0.28	0.42	1.3	1.5
12. Zn Ro Tail	1689.7	84.95	0.26	0.48	15.3	21.5
Head Calc.	1989.1	100.00	1.44	1.89	100.0	100.0

Combined Products

Products 1-2 (Pb 2nd Cl Conc)	1.63	64.0	2.60	72.2	2.2
Products 1-3 (Pb 1st Cl Conc)	2.29	48.9	3.59	77.4	4.3
Products 1-4 (Pb 1st Cl + Cl Scav Concs)	2.69	42.2	5.40	78.7	7.7
Products 1-5 (Pb Ro Conc)	12.42	10.2	3.96	87.9	26.0
Pb Ro Tail	87.58	0.20	1.60	12.1	74.0
Products 5a-5b (Pb 1st Cl Scav Tail)	9.73	1.37	3.56	9.2	18.3
Products 6-12 (Zn Ro Feed)	96.86	0.31	1.79	20.9	91.5
Products 6-7 (Zn 3rd Cl Conc)	2.23	1.71	54.1	2.6	63.7
Products 6-8 (Zn 2nd Cl Conc)	2.33	1.73	52.4	2.8	64.3
Products 6-9 (Zn 1st Cl Conc)	3.71	1.46	34.5	3.8	67.5
Products 6-11 (Zn Ro Conc)	11.91	0.68	11.1	5.6	70.0
Products 11+12 (Zn Tails)	91.69	0.26	0.48	16.6	23.0
Products 5a +11 +12 (Comb Tails)	92.13	0.27	0.49	17.0	23.8

Test No. F-43

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	189.3	9.61	55.3	16.9	62.3	9.9
2. Pb 4th Cl. Tail	23.4	1.19	35.8	21.5	5.0	1.6
3. Pb 3rd Cl. Tail	25.6	1.30	37.8	19	5.8	1.5
4. Pb 2nd Cl. Tail	47.5	2.41	19.5	27.2	5.5	4.0
5. Pb 1st Cl.Sc Conc	61.4	3.12	13.7	27.2	5.0	5.2
6a. Pb 1st Cl Sc Tail (to Zn Ro)	440.8	22.37	2.77	22.2	7.3	30.3
6b. Pb 1st Cl Sc Tail (Sample)	21.0	1.07	2.77	22.2	0.3	1.4
7. Zn Cl Conc	523.6	26.57	2.89	44.1	9.0	71.5
8. Zn 4th Cl Tail	24.8	1.26	3.97	12.2	0.6	0.9
9. Zn 3rd Cl Tail	33.4	1.69	3.22	7.3	0.6	0.8
10. Zn 2nd Cl Tail	56.4	2.86	2.52	3.71	0.8	0.6
11. Zn 1st Cl Sc Conc	60.2	3.05	2.19	3.57	0.8	0.7
12. Zn 1st Cl Sc Tail	253.0	12.84	1.06	0.87	1.6	0.7
13. Zn Ro Tail	651.2	33.04	0.68	0.64	2.6	1.3
Head Calc.	1970.8	100.00	8.53	16.4	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	10.79	53.2	17.4	67.3	11.5
Products 1-3 (Pb 2nd Cl Conc)	12.09	51.5	17.6	73.0	13.0
Products 1-4 (Pb 1st Cl Conc)	14.50	46.2	19.2	78.6	17.0
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	17.62	40.4	20.6	83.6	22.1
Products 1-6 (Pb Ro Conc)	41.05	18.9	21.5	91.2	53.9
Pb Ro Tail	58.95	1.28	12.8	8.8	46.1
Products 6a-6b (Pb 1st Cl Scav Tail)	23.43	2.77	22.2	7.6	31.7
Products 7-13 (Zn Ro Feed)	81.32	1.69	15.4	16.1	76.4
Products 7-8 (Zn 3rd Cl Conc)	27.83	2.94	42.7	9.6	72.4
Products 7-9 (Zn 2nd Cl Conc)	29.52	2.95	40.6	10.2	73.1
Products 7-10 (Zn 1st Cl Conc)	32.38	2.92	37.4	11.1	73.8
Products 7-12 (Zn Ro Conc)	48.27	2.38	25.5	13.5	75.1
Products 12+13 (Zn Tails)	45.88	0.79	0.70	4.2	2.0
Products 6a +12 +13 (Comb Tails)	46.95	0.83	1.19	4.6	3.4

Test No. F-44

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	207.9	10.60	61.2	14.8	65.9	8.2
2. Pb 4th Cl. Tail	26.1	1.33	40.7	23.8	5.5	1.7
3. Pb 3rd Cl. Tail	11.2	0.57	29.9	24.7	1.7	0.7
4. Pb 2nd Cl. Tail	21.8	1.11	16.9	29.3	1.9	1.7
5. Pb 1st Cl.Sc Conc	86.1	4.39	16.4	33.4	7.3	7.7
6a. Pb 1st Cl Sc Tail (to Zn Ro)	317.7	16.21	4.44	29.6	7.3	25.2
6b. Pb 1st Cl Sc Tail (Sample)	24.2	1.23	4.44	29.6	0.6	1.9
7. Zn Cl Conc	557.1	28.42	3.36	47.9	9.7	71.4
8. Zn 4th Cl Tail	23.8	1.21	4.8	15.1	0.6	1.0
9. Zn 3rd Cl Tail	23.7	1.21	4.24	11.8	0.5	0.7
10. Zn 2nd Cl Tail	94.1	4.80	3.47	8.26	1.7	2.1
11. Zn 1st Cl Sc Conc	48.5	2.47	2.6	5.39	0.7	0.7
12. Zn 1st Cl Sc Tail	163.5	8.34	1.34	1.26	1.1	0.8
13. Zn Ro Tail	672.5	34.30	0.81	0.86	2.8	1.5
Head Calc.	1960.5	100.00	9.85	19.1	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	11.94	58.9	15.8	71.4	9.9
Products 1-3 (Pb 2nd Cl Conc)	12.51	57.6	16.2	73.1	10.6
Products 1-4 (Pb 1st Cl Conc)	13.62	54.3	17.3	75.0	12.4
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	18.01	45.0	21.2	82.3	20.1
Products 1-6 (Pb Ro Conc)	35.45	25.1	25.3	90.2	47.1
Pb Ro Tail	64.55	1.50	15.6	9.8	52.9
Products 6a-6b (Pb 1st Cl Scav Tail)	17.44	4.44	29.6	7.9	27.1
Products 7-13 (Zn Ro Feed)	80.75	2.09	18.4	17.1	78.0
Products 7-8 (Zn 3rd Cl Conc)	29.63	3.42	46.6	10.3	72.4
Products 7-9 (Zn 2nd Cl Conc)	30.84	3.45	45.2	10.8	73.2
Products 7-10 (Zn 1st Cl Conc)	35.64	3.45	40.2	12.5	75.2
Products 7-12 (Zn Ro Conc)	48.45	3.03	31.4	14.3	76.5
Products 12+13 (Zn Tails)	42.64	0.91	0.94	4.0	2.1
Products 6a +12 +13 (Comb Tails)	43.88	1.01	1.74	4.5	4.0

Test No. F-45

Product	Weight		Assays, %		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	204.8	10.37	59.6	13.9	61.5	8.3
2. Pb 4th Cl. Tail	30.7	1.55	42.2	18.3	6.5	1.6
3. Pb 3rd Cl. Tail	53.9	2.73	36.4	20.7	9.9	3.3
4. Pb 2nd Cl. Tail	64.9	3.29	18.7	23.7	6.1	4.5
5. Pb 1st Cl.Sc Conc	41.1	2.08	12.8	24.3	2.6	2.9
6a. Pb 1st Cl Sc Tail (to Zn Ro)	451.5	22.85	3	21.1	6.8	27.9
6b. Pb 1st Cl Sc Tail (Sample)	18.4	0.93	3	21.1	0.3	1.1
7. Zn Cl Conc	456.4	23.10	2.65	49.5	6.1	66.1
8. Zn 4th Cl Tail	24.3	1.23	5.06	26.9	0.6	1.9
9. Zn 3rd Cl Tail	13.6	0.69	5.04	17.9	0.3	0.7
10. Zn 2nd Cl Tail	69.5	3.52	3.97	16.9	1.4	3.4
11. Zn 1st Cl Sc Conc	20.1	1.02	3.59	14	0.4	0.8
12. Zn 1st Cl Sc Tail	131.0	6.63	1.94	3.22	1.3	1.2
13. Zn Ro Tail	846.8	42.87	0.7	1.62	3.0	4.0
Head Calc.	1975.5	100.00	10.1	17.3	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	11.92	57.3	14.5	68.0	10.0
Products 1-3 (Pb 2nd Cl Conc)	14.65	53.4	15.6	77.9	13.2
Products 1-4 (Pb 1st Cl Conc)	17.93	47.1	17.1	84.0	17.7
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	20.02	43.5	17.9	86.6	20.7
Products 1-6 (Pb Ro Conc)	43.80	21.5	19.6	93.7	49.7
Pb Ro Tail	56.20	1.12	15.5	6.3	50.3
Products 6a-6b (Pb 1st Cl Scav Tail)	23.79	3.00	21.1	7.1	29.0
Products 7-13 (Zn Ro Feed)	79.05	1.66	17.1	13.1	78.2
Products 7-8 (Zn 3rd Cl Conc)	24.33	2.77	48.4	6.7	68.0
Products 7-9 (Zn 2nd Cl Conc)	25.02	2.83	47.5	7.1	68.7
Products 7-10 (Zn 1st Cl Conc)	28.54	2.97	43.7	8.4	72.1
Products 7-12 (Zn Ro Conc)	36.19	2.80	35.5	10.1	74.2
Products 12+13 (Zn Tails)	49.50	0.87	1.83	4.3	5.2
Products 6a +12 +13 (Comb Tails)	50.43	0.91	2.19	4.5	6.4

Test No. F-46

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	198.1	10.12	64.7	14.5	58.1	6.4
2. Pb 4th Cl. Tail	7.5	0.38	59.4	14.5	2.0	0.2
3. Pb 3rd Cl. Tail	4.6	0.24	48.6	17.6	1.0	0.2
4. Pb 2nd Cl. Tail	42.4	2.17	41.4	24.2	8.0	2.3
5. Pb 1st Cl.Sc Conc	94.9	4.85	26	33.2	11.2	7.0
6a. Pb 1st Cl Sc Tail (to Zn Ro)	367.5	18.78	6.8	30.2	11.3	24.7
6b. Pb 1st Cl Sc Tail (Sample)	23.2	1.19	6.8	30.2	0.7	1.6
7. Zn Cl Conc	551.9	28.21	3.96	55.6	9.9	68.3
8. Zn 4th Cl Tail	42.0	2.15	7.28	30.8	1.4	2.9
9. Zn 3rd Cl Tail	79.9	4.08	5.75	22.6	2.1	4.0
10. Zn 2nd Cl Tail	144.6	7.39	3.53	11.7	2.3	3.8
11. Zn 1st Cl Sc Tail	110.2	5.63	2.02	3.33	1.0	0.8
12. Zn Ro Tail	657.3	33.59	0.78	1.76	2.3	2.6
Head Calc.	1956.6	100.00	11.3	23.0	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	10.51	64.5	14.5	60.1	6.6
Products 1-3 (Pb 2nd Cl Conc)	10.74	64.2	14.6	61.1	6.8
Products 1-4 (Pb 1st Cl Conc)	12.91	60.3	16.2	69.1	9.1
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	17.76	51.0	20.8	80.3	16.1
Products 1-6 (Pb Ro Conc)	37.73	27.6	25.8	92.3	42.4
Pb Ro Tail	62.27	1.39	21.3	7.7	57.6
Products 6a-6b (Pb 1st Cl Scav Tail)	19.97	6.80	30.2	12.0	26.3
Products 7-13 (Zn Ro Feed)	81.05	2.65	23.3	19.0	62.3
Products 7-8 (Zn 3rd Cl Conc)	30.35	4.19	53.8	11.3	71.2
Products 7-9 (Zn 2nd Cl Conc)	34.44	4.38	50.1	13.4	75.2
Products 7-10 (Zn 1st Cl Conc)	41.83	4.23	43.3	15.7	78.9
Products 7-11 (Zn Ro Conc)	47.46	3.97	38.6	16.7	79.8
Products 11+12 (Zn Tails)	39.23	0.96	1.99	3.3	3.4
Products 6a +11 +12 (Comb Tails)	40.41	1.13	2.81	4.0	4.9

Test No. F-47

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	284.2	14.34	65.5	13.3	71.0	8.0
2. Pb 4th Cl. Tail	7.3	0.37	45.8	19.9	1.3	0.3
3. Pb 3rd Cl. Tail	11.4	0.58	38.5	22.4	1.7	0.5
4. Pb 2nd Cl. Tail	48.1	2.43	25.6	28.9	4.7	3.0
5. Pb 1st Cl.Sc Conc	99.6	5.03	21.7	32.6	8.2	6.9
6a. Pb 1st Cl Sc Tail (to Zn Ro)	675.6	34.10	4.82	30.2	12.4	43.3
6b. Pb 1st Cl Sc Tail (Sample)	20.8	1.05	4.82	30.2	0.4	1.3
7. Zn Cl Conc	587.1	29.63	3.18	56.1	7.1	69.9
8. Zn 4th Cl Tail	52.1	2.63	5.98	35	1.2	3.9
9. Zn 3rd Cl Tail	56.5	2.85	5.38	20.4	1.2	2.4
10. Zn 2nd Cl Tail	78.7	3.97	3.26	8.86	1.0	1.5
11. Zn 1st Cl Sc Conc	108.9	5.50	1.49	3.82	0.6	0.9
12. Zn 1st Cl Sc Tail	69.6	3.51	0.79	0.94	0.2	0.1
13. Zn Ro Tail	557.0	28.11	0.67	1.04	1.4	1.2
Head Calc.	1981.3	100.00	13.2	23.8	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	14.71	65.0	13.5	72.3	8.3
Products 1-3 (Pb 2nd Cl Conc)	15.29	64.0	13.8	74.0	8.9
Products 1-4 (Pb 1st Cl Conc)	17.72	58.7	15.9	78.7	11.8
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	22.74	50.6	19.6	86.9	18.7
Products 1-6 (Pb Ro Conc)	57.89	22.8	26.0	99.7	63.4
Pb Ro Tail	42.11	0.09	20.7	0.3	36.6
Products 6a-6b (Pb 1st Cl Scav Tail)	35.15	4.82	30.2	12.8	44.6
Products 7-13 (Zn Ro Feed)	76.21	2.21	24.9	12.7	80.0
Products 7-8 (Zn 3rd Cl Conc)	32.26	3.41	54.4	8.3	73.8
Products 7-9 (Zn 2nd Cl Conc)	35.11	3.57	51.6	9.5	76.2
Products 7-10 (Zn 1st Cl Conc)	39.09	3.54	47.3	10.5	77.7
Products 7-12 (Zn Ro Conc)	48.09	3.10	38.9	11.3	78.7
Products 12+13 (Zn Tails)	31.63	0.68	1.03	1.6	1.4
Products 6a +12 +13 (Comb Tails)	32.68	0.82	1.97	2.0	2.7

Test No. F-48

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	190.0	9.62	60.2	12.4	80.7	7.0
2. Pb 4th Cl. Tail	15.8	0.80	18.5	27.4	2.1	1.3
3. Pb 3rd Cl. Tail	21.6	1.09	15.5	30.2	2.4	1.9
4. Pb 2nd Cl. Tail	27.5	1.39	6.03	26.8	1.2	2.2
5. Pb 1st Cl.Sc Conc	24.8	1.26	10.4	32.9	1.8	2.4
6a. Pb 1st Cl Sc Tail (to Zn Ro)	253.5	12.83	2.1	19.5	3.8	14.8
6b. Pb 1st Cl Sc Tail (Sample)	22.4	1.13	2.1	19.5	0.3	1.3
7. Zn Cl Conc	437.0	22.12	1.51	57	4.7	74.4
8. Zn 4th Cl Tail	20.6	1.04	2.97	20.9	0.4	1.3
9. Zn 3rd Cl Tail	16.6	0.84	2.71	14.8	0.3	0.7
10. Zn 2nd Cl Tail	37.1	1.88	2.19	9.78	0.6	1.1
11. Zn 1st Cl Sc Conc	20.1	1.02	2.27	15.8	0.3	0.9
12. Zn 1st Cl Sc Tail	125.7	6.36	1.25	2.73	1.1	1.0
13. Zn Ro Tail	1016.6	51.45	0.57	1.4	4.1	4.3
Head Calc.	1975.8	100.00	7.17	16.9	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	10.42	57.0	13.6	82.8	8.3
Products 1-3 (Pb 2nd Cl Conc)	11.51	53.1	15.1	85.2	10.3
Products 1-4 (Pb 1st Cl Conc)	12.90	48.0	16.4	86.3	12.5
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	14.16	44.7	17.9	89.2	14.9
Products 1-6 (Pb Ro Conc)	28.12	23.5	18.7	92.3	31.0
Pb Ro Tail	71.88	0.77	16.3	7.7	69.0
Products 6a-6b (Pb 1st Cl Scav Tail)	13.96	2.10	19.5	4.1	16.1
Products 7-13 (Zn Ro Feed)	84.71	0.97	16.7	11.5	83.8
Products 7-8 (Zn 3rd Cl Conc)	23.16	1.58	55.4	5.1	75.7
Products 7-9 (Zn 2nd Cl Conc)	24.00	1.62	54.0	5.4	76.5
Products 7-10 (Zn 1st Cl Conc)	25.88	1.66	50.7	6.0	77.5
Products 7-10 (Zn 1st Cl+Cl Scav Concs)	26.90	1.68	49.4	6.3	78.5
Products 7-12 (Zn Ro Conc)	33.26	1.60	40.5	7.4	79.5
Products 12+13 (Zn Tails)	57.81	0.64	1.55	5.2	5.3
Products 6a +12 +13 (Comb Tails)	58.95	0.67	1.89	5.5	6.6

Test No. F-49

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	132.2	6.70	62.6	11.2	63.4	4.3
2. Pb 4th Cl. Tail	20.9	1.06	44.8	17.3	7.2	1.0
3. Pb 3rd Cl. Tail	36.0	1.83	33	21.2	9.1	2.2
4. Pb 2nd Cl. Tail	40.0	2.03	13.9	25.2	4.3	2.9
5. Pb 1st Cl.Sc Conc	19.7	1.00	10.8	30	1.6	1.7
6a. Pb 1st Cl Sc Tail (to Zn Ro)	186.5	9.46	2.61	20.4	3.7	11.0
6b. Pb 1st Cl Sc Tail (Sample)	20.1	1.02	2.61	20.4	0.4	1.2
7. Zn Cl Conc	434.8	22.05	1.53	57.4	5.1	72.0
8. Zn 4th Cl Tail	30.2	1.53	3.26	29.1	0.8	2.5
9. Zn 3rd Cl Tail	46.9	2.38	3	21.8	1.1	3.0
10. Zn 2nd Cl Tail	49.8	2.53	2.32	15.9	0.9	2.3
11. Zn 1st Cl Sc Conc	30.0	1.52	2.39	19.6	0.5	1.7
12. Zn 1st Cl Sc Tail	142.5	7.23	1.5	3.72	1.6	1.5
13. Zn Ro Tail	969.1	49.14	0.54	1.31	4.0	3.7
Head Calc.	1972.2	100.00	6.62	17.6	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	7.76	60.2	12.0	70.6	5.3
Products 1-3 (Pb 2nd Cl Conc)	9.59	55.0	13.8	79.7	7.5
Products 1-4 (Pb 1st Cl Conc)	11.62	47.8	15.8	84.0	10.4
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	12.62	44.9	16.9	85.6	12.1
Products 1-6 (Pb Ro Conc)	23.09	25.7	18.5	89.7	24.3
Pb Ro Tail	76.91	0.88	17.3	10.3	75.7
Products 6a-6b (Pb 1st Cl Scav Tail)	10.48	2.61	20.4	4.1	12.2
Products 7-13 (Zn Ro Feed)	86.37	1.07	17.6	14.0	86.7
Products 7-8 (Zn 3rd Cl Conc)	23.58	1.64	55.6	5.9	74.6
Products 7-9 (Zn 2nd Cl Conc)	25.96	1.77	52.5	6.9	77.5
Products 7-10 (Zn 1st Cl Conc)	28.48	1.82	49.2	7.8	79.8
Products 7-10 (Zn 1st Cl+Cl Scav Concs)	30.00	1.84	47.7	8.4	81.5
Products 7-12 (Zn Ro Conc)	37.23	1.78	39.2	10.0	83.0
Products 12+13 (Zn Tails)	56.36	0.66	1.62	5.8	5.2
Products 6a +12 +13 (Comb Tails)	57.38	0.70	1.95	6.1	6.4

Test No. F-50

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	250.5	12.75	69.2	9.16	75.8	5.4
2. Pb 4th Cl. Tail	7.0	0.35	48.7	13.1	1.5	0.2
3. Pb 3rd Cl. Tail	16.2	0.82	42.8	18.2	3.0	0.7
4. Pb 2nd Cl. Tail	27.0	1.37	29.2	22.5	3.4	1.4
5. Pb 1st Cl.Sc Conc	56.6	2.88	18.9	25.8	4.7	3.4
6a. Pb 1st Cl Sc Tail (to Zn Ro)	244.9	12.47	4.61	24.3	4.9	13.9
6b. Pb 1st Cl Sc Tail (Sample)	27.7	1.41	4.61	24.3	0.6	1.6
7. Zn Cl Conc	608.7	30.99	2.44	54.3	6.5	77.1
8. Zn 4th Cl Tail	55.2	2.81	2.91	25.3	0.7	3.3
9. Zn 3rd Cl Tail	50.6	2.58	2.84	23.5	0.6	2.8
10. Zn 2nd Cl Tail	53.5	2.72	2.44	7.04	0.6	0.9
11. Zn 1st Cl Tail	176.3	8.98	1.53	4.94	1.2	2.0
12. Zn Ro Tail	635.0	32.33	0.53	0.87	1.5	1.3
Head Calc.	1964.3	100.00	11.6	21.8	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	13.11	68.6	9.27	77.3	5.6
Products 1-3 (Pb 2nd Cl Conc)	13.93	67.1	9.80	80.3	6.3
Products 1-4 (Pb 1st Cl Conc)	15.31	63.7	10.9	83.8	7.7
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	18.19	56.6	13.3	88.4	11.1
Products 1-6 (Pb Ro Conc)	32.07	34.1	18.1	93.9	26.5
Pb Ro Tail	67.93	1.04	23.6	6.1	73.5
Products 6a-6b (Pb 1st Cl Scav Tail)	13.88	4.61	24.3	5.5	15.5
Products 7-13 (Zn Ro Feed)	80.40	1.59	23.7	11.0	87.4
Products 7-8 (Zn 3rd Cl Conc)	33.80	2.48	51.9	7.2	80.4
Products 7-9 (Zn 2nd Cl Conc)	36.38	2.49	49.9	7.8	83.2
Products 7-10 (Zn 1st Cl Conc)	39.10	2.49	46.9	8.4	84.0
Products 7-11 (Zn Ro Conc)	48.07	2.31	39.1	9.5	86.1
Products 11+12 (Zn Tails)	41.30	0.75	1.75	2.7	3.3
Products 6a +11 +12 (Comb Tails)	42.71	0.87	2.50	3.2	4.9

Test No. F-51

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	246.3	12.61	60	13.3	75.1	8.2
2. Pb 4th Cl. Tail	20.2	1.03	31.2	19.8	3.2	1.0
3. Pb 3rd Cl. Tail	47.8	2.45	26.1	25.2	6.3	3.0
4. Pb 2nd Cl. Tail	45.8	2.35	9.69	30.4	2.3	3.5
5. Pb 1st Cl.Sc Conc	53.0	2.71	12.6	29.4	3.4	3.9
6a. Pb 1st Cl Sc Tail (to Zn Ro)	135.4	6.93	3.49	31.9	2.4	10.8
6b. Pb 1st Cl Sc Tail (Sample)	11.6	0.59	3.49	31.9	0.2	0.9
7. Zn Cl Conc	542.4	27.78	1.68	54.2	4.6	73.3
8. Zn 4th Cl Tail	28.1	1.44	4.96	21.8	0.7	1.5
9. Zn 3rd Cl Tail	110.7	5.67	2	4.72	1.1	1.3
10. Zn 2nd Cl Tail	52.2	2.67	3.66	13.1	1.0	1.7
11. Zn 1st Cl Sc Conc	15.9	0.81	1.49	3.04	0.1	0.1
12. Zn 1st Cl Sc Tail	49.0	2.51	1.21	1.33	0.3	0.2
13. Zn Ro Tail	729.5	37.36	0.46	0.78	1.7	1.4
Head Calc.	1952.5	100.00	10.1	20.5	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	13.65	57.8	13.8	78.3	9.2
Products 1-3 (Pb 2nd Cl Conc)	16.10	53.0	15.5	84.6	12.2
Products 1-4 (Pb 1st Cl Conc)	18.44	47.5	17.4	86.8	15.6
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	21.16	43.0	19.0	90.2	19.5
Products 1-6 (Pb Ro Conc)	28.69	32.6	22.4	92.8	31.2
Pb Ro Tail	71.31	1.01	19.8	7.2	68.8
Products 6a-6b (Pb 1st Cl Scav Tail)	7.53	3.49	31.9	2.6	11.7
Products 7-13 (Zn Ro Feed)	78.25	1.23	20.9	9.6	79.5
Products 7-8 (Zn 3rd Cl Conc)	29.22	1.84	52.6	5.3	74.8
Products 7-9 (Zn 2nd Cl Conc)	34.89	1.87	44.8	6.5	76.1
Products 7-10 (Zn 1st Cl Conc)	37.56	1.99	42.6	7.4	77.8
Products 7-10 (Zn 1st Cl+Cl Scav Concs)	38.38	1.98	41.7	7.6	78.0
Products 7-12 (Zn Ro Conc)	40.89	1.94	39.2	7.9	78.1
Products 12+13 (Zn Tails)	39.87	0.51	0.81	2.0	1.6
Products 6a +12 +13 (Comb Tails)	40.47	0.55	1.27	2.2	2.5

Test No. F-52

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	312.5	15.85	59.5	15	83.6	10.1
2. Pb 4th Cl. Tail	8.0	0.41	26.7	22	1.0	0.4
3. Pb 3rd Cl. Tail	23.1	1.17	20	29.7	2.1	1.5
4. Pb 2nd Cl. Tail	74.5	3.78	10.6	34.8	3.5	5.6
5. Pb 1st Cl.Sc Conc	48.4	2.46	11.4	33.8	2.5	3.5
6a. Pb 1st Cl Sc Tail (to Zn Ro)	176.9	8.97	2.49	36.7	2.0	14.0
6b. Pb 1st Cl Sc Tail (Sample)	11.9	0.60	2.49	36.7	0.1	0.9
7. Zn Cl Conc	580.3	29.44	1.3	56.4	3.4	70.7
8. Zn 4th Cl Tail	24.2	1.23	3.54	27.4	0.4	1.4
9. Zn 3rd Cl Tail	39.4	2.00	3.28	20.7	0.6	1.8
10. Zn 2nd Cl Tail	118.3	6.00	1.88	9.07	1.0	2.3
11. Zn 1st Cl Sc Conc	83.4	4.23	0.92	3.18	0.3	0.6
12. Zn 1st Cl Sc Tail	96.9	4.92	0.98	1.41	0.4	0.3
13. Zn Ro Tail	550.5	27.92	0.45	0.7	1.1	0.8
Head Calc.	1971.4	100.00	11.3	23.5	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	16.26	58.7	15.2	84.5	10.5
Products 1-3 (Pb 2nd Cl Conc)	17.43	56.1	16.2	86.6	12.0
Products 1-4 (Pb 1st Cl Conc)	21.21	48.0	19.5	90.1	17.6
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	23.66	44.2	21.0	92.6	21.1
Products 1-6 (Pb Ro Conc)	33.24	32.2	25.5	94.7	36.1
Pb Ro Tail	66.78	0.89	22.5	5.3	63.9
Products 6a-6b (Pb 1st Cl Scav Tail)	9.58	2.49	36.7	2.1	15.0
Products 7-13 (Zn Ro Feed)	75.73	1.08	24.2	7.2	77.9
Products 7-8 (Zn 3rd Cl Conc)	30.88	1.39	55.2	3.8	72.1
Products 7-9 (Zn 2nd Cl Conc)	32.88	1.51	53.1	4.4	73.9
Products 7-10 (Zn 1st Cl Conc)	38.66	1.56	46.3	5.4	76.2
Products 7-10 (Zn 1st Cl+Cl Scav Concs)	42.89	1.50	42.0	5.7	76.8
Products 7-12 (Zn Ro Conc)	47.81	1.45	37.9	6.1	77.1
Products 12+13 (Zn Tails)	32.84	0.53	0.81	1.5	1.1
Products 6a +12 +13 (Comb Tails)	33.44	0.56	1.45	1.7	2.1

Test No. F-53

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	265.4	15.47	63.4	12.5	83.3	7.6
2. Pb 4th Cl. Tail	11.8	0.69	29	21.3	1.7	0.6
3. Pb 3rd Cl. Tail	28.6	1.67	24.6	26.4	3.5	1.7
4. Pb 2nd Cl. Tail	64.6	3.77	9.5	32.6	3.0	4.8
5. Pb 1st Cl.Sc Conc	42.5	2.48	7	29.5	1.5	2.9
6a. Pb 1st Cl Sc Tail (to Zn Ro)	165.1	9.62	1.8	34.8	1.5	13.1
6b. Pb 1st Cl Sc Tail (Sample)	11.2	0.65	1.8	34.8	0.1	0.9
7. Zn Cl Conc	562.1	32.76	1.28	57.1	3.6	73.4
8. Zn 4th Cl Tail	24.7	1.44	3.94	31.3	0.5	1.8
9. Zn 3rd Cl Tail	42.4	2.47	3.08	24.9	0.6	2.4
10. Zn 2nd Cl Tail	90.0	5.25	2	12.9	0.9	2.7
11. Zn 1st Cl Sc Conc	52.8	3.08	0.76	2.55	0.2	0.3
12. Zn 1st Cl Sc Tail	64.1	3.74	1.05	1.66	0.3	0.2
13. Zn Ro Tail	455.6	26.55	0.34	0.78	0.8	0.8
Head Calc.	1715.8	100.00	11.8	25.5	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	16.16	61.9	12.9	85.0	8.2
Products 1-3 (Pb 2nd Cl Conc)	17.82	58.4	14.1	88.5	9.9
Products 1-4 (Pb 1st Cl Conc)	21.59	49.9	17.4	91.5	14.7
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	24.06	45.5	18.6	93.0	17.6
Products 1-6 (Pb Ro Conc)	34.34	32.4	23.5	94.6	31.6
Pb Ro Tail	65.66	0.97	26.6	5.4	68.4
Products 6a-6b (Pb 1st Cl Scav Tail)	10.28	1.80	34.8	1.6	14.0
Products 7-13 (Zn Ro Feed)	75.28	1.08	27.6	6.9	81.5
Products 7-8 (Zn 3rd Cl Conc)	34.20	1.39	56.0	4.0	75.1
Products 7-9 (Zn 2nd Cl Conc)	38.87	1.51	53.9	4.7	77.5
Products 7-10 (Zn 1st Cl Conc)	41.92	1.57	48.8	5.6	80.2
Products 7-10 (Zn 1st Cl+Cl Scav Concs)	44.99	1.51	45.6	5.8	80.5
Products 7-12 (Zn Ro Conc)	48.73	1.48	42.3	6.1	80.7
Products 12+13 (Zn Tails)	30.29	0.43	0.89	1.1	1.1
Products 6a +12 +13 (Comb Tails)	30.94	0.46	1.60	1.2	1.9

Test No. F-54

Product	Weight		Assays,%		% Distribution	
	g	%	Pb	Zn	Pb	Zn
1. Pb Cl. Conc.	304.5	15.51	63	12.1	82.7	7.8
2. Pb 4th Cl. Tail	20.9	1.06	33.3	21.5	3.0	1.0
3. Pb 3rd Cl. Tail	27.4	1.40	19.2	27.1	2.3	1.6
4. Pb 2nd Cl. Tail	72.0	3.67	9.51	29.1	3.0	4.4
5. Pb 1st Cl.Sc Conc	50.2	2.56	7.61	27.7	1.6	2.9
6a. Pb 1st Cl Sc Tail (to Zn Ro)	192.3	9.79	2.11	28	1.7	11.4
6b. Pb 1st Cl Sc Tail (Sample)	12.5	0.64	2.11	28	0.1	0.7
7. Zn Cl Conc	600.8	30.60	1.46	57.7	3.8	73.3
8. Zn 4th Cl Tail	34.1	1.74	3.43	26.4	0.5	1.9
9. Zn 3rd Cl Tail	56.8	2.89	2.87	24.1	0.7	2.9
10. Zn 2nd Cl Tail	79.3	4.04	1.96	9.35	0.7	1.6
11. Zn 1st Cl Sc Conc	54.6	2.78	1.25	6.02	0.3	0.7
12. Zn 1st Cl Sc Tail	99.9	5.09	0.94	1.75	0.4	0.4
13. Zn Ro Tail	550.5	28.04	0.42	0.71	1.0	0.8
Head Calc.	1963.5	100.00	11.8	24.1	100.0	100.0

Combined Products

Products 1+2 (Pb 3rd Cl Conc)	16.57	61.1	12.7	85.7	8.7
Products 1-3 (Pb 2nd Cl Conc)	17.97	57.8	13.8	87.9	10.3
Products 1-4 (Pb 1st Cl Conc)	21.63	49.6	16.4	90.9	14.7
Products 1-5 (Pb 1st Cl + Cl Scav Concs)	24.19	45.2	17.6	92.5	17.7
Products 1-6 (Pb Ro Conc)	34.62	32.2	20.7	94.4	29.8
Pb Ro Tail	65.38	1.01	25.9	5.6	70.2
Products 6a-6b (Pb 1st Cl Scav Tail)	10.43	2.11	28.0	1.9	12.1
Products 7-13 (Zn Ro Feed)	75.17	1.16	26.1	7.4	81.6
Products 7-8 (Zn 3rd Cl Conc)	32.34	1.57	56.0	4.3	75.2
Products 7-9 (Zn 2nd Cl Conc)	35.23	1.67	53.4	5.0	78.1
Products 7-10 (Zn 1st Cl Conc)	39.27	1.70	48.9	5.7	79.7
Products 7-10 (Zn 1st Cl+Cl Scav Concs)	42.05	1.67	46.0	6.0	80.4
Products 7-12 (Zn Ro Conc)	47.14	1.59	41.3	6.4	80.7
Products 12+13 (Zn Tails)	33.12	0.50	0.87	1.4	1.2
Products 6a +12 +13 (Comb Tails)	33.76	0.53	1.38	1.5	1.9

Table No. : Flotation Results

Test No.	Sample No.	Product	Weight %	Assays, %		% Distribution	
				Pb	Zn	Pb	Zn
48	64827	Pb 4th Cl Conc	9.62	60.2	12.4	80.7	7.0
		Pb 1st Cl Conc	12.90	48.0	16.4	86.3	12.5
		Pb Ro Conc	28.12	23.5	18.7	92.3	31.0
		Pb Ro Tail	71.88	0.77	16.3	7.7	69.0
		Zn Cl Conc	22.12	1.51	57.0	4.7	74.4
		Zn Ro Conc	33.26	1.60	40.5	7.4	79.5
		Zn Ro Tail	51.45	0.57	1.40	4.1	4.3
		Zn Ro Feed	84.71	0.97	16.7	11.5	83.8
		Head (calc.)	100.00	7.17	16.9	100.0	100.0
49	64828	Pb 4th Cl Conc	6.70	62.6	11.2	63.4	4.3
		Pb 1st Cl Conc	11.62	47.8	15.8	84.0	10.4
		Pb Ro Conc	23.09	25.7	18.5	89.7	24.3
		Pb Ro Tail	76.91	0.88	17.3	10.3	75.7
		Zn Cl Conc	22.05	1.53	57.4	5.1	72.0
		Zn Ro Conc	37.23	1.78	39.2	10.0	83.0
		Zn Ro Tail	49.14	0.54	1.31	4.0	3.7
		Zn Ro Feed	86.37	1.07	17.6	14.0	86.7
		Head (calc.)	100.00	6.62	17.6	100.0	100.0
50	64830	Pb 4th Cl Conc	12.75	69.2	9.16	75.8	5.4
		Pb 1st Cl Conc	15.31	63.7	10.9	83.8	7.7
		Pb Ro Conc	32.07	34.1	18.1	93.9	26.5
		Pb Ro Tail	67.93	1.04	23.6	6.1	73.5
		Zn Cl Conc	30.99	2.44	54.3	6.5	77.1
		Zn Ro Conc	48.07	2.31	39.1	9.5	86.1
		Zn Ro Tail	32.93	0.53	0.87	1.5	1.3
		Zn Ro Feed	80.40	1.59	23.7	11.0	87.4
		Head (calc.)	100.00	11.6	21.8	100.0	100.0
51	64831	Pb 4th Cl Conc	12.61	60.0	13.3	75.1	8.2
		Pb 1st Cl Conc	18.44	47.5	17.4	86.8	15.6
		Pb Ro Conc	28.69	32.6	22.4	92.8	31.2
		Pb Ro Tail	71.31	1.01	19.8	7.2	68.8
		Zn Cl Conc	27.78	1.68	54.2	4.6	73.3
		Zn Ro Conc	40.89	1.94	39.2	7.9	78.1
		Zn Ro Tail	37.36	0.46	0.78	1.7	1.4
		Zn Ro Feed	78.25	1.23	20.9	9.6	79.5
		Head (calc.)	100.00	10.1	20.5	100.0	100.0
52	64832	Pb 4th Cl Conc	15.85	59.5	15.0	83.6	10.1
		Pb 1st Cl Conc	21.21	48.0	19.5	90.1	17.6
		Pb Ro Conc	33.24	32.2	25.5	94.7	36.1
		Pb Ro Tail	66.76	0.89	22.5	5.3	63.9
		Zn Cl Conc	29.44	1.30	56.4	3.4	70.7
		Zn Ro Conc	47.81	1.45	37.9	6.1	77.1
		Zn Ro Tail	27.92	0.45	0.70	1.1	0.8
		Zn Ro Feed	75.73	1.08	24.2	7.2	77.9
		Head (calc.)	100.00	11.3	23.5	100.0	100.0

Table No. : Flotation Results

Test No.	Sample No.	Product	Weight %	Assays,%		% Distribution	
				Pb	Zn	Pb	Zn
53	64833	Pb 4th Cl Conc	15.47	63.4	12.5	83.3	7.6
		Pb 1st Cl Conc	21.59	49.9	17.4	91.5	14.7
		Pb Ro Conc	34.34	32.4	23.5	94.6	31.6
		Pb Ro Tail	65.66	0.97	26.6	5.4	68.4
		Zn Cl Conc	32.76	1.28	57.1	3.6	73.4
		Zn Ro Conc	48.73	1.48	42.3	6.1	80.7
		Zn Ro Tail	28.55	0.34	0.78	0.8	0.8
		Zn Ro Feed	75.28	1.08	27.6	6.9	81.5
		Head (calc.)	100.00	11.8	25.5	100.0	100.0
54	64834	Pb 4th Cl Conc	15.51	63.0	12.1	82.7	7.8
		Pb 1st Cl Conc	21.63	49.6	16.4	90.9	14.7
		Pb Ro Conc	34.82	32.2	20.7	94.4	29.8
		Pb Ro Tail	65.38	1.01	25.9	5.6	70.2
		Zn Cl Conc	30.60	1.46	57.7	3.8	73.3
		Zn Ro Conc	47.14	1.59	41.3	6.4	80.7
		Zn Ro Tail	28.04	0.42	0.71	1.0	0.8
		Zn Ro Feed	75.17	1.18	26.1	7.4	81.6
		Head (calc.)	100.00	11.8	24.1	100.0	100.0

TEST NO. F-20

Purpose: To repeat the conditions of Test F-1, but use 37084 ore.

Procedure: As for Test F-1.

Feed: 2000 grams of minus 10 mesh - 37084 ore.

Grind: 40 minutes at 65% solids in the lab ball mill.

Conditions:

Stage	Reagents Added, grams per tonne				Time, minutes			pH
	Na ₂ CO ₃	PKD Complex	A317 3418A	MIBC	Grind	Cond.	Froth	
Primary Grind	2000	250	8	-	40	-	-	-
Pb Rougher	-	-	35	10	-	1	1.7	9.4
	-	-	10	2.5	-	-	0.7	9.3
Pb Conc Re grind*	500	75	15	-	40	-	-	-
Pb 1st Cleaner	-	-	10	5	-	1	1.7	-
	-	-	5	2.5	-	1	0.7	9.9
Pb 1st Cl Scav	-	-	10	5	-	1	-	9.8
Pb 2nd Cleaner	-	25	5	2.5	-	1	1.5	9.6
	-	-	3.5	5	-	1	1	-
Pb 3rd Cleaner	-	25	7.5	2.5	-	1	1	9.3
	-	-	-	2.5	-	1	1	-
Pb 4th Cleaner	-	25	2.5	-	-	1	1	9.0
	-	-	-	2.5	-	-	1	-
Zinc Circuit:	Ca(OH) ₂	CuSO ₄	A343	DF1012				
Condition	2000	-	-	-	-	5	-	11.8
Condition	-	1500	-	-	-	5	-	11.0
Zn Rougher	-	-	40	10	-	1	1.3	-
	-	-	25	5	-	1	0.7	10.7
Zn Conc Re grind**	1000	200	-	-	30	-	-	-
H.I. Conditioning	-	-	40	10	-	15	-	-
Zn 1st Cleaner	-	-	-	-	-	-	1.5	11.7
	-	-	15	-	-	1	1.5	-
Zn 1st Cl Scav	-	-	15	2.5	-	1	1	11.4
Zn 2nd Cleaner	500	-	5	-	-	1	2	12.0
	-	-	7.5	2.5	-	-	-	-
Zn 3rd Cleaner	250	-	-	-	-	1	2	12.1
	-	-	7.5	-	-	-	0.5	-
Zn 4th Cleaner	105	-	-	-	-	1	2.5	12.0

rod mill

* pebble mill

Observations: Similar to Test F-19, i.e. fairly selective Pb rougher flotation, with some Zn floating in the later stages.

Similar to Test F-18, very fast Zn flotation, deep brown froth. Zn recovery better than in Test F-19.

Figure No. : Flowsheet Used In Batch Tests

