Coal Plant A - Test 2

Data As-Received

Size Class Passing (mesh)	Size Class Retained (mesh)	Size Class Passing (mm)	Size Class Retained (mm)	Mean (mm)	Feed Individual Mass (%)	Feed Cumulative Mass (%)	Feed Individual Ash (%)	Feed Cumulative Ash (%)	Feed Individual Sulfur (%)	Feed Cumulative Sulfur (%)	Product Individual Mass (%)	Product Cumulative Mass (%)	Product Individual Ash (%)	Product Cumulative Ash (%)	Product Individual Sulfur (%)	Product Cumulative Sulfur (%)	Tailings Individual Mass (%)	Tailings Cumulative Mass (%)	Tailings Individual Ash (%)	Tailings Cumulative Ash (%)	Tailings Individual Sulfur (%)	Tailings Cumulative Sulfur (%)	Results Individual Yield (%)	Results Individual Recovery (%)	Results Individual Sul-Rej (%)	Results Cumulative Yield (%)	Results Cumulative Recovery (%)	Results Cumulative Sul-Rej (%)
---	10	---	1.70	1.70	2.38	2.38	14.02	14.02	1.88	1.88	0.31	0.31	4.69	4.69	1.49	1.49	14.28	14.28	55.27	55.27	3.19	3.18	81.55	90.40	35.36	81.55	90.40	35.36
10	14	1.70	1.18	1.42	8.48	10.86	10.94	11.61	1.45	1.54	3.03	3.34	4.51	4.53	1.49	1.49	17.43	31.71	56.50	55.95	4.95	4.15	87.63	93.96	9.95	86.21	93.13	16.81
14	28	1.18	0.60	0.84	38.89	49.75	11.77	11.74	1.55	1.55	52.96	56.30	5.12	5.08	1.62	1.61	41.99	73.70	65.00	61.10	5.76	5.07	88.89	95.59	7.09	88.13	94.77	8.26
28	60	0.60	0.25	0.39	26.53	76.28	11.45	11.64	2.03	1.72	22.33	78.63	6.34	5.44	1.79	1.66	19.76	93.46	74.20	63.87	9.16	5.93	92.47	97.81	18.46	89.40	95.67	13.38
60	100	0.25	0.15	0.19	11.49	87.77	12.99	11.81	2.24	1.78	9.37	88.00	9.62	5.89	2.27	1.73	4.45	97.91	68.68	64.09	13.74	6.29	94.29	97.95	4.44	89.82	95.85	13.07
100	---	0.15	---	0.15	12.23	100.00	28.28	13.83	5.35	2.22	12.00	100.00	26.31	8.34	5.64	2.20	2.09	100.00	69.58	64.21	24.07	6.66	95.45	98.07	-0.62	90.17	95.92	10.79

Data Normalized w/o +10 Material

Size Class Passing (mesh)	Size Class Retained (mesh)	Size Class Passing (mm)	Size Class Retained (mm)	Mean (mm)	Feed Individual Mass (%)	Feed Cumulative Mass (%)	Feed Individual Ash (%)	Feed Cumulative Ash (%)	Feed Individual Sulfur (%)	Feed Cumulative Sulfur (%)	Product Individual Mass (%)	Product Cumulative Mass (%)	Product Individual Ash (%)	Product Cumulative Ash (%)	Product Individual Sulfur (%)	Product Cumulative Sulfur (%)	Tailings Individual Mass (%)	Tailings Cumulative Mass (%)	Tailings Individual Ash (%)	Tailings Cumulative Ash (%)	Tailings Individual Sulfur (%)	Tailings Cumulative Sulfur (%)	Results Individual Yield (%)	Results Individual Recovery (%)	Results Individual Sul-Rej (%)	Results Cumulative Yield (%)	Results Cumulative Recovery (%)	Results Cumulative Sul-Rej (%)
---	10	---	1.70	1.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	14	1.70	1.18	1.42	8.69	8.69	10.94	10.94	1.45	1.45	3.04	3.04	4.51	4.51	1.49	1.49	20.33	20.33	56.50	56.50	4.95	4.95	87.63	93.96	9.95	87.63	93.96	9.95
14	28	1.18	0.60	0.84	39.84	48.52	11.77	11.62	1.55	1.53	53.12	56.16	5.12	5.09	1.62	1.61	48.99	69.32	65.00	62.51	5.76	5.52	88.89	95.59	7.09	88.62	95.17	8.70
28	60	0.60	0.25	0.39	27.18	75.70	11.45	11.56	2.03	1.71	22.40	78.56	6.34	5.44	1.79	1.66	23.05	92.37	74.20	65.42	9.16	6.43	92.47	97.81	18.46	89.80	96.01	12.68
60	100	0.25	0.15	0.19	11.77	87.47	12.99	11.75	2.24	1.78	9.40	87.96	9.62	5.89	2.27	1.73	5.19	97.56	68.68	65.60	13.74	6.82	94.29	97.95	4.44	90.18	96.17	12.54
100	---	0.15	---	0.15	12.53	100.00	28.28	13.82	5.35	2.23	12.04	100.00	26.31	8.35	5.64	2.20	2.44	100.00	69.58	65.70	24.07	7.24	95.45	98.07	-0.62	90.45	96.20	10.76

Results

	Feed (% Ash)	Product (% Ash)	Product (% Sulfur	Tailings (% Ash)	Yield (%)	Recovery (%)
As Tested	13.83	8.34	2.20	64.21	90.17	95.92
+10 x 60	11.64	5.44	1.66	63.87	89.40	95.67
+10 x 100	11.81	5.89	1.73	64.09	89.82	95.85
10 x 60	11.56	5.44	1.66	65.42	89.80	96.01
10 x 100	11.75	5.89	1.73	65.60	90.18	96.17

Coal Plant A - Test 2

Data As-Received

Size Class Passing (mesh)	Size Class Retained (mesh)	Size Class Passing (mm)	Size Class Retained (mm)	Mean (mm)	Feed Individual Mass (%)	Feed Cumulative Mass (%)	Feed Individual Ash (%)	Feed Cumulative Ash (%)	Feed Individual Sulfur (%)	Feed Cumulative Sulfur (%)	Product Individual Mass (%)	Product Cumulative Mass (%)	Product Individual Ash (%)	Product Cumulative Ash (%)	Product Individual Sulfur (%)	Product Cumulative Sulfur (%)	Tailings Individual Mass (%)	Tailings Cumulative Mass (%)	Tailings Individual Ash (%)	Tailings Cumulative Ash (%)	Tailings Individual Sulfur (%)	Tailings Cumulative Sulfur (%)	Results Individual Yield (%)	Results Individual Recovery (%)	Results Individual Sul-Rej (%)	Results Cumulative Yield (%)	Results Cumulative Recovery (%)	Results Cumulative Sul-Rej (%)
---	10	---	1.70	1.70	2.38	2.38	14.02	14.02	1.88	1.88	0.31	0.31	4.69	4.69	1.49	1.49	14.28	14.28	55.27	55.27	3.18	3.18	81.55	90.40	35.36	81.55	90.40	35.36
10	14	1.70	1.18	1.42	8.48	10.86	10.94	11.61	1.45	1.54	3.03	3.34	4.51	4.53	1.49	1.49	17.43	31.71	56.50	55.95	4.95	4.15	87.63	93.96	9.95	86.21	93.13	16.81
14	28	1.18	0.60	0.84	38.83	49.75	11.77	11.74	1.55	1.55	52.96	56.30	5.12	5.08	1.62	1.61	41.99	73.70	65.00	61.10	5.76	5.07	88.89	95.59	7.09	88.13	94.77	8.26
28	60	0.60	0.25	0.39	26.53	76.28	11.45	11.64	2.03	1.72	22.93	78.63	6.34	5.44	1.79	1.66	19.76	93.46	74.20	63.87	9.16	5.93	92.47	97.81	18.46	89.40	95.67	13.38
60	100	0.25	0.15	0.19	11.49	87.77	12.99	11.81	2.24	1.78	9.37	88.00	9.62	5.89	2.27	1.73	4.45	97.91	68.68	64.09	13.74	6.29	94.29	97.95	4.44	89.82	95.85	13.07
100	---	0.15	---	0.15	12.23	100.00	28.28	13.83	5.35	2.22	12.00	100.00	26.31	8.34	5.64	2.20	2.09	100.00	69.58	64.21	24.07	6.66	95.45	98.07	-0.62	90.17	95.92	10.79

Data Normalized w/o +10 Material

Size Class Passing (mesh)	Size Class Retained (mesh)	Size Class Passing (mm)	Size Class Retained (mm)	Mean (mm)	Feed Individual Mass (%)	Feed Cumulative Mass (%)	Feed Individual Ash (%)	Feed Cumulative Ash (%)	Feed Individual Sulfur (%)	Feed Cumulative Sulfur (%)	Product Individual Mass (%)	Product Cumulative Mass (%)	Product Individual Ash (%)	Product Cumulative Ash (%)	Product Individual Sulfur (%)	Product Cumulative Sulfur (%)	Tailings Individual Mass (%)	Tailings Cumulative Mass (%)	Tailings Individual Ash (%)	Tailings Cumulative Ash (%)	Tailings Individual Sulfur (%)	Tailings Cumulative Sulfur (%)	Results Individual Yield (%)	Results Individual Recovery (%)	Results Individual Sul-Rej (%)	Results Cumulative Yield (%)	Results Cumulative Recovery (%)	Results Cumulative Sul-Rej (%)
---	10	---	1.70	1.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	14	1.70	1.18	1.42	8.69	8.69	10.94	10.94	1.45	1.45	3.04	3.04	4.51	4.51	1.49	1.49	20.33	20.33	56.50	56.50	4.95	4.95	87.63	93.96	9.95	87.63	93.96	9.95
14	28	1.18	0.60	0.84	39.84	48.52	11.77	11.62	1.55	1.53	53.12	56.16	5.12	5.09	1.62	1.61	48.98	69.32	65.00	62.51	5.76	5.52	88.89	95.59	7.09	88.62	95.17	6.70
28	60	0.60	0.25	0.39	27.18	75.70	11.45	11.56	2.03	1.71	22.40	78.56	6.34	5.44	1.79	1.66	23.05	92.37	74.20	65.42	9.16	6.43	92.47	97.81	18.46	89.80	96.01	12.68
60	100	0.25	0.15	0.19	11.77	87.47	12.99	11.75	2.24	1.78	9.40	87.96	9.62	5.89	2.27	1.73	5.19	97.56	68.68	65.60	13.74	6.82	94.29	97.95	4.44	90.18	96.17	12.54
100	---	0.15	---	0.15	12.53	100.00	28.28	13.82	5.35	2.23	12.04	100.00	26.31	8.35	5.64	2.20	2.44	100.00	69.58	65.70	24.07	7.24	95.45	98.07	-0.62	90.45	96.20	10.76

Results

	Feed (% Ash)	Product (% Ash)	Product (% Sulfur)	Tailings (% Ash)	Yield (%)	Recovery (%)
As Tested	13.83	8.34	2.20	64.21	90.17	95.92
+10 x 60	11.64	5.44	1.66	63.87	89.40	95.67
+10 x 100	11.81	5.89	1.73	64.09	89.82	95.85
10 x 60	11.56	5.44	1.66	65.42	89.80	96.01
10 x 100	11.75	5.89	1.73	65.60	90.18	96.17

Coal Plant A - Test 3

Data As-Received

Size Class				Feed						Product						Tailings						Results					
Passing (mesh)	Retained (mesh)	Passing (mm)	Retained (mm)	Mean (mm)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Yield (%)	Individual Recovery (%)	Individual Sul-Rej (%)	Cumulative Yield (%)	Cumulative Recovery (%)	Cumulative Sul-Rej (%)
---	10	---	1.70	1.70	2.35	2.35	14.02	14.02	1.88	1.88	1.14	1.14	5.35	5.35	1.49	1.49	14.06	14.06	30.62	30.62	3.18	3.18	65.69	72.31	47.94	65.69	72.31	47.94
10	14	1.70	1.18	1.42	8.49	10.86	10.94	11.61	1.45	1.54	6.19	7.33	5.73	5.67	1.49	1.49	17.85	31.91	42.91	37.49	4.95	4.17	85.99	91.02	11.64	81.32	86.79	21.53
14	28	1.18	0.60	0.84	38.89	49.75	11.77	11.74	1.55	1.55	44.34	51.67	5.33	5.38	1.62	1.60	42.81	74.72	66.50	54.11	5.76	5.08	89.47	96.00	6.49	86.95	93.22	10.08
28	60	0.60	0.25	0.39	26.53	76.28	11.45	11.64	2.03	1.72	24.75	76.42	7.89	6.19	1.79	1.66	18.37	93.09	71.35	57.51	9.16	5.89	94.39	98.18	16.77	89.39	94.90	13.40
60	100	0.25	0.15	0.19	11.49	87.77	12.99	11.81	2.24	1.78	10.60	87.02	9.36	6.58	2.27	1.74	4.53	97.62	73.99	58.28	13.74	6.25	94.38	98.32	4.35	89.87	95.21	12.55
100	---	0.15	---	0.15	12.23	100.00	26.26	13.83	5.35	2.22	12.98	100.00	26.86	9.21	5.64	2.24	2.38	100.00	70.84	58.58	24.07	6.67	96.77	98.69	-2.02	90.65	95.50	8.43

Data Normalized w/o +10 Material

Size Class				Feed						Product						Tailings						Results					
Passing (mesh)	Retained (mesh)	Passing (mm)	Retained (mm)	Mean (mm)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Yield (%)	Individual Recovery (%)	Individual Sul-Rej (%)	Cumulative Yield (%)	Cumulative Recovery (%)	Cumulative Sul-Rej (%)
---	10	---	1.70	1.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	14	1.70	1.18	1.42	8.69	8.69	10.94	10.94	1.45	1.45	6.26	6.26	5.73	5.73	1.49	1.49	20.77	20.77	42.91	42.91	4.95	4.95	85.99	91.02	11.64	85.99	91.02	11.64
14	28	1.18	0.60	0.84	39.84	48.52	11.77	11.62	1.55	1.53	44.85	51.11	5.33	5.38	1.62	1.60	49.81	70.58	66.50	59.56	5.76	5.52	89.47	96.00	6.49	88.48	94.73	7.37
28	60	0.60	0.25	0.39	27.18	75.70	11.45	11.56	2.03	1.71	25.04	76.15	7.89	6.20	1.79	1.67	21.38	91.96	71.35	62.30	9.16	6.37	94.39	98.18	16.77	90.45	95.93	11.96
60	100	0.25	0.15	0.19	11.77	87.47	12.99	11.75	2.24	1.78	10.72	86.87	9.36	6.59	2.27	1.74	5.27	97.23	73.99	62.93	13.74	6.77	94.38	98.32	4.35	90.84	96.15	11.31
100	---	0.15	---	0.15	12.53	100.00	26.28	13.82	5.35	2.23	13.13	100.00	26.86	9.25	5.64	2.25	2.77	100.00	70.84	63.15	24.07	7.25	96.77	98.69	-2.02	91.52	96.38	7.54

Results

	Feed (% Ash)	Product (% Ash)	Product (% Sulfur)	Tailings (% Ash)	Yield (%)	Recovery (%)
As Tested	13.83	9.21	2.24	58.58	90.65	95.50
+10 x 60	11.64	6.19	1.66	57.51	89.39	94.90
+10 x 100	11.81	6.58	1.74	58.28	89.87	95.21
10 x 60	11.56	6.20	1.67	62.30	90.45	95.93
10 x 100	11.75	6.59	1.74	62.93	90.84	96.15

Coal Plant A - Test 4

Data As-Received

Size Class Passing (mesh)	Size Class Retained (mesh)	Size Class Passing (mm)	Size Class Retained (mm)	Mean (mm)	Feed Individual Mass (%)	Feed Cumulative Mass (%)	Feed Individual Ash (%)	Feed Cumulative Ash (%)	Feed Individual Sulfur (%)	Feed Cumulative Sulfur (%)	Product Individual Mass (%)	Product Cumulative Mass (%)	Product Individual Ash (%)	Product Cumulative Ash (%)	Product Individual Sulfur (%)	Product Cumulative Sulfur (%)	Tailings Individual Mass (%)	Tailings Cumulative Mass (%)	Tailings Individual Ash (%)	Tailings Cumulative Ash (%)	Tailings Individual Sulfur (%)	Tailings Cumulative Sulfur (%)	Results Individual Yield (%)	Results Individual Recovery (%)	Results Individual Sul-Rej (%)	Results Cumulative Yield (%)	Results Cumulative Recovery (%)	Results Cumulative Sul-Rej (%)
---	10	---	1.70	1.70	2.38	2.38	14.02	14.02	1.88	1.88	0.51	0.51	4.97	4.97	1.49	1.49	11.45	11.45	21.08	21.08	3.18	3.18	43.82	48.44	65.27	43.82	48.44	65.27
10	14	1.70	1.18	1.42	8.46	10.86	10.94	11.61	1.45	1.54	3.09	3.54	6.37	6.17	1.49	1.49	29.55	41.00	20.28	20.50	4.95	4.46	67.15	70.59	31.00	62.00	65.83	40.17
14	28	1.18	0.60	0.84	38.89	49.75	11.77	11.74	1.55	1.55	50.63	54.23	5.15	5.22	1.62	1.61	42.02	83.02	39.02	29.88	5.76	5.12	80.45	86.49	15.91	73.56	78.99	23.46
28	60	0.60	0.25	0.39	26.53	76.28	11.45	11.64	2.03	1.72	24.08	78.31	5.84	5.41	1.79	1.67	11.54	94.56	69.28	34.68	9.16	5.61	91.16	96.93	19.62	78.73	84.27	23.56
60	100	0.25	0.15	0.19	11.49	87.77	12.99	11.81	2.24	1.78	9.07	87.38	9.52	5.84	2.27	1.73	3.3	97.86	74.22	36.02	13.74	5.88	94.64	98.41	4.10	80.19	85.63	22.31
100	---	0.15	---	0.15	12.23	100.00	28.25	13.83	5.35	2.22	12.62	100.00	24.55	8.20	5.64	2.22	2.14	100.00	76.09	36.88	24.07	6.27	92.76	97.59	2.21	80.37	85.62	19.57

Data Normalized w/o +10 Material

Size Class Passing (mesh)	Size Class Retained (mesh)	Size Class Passing (mm)	Size Class Retained (mm)	Mean (mm)	Feed Individual Mass (%)	Feed Cumulative Mass (%)	Feed Individual Ash (%)	Feed Cumulative Ash (%)	Feed Individual Sulfur (%)	Feed Cumulative Sulfur (%)	Product Individual Mass (%)	Product Cumulative Mass (%)	Product Individual Ash (%)	Product Cumulative Ash (%)	Product Individual Sulfur (%)	Product Cumulative Sulfur (%)	Tailings Individual Mass (%)	Tailings Cumulative Mass (%)	Tailings Individual Ash (%)	Tailings Cumulative Ash (%)	Tailings Individual Sulfur (%)	Tailings Cumulative Sulfur (%)	Results Individual Yield (%)	Results Individual Recovery (%)	Results Individual Sul-Rej (%)	Results Cumulative Yield (%)	Results Cumulative Recovery (%)	Results Cumulative Sul-Rej (%)
---	10	---	1.70	1.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	14	1.70	1.18	1.42	8.69	8.69	10.94	10.94	1.45	1.45	3.05	3.05	6.37	6.37	1.49	1.49	33.37	33.37	20.28	20.28	4.95	4.95	67.15	70.59	31.00	67.15	70.59	31.00
14	28	1.18	0.60	0.84	39.84	48.52	11.77	11.62	1.55	1.53	50.95	54.00	5.15	5.22	1.62	1.61	47.45	80.82	39.02	31.28	5.76	5.43	80.45	86.49	15.91	75.43	80.90	20.60
28	60	0.60	0.25	0.39	27.18	75.70	11.45	11.56	2.03	1.71	24.20	78.20	5.84	5.41	1.79	1.67	13.03	93.86	69.28	36.56	9.16	5.94	91.16	96.93	19.62	80.26	85.84	21.77
60	100	0.25	0.15	0.19	11.77	87.47	12.99	11.75	2.24	1.78	9.12	87.32	9.52	5.84	2.27	1.73	3.73	97.58	74.22	36.00	13.74	6.24	94.64	98.41	4.10	81.61	87.08	20.75
100	---	0.15	---	0.15	12.53	100.00	28.28	13.82	5.35	2.23	12.68	100.00	24.55	8.21	5.64	2.23	2.42	100.00	76.09	36.92	24.07	6.67	92.76	97.59	2.21	81.73	87.05	18.37

Results

	Feed (% Ash)	Product (% Ash)	Product (% Sulfur)	Tailings (% Ash)	Yield (%)	Recovery (%)
As Tested	13.83	8.20	2.22	36.88	80.37	85.62
+10 x 60	11.64	5.41	1.67	34.68	78.73	84.27
+10 x 100	11.81	5.84	1.73	36.02	80.19	85.63
10 x 60	11.56	5.41	1.67	36.56	80.26	85.84
10 x 100	11.75	5.84	1.73	38.00	81.61	87.08

Coal Plant A - Test 5

Data As-Received

Size Class				Feed						Product						Tailings						Results					
Passing (mesh)	Retained (mesh)	Passing (mm)	Retained (mm)	Mean (mm)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Yield (%)	Individual Recovery (%)	Individual Sul-Rej (%)	Cumulative Yield (%)	Cumulative Recovery (%)	Cumulative Sul-Rej (%)
10	***	1.70	***	1.70	2.38	2.38	14.02	14.02	1.88	1.88	0.09	0.09	5.91	5.91	1.49	1.49	11.33	11.33	9.87	9.87	3.18	3.18	-104.80	-114.68	183.06	-104.80	-114.68	183.06
14	10	1.70	1.18	1.42	8.48	10.86	10.94	11.61	1.45	1.54	1.18	1.27	4.06	4.19	1.49	1.49	24.84	36.17	26.51	21.30	4.95	4.40	69.35	74.71	28.73	56.60	61.36	45.39
28	14	1.18	0.60	0.84	38.69	49.75	11.77	11.74	1.55	1.55	40.53	41.80	4.65	4.64	1.62	1.62	46.74	82.91	41.57	32.73	5.76	5.16	80.72	87.23	15.64	74.72	80.73	22.03
56	28	0.60	0.25	0.39	26.53	76.28	11.45	11.64	2.03	1.72	32.00	73.80	5.59	5.05	1.79	1.69	11.82	94.73	56.96	35.75	9.16	5.66	88.59	94.46	21.88	78.54	84.40	22.58
80	100	0.25	0.15	0.19	11.49	87.77	12.99	11.81	2.24	1.78	11.55	85.35	7.63	5.40	2.27	1.77	3.05	97.78	75.41	36.99	13.74	5.92	92.09	97.77	6.67	79.69	85.49	20.98
100	***	0.15	***	0.15	12.23	100.00	28.28	13.83	5.35	2.22	14.65	100.00	24.01	8.13	5.64	2.34	2.22	100.00	76.84	37.87	24.07	6.32	91.92	97.39	3.10	80.83	86.18	14.95

Data Normalized w/o +10 Material

Size Class				Feed						Product						Tailings						Results					
Passing (mesh)	Retained (mesh)	Passing (mm)	Retained (mm)	Mean (mm)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Yield (%)	Individual Recovery (%)	Individual Sul-Rej (%)	Cumulative Yield (%)	Cumulative Recovery (%)	Cumulative Sul-Rej (%)
10	***	1.70	***	1.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14	10	1.70	1.18	1.42	8.69	8.69	10.94	10.94	1.45	1.45	1.18	1.18	4.06	4.06	1.49	1.49	28.01	28.01	26.51	26.51	4.95	4.95	69.35	74.71	28.73	69.35	74.71	28.73
28	14	1.18	0.60	0.84	39.84	48.52	11.77	11.62	1.55	1.53	40.57	41.75	4.65	4.63	1.62	1.62	52.71	80.73	41.57	36.34	5.76	5.48	80.72	87.23	15.64	77.96	84.13	17.75
56	28	0.60	0.25	0.39	27.18	75.70	11.45	11.56	2.03	1.71	32.03	73.78	5.59	5.05	1.79	1.69	13.33	94.06	56.96	39.27	9.16	6.00	88.59	94.46	21.88	80.97	86.93	19.93
80	100	0.25	0.15	0.19	11.77	87.47	12.99	11.75	2.24	1.78	11.56	85.34	7.63	5.40	2.27	1.77	3.44	97.50	75.41	40.54	13.74	6.27	92.09	97.77	6.67	81.92	87.82	18.63
100	***	0.15	***	0.15	12.53	100.00	28.28	13.82	5.35	2.23	14.66	100.00	24.01	8.13	5.64	2.34	2.50	100.00	76.84	41.45	24.07	6.72	91.92	97.39	3.10	82.91	88.39	13.06

Results

	Feed (% Ash)	Product (% Ash)	Product (% Sulfur)	Tailings (% Ash)	Yield (%)	Recovery (%)
As Tested	13.83	8.13	2.34	37.87	80.83	86.18
+10 x 60	11.64	5.05	1.69	35.75	78.54	84.40
-10 x 100	11.81	5.40	1.77	36.99	79.69	85.49
10 x 60	11.56	5.05	1.69	39.27	80.97	86.93
10 x 100	11.75	5.40	1.77	40.54	81.92	87.82

Coal Plant A - Test 6

Data As-Received

Size Class				Feed						Product						Tailings						Results					
Passing (mesh)	Retained (mesh)	Passing (mm)	Retained (mm)	Mean (mm)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Yield (%)	Individual Recovery (%)	Individual Sul-Rej (%)	Cumulative Yield (%)	Cumulative Recovery (%)	Cumulative Sul-Rej (%)
---	10	---	1.70	1.70	2.38	2.38	14.02	14.02	1.88	1.88	1.02	1.02	4.74	4.74	1.49	1.49	13.79	13.79	8.91	8.91	3.18	3.18	-122.54	-135.77	197.12	-122.54	-135.77	197.12
10	14	1.70	1.18	1.42	8.59	10.86	10.94	11.61	1.45	1.54	9.63	10.55	5.14	5.10	1.49	1.49	33.44	42.62	19.80	16.28	4.95	4.38	60.44	64.37	37.90	41.71	44.79	59.75
14	28	1.18	0.60	0.84	38.89	49.75	11.77	11.74	1.55	1.55	53.31	63.32	5.38	5.33	1.62	1.60	47.55	83.61	29.03	22.53	5.76	5.06	72.98	78.27	23.72	62.77	67.32	35.22
28	60	0.60	0.25	0.39	26.53	76.28	11.45	11.64	2.03	1.72	20.56	83.67	7.88	5.95	1.79	1.64	13.69	95.41	54.54	26.49	9.16	5.56	92.35	96.07	18.57	72.32	76.97	30.68
60	100	0.25	0.15	0.19	11.49	87.77	12.99	11.81	2.24	1.78	6.49	90.15	10.50	6.28	2.27	1.69	2.66	98.07	72.38	27.73	13.74	5.78	95.98	98.72	2.74	74.20	78.86	29.74
100	---	0.15	---	0.15	12.23	100.00	28.28	13.83	5.35	2.22	9.85	100.00	27.79	8.40	5.64	2.08	1.93	100.00	73.21	28.61	24.07	6.14	98.92	99.60	-4.28	73.14	77.75	31.53

Data Normalized w/o +10 Material

Size Class				Feed						Product						Tailings						Results					
Passing (mesh)	Retained (mesh)	Passing (mm)	Retained (mm)	Mean (mm)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Yield (%)	Individual Recovery (%)	Individual Sul-Rej (%)	Cumulative Yield (%)	Cumulative Recovery (%)	Cumulative Sul-Rej (%)
---	10	---	1.70	1.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	14	1.70	1.18	1.42	8.69	8.69	10.94	10.94	1.45	1.45	9.63	9.63	5.14	5.14	1.49	1.49	33.44	33.44	19.80	19.80	4.95	4.95	60.44	64.37	37.90	60.44	64.37	37.90
14	28	1.18	0.60	0.84	39.84	48.52	11.77	11.62	1.55	1.53	53.31	62.94	5.38	5.34	1.62	1.60	47.55	80.99	29.03	25.22	5.76	5.43	72.98	78.27	23.72	68.41	73.27	28.55
28	60	0.60	0.25	0.39	27.18	75.70	11.45	11.56	2.03	1.71	20.56	83.50	7.88	5.97	1.79	1.65	13.69	94.68	54.54	29.46	9.16	5.97	92.35	96.07	18.57	76.19	81.01	26.66
60	100	0.25	0.15	0.19	11.77	87.47	12.99	11.75	2.24	1.78	6.55	90.05	10.50	6.30	2.27	1.69	3.09	97.76	72.38	30.81	13.74	6.21	95.98	98.72	2.74	77.75	82.55	26.17
100	---	0.15	---	0.15	12.53	100.00	28.28	13.82	5.35	2.23	9.95	100.00	27.79	8.44	5.64	2.09	2.24	100.00	73.21	31.76	24.07	6.61	98.92	99.60	-4.28	76.91	81.71	28.06

Results

	Feed (% Ash)	Product (% Ash)	Product (% Sulfur)	Tailings (% Ash)	Yield (%)	Recovery (%)
As Tested	13.83	8.40	2.08	28.61	73.14	77.75
+10 x 60	11.64	5.95	1.64	26.49	72.32	76.97
+10 x 100	11.81	6.28	1.69	27.73	74.20	78.86
10 x 60	11.56	5.97	1.65	29.46	76.19	81.01
10 x 100	11.75	6.30	1.69	30.81	77.75	82.55

Coal Plant A - Test 7

Data As-Received

Size Class					Feed						Product						Tailings						Results					
Passing (mesh)	Retained (mesh)	Passing (mm)	Retained (mm)	Mean (mm)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Yield (%)	Individual Recovery (%)	Individual Sul-Rej (%)	Cumulative Yield (%)	Cumulative Recovery (%)	Cumulative Sul-Rej (%)
---	10	---	1.70	1.70	2.38	2.38	14.02	14.02	1.88	1.88	1.84	1.84	4.79	4.79	1.49	1.49	15.44	15.44	50.85	50.85	3.18	3.18	79.96	88.54	36.63	79.96	88.54	36.63
10	14	1.70	1.18	1.42	9.48	10.86	10.94	11.61	1.45	1.54	7.63	9.47	5.10	5.04	1.49	1.49	15.6	31.24	63.68	57.34	4.95	4.08	90.03	95.93	7.49	87.43	93.93	15.64
14	28	1.18	0.60	0.84	38.69	49.75	11.77	11.74	1.55	1.55	54.45	63.92	7.30	6.97	1.62	1.60	44.94	76.18	72.36	66.20	5.76	5.07	93.13	97.85	2.66	91.95	96.92	4.97
28	60	0.60	0.25	0.39	26.53	76.28	11.45	11.64	2.03	1.72	16.94	80.26	8.16	7.21	1.79	1.64	17.05	93.23	77.43	68.25	9.16	5.82	95.25	98.79	16.01	92.75	97.39	11.41
60	100	0.25	0.15	0.19	11.49	87.77	12.99	11.81	2.24	1.78	8.82	89.08	11.73	7.66	2.27	1.70	4.7	97.93	78.94	68.77	13.74	6.20	98.13	99.55	0.56	93.20	97.59	11.14
100	---	0.15	---	0.15	12.23	100.00	28.28	13.83	5.35	2.22	10.92	100.00	25.47	9.60	5.64	2.13	2.07	100.00	79.91	69.00	24.07	6.57	94.84	98.55	0.02	92.88	97.44	10.84

Data Normalized w/o +10 Material

Size Class					Feed						Product						Tailings						Results					
Passing (mesh)	Retained (mesh)	Passing (mm)	Retained (mm)	Mean (mm)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Yield (%)	Individual Recovery (%)	Individual Sul-Rej (%)	Cumulative Yield (%)	Cumulative Recovery (%)	Cumulative Sul-Rej (%)
---	10	---	1.70	1.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	14	1.70	1.18	1.42	8.69	8.69	10.94	10.94	1.45	1.45	7.77	7.77	5.10	5.10	1.49	1.49	18.68	18.68	63.68	63.68	4.95	4.95	90.03	95.93	7.49	90.03	95.93	7.49
14	28	1.18	0.60	0.84	39.84	48.52	11.77	11.62	1.55	1.53	55.47	63.24	7.30	7.03	1.62	1.60	53.15	71.83	72.36	70.10	5.76	5.55	93.13	97.85	2.66	92.72	97.54	2.93
28	60	0.60	0.25	0.39	27.18	75.70	11.45	11.56	2.03	1.71	16.65	79.89	8.16	7.27	1.79	1.64	20.16	91.99	77.43	71.71	9.16	6.34	95.25	98.79	16.01	93.34	97.87	10.38
60	100	0.25	0.15	0.19	11.77	87.47	12.99	11.75	2.24	1.78	8.99	88.88	11.73	7.72	2.27	1.71	5.56	97.55	78.94	72.12	13.74	6.76	98.13	99.55	0.56	93.73	98.02	10.26
100	---	0.15	---	0.15	12.53	100.00	28.28	13.82	5.35	2.23	11.12	100.00	25.47	9.69	5.64	2.14	2.45	100.00	79.91	72.31	24.07	7.19	94.84	98.55	0.02	93.40	97.88	10.17

Results

	Feed (% Ash)	Product (% Ash)	Product (% Sulfur)	Tailings (% Ash)	Yield (%)	Recovery (%)
As Tested	13.83	9.60	2.13	69.00	92.88	97.44
-10 x 60	11.64	7.21	1.64	68.25	92.75	97.39
-10 x 100	11.81	7.66	1.70	68.77	93.20	97.59
10 x 60	11.56	7.27	1.64	71.71	93.34	97.87
10 x 100	11.75	7.72	1.71	72.12	93.73	98.02

Coal Plant A - Test 8

Data As-Received

Size Class				Feed						Product						Tailings						Results					
Passing (mesh)	Retained (mesh)	Passing (mm)	Retained (mm)	Mean (mm)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Yield (%)	Individual Recovery (%)	Individual Sul-Rej (%)	Cumulative Yield (%)	Cumulative Recovery (%)	Cumulative Sul-Rej (%)
---	10	---	1.70	1.70	2.38	2.38	14.02	14.02	1.88	1.88	0.38	0.38	5.09	5.09	1.49	1.49	22.17	22.17	11.20	11.20	3.18	3.18	-46.15	-50.95	136.58	-46.15	-50.95	136.58
10	14	1.70	1.18	1.42	8.48	10.86	10.94	11.61	1.45	1.54	4.78	5.16	4.90	4.91	1.49	1.49	18.23	40.40	28.88	19.18	4.95	3.98	74.81	79.89	23.12	53.02	57.04	48.84
14	25	1.18	0.60	0.84	38.69	49.75	11.77	11.74	1.55	1.55	48.38	53.52	5.32	5.28	1.62	1.61	36.24	76.64	53.76	35.53	5.76	4.82	86.68	93.02	9.40	78.66	84.41	18.36
25	60	0.60	0.25	0.39	26.53	76.28	11.45	11.64	2.03	1.72	24.48	78.01	8.46	6.28	1.79	1.66	15.63	92.27	67.78	40.99	9.16	5.56	94.96	98.17	16.27	84.57	89.69	17.96
60	100	0.25	0.15	0.19	11.49	87.77	12.99	11.81	2.64	1.78	10.85	88.27	12.94	7.05	2.27	1.74	5.05	97.32	76.53	42.84	13.74	5.98	99.92	99.98	-1.26	86.70	91.38	15.71
100	---	0.15	---	0.15	12.23	100.00	26.26	13.83	5.35	2.22	11.73	100.00	32.35	10.02	5.64	2.19	2.68	100.00	78.85	43.80	24.07	6.47	108.75	102.58	-14.65	88.73	92.65	12.37

Data Normalized w:o +10 Material

Size Class				Feed						Product						Tailings						Results					
Passing (mesh)	Retained (mesh)	Passing (mm)	Retained (mm)	Mean (mm)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Yield (%)	Individual Recovery (%)	Individual Sul-Rej (%)	Cumulative Yield (%)	Cumulative Recovery (%)	Cumulative Sul-Rej (%)
---	10	---	1.70	1.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	14	1.70	1.18	1.42	8.69	8.69	10.94	10.94	1.45	1.45	4.80	4.80	4.90	4.90	1.49	1.49	23.42	23.42	28.88	28.88	4.95	4.95	74.81	79.89	23.12	74.81	79.89	23.12
14	25	1.18	0.60	0.84	39.84	48.52	11.77	11.62	1.55	1.53	48.54	53.34	5.32	5.28	1.62	1.61	46.56	69.99	53.76	45.43	5.76	5.49	86.68	93.02	9.40	84.21	90.25	11.60
25	60	0.60	0.25	0.39	27.18	75.70	11.45	11.56	2.03	1.71	24.58	77.93	8.46	6.28	1.79	1.67	20.08	90.07	67.78	50.42	9.16	6.31	94.96	98.17	16.27	88.05	93.30	14.28
60	100	0.25	0.15	0.19	11.77	87.47	12.99	11.75	2.24	1.78	10.30	88.23	12.94	7.06	2.27	1.74	6.49	96.56	76.53	52.17	13.74	6.81	99.92	99.98	-1.26	89.60	94.36	12.70
100	---	0.15	---	0.15	12.53	100.00	28.28	13.82	5.35	2.23	11.77	100.00	32.35	10.04	5.64	2.20	3.44	100.00	78.85	53.09	24.07	7.40	108.75	102.58	-14.65	91.21	95.22	10.15

Results

	Feed (% Ash)	Product (% Ash)	Product (% Sulfur)	Tailings (% Ash)	Yield (%)	Recovery (%)
As Tested	13.83	10.02	2.19	43.80	88.73	92.65
-10 x 60	11.64	6.28	1.66	40.99	84.57	89.69
-10 x 100	11.81	7.05	1.74	42.84	86.70	91.38
10 x 60	11.56	6.28	1.67	50.42	88.05	93.30
10 x 100	11.75	7.06	1.74	52.17	89.60	94.36

Coal Plant A - Test 9

Data As-Received

Size Class				Feed						Product						Tailings						Results					
Passing (mesh)	Retained (mesh)	Passing (mm)	Retained (mm)	Mean (mm)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Yield (%)	Individual Recovery (%)	Individual Sul-Rej (%)	Cumulative Yield (%)	Cumulative Recovery (%)	Cumulative Sul-Rej (%)
***	10	***	1.70	1.70	1.88	1.88	7.45	7.45	1.68	1.68	1.71	1.71	12.51	12.51	1.75	1.75	13.83	13.83	82.05	82.05	9.36	9.36	107.28	101.41	-11.75	107.28	101.41	-11.75
10	14	1.70	1.18	1.42	10.43	12.31	6.96	7.03	1.87	1.84	6.46	8.17	10.52	10.94	1.71	1.72	27.82	41.65	75.48	77.66	11.52	10.80	105.48	101.44	3.54	105.85	101.41	1.20
14	28	1.18	0.60	0.84	36.68	48.99	9.23	8.68	2.36	2.23	38.67	47.04	7.82	8.36	1.93	1.89	48.91	90.46	75.71	76.61	14.02	12.54	97.92	99.44	19.92	99.54	99.88	15.48
28	60	0.60	0.25	0.39	27.71	76.70	8.72	8.69	2.26	2.24	27.39	74.43	7.89	8.19	2.04	1.95	8.26	98.72	68.34	75.92	18.56	13.04	98.63	99.52	10.97	99.25	99.80	13.74
60	100	0.25	0.15	0.19	10.2	86.90	9.35	8.77	2.46	2.27	9.90	84.33	9.17	8.30	2.11	1.97	0.57	99.29	32.10	75.67	0.00	12.97	99.22	99.41	14.90	99.31	99.81	13.84
100	***	0.15	***	0.15	13.1	100.00	17.09	9.86	4.10	2.51	15.67	100.00	16.60	9.60	3.90	2.27	0.71	100.00	53.61	75.51	4.98	12.91	98.70	99.27	6.11	99.61	99.89	9.81
				0.635																								

Data Normalized w/o +10 Material

Size Class				Feed						Product						Tailings						Results					
Passing (mesh)	Retained (mesh)	Passing (mm)	Retained (mm)	Mean (mm)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Yield (%)	Individual Recovery (%)	Individual Sul-Rej (%)	Cumulative Yield (%)	Cumulative Recovery (%)	Cumulative Sul-Rej (%)
***	10	***	1.70	1.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	14	1.70	1.18	1.42	10.63	10.63	6.96	6.96	1.87	1.87	6.57	6.57	10.52	10.52	1.71	1.71	32.29	32.29	75.48	75.48	11.52	11.52	105.48	101.44	3.54	105.48	101.44	3.54
14	28	1.18	0.60	0.84	37.38	48.01	9.23	8.73	2.36	2.25	39.55	46.12	7.82	8.20	1.93	1.90	56.64	88.93	75.71	75.63	14.02	13.11	97.92	99.44	19.92	99.22	99.79	16.33
28	60	0.60	0.25	0.39	28.24	76.25	8.72	8.72	2.26	2.25	27.87	73.99	7.89	8.09	2.04	1.95	9.59	98.51	68.34	74.92	18.56	13.64	98.63	99.52	10.97	99.04	99.74	14.26
60	100	0.25	0.15	0.19	10.40	86.65	9.35	8.80	2.46	2.28	10.07	84.06	9.17	8.22	2.11	1.97	0.66	99.18	32.16	74.63	0.00	13.55	99.22	99.41	14.90	99.12	99.76	14.29
100	***	0.15	***	0.15	13.35	100.00	17.08	9.91	4.10	2.52	15.94	100.00	15.60	9.55	3.90	2.28	0.82	100.00	53.61	74.46	4.98	13.48	98.70	99.27	6.11	99.46	99.85	10.16

Results

	Feed (% Ash)	Product (% Ash)	Product (% Sulfur)	Tailings (% Ash)	Yield (%)	Recovery (%)
As Tested	9.86	9.60	2.27	75.51	99.61	99.89
+10 x 60	8.69	8.19	1.95	75.92	99.25	99.80
+10 x 100	8.77	8.30	1.97	75.67	99.31	99.81
10 x 60	8.72	8.09	1.95	74.92	99.04	99.74
10 x 100	8.80	8.22	1.97	74.63	99.12	99.76

Coal Plant A - Test 10

Data As-Received

Size Class					Feed						Product						Tailings						Results					
Passing (mesh)	Retained (mesh)	Passing (mm)	Retained (mm)	Mean (mm)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Yield (%)	Individual Recovery (%)	Individual Sul-Rej (%)	Cumulative Yield (%)	Cumulative Recovery (%)	Cumulative Sul-Rej (%)
***	10	***	1.70	1.70	1.54	1.54	6.05	6.05	1.30	1.30	1.74	1.74	10.98	10.98	2.02	2.02	13.25	13.25	77.99	77.99	12.47	12.37	107.36	101.72	-66.82	107.36	101.72	-66.82
10	14	1.70	1.18	1.42	5.07	6.61	7.37	7.16	1.93	1.83	5.04	6.78	9.11	9.59	1.75	1.82	22.85	36.10	79.07	78.67	9.89	10.80	102.49	100.56	7.07	103.52	100.81	-2.97
14	28	1.18	0.60	0.84	38.49	45.10	6.23	6.43	1.68	1.71	36.45	42.23	9.66	9.65	2.36	2.27	54.95	90.15	77.86	76.19	13.47	12.40	105.03	101.19	-47.54	104.70	101.10	-39.04
28	60	0.60	0.25	0.39	27.55	72.65	8.76	7.31	2.22	1.90	31.01	73.24	10.62	10.06	1.99	2.15	8.83	98.98	69.92	77.45	20.20	13.10	103.14	101.03	7.55	104.08	100.99	-17.67
60	100	0.25	0.15	0.19	9.94	82.59	9.80	7.49	2.32	1.95	9.73	82.97	12.14	10.07	2.67	2.21	0.41	99.39	52.86	77.35	28.55	13.16	103.14	101.62	-18.70	103.83	100.94	-17.61
100	***	0.15	***	0.15	17.41	100.00	22.51	10.11	4.06	2.32	17.03	100.00	19.56	11.69	4.69	2.64	0.61	100.00	68.35	77.29	8.10	13.13	93.95	97.53	-8.53	102.41	100.61	-16.28
					0.591																							

Data Normalized w:o +10 Material

Size Class					Feed						Product						Tailings						Results					
Passing (mesh)	Retained (mesh)	Passing (mm)	Retained (mm)	Mean (mm)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Yield (%)	Individual Recovery (%)	Individual Sul-Rej (%)	Cumulative Yield (%)	Cumulative Recovery (%)	Cumulative Sul-Rej (%)
***	10	***	1.70	1.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	14	1.70	1.18	1.42	8.20	8.20	7.37	7.37	1.93	1.93	5.13	5.13	9.11	9.11	1.75	1.75	26.34	26.34	79.07	79.07	9.89	9.89	102.49	100.56	7.07	102.49	100.56	7.07
14	28	1.18	0.60	0.84	36.05	44.24	6.23	6.44	1.68	1.73	36.08	41.21	9.66	9.59	2.36	2.28	62.31	88.65	77.86	78.22	13.47	12.41	105.03	101.19	-47.54	104.59	101.07	-36.38
28	60	0.60	0.25	0.39	27.98	72.22	8.76	7.34	2.22	1.92	31.56	72.77	10.62	10.04	1.99	2.16	10.18	98.82	69.92	77.36	20.20	13.21	103.14	101.03	7.55	104.01	100.98	-16.97
60	100	0.25	0.15	0.19	10.10	82.32	9.80	7.52	2.32	1.97	9.90	82.67	10.14	10.05	2.67	2.22	0.47	99.30	52.86	77.25	28.55	13.28	103.14	101.62	-18.70	103.77	100.93	-17.01
100	***	0.15	***	0.15	17.68	100.00	22.51	10.17	4.06	2.34	17.33	100.00	19.56	11.70	4.69	2.65	0.70	100.00	68.35	77.19	8.10	13.25	93.95	97.53	-8.53	102.33	100.59	-15.88

Results

	Feed (% Ash)	Product (% Ash)	Product (% Sulfur)	Tailings (% Ash)	Yield (%)	Recovery (%)
As Tested	10.11	11.69	2.64	77.29	102.41	100.61
+10 x 60	7.31	10.06	2.15	77.45	104.08	100.99
+10 x 100	7.49	10.07	2.21	77.35	103.83	100.94
10 x 60	7.34	10.04	2.16	77.36	104.01	100.98
10 x 100	7.52	10.05	2.22	77.25	103.77	100.93

Coal Plant A - Test 11

Data As-Received

Size Class					Feed						Product						Tailings						Results					
Passing (mesh)	Retained (mesh)	Passing (mm)	Retained (mm)	Mean (mm)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Yield (%)	Individual Recovery (%)	Individual Sul-Rej (%)	Cumulative Yield (%)	Cumulative Recovery (%)	Cumulative Sul-Rej (%)
***	10	***	1.70	1.70	1.23	1.23	7.56	7.56	1.39	1.39	1.44	1.44	16.61	16.61	1.68	1.68	12.5	12.50	75.56	75.56	4.97	4.97	115.35	104.06	-39.42	115.35	104.06	-39.42
10	14	1.70	1.18	1.42	5.25	6.48	5.67	7.08	1.62	1.50	7.32	8.76	5.67	7.47	1.62	1.63	26.53	39.03	77.07	76.59	16.37	12.72	98.18	99.55	-4.64	100.56	100.14	-9.61
14	28	1.18	0.60	0.84	33.88	40.36	7.70	7.66	1.69	1.66	38.25	47.04	7.41	7.42	1.81	1.78	51.24	90.27	76.28	76.41	16.87	15.08	99.48	99.87	-6.54	99.65	99.91	-6.73
28	60	0.60	0.25	0.39	29.98	70.34	8.31	8.36	1.90	1.76	27.82	74.86	8.57	7.85	1.93	1.83	8.54	98.81	65.04	75.43	21.80	15.66	98.69	99.49	-0.25	99.24	99.80	-3.29
60	100	0.25	0.15	0.19	10.29	80.63	10.90	8.69	2.13	1.81	10.64	85.50	8.27	7.90	2.11	1.87	0.32	99.13	49.41	75.35	21.55	15.68	93.61	96.37	7.27	98.83	99.69	-2.08
100	***	0.15	***	0.15	19.37	100.00	23.44	11.54	4.57	2.34	14.50	100.00	17.91	9.35	4.22	2.21	0.87	100.00	61.90	75.23	11.31	15.64	87.43	93.74	19.27	96.67	99.07	8.88
					0.545																							

Data Normalized w/o +10 Material

Size Class					Feed						Product						Tailings						Results					
Passing (mesh)	Retained (mesh)	Passing (mm)	Retained (mm)	Mean (mm)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Yield (%)	Individual Recovery (%)	Individual Sul-Rej (%)	Cumulative Yield (%)	Cumulative Recovery (%)	Cumulative Sul-Rej (%)
***	10	***	1.70	1.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	14	1.70	1.18	1.42	5.32	5.32	6.97	6.97	1.52	1.52	7.43	7.43	5.67	5.67	1.62	1.62	30.32	30.32	77.07	77.07	16.37	16.37	98.18	99.55	-4.64	98.18	99.55	-4.64
14	28	1.18	0.60	0.84	34.30	39.62	7.77	7.66	1.69	1.67	38.84	46.27	7.41	7.13	1.81	1.78	58.56	88.88	76.28	76.55	16.87	16.70	99.48	99.87	-6.54	99.23	99.81	-5.92
28	60	0.60	0.25	0.39	30.35	69.97	8.31	8.38	1.90	1.77	28.23	74.49	8.57	7.68	1.93	1.84	9.76	98.64	65.04	75.41	21.80	17.20	98.69	99.49	-0.25	98.96	99.72	-2.79
60	100	0.25	0.15	0.19	10.42	80.39	10.90	8.70	2.13	1.82	10.80	85.29	8.27	7.75	2.11	1.87	0.27	99.01	49.41	75.31	21.55	17.22	93.61	96.37	7.27	98.59	99.62	-1.63
100	***	0.15	***	0.15	19.61	100.00	23.44	11.59	4.57	2.36	14.71	100.00	17.91	9.25	4.22	2.22	0.99	100.00	61.90	75.18	11.31	17.16	87.43	93.74	19.27	96.44	99.00	9.24

Results

	Feed (% Ash)	Product (% Ash)	Product (% Sulfur	Tailings (% Ash)	Yield (%)	Recovery (%)
As Tested	11.54	9.35	2.21	75.23	96.67	99.07
+10 x 60	8.36	7.85	1.83	75.43	99.24	99.80
-10 x 100	8.69	7.90	1.87	75.35	98.83	99.69
10 x 60	8.39	7.68	1.84	75.41	98.96	99.72
10 x 100	8.70	7.75	1.87	75.31	98.59	99.62

Coal Plant A - Test 12

Data As-Received

Size Class				Feed						Product						Tailings						Results					
Passing (mesh)	Retained (mesh)	Passing (mm)	Retained (mm)	Mean (mm)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Yield (%)	Individual Recovery (%)	Individual Sul-Rej (%)	Cumulative Yield (%)	Cumulative Recovery (%)	Cumulative Sul-Rej (%)
***	10	***	1.70	1.70	0.77	0.77	6.14	6.14	1.22	1.22	2.16	2.16	5.33	5.33	1.74	1.74	11.64	11.64	78.01	78.01	2.84	2.84	98.89	99.74	-41.03	98.89	99.74	-41.03
10	14	1.70	1.18	1.42	3.08	3.83	7.72	7.40	1.51	1.45	5.40	7.56	7.61	6.96	1.56	1.61	29.35	37.99	78.62	78.43	8.22	6.57	99.85	99.96	-3.15	99.38	99.86	-10.31
14	28	1.18	0.60	0.84	33.24	37.07	7.25	7.27	1.78	1.75	35.36	42.92	7.07	7.05	1.93	1.87	53.13	91.18	75.51	76.73	11.69	9.67	99.74	99.93	-8.14	99.69	99.92	-6.99
28	60	0.60	0.25	0.39	34.01	71.08	8.77	7.99	1.85	1.80	30.31	73.23	10.72	8.57	2.01	1.93	7.85	98.83	69.39	76.16	20.01	10.47	103.32	101.12	-12.26	100.86	100.22	-8.41
60	100	0.25	0.15	0.19	9.48	80.56	10.15	8.24	2.26	1.85	9.45	82.68	10.94	8.84	2.31	1.97	0.48	99.31	48.56	76.03	19.73	10.52	102.10	101.20	-4.36	100.89	100.23	-7.61
100	***	0.15	***	0.15	19.44	100.00	22.92	11.09	3.62	2.19	17.32	100.00	22.49	11.20	4.10	2.34	0.69	100.00	73.59	76.01	4.63	10.48	99.16	99.71	-12.31	100.17	100.05	-6.90
				0.515																								

Data Normalized w o +10 Material

Size Class				Feed						Product						Tailings						Results					
Passing (mesh)	Retained (mesh)	Passing (mm)	Retained (mm)	Mean (mm)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Indivdual Yield (%)	Individual Recovery (%)	Individual Sul-Rej (%)	Cumulative Yield (%)	Cumulative Recovery (%)	Cumulative Sul-Rej (%)
***	10	***	1.70	1.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	14	1.70	1.18	1.42	3.08	3.08	7.72	7.72	1.51	1.51	5.52	5.52	7.61	7.61	1.56	1.56	29.82	29.82	78.62	78.62	8.22	8.22	99.85	99.96	-3.15	99.85	99.96	-3.15
14	28	1.18	0.60	0.84	33.50	36.58	7.25	7.29	1.78	1.76	36.14	41.66	7.07	7.14	1.93	1.88	60.20	90.02	75.51	76.54	11.89	10.67	99.74	99.93	-8.14	99.79	99.95	-6.81
28	60	0.60	0.25	0.39	34.27	70.86	8.77	8.01	1.85	1.80	30.98	72.64	10.72	8.67	2.01	1.94	8.66	98.68	69.39	75.91	20.01	11.49	103.32	101.12	-12.26	100.98	100.26	-8.49
60	100	0.25	0.15	0.19	9.55	80.41	10.15	8.26	2.26	1.86	9.66	82.30	10.94	8.93	2.31	1.98	0.54	99.22	48.58	75.76	19.73	11.54	102.10	101.20	-4.36	101.01	100.27	-7.72
100	***	0.15	***	0.15	19.59	100.00	22.92	11.13	3.62	2.20	17.70	100.00	22.49	11.33	4.10	2.36	0.78	100.00	73.59	75.75	4.63	11.48	99.16	99.71	-12.31	100.31	100.09	-7.29

Results

	Feed (% Ash)	Product (% Ash)	Product (% Sulfur	Tailings (% Ash)	Yield (%)	Recovery (%)
As Tested	11.09	11.20	2.34	76.01	100.17	100.05
+10 x 60	7.99	8.57	1.93	76.16	100.86	100.22
+10 x 100	8.24	8.84	1.97	76.03	100.89	100.23
10 x 60	8.01	8.67	1.94	75.91	100.98	100.26
10 x 100	8.26	8.93	1.98	75.76	101.01	100.27

Coal Plant A - Test 13

Data As-Received

Size Class					Feed						Product						Tailings						Results					
Passing (mesh)	Retained (mesh)	Passing (mm)	Retained (mm)	Mean (mm)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Yield (%)	Individual Recovery (%)	Individual Sul-Rej (%)	Cumulative Yield (%)	Cumulative Recovery (%)	Cumulative Sul-Rej (%)
***	10	***	1.70	1.70	0.57	0.57	6.29	6.29	1.44	1.44	0.38	0.38	4.76	4.76	1.59	1.59	11.38	11.38	80.59	80.59	9.50	9.50	97.98	99.58	-8.19	97.98	99.58	-8.19
10	14	1.70	1.18	1.42	6.15	6.72	7.65	7.53	1.52	1.51	4.14	4.52	5.11	5.08	1.65	1.64	25.15	36.56	78.58	79.21	4.94	6.36	96.54	99.20	-4.80	96.69	99.26	-5.11
14	28	1.18	0.60	0.84	36.52	42.74	5.95	6.20	1.79	1.75	30.66	35.18	6.58	6.39	1.86	1.78	52.25	88.81	80.19	79.78	8.29	7.50	100.86	100.18	-1.42	100.26	100.06	-2.19
28	60	0.60	0.25	0.39	29.01	71.95	6.72	6.41	2.02	1.86	33.67	68.85	6.56	6.47	1.85	1.81	9.95	98.76	72.61	79.06	21.04	8.86	99.76	99.93	8.64	100.08	100.02	2.25
60	100	0.25	0.15	0.19	11.56	83.51	8.63	6.72	2.06	1.89	10.42	79.27	7.06	6.55	2.49	1.90	0.49	99.25	57.35	78.95	24.84	8.94	96.88	98.54	-17.10	99.77	99.95	-0.70
100	***	0.15	***	0.15	16.49	100.00	22.21	9.27	3.82	2.20	20.73	100.00	17.96	8.91	3.59	2.25	0.75	100.00	68.36	78.88	10.22	8.95	91.57	96.57	13.95	99.49	99.88	-1.67
				0.560																								

Data Normalized w/o +10 Material

Size Class					Feed						Product						Tailings						Results					
Passing (mesh)	Retained (mesh)	Passing (mm)	Retained (mm)	Mean (mm)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Yield (%)	Individual Recovery (%)	Individual Sul-Rej (%)	Cumulative Yield (%)	Cumulative Recovery (%)	Cumulative Sul-Rej (%)
***	10	***	1.70	1.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	14	1.70	1.18	1.42	6.19	6.19	7.65	7.65	1.52	1.52	4.16	4.16	5.11	5.11	1.65	1.65	28.41	28.41	78.58	78.58	4.94	4.94	96.54	99.20	-4.80	96.54	99.20	-4.80
14	28	1.18	0.60	0.84	36.23	42.41	5.95	6.20	1.79	1.75	30.78	34.93	6.58	6.41	1.80	1.78	58.96	87.37	80.19	79.67	8.29	7.20	100.86	100.18	-1.42	100.28	100.06	-2.09
28	60	0.60	0.25	0.39	29.38	71.79	6.72	6.41	2.02	1.86	33.80	68.73	6.56	6.48	1.85	1.82	11.23	98.60	72.61	78.86	21.04	8.78	99.76	99.93	8.64	100.10	100.02	2.34
60	100	0.25	0.15	0.19	11.63	83.42	8.63	6.72	2.06	1.89	10.46	79.19	7.06	6.56	2.49	1.90	0.55	99.15	57.35	78.74	24.84	8.87	96.88	98.54	-17.10	99.77	99.95	-0.62
100	***	0.15	***	0.15	16.58	100.00	22.21	9.29	3.82	2.21	20.81	100.00	17.96	8.93	3.59	2.26	0.85	100.00	68.36	78.66	10.22	8.88	91.57	96.57	13.95	99.48	99.88	-1.57

Results

	Feed (% Ash)	Product (% Ash)	Product (% Sulfur)	Tailings (% Ash)	Yield (%)	Recovery (%)
As Tested	9.27	8.91	2.25	78.88	99.49	99.88
+10 x 60	6.41	6.47	1.81	79.06	100.08	100.02
+10 x 100	6.72	6.55	1.90	78.95	99.77	99.95
10 x 60	6.41	6.48	1.82	78.86	100.10	100.02
10 x 100	6.72	6.56	1.90	78.74	99.77	99.95

Coal Plant A - Test 14

Data As-Received

Size Class					Feed						Product						Tailings						Results					
Passing (mesh)	Retained (mesh)	Passing (mm)	Retained (mm)	Mean (mm)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Yield (%)	Individual Recovery (%)	Individual Sul-Rej (%)	Cumulative Yield (%)	Cumulative Recovery (%)	Cumulative Sul-Rej (%)
***	10	***	1.70	1.70	1.28	1.28	6.54	6.54	1.41	1.41	1.40	1.40	5.52	5.52	1.44	1.44	13.08	13.08	80.39	80.39	7.58	7.58	98.64	99.71	-0.74	98.64	99.71	-0.74
10	14	1.70	1.18	1.42	8.57	9.85	5.88	5.97	1.80	1.75	7.61	9.01	6.32	6.20	1.59	1.57	24.69	37.76	79.10	79.55	6.49	6.87	100.60	100.13	11.13	100.31	100.07	10.16
14	28	1.18	0.60	0.84	34.04	43.89	7.18	6.91	1.85	1.83	34.20	43.21	7.71	7.39	2.16	2.04	54.3	92.06	77.19	78.16	14.10	11.13	100.76	100.19	-17.65	100.69	100.16	-12.20
28	60	0.60	0.25	0.39	28.89	72.78	8.33	7.87	2.16	1.96	29.76	72.97	10.64	8.68	2.06	2.05	6.97	99.03	71.44	77.68	22.22	11.91	101.99	100.63	2.73	101.17	100.28	-5.64
60	100	0.25	0.15	0.19	10.79	83.57	10.30	8.18	2.21	1.99	7.30	80.27	11.23	8.91	2.23	2.06	0.2	99.23	65.75	77.66	25.11	11.94	101.71	100.65	-2.63	101.06	100.26	-4.65
100	***	0.15	***	0.15	16.43	100.00	23.16	10.64	3.66	2.27	19.73	100.00	19.22	10.94	4.40	2.52	0.77	100.00	68.04	77.59	5.91	11.89	91.93	96.64	-10.52	100.45	100.11	-11.89
					0.587																							

Data Normalized w/o +10 Material

Size Class					Feed						Product						Tailings						Results					
Passing (mesh)	Retained (mesh)	Passing (mm)	Retained (mm)	Mean (mm)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Mass (%)	Cumulative Mass (%)	Individual Ash (%)	Cumulative Ash (%)	Individual Sulfur (%)	Cumulative Sulfur (%)	Individual Yield (%)	Individual Recovery (%)	Individual Sul-Rej (%)	Cumulative Yield (%)	Cumulative Recovery (%)	Cumulative Sul-Rej (%)
***	10	***	1.70	1.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	14	1.70	1.18	1.42	8.68	8.68	5.88	5.88	1.80	1.80	7.72	7.72	6.32	6.32	1.59	1.59	28.39	28.39	79.10	79.10	6.49	6.49	100.60	100.13	11.13	100.60	100.13	11.13
14	28	1.18	0.60	0.84	34.48	43.16	7.18	6.92	1.85	1.84	34.69	42.40	7.71	7.46	2.16	2.06	62.47	90.87	77.19	77.79	14.10	11.72	100.76	100.19	-17.65	100.77	100.16	-12.61
28	60	0.60	0.25	0.39	29.26	72.43	9.33	7.89	2.16	1.97	30.18	72.59	10.54	8.74	2.06	2.06	8.02	98.88	71.44	77.27	22.22	12.57	101.99	100.63	2.73	101.23	100.30	-5.79
60	100	0.25	0.15	0.19	10.93	83.36	10.30	8.21	2.21	2.00	7.40	79.99	11.23	8.97	2.23	2.07	0.23	99.11	65.75	77.25	25.11	12.60	101.71	100.65	-2.63	101.11	100.28	-4.80
100	***	0.15	***	0.15	16.64	100.00	23.16	10.70	3.66	2.28	20.01	100.00	19.22	11.02	4.40	2.54	0.89	100.00	68.04	77.16	5.91	12.54	91.93	96.64	-10.52	100.49	100.13	-12.06

Results

	Feed (% Ash)	Product (% Ash)	Product (% Sulfur	Tailings (% Ash)	Yield (%)	Recovery (%)
As Tested	10.64	10.94	2.52	77.59	100.45	100.11
+10 x 60	7.87	8.68	2.05	77.68	101.17	100.28
+10 x 100	8.18	8.91	2.06	77.66	101.06	100.26
10 x 60	7.89	8.74	2.06	77.27	101.23	100.30
10 x 100	8.21	8.97	2.07	77.25	101.11	100.28

Coal Plant A - Tests 1-14 Summary

Test Parameters

Test No.	Feed (gpm)	(SG)	(% Solids)	(tph/sqft)	T-Water (gpm)	Level No.	Comment
1	10.0	1.170	40.9	1.2	6.0	64	Round 1
2	10.0	1.170	40.9	1.2	6.0	64	
3	9.2	1.180	43.0	1.2	6.0	99	Sensor Reset
4	9.7	1.165	39.9	1.1	6.0	97	
5	9.8	1.170	40.9	1.2	6.0	95	
6	9.8	1.160	38.9	1.1	6.0	96	
7	12.6	1.165	39.9	1.5	6.0	96	
8	12.7	1.180	43.0	1.6	6.0	92	
9	30.0	1.210	48.9	4.4	7.0	94	Round 2
10	35.3	1.200	47.0	5.0	7.0	92	
11	33.3	1.197	46.4	4.6	7.0	93	Water in Contacts
12	28.6	1.200	47.0	4.0	7.0	94	
13	28.6	1.200	47.0	4.0	7.0	94	
14	20.0	1.185	44.0	2.6	7.0	90	

Results x 100 Mesh	Feed (% Ash)	Product (% Ash)	Product (% Sulfur)	Tailings (% Ash)	Yield (%)	Recovery (%)
Test 1	11.81	7.22	1.76	59.99	91.29	96.05
Test 2	11.81	5.89	1.73	64.09	89.82	95.85
Test 3	11.81	6.58	1.74	58.28	89.87	95.21
Test 4	11.81	5.84	1.73	36.02	80.19	85.63
Test 5	11.81	5.40	1.77	36.99	79.69	85.49
Test 6	11.81	6.28	1.69	27.73	74.20	78.86
Test 7	11.81	7.66	1.70	68.77	93.20	97.59
Test 8	11.81	7.05	1.74	42.84	86.70	91.38
Test 9	8.77	8.30	1.97	75.67	99.31	99.81
Test 10	7.49	10.07	2.21	77.35	103.83	100.94
Test 11	8.69	7.90	1.87	75.35	98.83	99.69
Test 12	8.24	8.84	1.97	76.03	100.89	100.23
Test 13	6.72	6.55	1.90	78.95	99.77	99.95
Test 14	8.18	8.91	2.06	77.66	101.06	100.26

Results As-Tested	Feed (% Ash)	Product (% Ash)	Product (% Sulfur)	Tailings (% Ash)	Yield (%)	Recovery (%)
Test 1	13.83	9.21	2.25	60.28	90.96	95.83
Test 2	13.83	8.34	2.20	64.21	90.17	95.92
Test 3	13.83	9.21	2.24	58.58	90.65	95.50
Test 4	13.83	8.20	2.22	36.88	80.37	85.62
Test 5	13.83	8.13	2.34	37.87	80.83	86.18
Test 6	13.83	8.40	2.08	28.61	73.14	77.75
Test 7	13.83	9.60	2.13	69.00	92.88	97.44
Test 8	13.83	10.02	2.19	43.80	88.73	92.65
Test 9	9.86	9.60	2.27	75.51	99.61	99.89
Test 10	10.11	11.69	2.64	77.29	102.41	100.61
Test 11	11.54	9.35	2.21	75.23	96.67	99.07
Test 12	11.09	11.20	2.34	76.01	100.17	100.05
Test 13	9.27	8.91	2.25	78.88	99.49	99.88
Test 14	10.64	10.94	2.52	77.59	100.45	100.11

Test 1-8	0.631	11.94
Test 9	0.635	8.94
Test 10	0.591	10.52
Test 11	0.545	15.68
Test 12	0.515	13.16
Test 13	0.560	12.97
Test 14	0.587	
Tests 9-14	0.572	

Test 9		Test 10		Test 11	
Mass	Ash	Mass	Ash	Mass	Ash
1.88	7.45	1.54	6.05	1.23	7.56
10.43	6.96	8.07	7.37	5.25	6.97
36.68	9.23	35.49	6.23	33.88	7.77
27.71	8.72	27.55	8.76	29.98	9.31
10.2	9.35	9.94	8.80	10.29	10.90
13.1	17.08	17.41	22.51	19.37	23.44
100	9.86	100	10.11	100	11.54

Test 12		Test 13		Test 14		
Mass	Ash	Mass	Ash	Mass	Ash	Average
0.77	6.14	0.57	6.29	1.28	6.54	1.21
3.06	7.72	6.15	7.65	8.57	5.88	6.92
33.24	7.25	36.02	5.95	34.04	7.18	34.89
34.01	8.77	29.21	6.72	28.89	9.33	29.56
9.48	10.15	11.56	8.63	10.79	10.30	10.38
19.44	22.92	16.49	22.21	16.43	23.16	17.04
100	11.09	100	9.27	100	10.64	100.00

Coal Plant D

Test No.	Feed	Ash (%) Product	Reject	Feed	Sulfur (%) Product	Reject	Yield (%)	Comb. Rec. (%)	Ash Rej. (%)
1	20.98	13.55	84.56	1.87	2.24	4.33	89.54	97.96	42.17
2	20.1	10.32	85.9	2.11	2	3.99	87.06	97.72	55.30
3	18.33	13.36	85.47	2.31	2.2	3.79	93.11	98.77	32.14
4	20.71	12.98	84.24	1.93	2.01		89.15	97.84	44.12
5	20.03	11.96	86.48		2.24		89.17	98.17	46.76
6	28.12	14.93	85.43		2.23		81.29	96.21	56.84
7	22.12	13.53	86.83		2.5		88.28	98.02	46.00
8	21.82	13.98	84.03		2.43		88.81	97.71	43.10
9	28.16	13.48	81.64		2.46		78.46	94.50	62.44
	16.10	16.10			2.35		100.00	100.00	0.00
								0	100
	22.26	22.26							
							87.21	97.43	

Test No.	Feed	Ash (%) Product	Reject	Feed	Sulfur (%) Product	Reject	Yield (%)	Comb. Rec. (%)	Ash Rej. (%)
1	17.37	9.08	84.38	1.58	1.83	4.23	88.99	97.92	53.48
2	17.91	11.35	85.91	1.78	1.3	3.83	91.20	98.49	42.20
3	15.31	9.96	85.5	1.88	1.75	3.75	92.92	98.79	39.55
4	15.09	8.67	85.06	1.51	1.47	2.53	91.60	98.52	47.37
5	13.08	5.95	85.6	1.27	1.22	2.12	91.05	98.52	58.58
6	15.94	7.59	85.35	1.38	1.29	1.75	89.26	98.13	57.50
7	15.39	10.32	86.81	1.47	1.28	1.68	93.37	98.97	37.39
8	17.75	9.66	83.9	1.79	1.34	1.42	89.10	97.87	51.51
9	17.21	8.82	81.8	1.57	1.93	2.01	88.50	97.47	54.64
	16.12	16.12					100.00	100.00	0.00
								0	100
Average	16.12	9.04	84.92	1.58	1.49	2.59	90.67	98.30	49.14

Coal Plant D - Size by Size Analysis

Test No. 1
Sample I.D. Feed

	Wt. (%)	Cum. Wt. (%)	Ash (%)	Ash Units	Cum. Units	Cum. Ash (%)
Plus 16	5.7	5.7	10.49	59.79	59.79	10.49
16x28	18.28	23.98	16.16	295.40	355.20	14.81
28x100	53.61	77.59	18.51	992.32	1347.52	17.37
100 x 0	22.41	100	33.06	740.87	2088.39	20.88
				2088.39		

Test No. 4
Sample I.D. Feed

	Wt. (%)	Cum. Wt. (%)	Ash (%)	Ash Units	Cum. Units	Cum. Ash (%)
Plus 16	1.26	1.26	16.34	20.59	20.59	16.34
16x28	14.82	16.08	15.52	230.01	250.59	15.58
28x100	56.79	72.87	11.95	849.01	1099.61	15.09
100 x 0	27.13	100	35.85	972.61	2072.22	20.72
				2072.22		

Test No. 1
Sample I.D. Product

	Wt. (%)	Cum. Wt. (%)	Ash (%)	Ash Units	Cum. Units	Cum. Ash (%)
Plus 16	4.29	4.29	10.41	44.66	44.66	10.41
16x28	19.75	24.04	8.14	160.77	205.42	8.55
28x100	54.52	78.56	9.32	508.13	713.55	9.08
100 x 0	21.44	100	30.25	648.56	1362.11	13.62
				1362.11		

Test No. 4
Sample I.D. Product

	Wt. (%)	Cum. Wt. (%)	Ash (%)	Ash Units	Cum. Units	Cum. Ash (%)
Plus 16	1.91	1.91	7.09	13.54	13.54	7.09
16x28	16.64	18.55	6.92	115.15	128.69	6.94
28x100	62.32	80.87	9.18	572.10	700.79	8.67
100 x 0	19.13	100	31.79	608.14	1308.93	13.09
				1308.93		

Test No. 1
Sample I.D. Reject

	Wt. (%)	Cum. Wt. (%)	Ash (%)	Ash Units	Cum. Units	Cum. Ash (%)
Plus 16	34.5	34.5	83.77	2890.07	2890.07	83.77
16x28	30.29	64.79	82.39	2495.59	5385.66	83.12
28x100	33.83	98.62	86.79	2936.11	8321.76	84.38
100 x 0	1.38	100	76.7	105.85	8427.61	84.28
				8427.61		

Test No. 4
Sample I.D. Reject

	Wt. (%)	Cum. Wt. (%)	Ash (%)	Ash Units	Cum. Units	Cum. Ash (%)
Plus 16	26.77	26.77	84.24	2255.10	2255.10	84.24
16x28	34.22	60.99	85.52	2926.49	5181.60	84.96
28x100	36.96	97.95	85.24	3150.47	8332.07	85.06
100 x 0	2.05	100	79.95	163.90	8495.97	84.96
				8495.97		

	Ash (%) Feed	Product	Reject	Yield (%)	Rec. (%)	Rej. (%)
Plus 16	10.49	10.41	83.77	99.89	99.98	0.87
16x28	16.16	8.14	82.39	89.20	97.73	55.07
28x100	18.51	9.32	86.79	88.14	98.08	55.62
100 x 0	33.06	30.25	76.7	93.95	97.89	14.04

	Ash (%) Feed	Product	Reject	Yield (%)	Rec. (%)	Rej. (%)
Plus 16	16.34	7.09	84.24	88.01	97.74	61.81
16x28	15.52	6.92	85.52	89.06	98.12	60.29
28x100	14.95	9.18	85.24	92.41	98.68	43.25
100 x 0	35.85	31.79	79.95	91.57	97.37	18.80

Phosphate Plant A - Test No. 1-6

Purpose: Initial shakedown runs to establish approximate equipment settings and rates.

Feed: Coarse feed for 3 June 2003, 1st and 2nd shift

Test Conditions:

Plant Feed rate = 235 tph for 1 bank. Fa/Fo = 1150 lb/hr. Fuel oil = 450 lb/hr. Water quality = 3.5 in. Coarse rougher tailings estimate = 3-4% BPL

Column

Test 1 -- Baseline/shakedown. One hose feed
Test 2 -- Same as Test 1 except samples taken 30 minutes later
Test 3 -- Higher feed rates. Two hoses feed.
Test 4 -- One hose feed for comparison with Test 3. Timed product rates taken.
Test 5 -- Similar to Test 4 but higher bed level used. Timed feed rate taken
Test 6 -- Various changes; frother down, feed rate up, bed level up. No actual measurements.

Results:

Test	Feed Rate		Feed			Conc		Tails		% BPL
No.	tph(1)	tph/ft2	%BPL	%Insol	Rate,tph	%BPL	%Insol	Rate,tph	%BPL	Recovery
1	nc	nc	26.50	60.11	nc	60.02	18.95	nc	2.06	95.5
2	nc	nc	26.98	55.56	nc	53.73	27.71	nc	1.96	96.2
3	nc	nc	25.81	58.05	nc	56.17	23.41	nc	2.77	93.9
4	2.23	1.12	26.52	61.55	1.38	56.67	23.12	5.67(2)	2.04	95.8
5	2.59	1.30	22.13	66.74	nc	45.22	36.56	nc	2.61	93.6
6	nc	nc	21.94	67.54	nc	41.80	42.44	nc	1.64	96.3

(1) Timed Rate
(2) Tailing discharge not steady

Phosphate Plant A - Test No. 7- 8

Purpose: To establish operating parameters using the new test set-up. Two feed rates were run.

Feed: Coarse feed for 11July 2003, 1st & 2nd shift

Test Conditions:

Plant

Feed rate, tph = 301
Fa/Fo Mix, lb/hr = 946
Fuel Oil, lb/hr = 129
Water Quality, inches = 2.0
Coarse rougher tailings est, %BPL = 8 - 10
Other

Column

Air Flow, cfm = 4.5
Sparge Water, gpm = 24
Bed Level = 85
Surfactant, cc/min = 18.6
Other

Results:

Test No.	Purpose	Measured Rate tph (1)	tph/ft2	ft3/tph	lb/hr/ft	% Solids	Weight % (2)	Chem. Analysis % BPL	% Insol	% BPL Dist.(2)
7 - Column	Feed Rates	(1.60)								
Feed	High	**1.33**	0.67	9.02		66.4	100.00	30.76	58.17	100.00
Tails	"	1.07	0.40			74.3	58.21	**10.22**	84.34	19.34
Conc	"	**0.53**	0.27		203	8.0	41.7904	59.37	21.73	80.66
Plant										
Feed		301		9.97			100.00	28.38	61.51	100.00
Tails							91.62	**24.85**	65.53	80.23
Conc		42			352		8.38	66.99	11.38	**19.77**
8 - Column	Feed Rates	(0.77)								
Feed	Lower	**0.37**	0.19	32.40		32.7	100.00	26.00	64.85	100.00
Tails	"	0.54	0.07			71.0	68.60	**10.44**	86.68	27.55
Conc	"	**0.23**	0.12		88	3.5	31.40	60	20	72.45
Plant										
Feed		301		9.97			100.00	28.38	61.51	100.00
Tails							91.62	**24.85**	65.53	80.23
Conc		42			352		8.38	66.99	11.38	**19.77**

(--) calc from (tails+conc) measured
(2) calc from BPL analyses

Remarks: The new test set-up worked well and no problems were encountered with respect to either operation of the unit or associated sampling procedures. The test itself did not achieve the desired feed rates for Test # 7 (too low) and was also influenced by declining plant feed rates for Test # 8.

Phosphate Plant A - Test No. 9

Purpose: To obtain Column Cell performance data at, and around, design feed rates (4 tph).

Feed: Coarse feed for 11July 2003, 1st & 2nd shift

Test Conditions:

Plant

Feed rate, tph = 266
Fa/Fo Mix, lb/hr = 1070
Fuel Oil, lb/hr = 150
pH = 9.95
Water Quality, inches = 2.0
Coarse rougher tailings est, %BPL = 6
Other

Column

Air Flow, cfm = 4.5
Sparge Water, gpm = 21
Bed Level = 85
Surfactant, cc/min = 18.6
Other

Results:

Test No.	Purpose	Measured Rate tph (1)	tph/ft2	ft3/tph	lb/hr/ft	% Solids	Weight % (2)	Chem. Analysis % BPL	% Insol	% BPL Dist. (2)
9 - Column	Baseline	(4.15)	--							
Feed		**3.92**	1.96	3.06		77.54	100.00	28.69	59.04	100.00
Tails		2.60	1.19			82.24	56.34	**3.91**	89.41	7.68
Conc		1.55	0.78		593	20.59	43.66	60.67	18.42	92.32
Plant	Baseline									
Feed		266		11.28			100.00	28.69	59.04	100.00
Tails							67.43	**8.95**	84.02	21.03
Conc		87			722		32.57	69.55	8.09	**78.97**

(--) calc from (tails+conc) measured
(2) calc from BPL analyses

Remarks: Very strong float. Concentrate overflow launder was full. Froth covered surface. Thought to be close to design rates.

Phosphate Plant A - Test No. 10- 11

Purpose: To re-establish design operating parameters after shift change and to investigate surfactant requirements.

Feed: Coarse feed for 11July 2003, 2nd shift

Test Conditions:

Plant

Feed rate, tph = 244
Fa/Fo Mix, lb/hr = 1102
Fuel Oil, lb/hr = 44
Ph = 9.53
Water Quality, inches = 2.0
Coarse rougher tailings est, %BPL = 6
Other

Column

Air Flow, cfm = 4.75
Sparge Water, gpm = 21
Bed Level = 85
Surfactant, cc / min = 18.6 / 11.2
Push water, cc / min = 2955

Results:

Test No.	Surfactant cc / min.	Measured Rate tph (1)	tph/ft2	ft3/tph	lb/hr/ft	% Solids	Weight % (2)	Chem. Analysis % BPL	% Insol	% BPL Distribution
10 - Column	High	(9.15)								
Feed	18.6	**6.57**	3.29	1.83		79.36	100.00	27.21	61.78	100.00
Tails		7.24(3)	2.33			78.39	60.32	**4.91**	89.23	10.88
Conc		1.91	0.96		730	27.42	39.68	61.11	19.01	89.12
Plant										
Feed		244		12.30			100.00	27.21	61.78	100.00
Tails							67.45	**8.52**	84.47	21.12
Conc					662		32.55	65.94	11.45	**78.88**
11 - Column	Low	(3.15)								
Feed	11.2	**6.57**	3.29	1.83		79.36	100.00	27.21	61.78	100.00
Tails		1.56(3)	2.49			66.67	61.86	**6.30**	87.40	14.32
Conc		1.59	0.80		608	19.43	38.14	61.13	18.19	85.68
Plant										
Feed		244		12.30			100.00	27.21	61.78	100.00
Tails							67.45	**8.52**	84.47	21.12
Conc					662		32.55	65.94	11.45	**78.88**

(--) calc from (tails+conc) measured
(2) calc from BPL analyses
(3) varying rates -- questionable measurements

Remarks: Froth became splotchy at times during Test 11 (low surfactant) but tails appeared similar to Test 10.

Phosphate Plant A - Test No. 12-13

Purpose: To establish operating parameters at feed rates above design (4 tph). Two feed rates were run.

Feed: Coarse feed for 13 July 2003, 2nd shift

Test Conditions:

Plant	Test # 12	Test # 13
Feed rate, tph	276	409
Fa/Fo Mix, lb/hr	1097	1045
Fuel Oil, lb/hr	200	199
Ph	9.72	9.84
Water Quality, inches	2.0	2.0
Co. Ro.tails est, %BPL	6.0	8.0
Other		

Column
Air Flow, cfm = 4.75
Sparge Water, gpm = 22
Bed Level = 85
Surfactant, cc/min = 18.3 / 25.6
Push water, cc / min. = 2585

Test No.	Purpose	Surfactant cc / min	Measured Rate tph (1)	tph/ft2	ft3/tph	lb/hr/ft	% Solids	Weight % (2)	Chem. Analysis % BPL	% Insol	% BPL Distribution
12 - Column	Feed Rates	18.3	(7.77)								
Feed	High		**7.43**	3.72	1.62		71.8	100.00	26.54	61.15	100.00
Tails	"		5.52	2.76			76.0	71.19	**10.93**	82.28	29.32
Conc	"		2.25	1.13		860	38.0	28.81	65.11	12.17	70.68
Plant											
Feed			276		10.86			100.00	26.54	61.15	100.00
Tails								70.52	**9.30**	83.97	24.71
Conc			81			675		29.48	67.79	9.98	75.29
13 - Column	Feed Rates	25.6	(4.72)								
Feed	Lower		**4.57**	2.29	2.63		47.1	100.00	30.64	57.10	100.00
Tails	surfactant		2.95	1.40			76.5	68.77	**14.07**	78.23	31.58
Conc	higher		1.77	0.89		677	22.9	31.23	67.12	9.20	68.42
Plant											
Feed			409		7.34			100.00	30.64	57.1	100.00
Tails								69.31	**13.51**	78.84	30.56
Conc			126			1046		30.69	69.33	7.45	69.44

(--) calc from (tails+conc) measured
(2) calc from BPL analyses

Remarks: The froth overflow had a full ring for both tests, while the tailings discharge had a full pipe most of the time. The water pressure varried considerably at times.

PCS Phosphate - Flotation Testwork conducted June 2-3, 2004 @ Eriez Magnetics

		Test No.	Date	Feed Weight (gram)	H_2O Addition (gram)	Conditioning % Solids (%)	pH	pH Adjuster	Brand Name	Reagent Addition Rate (µL)	(lb/ton)	Conditioning Time (sec)
		1	6/2/04	149.90	145.80	50.69	9.0	Na_2CO_3				
Rougher	Na_2SiO_3								PQ "D"	75	1.00	120
	Fatty Acid								SYLFAT FA1	75	1.00	300
Cleaner	Na_2SiO_3								PQ "D"	300	4.00	0
Re-Cleaner	Na_2SiO_3								PQ "D"	150	2.00	0
		2	6/2/04	150.00	145.00	50.85	9.0	Na_2CO_3				
Rougher	Alum	Highly concentrated Alum							Fischer	75	1.00	120
	Fatty Acid								SYLFAT FA1	150	2.00	300
Cleaner	Na_2SiO_3								PQ "D"	75	1.00	0
		3	6/2/04	153.40	150.00	50.56	5.5	HCl				120
Rougher	Fatty Acid	Tried to initially float dolomite @ low pH							SYLFAT FA1	150	1.96	10
	Frother	Rougher cell product conditioned w/ Na2SiO3 & floated								2 Drops		
Cleaner	Na_2SiO_3								PQ "D"	100	1.30	120
		4	6/2/04	150.00	150.00	50.00	9.7	Na_2CO_3				
Rougher	Alum	Alum Diluted from Test #2							Fischer	100	1.33	120
	Fatty Acid								SYLFAT FA1	150	2.00	120
	Frother									2 Drops		

Tests 5 - 12: Amine Floats @ neutral pH, 2 drops of frother and no conditioning.

	Initial Conditions		6/3/04	150.00	150.00	50.00	N	Na_2CO_3				
	Amine	5								100	1.33	
	Amine	6								200	2.67	
	Amine	7								300	4.00	
	Amine	8								300	4.00	
	Diesel									300	4.00	
	Amine	9								400	5.33	
	Diesel									75	1.00	
	Amine	10								500	6.67	
	Amine	11								1000	13.33	
	Amine	12								750	10.00	

Tests 13-16: Conditioned with Reagent W; 2 drops Frother added to each cell

			6/3/04	150.00	175.50	46.08	9.0	Na_2CO_3				
Rougher	Reagent W	13	Floated for approx. 1.5 minutes only						Fluka	150	2.00	120
	Reagent W	14							Fluka	300	4.00	120
	Reagent W	15							Fluka	75	1.00	120
	Reagent W	16							Fluka	450	6.00	120
	Na_2SiO_3								PQ "D"	75	1.00	30
		17	6/3/04	149.00	150.00	49.83	9.4	Na_2CO_3				
Rougher	FA/FO								IMC	150	2.01	120
	Na_2SiO_3								PQ "D"	225	3.02	60
	Frother									2 Drops		
		18	6/3/04	150.20	150.00	50.03	9.2	Na_2CO_3				
Rougher	FA/FO								IMC	375	4.99	180
	Na_2SiO_3								PQ "D"	225	3.00	60
	Frother									2 Drops		
		19	6/3/04	149.80	150.00	49.97	9.2	Na_2CO_3				
Rougher	Fatty Acid								SYLFAT FA1	375	5.01	180
	Na_2SiO_3								PQ "D"	225	3.00	60
	Frother									2 Drops		
		20	6/3/04	150.00	150.00	50.00	9.2	Na_2CO_3			Scrubbed for 7 minutes	
Rougher	Fatty Acid								SYLFAT FA1	225	3.00	120
	Na_2SiO_3								PQ "N"	150	2.00	30
	Frother									2 Drops		
		21	6/3/04	150.00	150.00	50.00	N	Na_2CO_3			Scrubbed for 5 minutes	
Rougher	Amine	Amine & diesel added at same time								500	6.67	60
	Diesel									50	0.67	

Customer: PCS Phosphate
Location: White Springs, FL
Date: January 19-22, 2004

Test No.: *1*
Sample ID: *Cyclone U/F Composite, Bucket 3/4*

Size Fraction	Particle Size, Microns	Sample Weight	Weight, %	Cum. Wt., %	% Passing
+100M	150	7.17	4.94	4.94	95.1
-100+150M	100	1.51	1.04	5.98	94.0
-150+270M	53	19.70	13.57	19.55	80.4
-270+325M	45	8.34	5.75	25.30	74.7
-325+400M	38	8.88	6.12	31.42	68.6
-400M		99.53	68.58	100.00	0.0
Composite		145.13	100.00		

Test No.: *2*
Sample ID: *Cyclone U/F Composite, Bucket 4/4*

Size Fraction	Particle Size, Microns	Sample Weight	Weight, %	Cum. Wt., %	% Passing
+100M	150	1.23	0.57	0.57	99.4
-100+150M	100	3.00	1.40	1.97	98.0
-150+270M	53	16.08	7.51	9.48	90.5
-270+325M	45	6.20	2.89	12.37	87.6
-325+400M	38	8.60	4.01	16.39	83.6
-400M		179.14	83.61	100.00	0.0
Composite		214.25	100.00		

Test No.: *3*
Sample ID: *Cyclone U/F Composite, Bucket 2/4*

Size Fraction	Particle Size, Microns	Sample Weight	Weight, %	Cum. Wt., %	% Passing
+100M	150	1.09	0.56	0.56	99.4
-100+150M	100	2.61	1.34	1.90	98.1
-150+270M	53	18.76	9.63	11.53	88.5
-270+325M	45	4.76	2.44	13.97	86.0
-325+400M	38	6.35	3.26	17.23	82.8
-400M		161.31	82.77	100.00	0.0
Composite		194.88	100.00		

Test No.: *4*

Sample ID: *Cyclone Feed Composite, 28PSI, 3/4"A, 2"V*

Size Fraction	Particle Size, Microns	Sample Weight	Weight, %	Cum. Wt., %	% Passing
+100M	150	0.65	1.98	1.98	98.0
-100+150M	100	1.51	4.59	6.57	93.4
-150+270M	53	1.25	3.80	10.37	89.6
-270+325M	45	0.34	1.03	11.40	88.6
-325+400M	38	0.48	1.46	12.86	87.1
-400M		28.66	87.14	100.00	0.0
Composite		32.89	100.00		

Test No.: *5*

Sample ID: *Cyclone Feed Composite, 26PSI, 2.5"V, 3/4"A*

Size Fraction	Particle Size, Microns	Sample Weight	Weight, %	Cum. Wt., %	% Passing
+100M	150	0.53	0.60	0.60	99.4
-100+150M	100	1.97	2.25	2.85	97.1
-150+270M	53	3.35	3.82	6.67	93.3
-270+325M	45	0.61	0.70	7.37	92.6
-325+400M	38	0.58	0.66	8.03	92.0
-400M		80.66	91.97	100.00	0.0
Composite		87.70	100.00		

Test No.: *6*

Sample ID: *Cyclone Feed Composite, 20PSI, 2"V, 3/4"A*

Size Fraction	Particle Size, Microns	Sample Weight	Weight, %	Cum. Wt., %	% Passing
+100M	150	0.30	0.35	0.35	99.7
-100+150M	100	2.54	2.96	3.31	96.7
-150+270M	53	2.58	3.01	6.32	93.7
-270+325M	45	0.55	0.64	6.96	93.0
-325+400M	38	0.59	0.69	7.65	92.4
-400M		79.23	92.35	100.00	0.0
Composite		85.79	100.00		