

## Close-out Report

### Vlakfontein Beneficiation Plant Project



## 18.APPENDIX 3: WASHABILITY DATA

### 18.1 S4L BULK SAMPLES WASHABILITY DATA

To	AEMFC SOC Ltd	TEST REPORT										Reference number:		RAL2023											
For Attention												Sample submitted:		03-Nov-20											
Tel:												Sample description:		S4L +35MM											
Fax:												Contact Person:													
Cell:												Report date:		12-Oct-20											
Email:												Report status:		FINAL											
Results expressed on Air Dry Basis												Number of pages		1 OF 1											
												FRACTIONAL										CUMULATIVE			
Lab No.	Sample Identity	Mass g	% Yield	% Ash	Cal Val - Mj/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur	% Yield	% Ash	Cal Val - Mj/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur									

## Close-out Report

### Vlakfontein Beneficiation Plant Project



To:	AE-MFC SOC Ltd	TEST REPORT								Reference number:		RAL2023						
For Attention:										Sample submitted:		09-Oct-20						
Tel:										Sample description:		S4L +20MM						
Fax:										Contact Person:								
Cell:										Report date:		03-Nov-20						
Email:										Report status:		FINAL						
Results expressed on Air Dry Basis										Number of pages		1 OF 1						
		FRACTIONAL									CUMULATIVE							
Lab No.	Sample Identity	Mass g		% Yield	% Ash	Cal Val - Mj/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur	% Yield	% Ash	Cal Val - Mj/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur	
	Sample Mass	45650																
	Raw RD*																	
	-0.5mm																	
2203	F 1.40	4244	9.4	8.8	29.02	30.6	3.6	57.0	0.90	9.4	8.8	29.02	30.60	3.60	57.00	0.90		
2204	F 1.50	20980	46.3	13.6	27.08	23.0	3.9	59.5	0.53	55.7	12.8	27.41	24.30	3.87	59.04	0.59		
2205	F 1.60	9160	20.2	22.4	23.44	20.2	4.0	53.5	0.62	75.9	15.4	26.35	23.19	3.90	57.56	0.60		
2206	F 1.70	2909	6.4	31.0	19.85	18.6	3.3	47.1	0.45	82.3	16.6	25.84	22.83	3.85	56.74	0.59		
2207	F 1.75	1111	2.5	37.2	17.79	17.5	3.3	42.0	0.59	84.7	17.2	25.61	22.68	3.84	56.32	0.59		
2208	F 1.80	1049	2.3	42.6	15.85	16.8	3.1	37.5	0.68	87.0	17.8	25.35	22.52	3.82	55.82	0.59		
2209	F 1.85	946	2.1	47.2	13.74	16.1	3.0	33.8	0.33	89.1	18.5	25.08	22.37	3.80	55.30	0.58		
2210	F 1.90	595	1.3	50.6	15.85	15.6	3.0	30.8	0.35	90.4	19.0	24.94	22.27	3.79	54.95	0.58		
2211	F 1.95	965	2.1	52.9	10.97	16.0	2.8	28.3	1.10	92.6	19.8	24.62	22.13	3.76	54.33	0.59		
2212	F 2.00	523	1.2	54.2	9.94	15.9	2.5	27.4	2.67	93.7	20.2	24.44	22.05	3.75	54.00	0.62		
2213	F 2.10	768	1.7	58.3	8.61	15.4	2.6	23.7	3.25	95.4	20.9	24.16	21.93	3.73	53.46	0.67		
2214	S 2.10	2075	4.6	55.9	10.58	20.3	1.8	22.1	21.50	100.0	22.5	23.54	21.86	3.64	52.03	1.62		
	Total	45325	100															

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### Vlakfontein Beneficiation Plant Project



To	AEMFC SOC Ltd	TEST REPORT								Reference number:		RAL2023					
For Attention										Sample submitted:		09-Oct-20					
Tel:										Sample description:		S4L +12.5MM					
Fax:										Contact Person:							
Cell:										Report date:		03-Nov-20					
Email:										Report status:		FINAL					
Results expressed on Air Dry Basis										Number of pages		1 OF 1					
		FRACTIONAL									CUMULATIVE						
Lab No.	Sample Identity	Mass g		% Yield	% Ash	Cal Val - Mj/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur	% Yield	% Ash	Cal Val - Mj/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur
	Sample Mass	45450															
	Raw RD*																
	-0.5mm																
2215	F 1.40	4775	10.5	6.8	29.90	31.8	4.2	57.3	0.91	10.5	6.8	29.90	31.80	4.15	57.25	0.91	
2216	F 1.50	19320	42.6	12.3	27.50	23.5	4.2	60.0	0.63	53.1	11.2	27.98	25.14	4.20	59.45	0.69	
2217	F 1.60	10350	22.8	20.7	23.62	20.8	3.9	54.6	0.62	75.9	14.1	26.67	23.84	4.12	57.98	0.67	
2218	F 1.70	3286	7.2	30.6	19.82	19.0	3.7	46.7	0.58	83.1	15.5	26.07	23.42	4.09	56.99	0.66	
2219	F 1.75	1089	2.4	36.7	17.29	17.9	3.4	42.0	0.50	85.5	16.1	25.82	23.26	4.07	56.57	0.65	
2220	F 1.80	1085	2.4	41.8	15.25	17.9	3.3	37.1	0.63	87.9	16.8	25.54	23.12	4.05	56.04	0.65	
2221	F 1.85	822	1.8	45.8	13.68	17.6	3.1	33.5	0.61	89.7	17.4	25.30	23.00	4.03	55.59	0.65	
2222	F 1.90	675	1.5	48.8	12.69	16.3	2.9	32.0	0.86	91.2	17.9	25.09	22.89	4.01	55.20	0.66	
2223	F 1.95	781	1.7	52.8	10.79	16.2	2.9	28.2	0.53	92.9	18.5	24.83	22.77	3.99	54.70	0.65	
2224	F 2.00	564	1.2	56.9	9.94	16.6	2.8	23.6	1.95	94.2	19.0	24.63	22.69	3.97	54.29	0.67	
2225	F 2.10	736	1.6	58.4	8.61	15.9	2.6	23.2	1.62	95.8	19.7	24.36	22.57	3.95	53.77	0.69	
2226	S 2.10	1912	4.2	57.9	10.58	19.8	1.9	20.5	13.20	100.0	21.3	23.78	22.46	3.86	52.36	1.21	
	Total	45397	100														



## Close-out Report

### Vlakfontein Beneficiation Plant Project



To	AEMEC SOC Ltd	TEST REPORT								Reference number:		RAL2023													
For Attention										Sample submitted:		09-Oct-20													
Tel:										Sample description:		S4L +4.75MM													
Fax:										Contact Person:															
Cell:										Report date:		03-Nov-20													
Email:										Report status:		FINAL													
Results expressed on Air Dry Basis										Number of pages		1 OF 1													
FRACTIONAL																		CUMULATIVE							
Lab No.	Sample Identity	Mass g		% Yield	% Ash	Cal Val -	% Volatile	% H <sub>2</sub> O	% Fixed	% T	% Yield	% Ash	Cal Val -	% Volatile	% H <sub>2</sub> O	% Fixed	% T								
						Mj/Kg			Carbon	Sulphur			Mj/Kg			Carbon	Sulphur								
									By							By									
									Difference							Difference									
	</																								

## Close-out Report

### Vlakfontein Beneficiation Plant Project



To	AEMFC SOC Ltd		TEST REPORT								Reference number:		RAL2023					
For Attention											Sample submitted:		09-Oct-20					
Sample description:											S4L +0.5MM							
Contact Person:																		
Report date:											03-Nov-20							
Report status:											FINAL							
Email:													Number of pages		1 OF 1			
Results expressed on Air Dry Basis																		
FRACTIONAL														CUMULATIVE				
Lab No.	Sample Identity	Mass g		% Yield	% Ash	Cal Val - Mj/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur	% Yield	% Ash	Cal Val - Mj/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur	
	Sample Mass	46470																
	Raw RD*																	
	-0.5mm																	
2239	F 1.40	8770	18.9	8.1	28.67	28.3	5.5	58.1	0.68	18.9	8.1	28.67	28.31	5.48	58.11	0.68		
2240	F 1.50	14250	30.8	14.9	25.56	21.9	5.7	57.5	0.50	49.7	12.3	26.74	24.32	5.63	57.74	0.57		
2241	F 1.60	7840	16.9	21.4	21.89	20.2	5.8	52.5	0.45	66.6	14.6	25.51	23.29	5.68	56.42	0.54		
2242	F 1.70	2780	6.0	29.7	17.68	20.1	6.1	44.1	0.44	72.6	15.9	24.86	23.02	5.71	55.40	0.53		
2243	F 1.75	2430	5.2	38.7	14.48	19.7	5.2	36.4	0.50	77.9	17.4	24.16	22.80	5.67	54.12	0.53		
2244	F 1.80	2430	5.2	40.6	13.60	19.5	4.8	35.1	0.45	83.1	18.9	23.50	22.59	5.62	52.92	0.52		
2245	F 1.85	2120	4.6	46.5	12.19	18.3	4.4	30.8	0.54	87.7	20.3	22.91	22.37	5.56	51.77	0.52		
2246	F 1.90	970	2.1	44.4	12.10	19.2	5.3	31.1	0.48	89.8	20.9	22.66	22.29	5.55	51.28	0.52		
2247	F 1.95	70	0.2	45.8	11.70	18.8	5.3	30.1	0.50	89.9	20.9	22.64	22.29	5.55	51.25	0.52		
2248	F 2.00	1880	4.1	53.1	9.44	16.9	4.1	25.8	0.65	94.0	22.3	22.07	22.06	5.49	50.15	0.53		
2249	F 2.10	1130	2.4	57.7	7.32	16.5	4.0	21.9	0.73	96.4	23.2	21.69	21.91	5.45	49.44	0.53		
2250	S 2.10	1660	3.6	67.2	5.68	17.3	2.5	12.9	11.35	100.0	24.8	21.12	21.75	5.35	48.13	0.92		
	Total	46330	100															

## Close-out Report

### Vlakfontein Beneficiation Plant Project



## 18.2 S2U BULK SAMPLES WASHABILITY DATA

To:	AEMFC SOC Ltd	TEST REPORT						Reference number:		RAL2023							
For Attention								Sample submitted:		09-Oct-20							
Tel:								Sample description:		S2U +35MM							
Fax:								Contact Person:									
Cell:								Report date:		12-Oct-20							
Email:								Report status:		FINAL							
Results expressed on Air Dry Basis						Number of pages		1 OF 1									
		FRACTIONAL								CUMULATIVE							
Lab No.	Sample Identity	Mass g	% Yield	% Ash	Cal Val - Mj/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur	% Yield	% Ash	Cal Val - Mj/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur	
				</													



## Close-out Report

### Vlakfontein Beneficiation Plant Project



To: AEMFC SOC Ltd		TEST REPORT								Reference number: RAL2023											
For Attention:										Sample submitted: 09-Oct-20											
Tel:										Sample description: S2L +20MM											
Fax:										Contact Person:											
Cell:										Report date: 12-Oct-20											
Email:										Report status: FINAL											
										Results expressed on Air Dry Basis								Number of pages: 1 OF 1			
		FRACTIONAL										CUMULATIVE									
Lab No.	Sample Identity	Mass g		% Yield	% Ash	Cal Val - M/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur	% Yield	% Ash	Cal Val - M/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur				
		Total	Fract*	Fract*	Fract	Fract	Fract	Fract	Fract	Fract	Fract	Cum*	Cum	Cum	Cum	Cum	Cum	Cum			
	Sample Mass	59385																			
	Raw RD*																				
	-0.5mm																				
2123	F 1.35	332	0.6	8.6	30.46	35.4	3.8	52.1	0.81	0.6	8.6	30.46	35.44	3.83	52.13	0.81					
2124	F 1.40	666	1.1	9.8	29.46	33.0	3.9	53.4	0.77	1.7	9.4	29.79	33.81	3.84	52.95	0.78					
2125	F 1.45	1702	2.9	12.2	27.91	26.1	4.2	57.5	0.48	4.5	11.2	28.61	28.94	4.07	55.82	0.59					
2126	F 1.50	4483	7.5	15.7	26.24	23.5	4.1	56.7	0.33	12.1	14.0	27.13	25.53	4.08	56.39	0.43					
2127	F 1.55	6090	10.3	20.1	24.42	23.0	3.9	53.0	0.36	22.4	16.8	25.89	24.38	3.99	54.84	0.40					
2128	F 1.60	3128	5.3	23.8	22.79	22.3	3.7	50.2	0.29	27.6	18.1	25.30	23.98	3.94	53.95	0.38					
2129	F 1.65	3794	6.4	28.0	21.43	21.5	3.5	47.0	0.66	34.0	20.0	24.57	23.52	3.86	52.64	0.43					
2130	F 1.70	2012	3.4	33.3	19.22	20.7	3.4	42.6	0.45	37.4	21.2	24.08	23.27	3.81	51.73	0.43					
2131	F 1.75	994	1.7	37.8	17.51	19.7	3.1	39.5	0.43	39.1	21.9	23.80	23.11	3.78	51.21	0.43					
2132	F 1.80	1346	2.3	41.8	16.17	18.5	2.9	36.8	0.35	41.3	23.0	23.38	22.86	3.73	50.42	0.43					
2133	F 1.85	1407	2.4	45.4	14.73	17.3	2.9	34.3	0.25	43.7	24.2	22.92	22.56	3.69	49.55	0.42					
2134	F 1.90	949	1.6	48.7	13.02	17.2	2.7	31.4	0.88	45.3	25.1	22.57	22.37	3.65	48.91	0.43					
2135	F 1.95	875	1.5	50.8	11.77	16.3	2.8	30.1	0.79	46.8	25.9	22.23	22.18	3.63	48.31	0.45					
2136	F 2.00	472	0.8	53.7	10.65	16.4	2.7	27.3	0.77	47.6	26.3	22.03	22.08	3.61	47.96	0.45					
2137	F 2.05	739	1.2	57.4	8.54	15.5	2.6	24.6	1.06	48.8	27.1	21.69	21.91	3.58	47.36	0.47					
2138	F 2.10	1156	1.9	62.6	6.61	15.6	2.3	19.5	1.53	50.8	28.5	21.11	21.67	3.53	46.30	0.51					
2139	S 2.10	29240	49.2	77.5	-	12.9	1.7	8.0	1.08	100.0	52.6	10.72	17.34	2.61	27.43	0.79					
	Total	59385	100																		

## Close-out Report

### Vlakfontein Beneficiation Plant Project



To	AEMFC SOC Ltd										Reference number: RAL2023								
For Attention	<div></div>										Sample submitted: 09-Oct-20								
Tel:											Sample description: S2L +12.5MM								
Fax:											Contact Person: <div></div>								
Cell:											Report date: 14-Oct-20								
Email:											Report status: FINAL								
Results expressed on Air Dry Basis										Number of pages: 1 OF 1									
		FRACTIONAL										CUMULATIVE							
Lab No.	Sample Identity	Mass g	% Yield	% Ash	Cal Val - Mj/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur	% Yield	% Ash	Cal Val - Mj/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur			
											</								



## Close-out Report

### Vlakfontein Beneficiation Plant Project



To	AEMFC SOC Ltd	TEST REPORT								Reference number:		RAL2023					
For Attention										Sample submitted:		09-Oct-20					
Tel:										Sample description:		S2L +4.75MM					
Fax:										Contact Person:							
Cell:										Report date:		19-Oct-20					
Email:										Report status:		FINAL					
Results expressed on Air Dry Basis										Number of pages		1 OF 1					
		FRACTIONAL										CUMULATIVE					
Lab No.	Sample Identity	Mass g		% Yield	% Ash	Cal Val - MJ/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur	% Yield	% Ash	Cal Val - MJ/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur
		Total	Fract*	Fract*	Fract	Fract	Fract	Fract	Fract	Fract	Cum*	Cum	Cum	Cum	Cum	Cum	Cum
	Sample Mass	53150															
	Raw RD*																
	-0.5mm																
2157	F 1.35	597	1.1	6.8	30.80	35.2	3.9	54.1	0.81	1.1	6.8	30.80	35.23	3.87	54.10	0.81	
2158	F 1.40	553	1.0	10.1	29.17	32.8	3.9	53.2	0.76	2.2	8.4	30.02	34.04	3.89	53.68	0.79	
2159	F 1.45	1192	2.3	12.2	27.83	27.9	4.1	55.8	0.52	4.4	10.3	28.90	30.90	4.02	54.75	0.65	
2160	F 1.50	2414	4.6	12.7	27.31	23.2	4.2	60.0	0.35	9.0	11.5	28.09	26.98	4.09	57.40	0.50	
2161	F 1.55	6837	13.0	17.0	25.21	22.1	4.0	56.9	0.32	22.0	14.8	26.39	24.07	4.05	57.12	0.39	
2162	F 1.60	4072	7.7	21.8	23.37	21.3	3.9	53.1	0.30	29.7	16.6	25.61	23.34	4.00	56.07	0.37	
2163	F 1.65	4043	7.7	26.6	21.39	21.0	3.5	48.9	0.37	37.4	18.6	24.74	22.86	3.91	54.59	0.37	
2164	F 1.70	2306	4.4	34.3	18.67	20.0	3.1	42.6	0.35	41.8	20.3	24.11	22.55	3.83	53.34	0.37	
2165	F 1.75	898	1.7	37.0	17.56	18.9	3.0	41.1	0.34	43.5	20.9	23.85	22.41	3.79	52.86	0.37	
2166	F 1.80	1151	2.2	41.0	16.08	18.8	2.9	37.3	0.37	45.7	21.9	23.48	22.24	3.75	52.11	0.37	
2167	F 1.85	1575	3.0	45.2	14.63	17.8	2.6	34.4	0.37	48.6	23.3	22.93	21.96	3.68	51.03	0.37	
2168	F 1.90	914	1.7	47.1	13.01	17.2	2.7	33.0	0.35	50.4	24.1	22.59	21.80	3.65	50.41	0.37	
2169	F 1.95	1014	1.9	51.3	11.50	16.4	2.6	29.8	0.34	52.3	25.1	22.18	21.60	3.61	49.65	0.36	
2170	F 2.00	424	0.8	54.4	10.43	16.3	2.4	26.9	0.42	53.1	25.6	22.01	21.52	3.59	49.30	0.37	
2171	F 2.05	826	1.6	56.6	8.85	15.8	2.3	25.3	0.41	54.7	26.5	21.63	21.36	3.55	48.62	0.37	
2172	F 2.10	1940	3.7	67.3	4.46	14.9	2.0	15.8	0.55	58.4	29.1	20.55	20.95	3.45	46.55	0.38	
2173	S 2.10	21944	41.6	80.0	-	13.5	1.6	4.9	0.52	100.0	50.3	11.99	17.86	2.68	29.19	0.44	
	Total	52700	100														

## Close-out Report

### Vlakfontein Beneficiation Plant Project

To:	AEMFC SOC Ltd	TEST REPORT	Reference number:	RAL2023														
For Attention:			Sample submitted:	09-Oct-20														
Tel:			Sample description:	S2U +0.5MM														
Fax:			Contact Person:															
Cell:			Report date:	19-Oct-20														
Email:			Report status:	FINAL														
Results expressed on Air Dry Basis			Number of pages	1 OF 1														
		FRACTIONAL								CUMULATIVE								
Lab No.	Sample Identity	Mass g		% Yield	% Ash	Cal Val - MJ/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur	% Yield	% Ash	Cal Val - MJ/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur	
		Total	Fract*	Fract*	RALW0015	RALW0017	RALW0014	RALW0013	By Difference	RAL W0019	Cum*	Cum	Cum	Cum	Cum	Cum	By Difference	RAL W0020
	Sample Mass	44700																
	Raw RD*																	
	-0.5mm																	
2174	F 1.35	973	2.2	6.3	30.65	33.6	4.0	56.1	0.75	2.2	6.3	30.65	33.62	4.03	56.05	0.75		
2175	F 1.40	582	1.3	10.1	28.73	30.7	4.1	55.1	0.67	3.5	7.7	29.93	32.52	4.07	55.69	0.72		
2176	F 1.45	1266	2.9	11.0	27.77	26.2	4.3	58.5	0.44	6.4	9.2	28.96	29.69	4.15	56.96	0.59		
2177	F 1.50	2844	6.4	12.8	26.82	22.4	4.2	60.6	0.31	12.8	11.0	27.89	26.04	4.19	58.76	0.45		
2178	F 1.55	7069	16.0	17.7	24.81	21.1	3.8	57.3	0.30	28.7	14.7	26.18	23.31	4.00	57.97	0.37		
2179	F 1.60	1762	4.0	20.6	23.78	20.6	3.8	55.0	0.25	32.7	15.4	25.89	22.98	3.97	57.62	0.35		
2180	F 1.65	3974	9.0	26.1	21.58	20.1	3.8	50.0	0.27	41.7	17.7	24.96	22.36	3.93	55.98	0.34		
2181	F 1.70	3314	7.5	32.7	18.93	19.6	3.7	44.0	0.30	49.2	20.0	24.04	21.94	3.89	54.17	0.33		
2182	F 1.75	353	0.8	34.5	18.14	19.9	3.6	42.0	0.27	50.0	20.2	23.95	21.90	3.88	53.97	0.33		
2183	F 1.80	1282	2.9	39.7	16.24	18.4	3.1	38.8	0.28	52.8	21.3	23.53	21.71	3.84	53.14	0.33		
2184	F 1.85	1200	2.7	43.8	14.52	17.6	3.2	35.4	0.32	55.6	22.4	23.09	21.51	3.81	52.28	0.33		
2185	F 1.90	679	1.5	47.0	13.11	17.4	3.1	32.5	0.29	57.1	23.1	22.82	21.40	3.79	51.75	0.33		
2186	F 1.95	1047	2.4	49.9	11.95	17.0	3.1	30.0	0.30	59.5	24.1	22.39	21.23	3.76	50.88	0.32		
2187	F 2.00	706	1.6	53.7	9.96	17.2	2.8	26.3	0.32	61.0	24.9	22.06	21.12	3.74	50.24	0.32		
2188	F 2.05	629	1.4	56.3	8.40	16.5	3.1	24.1	0.32	62.5	25.6	21.75	21.02	3.72	49.65	0.32		
2189	F 2.10	1752	4.0	65.2	4.68	15.7	3.1	16.0	0.35	66.4	28.0	20.74	20.70	3.69	47.64	0.33		
2190	S 2.10	14881	33.6	77.5	-	14.2	2.7	5.7	0.61	100.0	44.6	13.77	18.50	3.35	33.55	0.42		
	Total	44313	100															

## Close-out Report

### Vlakfontein Beneficiation Plant Project



### 18.3 S2L BULK SAMPLES WASHABILITY DATA

To:	AEMFC SOC Ltd	TEST REPORT										Reference number:		RAL2023			
For Attention												Sample submitted:		09-Oct-20			
Tel:												Sample description:		S2L +35MM			
Fax:												Contact Person:					
Cell:												Report date:		12-Oct-20			
Email:												Report status:		FINAL			
Results expressed on Air Dry Basis												Number of pages		1 OF 1			
		FRACTIONAL										CUMULATIVE					
Lab No.	Sample Identity	Mass g		% Yield	% Ash	Cal Val - MJ/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur	% Yield	% Ash	Cal Val - MJ/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur
		Total	Fract*	Fract*	RALW0015	RALW0017	RALW0014	RALW0013	By Difference	RALW0019	Cum*	Cum	Cum	Cum	Cum	Cum	By Difference
	Sample Mass	49350															
	Raw RD*																
	-0.5mm																
2021	F 1.35	0	0.0								0.0	0.0	0.0	0.0	0.0	0.0	0.0
2022	F 1.40	168	0.3	9.3	30.32	28.9	3.4	58.4	0.44	0.3	9.3	30.32	28.93	3.41	58.36	0.44	
2023	F 1.45	892	1.8	14.5	27.74	27.7	3.6	54.2	0.50	2.2	13.7	28.15	27.87	3.60	54.86	0.49	
2024	F 1.50	1319	2.7	17.1	26.24	24.8	4.2	53.9	0.30	4.9	15.6	27.09	26.19	3.91	54.33	0.38	
2025	F 1.55	4504	9.2	20.4	24.80	22.9	4.0	52.7	0.36	14.1	18.7	25.59	24.05	3.97	53.24	0.37	
2026	F 1.60	7376	15.1	23.4	23.67	20.5	3.5	52.7	0.24	29.2	21.1	24.60	22.21	3.70	52.94	0.30	
2027	F 1.65	11323	23.2	27.4	21.84	20.0	3.3	49.3	0.24	52.3	23.9	23.38	21.23	3.52	51.34	0.27	
2028	F 1.70	2686	5.5	32.2	19.75	19.7	3.3	44.8	0.58	57.8	24.7	23.03	21.08	3.50	50.72	0.30	
2029	F 1.75	2023	4.1	37.6	17.91	17.3	3.2	41.9	0.24	62.0	25.6	22.69	20.82	3.48	50.13	0.30	
2030	F 1.80	2591	5.3	41.2	16.82	16.8	3.0	39.0	0.40	67.3	26.8	22.23	20.51	3.44	49.25	0.31	
2031	F 1.85	1621	3.3	45.5	15.38	15.2	3.0	36.3	0.35	70.6	27.7	21.91	20.26	3.42	48.65	0.31	
2032	F 1.90	1816	3.7	49.4	13.28	15.9	2.6	32.1	0.45	74.3	28.8	21.47	20.04	3.38	47.82	0.32	
2033	F 1.95	2682	5.5	53.2	11.80	13.9	2.4	30.5	0.62	79.8	30.4	20.81	19.62	3.31	46.63	0.34	
2034	F 2.00	1619	3.3	56.8	10.27	13.3	2.7	27.3	0.24	83.1	31.5	20.39	19.37	3.26	45.86	0.33	
2035	F 2.05	1030	2.1	59.0	9.80	13.2	2.2	25.5	0.51	85.2	32.2	20.13	19.22	3.26	45.35	0.34	
2036	F 2.10	1258	2.6	62.2	7.87	12.5	2.0	23.3	0.26	87.8	33.1	19.77	19.02	3.22	44.71	0.34	
2037	S 2.10	5961	12.2	75.5	3.70	10.7	1.5	12.3	3.69	100.0	38.2	17.81	18.00	3.01	40.76	0.74	
	Total	48869	100														



## Close-out Report

### Vlakfontein Beneficiation Plant Project



To:	AEMFC SOC Ltd	TEST REPORT								Reference number:		RAL2023					
For Attention										Sample submitted:		09-Oct-20					
Tel:										Sample description:		S21 +12.5MM					
Fax:										Contact Person:							
Cell:										Report date:		14-Oct-20					
Email:										Report status:		FINAL					
Results expressed on Air Dry Basis										Number of pages:		1 OF 1					
		FRACTIONAL								CUMULATIVE							
Lab No.	Sample Identity	Mass g		% Yield	% Ash	Cal Val - MJ/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur	% Yield	% Ash	Cal Val - MJ/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur
	Sample Mass	53550															
	Raw RD*																
	-0.5mm																
2055	F 1.35	80	0.2	8.2	29.59	34.5	4.8	52.6	0.75	0.2	8.2	29.59	34.45	4.80	52.55	0.75	
2056	F 1.40	203	0.4	9.7	28.79	30.7	5.0	54.6	0.58	0.5	9.3	29.02	31.77	4.96	53.99	0.63	
2057	F 1.45	945	1.8	12.7	28.07	26.5	4.7	56.1	0.37	2.3	11.9	28.29	27.72	4.79	55.58	0.43	
2058	F 1.50	2294	4.3	16.1	26.43	24.3	4.6	55.0	0.34	6.6	14.6	27.08	25.49	4.67	55.20	0.37	
2059	F 1.55	7320	13.8	19.9	24.80	21.5	4.4	54.2	0.26	20.4	18.2	25.54	22.79	4.50	54.52	0.30	
2060	F 1.60	8635	16.3	23.6	22.57	19.8	4.2	52.3	0.24	36.7	20.7	24.22	21.45	4.36	53.51	0.27	
2061	F 1.65	10324	19.4	28.0	21.26	18.9	4.0	49.1	0.22	56.1	23.2	23.20	20.57	4.25	51.97	0.25	
2062	F 1.70	3616	6.8	32.8	19.46	18.8	3.9	44.5	0.25	62.9	24.3	22.79	20.38	4.21	51.16	0.25	
2063	F 1.75	2303	4.3	36.9	18.21	17.5	3.7	42.0	0.24	67.3	25.1	22.50	20.19	4.18	50.56	0.25	
2064	F 1.80	2064	3.9	40.9	16.77	16.6	3.5	38.9	0.27	71.2	25.9	22.18	20.00	4.14	49.93	0.25	
2065	F 1.85	2410	4.5	45.8	14.94	15.5	3.4	35.4	0.27	75.7	27.1	21.75	19.73	4.10	49.06	0.25	
2066	F 1.90	1328	2.5	50.7	13.33	14.2	3.1	32.0	0.39	78.2	27.9	21.48	19.55	4.06	48.51	0.26	
2067	F 1.95	1953	3.7	54.0	11.88	13.5	3.0	29.6	0.34	81.9	29.1	21.05	19.28	4.01	47.66	0.26	
2068	F 2.00	1690	3.2	57.3	10.50	12.7	2.9	27.1	0.23	85.1	30.1	20.65	19.03	3.97	46.89	0.26	
2069	F 2.05	1196	2.3	58.5	9.56	12.2	2.7	26.6	0.72	87.3	30.8	20.37	18.85	3.94	46.37	0.27	
2070	F 2.10	1173	2.2	64.3	7.59	11.7	2.6	21.5	0.31	89.5	31.7	20.05	18.68	3.90	45.75	0.27	
2071	S 2.10	5555	10.5	76.4	2.83	10.7	1.8	11.1	2.71	100.0	36.3	18.25	17.84	3.69	42.13	0.53	
	Total	53089	100														

## Close-out Report

### Vlakfontein Beneficiation Plant Project



To:	AEMFC SOC Ltd	TEST REPORT								Reference number:		RAL2023						
For Attention:										Sample submitted:		09-Oct-20						
Tel:										Sample description:		S2L +4.75MM						
Fax:										Contact Person:								
Cell:										Report date:		19-Oct-20						
Email:										Report status:		FINAL						
Results expressed on Air Dry Basis										Number of pages		1 OF 1						
		FRACTIONAL								CUMULATIVE								
Lab No.	Sample Identity	Mass g		% Yield	% Ash	Cal Val - Mj/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur	% Yield	% Ash	Cal Val - Mj/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur	
		Total	Fract*	Fract*	RALW0015	RALW0017	RALW0014	RALW0013	By Difference	RAL W0019	Cum*	Cum	Cum	Cum	Cum	By Difference	RAL W0020	
	Sample Mass	51342																
	Raw RD*																	
	-0.5mm																	
2072	F 1.35	109	0.2	14.3	27.79	32.4	4.4	48.9	0.78	0.2	14.3	27.79	32.42	4.36	48.92	0.78		
2073	F 1.40	233	0.5	9.5	29.12	31.0	4.8	54.7	0.64	0.7	11.0	28.70	31.48	4.63	52.86	0.68		
2074	F 1.45	1093	2.1	12.4	27.77	26.8	4.5	56.3	0.40	2.8	12.1	27.99	27.93	4.55	55.44	0.47		
2075	F 1.50	2291	4.5	15.5	26.64	23.4	4.3	56.8	0.31	7.3	14.2	27.16	25.15	4.40	56.27	0.37		
2076	F 1.55	7685	15.0	19.6	25.00	20.7	4.2	55.5	0.26	22.2	17.8	25.71	22.18	4.25	55.74	0.30		
2077	F 1.60	8644	16.8	23.5	23.32	19.5	4.0	53.0	0.26	39.1	20.3	24.68	21.00	4.15	54.57	0.28		
2078	F 1.65	9010	17.5	28.1	21.34	18.5	4.0	49.5	0.23	56.6	22.7	23.64	20.22	4.10	52.99	0.26		
2079	F 1.70	3965	7.7	33.1	19.39	18.4	3.6	44.9	0.23	64.3	23.9	23.13	20.00	4.04	52.01	0.26		
2080	F 1.75	2314	4.5	36.6	18.18	17.0	3.5	42.9	0.23	68.8	24.8	22.81	19.81	4.00	51.41	0.26		
2081	F 1.80	2275	4.4	41.4	16.52	15.6	3.3	39.7	0.22	73.3	25.8	22.43	19.55	3.96	50.71	0.26		
2082	F 1.85	1857	3.6	45.7	14.87	15.0	3.1	36.2	0.24	76.9	26.7	22.07	19.34	3.92	50.02	0.26		
2083	F 1.90	1479	2.9	50.3	13.07	14.3	2.9	32.5	0.22	79.8	27.6	21.75	19.15	3.89	49.39	0.25		
2084	F 1.95	1847	3.6	54.2	11.25	13.8	2.8	29.3	0.18	83.4	28.7	21.29	18.92	3.84	48.52	0.25		
2085	F 2.00	1480	2.9	57.5	9.48	12.8	2.7	27.1	0.20	86.2	29.7	20.90	18.72	3.80	47.80	0.25		
2086	F 2.05	1055	2.1	60.7	7.91	12.2	2.5	24.6	0.29	88.3	30.4	20.60	18.56	3.77	47.26	0.25		
2087	F 2.10	850	1.7	64.4	7.32	11.8	2.4	21.4	0.36	90.0	31.0	20.35	18.44	3.74	46.79	0.25		
2088	S 2.10	5155	10.0	77.4	1.97	11.0	1.9	9.8	1.92	100.0	35.7	18.51	17.69	3.55	43.07	0.42		
	Total	51342	100															

## Close-out Report

### Vlakfontein Beneficiation Plant Project

To: AEMFC SOC Ltd		TEST REPORT										Reference number: RAL2023							
For Attention:												Sample submitted: 09-Oct-20							
Tel:												Sample description: S2L +0.5MM							
Fax:												Contact Person:							
Cell:												Report date: 19-Oct-20							
Email:												Report status: FINAL							
Results expressed on Air Dry Basis												Number of pages: 1 OF 1							
		FRACTIONAL										CUMULATIVE							
Lab No.	Sample Identity	Mass g		% Yield	% Ash	Cal Val - M/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur	% Yield	% Ash	Cal Val - M/Kg	% Volatile	% H <sub>2</sub> O	% Fixed Carbon	% T Sulphur		
		Total	Fract*	Fract*	Fract	Fract	Fract	Fract	Fract	Fract	Fract	Cum*	Cum	Cum	Cum	Cum	Cum	Cum	
	Sample Mass	42348																	
	Raw RD*																		
	-0.5mm																		
2089	F 1.35	391	0.9	4.9	30.33	31.1	5.9	58.1	0.53	0.9	4.9	30.33	31.05	5.92	58.13	0.53			
2090	F 1.40	476	1.1	8.4	29.15	29.6	5.2	56.9	0.54	2.0	6.8	29.68	30.23	5.52	57.43	0.54			
2091	F 1.45	1166	2.8	11.6	27.96	25.5	4.8	58.1	0.37	4.8	9.6	28.69	27.51	5.10	57.83	0.44			
2092	F 1.50	2714	6.4	14.7	26.52	22.1	4.6	58.6	0.31	11.2	12.5	27.45	24.44	4.80	58.26	0.37			
2093	F 1.55	6897	16.3	19.4	24.82	20.2	4.2	56.2	0.31	27.5	16.6	25.89	21.93	4.47	57.02	0.33			
2094	F 1.60	6490	15.3	23.9	22.89	19.2	4.1	52.7	0.23	42.8	19.2	24.82	20.96	4.35	55.49	0.30			
2095	F 1.65	6184	14.6	28.5	21.37	18.8	3.8	48.9	0.24	67.4	21.6	23.94	20.41	4.21	53.81	0.28			
2096	F 1.70	3928	9.3	33.4	19.06	18.0	3.7	44.9	0.23	66.7	23.2	23.26	20.08	4.14	52.56	0.27			
2097	F 1.75	2078	4.9	34.6	18.24	17.4	3.7	44.4	0.26	71.6	24.0	22.92	19.89	4.11	52.00	0.27			
2098	F 1.80	1725	4.1	40.3	16.46	16.8	3.4	39.5	0.22	75.7	24.9	22.57	19.73	4.07	51.33	0.27			
2099	F 1.85	1440	3.4	44.4	14.84	16.1	3.2	36.3	0.23	79.1	25.7	22.24	19.57	4.03	50.68	0.27			
2100	F 1.90	1197	2.8	48.9	13.13	15.4	3.2	32.6	0.21	81.9	26.5	21.92	19.43	4.00	50.06	0.27			
2101	F 1.95	1124	2.7	52.4	11.66	14.6	3.1	29.9	0.22	84.6	27.3	21.60	19.28	3.97	49.42	0.27			
2102	F 2.00	957	2.3	55.9	10.66	14.0	3.0	27.1	0.23	86.8	28.1	21.32	19.14	3.95	48.84	0.26			
2103	F 2.05	668	1.6	58.8	9.35	13.8	3.0	24.4	0.23	88.4	28.6	21.10	19.04	3.93	48.41	0.26			
2104	F 2.10	587	1.4	62.1	7.75	13.7	2.9	21.3	0.31	89.8	29.1	20.90	18.96	3.92	47.99	0.26			
2105	S 2.10	4326	10.2	74.4	2.98	13.0	2.5	10.1	1.44	100.0	33.8	19.07	18.35	3.77	44.12	0.38			
	Total	42348	100																



[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

### 13. BENEFICIATION PLANT AND CRUDE OIL HANDLEABILITY

[REDACTED] the proposed plant design must consider the anticipated crude oil contaminated coal that is in the life of mine. [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

The Vlakfontein crude oil contamination is not a challenge that can be answered via a desktop study or a literature survey. There needs to be an in-depth understanding of the extent and type of contamination so that a techno-economically sound solution can be established.

#### 14. CONCLUSIONS AND RECOMMENDATIONS

[REDACTED]

The DMS solution is the only solution that can produce either the 34% or 30% ash content product considering a multiple feed blends of the ROM feed synonymous with the collected S2U and S2L bulk samples. It is on this basis that the DMS plant option is recommended as a favourable treatment solution for the Vlakfontein operations. The decision on the desliming screen cut size will largely be influenced by the Vlakfontein business model and on whether there is an agreement with Eskom to produce the 30% ash content product. If the current ash content specification of 34% remains, then the desliming screen of 6mm must be selected and the DMS cut point density be set at a maximum of  $1.80\text{t/m}^3$  when treating a ROM feed blend that is constituted by S2U coal content greater than 90%. However, if the targeted product ash content is 30%, then a 1mm deslime screen cut size has to be selected.

The recommended DMS plant should be designed complete with a flexibility of collecting the floats' drain and rinse screens' discharge as the only constituent to the final product. This will allow the plant to produce A-Grade (RB1) product when washing the ROM feed synonymous to the collected S4L bulk sample. The emanating reject coal would not be discarded but be



trickled fed into the Eskom product as it meets the Eskom specified coal qualities but has a higher Total Sulphur content.

The crude oil contamination was not considered in the conceptual beneficiation solution selection process. This is due to that the extent and the type of oils contamination is not understood. The Vlakfontein crude oil contamination is not a challenge that can be answered via a desktop study or a literature survey. There needs to be an in-depth understanding of the extent and type of contamination so that a techno-economically sound solution can be established.

It is of paramount importance to commission a study that will delve into the following aspects:

- representative sample collection and analysis of crude oil and hydrocarbons' samples with special attention to the roof, floor and side wall of the old underground workings
- mapping of the contaminated areas and estimation of crude oil volumes remaining in the bunker areas to establish the extent and amount of oil contamination the Vlakfontein operations should expect
- techno-economic studies of the in-situ and ex-situ crude oil recovery and cleaning solution

The collected roof, floor and side wall should be analysed for bulk solids flow for handleability assessment and DMS pilot plant testing to establish the impact on the efficient plant operation.



## WASHABILITY DATA BUNKERS

# TEST REPORT

Siza Coal Laboratory

P O BOX 5800

Secunda

2302

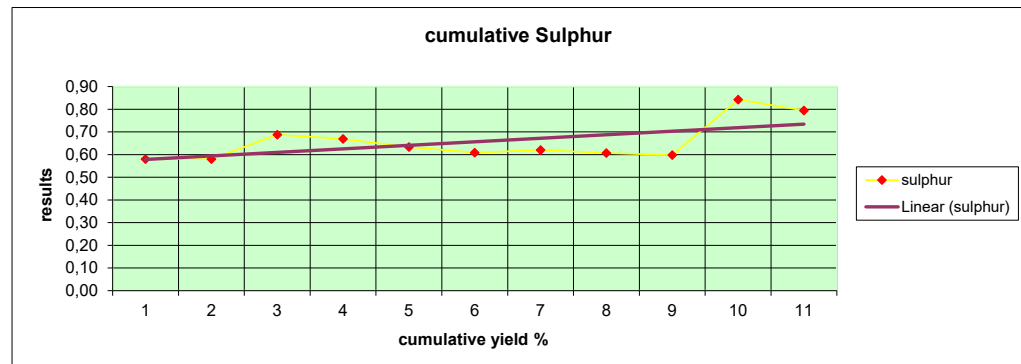
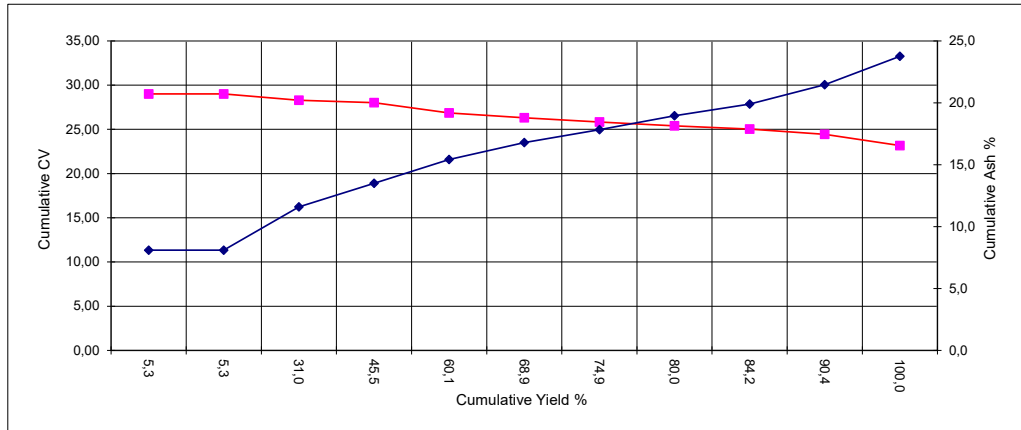
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	ACMFC
SAMPLE	VLKP
Description	S4L (C)
Date	19/02/2013

Mass as Rec.	9,16
Thickness	
Rel.Dens.	
Total Mass	4,57
Raw Rel.Dens	1,53

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
43738	F 1.35	0,24	5,3	29,01	5,1	8,1	32,9	53,9	0,58	33,42	37,90
43739	F 1.40	0,00	0,0								
43740	F 1.45	1,18	25,8	28,15	4,2	12,3	28,4	55,1	0,71	33,71	34,01
43741	F 1.50	0,66	14,5	27,43	4,9	17,6	27,0	50,5	0,63	35,39	34,84
43742	F 1.55	0,67	14,6	23,23	4,8	21,4	24,1	49,7	0,52	31,48	32,66
43743	F 1.60	0,40	8,8	22,63	4,5	26,1	23,4	46,0	0,44	32,61	33,72
43744	F 1.65	0,27	6,0	20,16	4,3	30,0	20,2	45,5	0,76	30,68	30,75
43745	F 1.70	0,23	5,1	19,22	3,8	35,3	19,9	41,0	0,40	31,56	32,68
43746	F1.75	0,19	4,2	18,19	3,9	37,8	19,8	38,5	0,43	31,20	33,96
43747	F1.80	0,28	6,1	16,33	3,8	42,8	18,7	34,7	4,20	30,58	35,02
43748	S1.80	0,44	9,6	11,09	2,9	45,5	18,1	33,5	0,34	21,49	35,08
43735	RAW	4,30	100,0	23,61	4,6	23,9	23,8	47,7	0,87	33,02	33,29
43736	-0.5MM	0,26	100,0	23,62	4,8	23,8	24,2	47,2	0,97	33,08	33,89
Cumulative Calculation											
43738	F 1.35	0,24	5,3	29,01	5,1	8,1	32,9	53,9	0,58	33,42	37,90
43739	F 1.40	0,24	5,3	29,01	5,1	8,1	32,9	53,9	0,58		
43740	F 1.45	1,42	31,0	28,30	4,4	11,6	29,2	54,9	0,69	33,66	34,69
43741	F 1.50	2,08	45,5	28,02	4,5	13,5	28,5	53,5	0,67	34,18	34,74
43742	F 1.55	2,75	60,1	26,86	4,6	15,4	27,4	52,6	0,63	33,58	34,27
43743	F 1.60	3,15	68,9	26,32	4,6	16,8	26,9	51,7	0,61	33,47	34,21
43744	F 1.65	3,42	74,9	25,83	4,6	17,8	26,4	51,2	0,62	33,28	33,97
43745	F 1.70	3,66	80,0	25,40	4,5	19,0	26,0	50,6	0,61	33,19	33,91
43746	F1.75	3,85	84,2	25,04	4,5	19,9	25,6	50,0	0,60	33,12	33,91
43747	F1.80	4,13	90,4	24,45	4,4	21,5	25,2	48,9	0,84	32,99	33,97
43748	S1.80	4,57	100,0	23,17	4,3	23,8	24,5	47,5	0,79	32,20	34,04
										0,00	0,00



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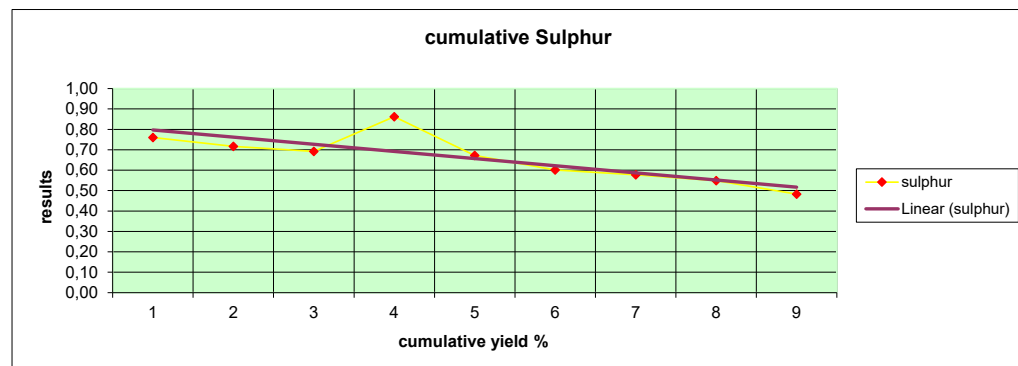
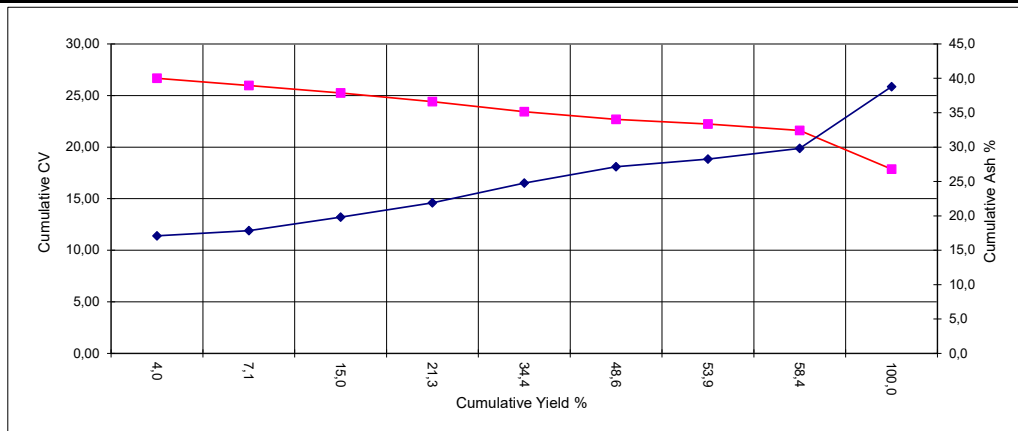
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	ACMFC
SAMPLE	VLKP 301
Description	S4U (B)
Date	19/02/2013

Mass as Rec.	11,38
Thickness	
Rel.Dens.	
Total Mass	6,54
Raw Rel.Dens	1,70

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
43694	F 1.35	0,00	0,0								
43695	F 1.40	0,00	0,0								
43696	F 1.45	0,26	4,0	26,67	4,5	17,1	26,7	51,7	0,76	34,02	34,06
43697	F 1.50	0,20	3,1	25,07	4,2	18,8	25,4	51,6	0,66	32,56	32,99
43698	F 1.55	0,52	7,9	24,58	4,5	21,6	23,9	50,0	0,67	33,26	32,34
43699	F 1.60	0,42	6,4	22,47	4,5	26,7	22,7	46,1	1,26	32,66	32,99
43700	F 1.65	0,85	13,0	21,82	3,7	29,5	20,8	46,0	0,36	32,66	31,14
43701	F 1.70	0,93	14,2	20,91	3,8	32,9	19,3	44,0	0,43	33,03	30,49
43702	F1.75	0,35	5,4	18,14	3,6	38,2	18,6	39,6	0,36	31,17	31,96
43703	F1.80	0,29	4,5	14,02	3,4	48,7	18,3	29,6	0,21	29,27	38,20
43704	S1.80	2,72	41,6	12,61	3,1	51,4	16,3	29,2	0,39	27,71	35,82
43691	RAW	4,52	100,0	17,83	3,1	37,5	20,4	39,0	0,83	30,02	34,34
43692	-0.5MM	0,30	100,0	24,18	2,5	21,1	25,0	51,4	0,78	31,65	32,72
Cumulative Calculation											
43694	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
43695	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
43696	F 1.45	0,26	4,0	26,67	4,5	17,1	26,7	51,7	0,76	34,02	34,06
43697	F 1.50	0,46	7,1	25,97	4,4	17,8	26,1	51,7	0,72	33,39	33,60
43698	F 1.55	0,98	15,0	25,24	4,4	19,8	25,0	50,8	0,69	33,32	32,95
43699	F 1.60	1,40	21,3	24,41	4,5	21,9	24,3	49,4	0,86	33,14	32,96
43700	F 1.65	2,25	34,4	23,43	4,2	24,8	23,0	48,1	0,67	32,97	32,31
43701	F 1.70	3,18	48,6	22,69	4,1	27,1	21,9	46,9	0,60	32,99	31,82
43702	F1.75	3,53	53,9	22,24	4,0	28,2	21,6	46,2	0,58	32,83	31,83
43703	F1.80	3,82	58,4	21,61	4,0	29,8	21,3	44,9	0,55	32,63	32,19
43704	S1.80	6,54	100,0	17,87	3,6	38,8	19,2	38,4	0,48	31,02	33,38
										0,00	0,00



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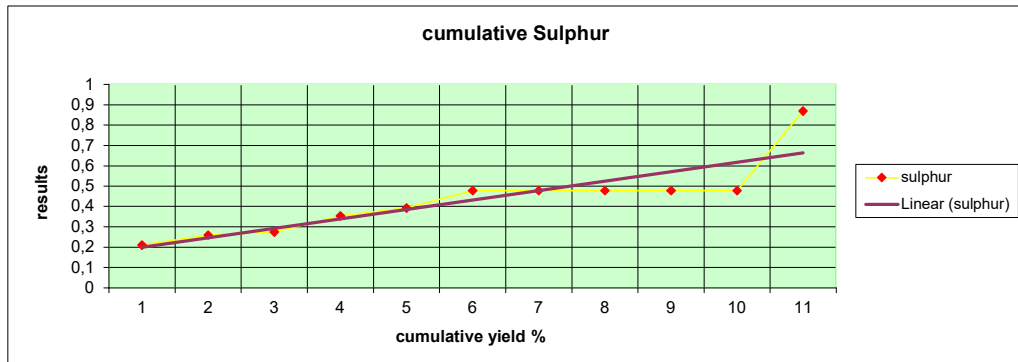
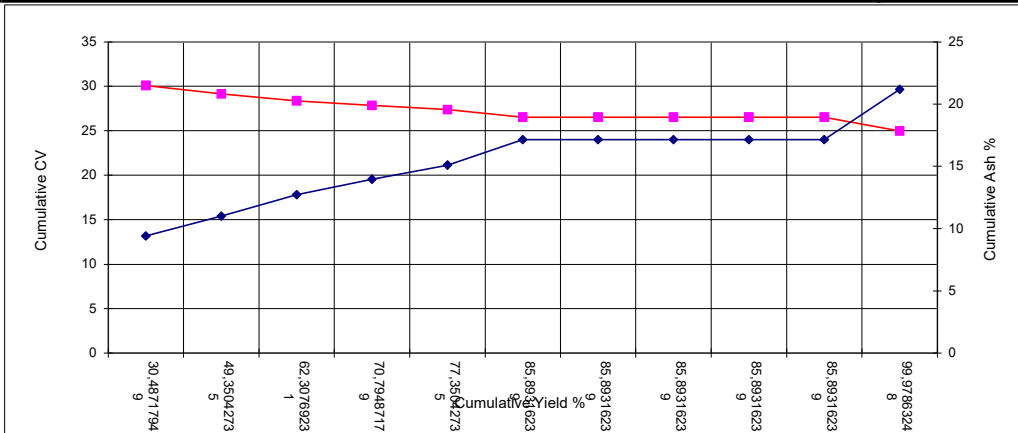
To	ZANDILE
MINE	ACMFC
SAMPLE	VLKP 301
Description	S5 (A)
Date	19/02/2013

Mass as Rec.	4,20
Thickness	
Rel.Dens.	
Total Mass	2,34
Raw Rel.Dens	1,51

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatiles %
43775	F 1.35	0,71	30,5	30,09	3,1	9,4	25,0	62,5	0,21	34,39	28,57
43776	F 1.40	0,44	18,9	27,64	3,6	13,6	21,6	61,2	0,34	33,38	26,09
43777	F 1.45	0,30	13,0	25,46	4,0	19,3	18,4	58,3	0,33	33,19	23,99
43778	F 1.50	0,20	8,5	23,91	4,4	23,1	17,5	55,0	0,94	32,98	24,14
43779	F 1.55	0,15	6,6	22,20	3,5	27,3	16,5	52,7	0,81	32,08	23,84
43780	F 1.60	0,20	8,5	19,12	3,3	35,7	16,0	45,0	1,25	31,34	26,23
43781	F 1.65	0,00	0,0								
43782	F 1.70	0,00	0,0								
43783	F1.75	0,00	0,0								
43784	F1.80	0,00	0,0								
43785	S1.80	0,33	14,1	15,37	3,5	45,7	14,5	36,3	3,26	30,26	28,54

43772	RAW	1,31	100,0	24,55	2,3	21,9	20,4	55,4	1,24	32,39	26,91
43773	-0.5MM	0,53	100,0	25,38	2,9	22,1	20,9	54,1	0,36	33,84	27,87

Cumulative Calculation											
43775	F 1.35	0,71	30,5	30,09	3,1	9,4	25,0	62,5	0,21	34,39	28,57
43776	F 1.40	1,15	49,4	29,15	3,3	11,0	23,7	62,0	0,26	34,02	27,65
43777	F 1.45	1,46	62,3	28,39	3,4	12,7	22,6	61,2	0,27	33,86	26,96
43778	F 1.50	1,66	70,8	27,85	3,6	14,0	22,0	60,5	0,35	33,77	26,66
43779	F 1.55	1,81	77,4	27,37	3,5	15,1	21,5	59,8	0,39	33,65	26,46
43780	F 1.60	2,01	85,9	26,55	3,5	17,2	21,0	58,4	0,48	33,47	26,44
43781	F 1.65	2,01	85,9	26,55	3,5	17,2	21,0	58,4	0,48		
43782	F 1.70	2,01	85,9	26,55	3,5	17,2	21,0	58,4	0,48		
43783	F1.75	2,01	85,9	26,55	3,5	17,2	21,0	58,4	0,48		
43784	F1.80	2,01	85,9	26,55	3,5	17,2	21,0	58,4	0,48		
43785	S1.80	2,34	100,0	24,97	3,5	21,2	20,1	55,2	0,87	33,16	26,64





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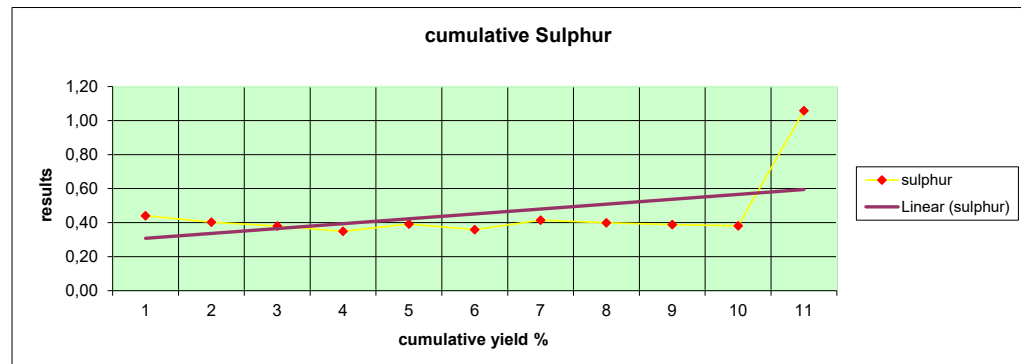
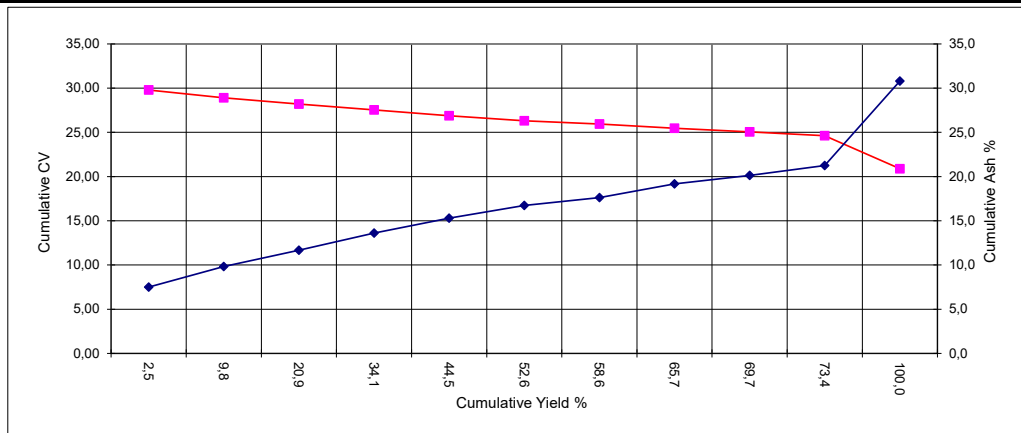
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	ACMFC
SAMPLE	VLKP 302
Description	S2U
Date	19/02/2013

Mass as Rec.	11,80
Thickness	
Rel.Dens.	
Total Mass	7,17
Raw Rel.Dens	1,91

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
43710	F 1.35	0,18	2,5	29,79	4,1	7,5	32,1	56,3	0,44	33,70	36,31
43711	F 1.40	0,53	7,3	28,60	4,2	10,6	26,7	58,5	0,39	33,57	31,34
43712	F 1.45	0,79	11,1	27,59	4,0	13,3	24,6	58,1	0,36	33,36	29,75
43713	F 1.50	0,95	13,2	26,51	3,9	16,7	23,5	55,9	0,30	33,39	29,60
43714	F 1.55	0,75	10,4	24,69	3,7	20,8	22,6	52,9	0,53	32,70	29,93
43715	F 1.60	0,58	8,1	23,18	3,4	24,6	19,7	52,3	0,18	32,19	27,36
43716	F 1.65	0,43	5,9	22,82	3,6	25,5	19,4	51,5	0,91	32,19	27,36
43717	F 1.70	0,51	7,1	21,43	3,6	31,9	17,5	47,0	0,27	33,22	27,13
43718	F1.75	0,29	4,0	18,38	3,3	35,6	17,1	44,0	0,22	30,08	27,99
43719	F1.80	0,27	3,7	16,29	2,8	42,6	16,8	37,8	0,24	29,84	30,77
43720	S1.80	1,90	26,6	10,61	2,2	57,2	15,2	25,4	2,93	26,13	37,44
43707	RAW	0,39	100,0	22,20	3,8	30,5	22,3	43,4	0,67	33,79	33,94
43708	-0.5MM	4,21	100,0	20,73	3,8	31,3	21,0	43,9	0,93	31,94	32,36
Cumulative Calculation											
43710	F 1.35	0,18	2,5	29,79	4,1	7,5	32,1	56,3	0,44	33,70	36,31
43711	F 1.40	0,70	9,8	28,90	4,2	9,8	28,1	57,9	0,40	33,60	32,63
43712	F 1.45	1,50	20,9	28,20	4,1	11,7	26,2	58,0	0,38	33,48	31,13
43713	F 1.50	2,44	34,1	27,55	4,0	13,6	25,2	57,2	0,35	33,44	30,55
43714	F 1.55	3,19	44,5	26,88	3,9	15,3	24,6	56,2	0,39	33,28	30,42
43715	F 1.60	3,77	52,6	26,31	3,9	16,7	23,8	55,6	0,36	33,13	29,99
43716	F 1.65	4,20	58,6	25,95	3,8	17,6	23,4	55,2	0,41	33,04	29,75
43717	F 1.70	4,71	65,7	25,46	3,8	19,2	22,7	54,3	0,40	33,06	29,51
43718	F1.75	5,00	69,7	25,05	3,8	20,1	22,4	53,7	0,39	32,92	29,44
43719	F1.80	5,27	73,4	24,61	3,7	21,3	22,1	52,9	0,38	32,81	29,49
43720	S1.80	7,17	100,0	20,89	3,3	30,8	20,3	45,6	1,06	31,72	30,79
										0,00	0,00



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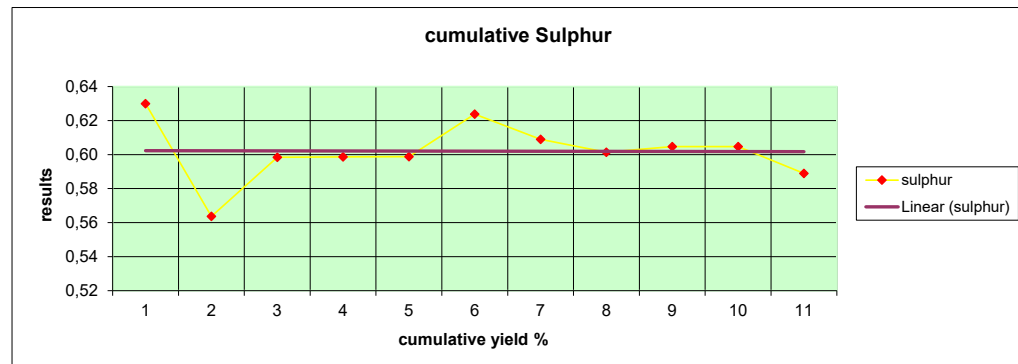
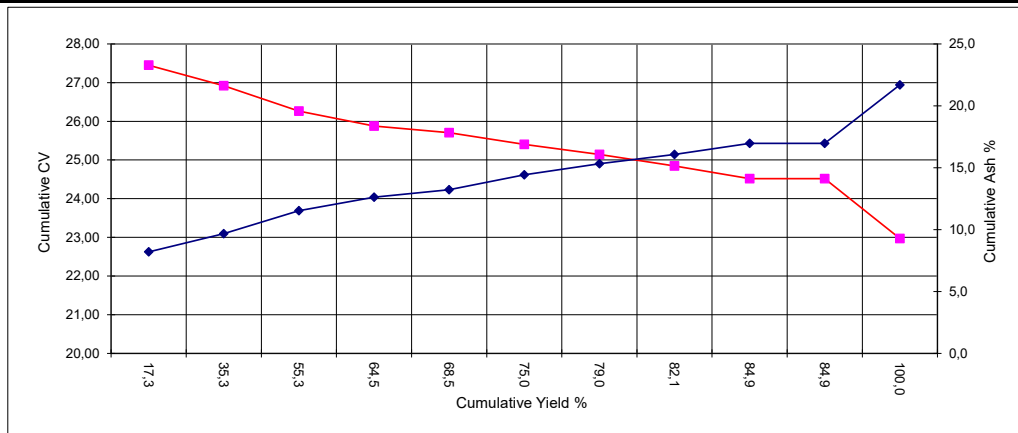
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	ACMFC
SAMPLE	VLKP 302
Description	S4U
Date	19/02/2013

Mass as Rec.	6,50
Thickness	
Rel.Dens.	
Total Mass	4,02
Raw Rel.Dens	1,86

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV %	Volatile %
43724	F 1.35	0,70	17,3	27,5	6,3	8,2	26,8	58,7	0,63	32,11	31,35
43725	F 1.40	0,72	18,0	26,4	6,0	11,1	22,6	60,3	0,50	31,86	27,26
43726	F 1.45	0,80	20,0	25,1	5,6	14,8	19,8	59,8	0,66	31,55	24,87
43727	F 1.50	0,37	9,2	23,6	8,2	19,2	18,6	54,0	0,60	32,47	25,62
43728	F 1.55	0,16	4,0	22,9	5,1	22,8	18,4	53,7	0,60	31,72	25,52
43729	F 1.60	0,26	6,4	22,2	3,9	27,3	18,3	50,5	0,89	32,24	26,60
43730	F 1.65	0,16	4,0	20,3	4,6	32,1	17,4	45,9	0,33	32,12	27,49
43731	F 1.70	0,12	3,1	17,2	4,5	35,1	16,7	43,7	0,41	28,53	27,65
43732	F1.75	0,11	2,9	15,1	4,1	42,8	16,4	36,7	0,70	28,38	30,89
43733	F1.80	0,00	0,0								
43734	S1.80	0,61	15,1	14,3	3,3	48,3	15,9	32,5	0,50	29,48	32,85
43721	RAW	2,14	100,0	23,31	5,2	21,1	21,5	52,2	1,36	31,63	29,17
43722	-0.5MM	0,37	100,0	22,61	5,5	22,4	22,9	49,2	2,14	31,36	31,76
Cumulative Calculation											
43724	F 1.35	0,70	17,3	27,45	6,3	8,2	26,8	58,7	0,63	32,11	31,35
43725	F 1.40	1,42	35,3	26,92	6,1	9,7	24,7	59,5	0,56	31,98	29,29
43726	F 1.45	2,22	55,3	26,27	5,9	11,5	22,9	59,6	0,60	31,83	27,75
43727	F 1.50	2,59	64,5	25,88	6,3	12,6	22,3	58,8	0,60	31,91	27,48
43728	F 1.55	2,75	68,5	25,70	6,2	13,2	22,1	58,5	0,60	31,90	27,38
43729	F 1.60	3,01	75,0	25,40	6,0	14,4	21,7	57,8	0,62	31,93	27,32
43730	F 1.65	3,17	79,0	25,15	5,9	15,3	21,5	57,2	0,61	31,93	27,33
43731	F 1.70	3,30	82,1	24,85	5,9	16,1	21,3	56,7	0,60	31,83	27,34
43732	F1.75	3,41	84,9	24,52	5,8	17,0	21,2	56,0	0,60	31,75	27,42
43733	F1.80	3,41	84,9	24,52	5,8	17,0	21,2	56,0	0,60		
43734	S1.80	4,02	100,0	22,97	5,4	21,7	20,4	52,5	0,59	31,53	27,96
										0,00	0,00



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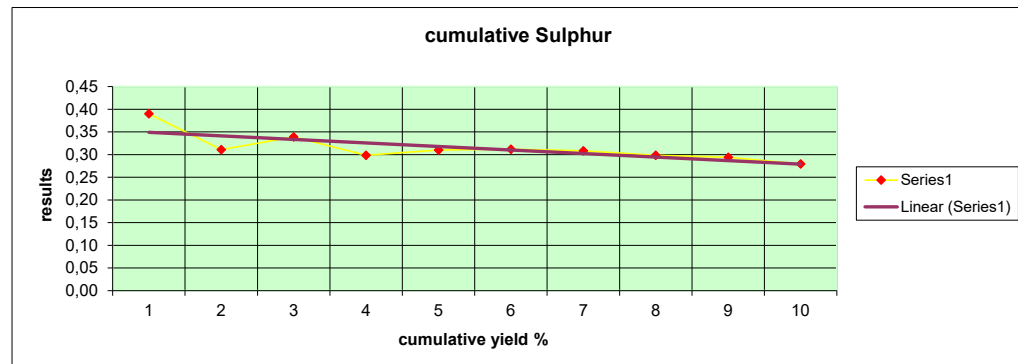
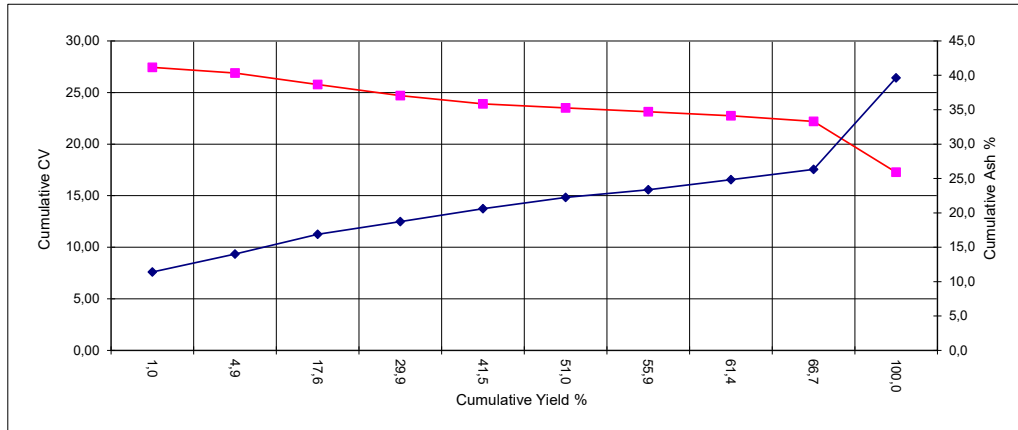
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	ACMFC
SAMPLE	VLKP 303
Description	S2L(D)
Date	19/02/2013

Mass as Rec.	14,40
Thickness	
Rel.Dens.	
Total Mass	8,81
Raw Rel.Dens	2,03

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV %	Volatil %
43680	F 1.35	0,00	0,0								
43681	F 1.40	0,09	1,0	27,44	3,8	11,4	29,4	55,4	0,39	32,36	34,67
43682	F 1.45	0,34	3,9	26,74	4,1	14,7	24,9	56,3	0,29	32,93	30,67
43683	F 1.50	1,12	12,7	25,34	3,6	18,0	24,6	53,8	0,35	32,32	31,38
43684	F 1.55	1,08	12,3	23,18	3,7	21,4	21,3	53,6	0,24	30,95	28,44
43685	F 1.60	1,02	11,6	21,85	3,4	25,4	20,1	51,1	0,34	30,69	28,23
43686	F 1.65	0,84	9,5	21,73	3,2	29,5	19,4	47,9	0,32	32,29	28,83
43687	F 1.70	0,43	4,9	19,35	2,6	35,0	19,1	43,3	0,27	31,01	30,61
43688	F1.75	0,48	5,5	18,63	3,1	39,8	17,8	39,3	0,20	32,63	31,17
43689	F1.80	0,47	5,3	16,03	2,7	43,7	16,8	36,8	0,24	29,91	31,34
43690	S1.80	2,93	33,3	7,37	2,2	66,3	13,0	18,5	0,25	23,40	41,27
43677	RAW	5,10	100,0	17,62	3,3	38,4	17,6	40,7	0,41	30,22	30,19
43678	-0.5MM	0,48	100,0	17,52	3,5	39,6	18,9	38,0	0,18	30,79	33,22
Cumulative Calculation											
43680	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
43681	F 1.40	0,09	1,0	27,44	3,8	11,4	29,4	55,4	0,39	32,36	34,67
43682	F 1.45	0,43	4,9	26,89	4,0	14,0	25,8	56,1	0,31	32,81	31,53
43683	F 1.50	1,55	17,6	25,77	3,7	16,9	24,9	54,4	0,34	32,46	31,42
43684	F 1.55	2,64	29,9	24,71	3,7	18,7	23,4	54,1	0,30	31,86	30,24
43685	F 1.60	3,66	41,5	23,91	3,6	20,6	22,5	53,3	0,31	31,55	29,71
43686	F 1.65	4,50	51,0	23,50	3,5	22,3	21,9	52,3	0,31	31,68	29,56
43687	F 1.70	4,93	55,9	23,14	3,5	23,4	21,7	51,5	0,31	31,63	29,64
43688	F1.75	5,41	61,4	22,74	3,4	24,8	21,3	50,4	0,30	31,70	29,75
43689	F1.80	5,88	66,7	22,20	3,4	26,3	21,0	49,3	0,29	31,59	29,84
43690	S1.80	8,81	100,0	17,26	3,0	39,6	18,3	39,1	0,28	30,09	31,93
										0,00	0,00



# TEST REPORT

Siza Coal Laboratory

P O BOX 5800

Secunda

2302

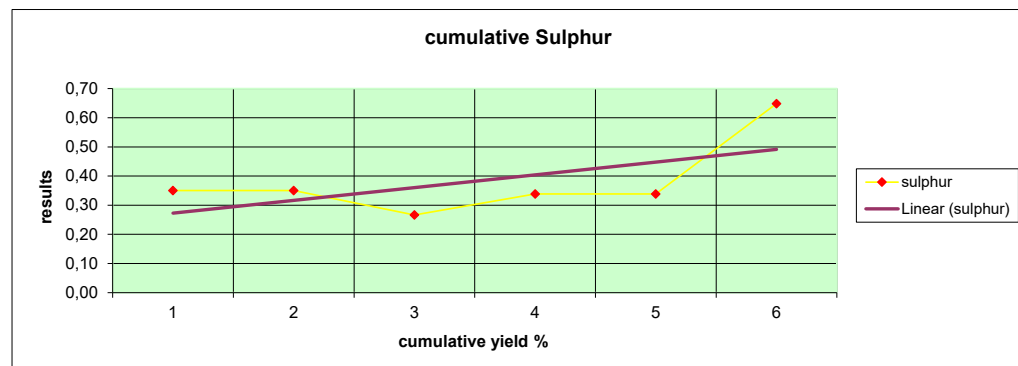
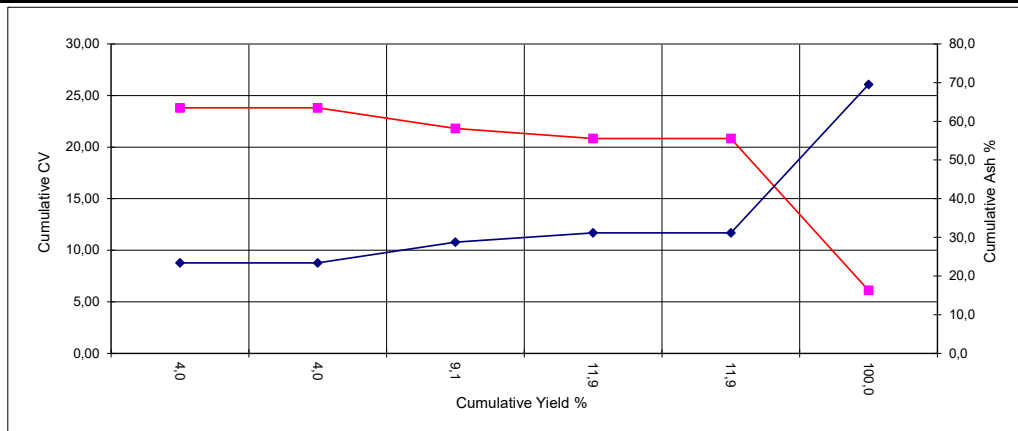
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	ACMFC
SAMPLE	VLKP 303
Description	S2U (C)
Date	19/02/2013

Mass as Rec.	5,65
Thickness	
Rel.Dens.	
Total Mass	2,78
Raw Rel.Dens	2,14

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
43789	F 1.35	0,00	0,0								
43790	F 1.40	0,00	0,0								
43791	F 1.45	0,00	0,0								
43792	F 1.50	0,00	0,0								
43793	F 1.55	0,00	0,0								
43794	F 1.60	0,11	4,0	23,81	3,8	23,4	24,3	48,5	0,35	32,71	33,38
43795	F 1.65	0,00	0,0								
43796	F 1.70	0,14	5,1	20,23	3,6	33,0	20,3	43,1	0,20	31,91	32,02
43797	F1.75	0,08	2,7	17,52	3,3	39,2	18,4	39,1	0,58	30,47	32,00
43798	F1.80	0,00	0,0								
43799	S1.80	2,45	88,1	4,13	2,5	74,7	13,9	8,9	0,69	18,11	60,96
43786	RAW	2,25	100,0	4,95	2,2	72,8	14,8	10,2	0,37	19,80	59,20
43787	-0.5MM	0,60	100,0	8,49	2,5	63,3	17,6	16,6	0,41	24,82	51,46
Cumulative Calculation											
43789	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
43790	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
43791	F 1.45	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
43792	F 1.50	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
43793	F 1.55	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
43794	F 1.60	0,11	4,0	23,81	3,8	23,4	24,3	48,5	0,35	32,71	33,38
43795	F 1.65	0,11	4,0	23,81	3,8	23,4	24,3	0,0	0,35		
43796	F 1.70	0,25	9,1	21,82	3,7	28,7	22,1	24,0	0,27	32,29	32,67
43797	F1.75	0,33	11,9	20,82	3,6	31,2	21,2	27,5	0,34	31,92	32,53
43798	F1.80	0,33	11,9	20,82	3,6	31,2	21,2	0,0	0,34		
43799	S1.80	2,78	100,0	6,11	2,6	69,5	14,8	7,8	0,65	21,95	53,06
										0,00	0,00





# TEST REPORT

Siza Coal Laboratory

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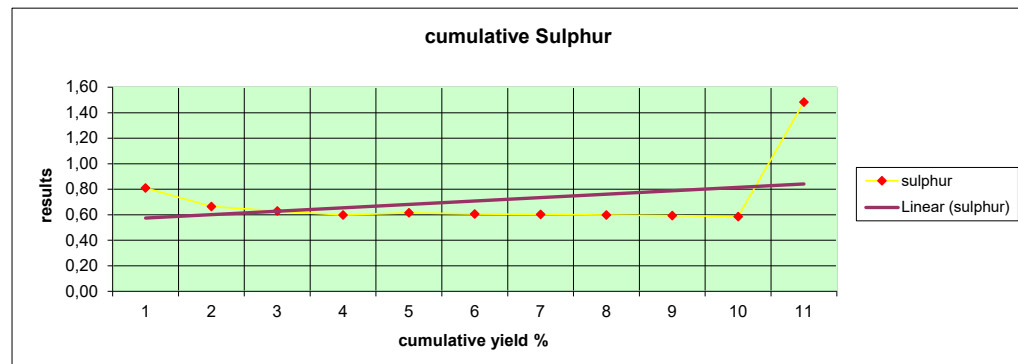
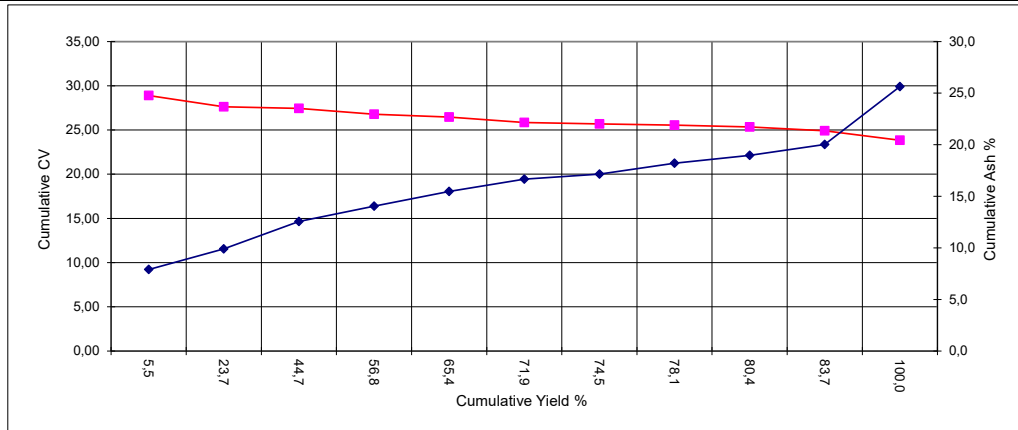
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	ACMFC
SAMPLE	VLKP 303
Description	S4L (B)
Date	19/02/2013

Mass as Rec.	8,21
Thickness	
Rel.Dens.	
Total Mass	5,38
Raw Rel.Dens	1,53

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV %	Volatil %
43666	F 1.35	0,30	5,5	28,90	6,0	7,9	28,1	58,0	0,81	33,57	32,64
43667	F 1.40	0,98	18,2	27,23	6,5	10,5	22,4	60,6	0,62	32,81	26,99
43668	F 1.45	1,13	20,9	27,26	6,2	15,6	21,6	56,6	0,59	34,86	27,62
43669	F 1.50	0,66	12,2	24,31	4,7	19,5	21,4	54,4	0,48	32,07	28,23
43670	F 1.55	0,46	8,5	24,31	5,1	24,9	20,1	49,9	0,74	34,73	28,71
43671	F 1.60	0,35	6,5	19,81	5,1	28,6	19,3	47,0	0,50	29,88	29,11
43672	F 1.65	0,14	2,6	21,21	4,8	30,9	18,8	45,5	0,55	32,99	29,24
43673	F 1.70	0,19	3,6	22,46	4,3	39,9	16,7	39,1	0,50	40,25	29,93
43674	F1.75	0,13	2,3	18,90	4,2	44,4	16,5	34,9	0,41	36,77	32,10
43675	F1.80	0,17	3,2	14,19	4,6	46,5	15,2	33,7	0,41	29,02	31,08
43676	S1.80	0,88	16,3	18,32	3,8	54,4	14,9	26,9	6,08	43,83	35,65
43663	RAW	2,53	100,0	23,19	5,4	24,9	19,8	49,9	1,67	33,27	28,41
43664	-0.5MM	0,28	100,0	23,58	5,3	22,9	21,1	50,7	1,12	32,84	29,39
Cumulative Calculation											
43666	F 1.35	0,30	5,5	28,90	6,0	7,9	28,1	58,0	0,81	33,57	32,64
43667	F 1.40	1,28	23,7	27,62	6,4	9,9	23,7	60,0	0,66	32,99	28,33
43668	F 1.45	2,40	44,7	27,45	6,3	12,6	22,7	58,4	0,63	33,83	28,01
43669	F 1.50	3,06	56,8	26,78	6,0	14,1	22,4	57,5	0,60	33,48	28,06
43670	F 1.55	3,52	65,4	26,45	5,8	15,5	22,1	56,5	0,62	33,62	28,13
43671	F 1.60	3,87	71,9	25,85	5,8	16,7	21,9	55,7	0,61	33,33	28,21
43672	F 1.65	4,01	74,5	25,69	5,7	17,2	21,8	55,3	0,60	33,32	28,24
43673	F 1.70	4,20	78,1	25,54	5,7	18,2	21,5	54,6	0,60	33,55	28,30
43674	F1.75	4,33	80,4	25,35	5,6	19,0	21,4	54,0	0,59	33,62	28,37
43675	F1.80	4,50	83,7	24,92	5,6	20,0	21,2	53,2	0,59	33,50	28,44
43676	S1.80	5,38	100,0	23,84	5,3	25,6	20,1	48,9	1,48	34,52	29,15
										0,00	0,00



# TEST REPORT

Siza Coal Laboratory

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2302

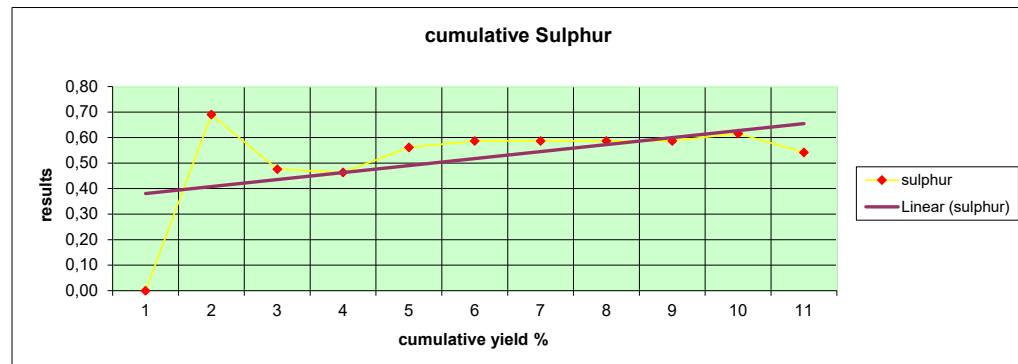
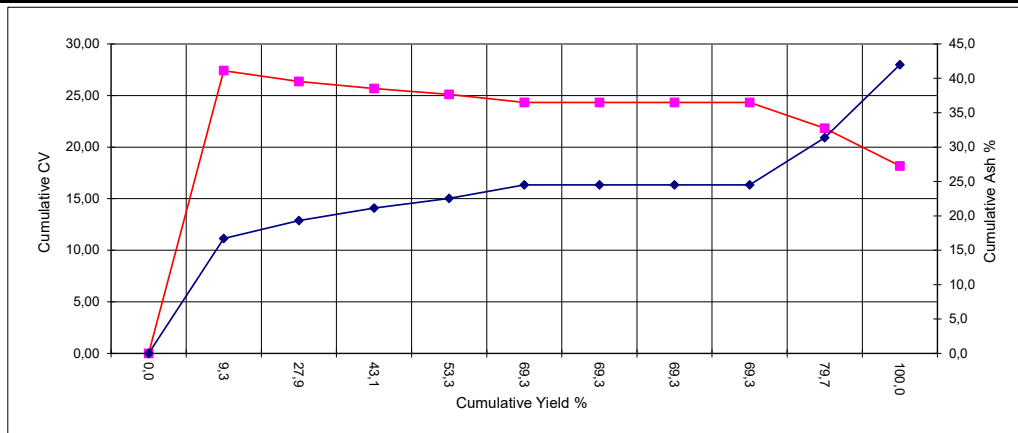
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	ACMFC
SAMPLE	VLKP 303
Description	S5 (A)
Date	19/02/2013

Mass as Rec.	2,50
Thickness	
Rel.Dens.	
Total Mass	1,31
Raw Rel.Dens	1,77

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
43752	F 1.35	0,00	0,0								
43753	F 1.40	0,12	9,3	27,41	5,0	16,7	22,9	55,4	0,69	35,01	29,25
43754	F 1.45	0,24	18,7	25,85	5,2	20,6	20,8	53,4	0,37	34,84	28,03
43755	F 1.50	0,20	15,2	24,39	4,4	24,5	19,9	51,2	0,44	34,30	27,99
43756	F 1.55	0,13	10,1	22,75	4,5	28,5	18,3	48,7	0,98	33,96	27,31
43757	F 1.60	0,21	16,0	21,74	4,4	31,1	17,2	47,3	0,67	33,71	26,67
43758	F 1.65	0,00	0,0								
43759	F 1.70	0,00	0,0								
43760	F1.75	0,00	0,0								
43761	F1.80	0,14	10,5	5,28	3,8	76,7	16,6	2,9	0,81	27,08	85,13
43762	S1.80	0,26	20,3	3,79	1,8	83,8	12,5	1,9	0,25	26,32	86,81
43750	RAW	1,05	100,0	18,37	4,0	42,6	18,2	35,2	0,39	34,40	34,08
43749	-0.5MM	0,11	100,0	15,99	3,4	46,3	15,9	34,4	1,26	31,79	31,61
43752	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
43753	F 1.40	0,12	9,3	27,41	5,0	16,7	22,9	55,4	0,69	35,01	29,25
43754	F 1.45	0,36	27,9	26,37	5,1	19,3	21,5	54,1	0,48	34,90	28,45
43755	F 1.50	0,56	43,1	25,67	4,9	21,1	20,9	53,1	0,46	34,70	28,29
43756	F 1.55	0,70	53,3	25,11	4,8	22,5	20,4	52,2	0,56	34,57	28,12
43757	F 1.60	0,90	69,3	24,34	4,7	24,5	19,7	51,1	0,59	34,38	27,82
43758	F 1.65	0,90	69,3	24,34	4,7	24,5	19,7	51,1	0,59		
43759	F 1.70	0,90	69,3	24,34	4,7	24,5	19,7	51,1	0,59		
43760	F1.75	0,90	69,3	24,34	4,7	24,5	19,7	51,1	0,59		
43761	F1.80	1,04	79,7	21,84	4,6	31,4	19,3	44,8	0,62	34,09	30,10
43762	S1.80	1,31	100,0	18,18	4,0	42,0	17,9	36,1	0,54	33,67	33,17
										0,00	0,00



# TEST REPORT

Siza Coal Laboratory

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2302

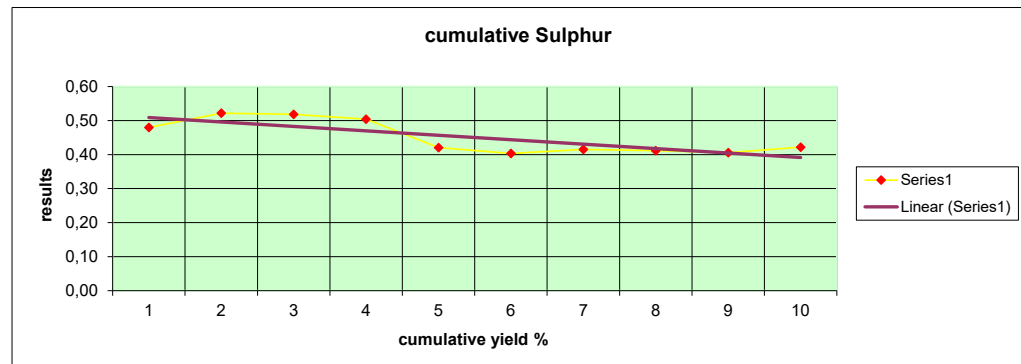
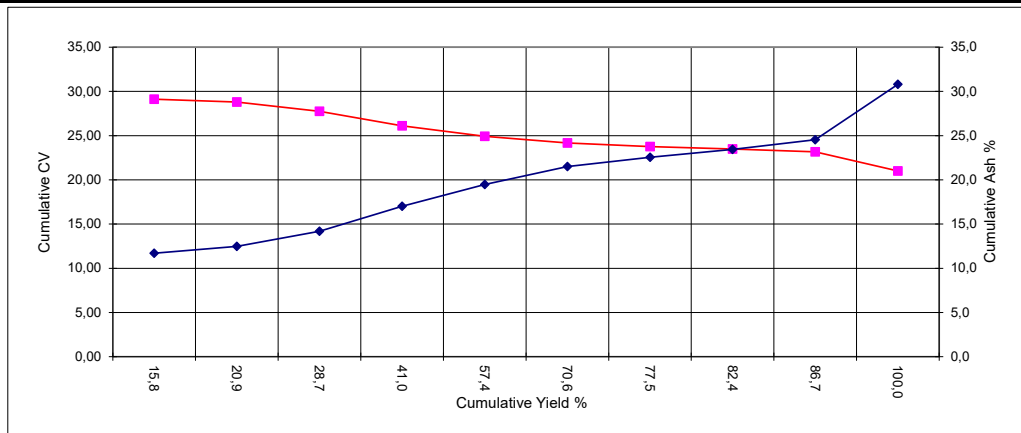
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	ACMFC
SAMPLE	VLKP 304
Description	S2 UPPER
Date	19/02/2013

Mass as Rec.	5,58
Thickness	
Rel.Dens.	
Total Mass	5,07
Raw Rel.Dens	1,63

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
10152	F 1.35	0,00	0,0	0,00	0,00	0,0	0,0	0,0	0,00		
10153	F 1.40	0,80	15,8	29,12	4,3	11,7	26,5	57,5	0,48	34,67	31,55
10154	F 1.45	0,26	5,1	27,81	4,5	14,9	26,0	54,6	0,65	34,50	32,26
10155	F 1.50	0,40	7,8	24,91	4,0	18,7	21,6	55,7	0,51	32,23	27,94
10156	F 1.55	0,63	12,3	22,32	3,5	23,6	20,6	52,3	0,47	30,62	28,26
10157	F 1.60	0,83	16,3	21,92	3,8	25,7	19,8	50,7	0,21	31,09	28,09
10158	F 1.65	0,67	13,2	20,92	3,1	30,3	18,7	47,9	0,33	31,41	28,08
10159	F 1.70	0,35	6,9	19,63	3,8	33,2	18,0	45,0	0,54	31,16	28,57
10160	F1.75	0,25	4,9	18,92	3,4	37,7	17,0	41,9	0,35	32,12	28,86
10161	F1.80	0,22	4,4	17,20	3,2	45,0	16,3	35,5	0,29	33,20	31,47
10162	S1.80	0,67	13,3	6,89	2,3	71,8	14,5	11,4	0,53	26,60	55,98
10151	RAW	0,31	100,0	20,11	4,1	30,8	27,9	20,2	0,47	30,89	42,86
10150	-0.5MM	0,21	100,0	24,74	6,0	20,5	28,3	45,2	1,04	33,66	38,50
10152	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10153	F 1.40	0,80	15,8	29,12	4,3	11,7	26,5	57,5	0,48		31,55
10154	F 1.45	1,06	20,9	28,80	4,3	12,5	26,4	56,8	0,52	34,63	31,72
10155	F 1.50	1,46	28,7	27,74	4,3	14,2	25,1	56,5	0,52	34,01	30,75
10156	F 1.55	2,08	41,0	26,11	4,0	17,0	23,7	55,2	0,50	33,07	30,06
10157	F 1.60	2,91	57,4	24,92	4,0	19,5	22,6	53,9	0,42	32,55	29,54
10158	F 1.65	3,58	70,6	24,17	3,8	21,5	21,9	52,8	0,40	32,36	29,29
10159	F 1.70	3,93	77,5	23,77	3,8	22,5	21,5	52,1	0,42	32,27	29,24
10160	F1.75	4,18	82,4	23,48	3,8	23,5	21,3	51,5	0,41	32,26	29,22
10161	F1.80	4,40	86,7	23,16	3,7	24,5	21,0	50,7	0,41	32,30	29,30
10162	S1.80	5,07	100,0	21,00	3,6	30,8	20,2	45,49	0,42	32,00	30,70



# TEST REPORT

Siza Coal Laboratory

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2302

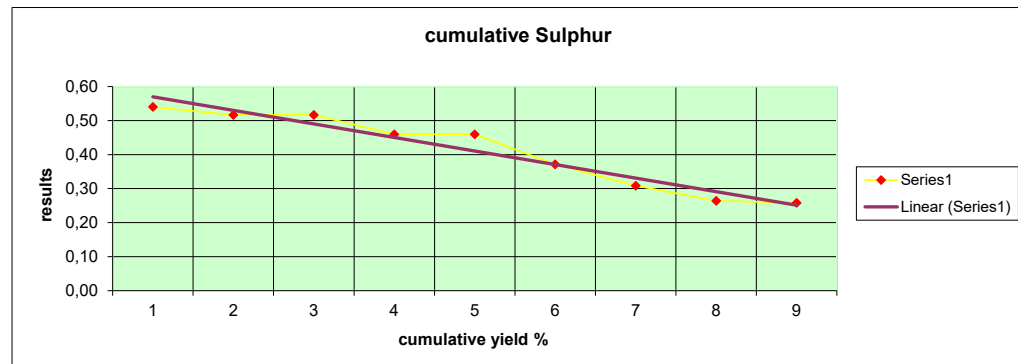
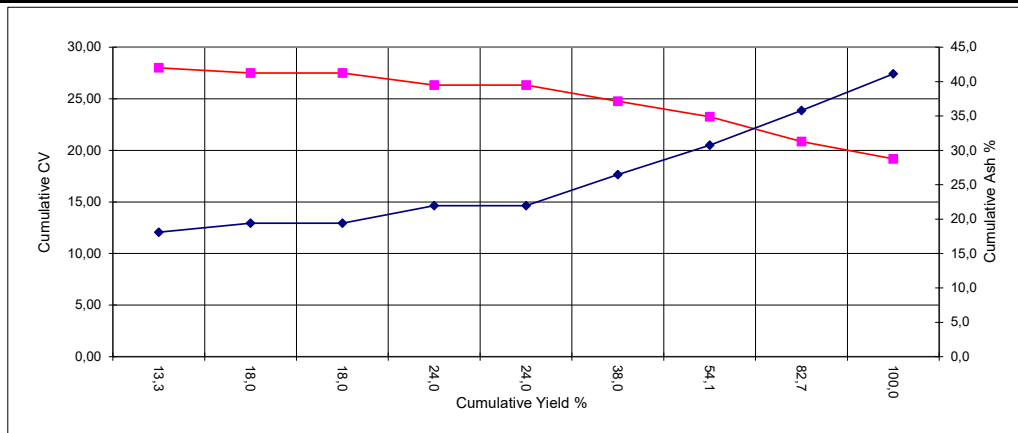
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	ACMFC
SAMPLE	VLKP 304
Description	S2L
Date	19/02/2013

Mass as Rec.	2,65
Thickness	
Rel.Dens.	
Total Mass	1,55
Raw Rel.Dens	1,73

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
10126	F 1.35	0,00	0,0	0,00	0,00	0,0	0,0	0,0	0,00		
10127	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10128	F 1.45	0,21	13,3	28,00	2,8	18,1	30,8	48,3	0,54	35,40	38,94
10129	F 1.50	0,07	4,7	26,09	2,3	23,1	29,0	45,6	0,45	34,97	38,87
10130	F 1.55	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10131	F 1.60	0,09	6,0	22,81	2,0	29,6	23,3	45,1	0,29	33,35	34,06
10132	F 1.65	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10133	F 1.70	0,22	14,0	22,10	2,0	34,2	19,5	44,3	0,22	34,64	30,56
10134	F1.75	0,25	16,1	19,71	2,0	40,9	16,8	40,3	0,16	34,52	29,42
10135	F1.80	0,44	28,6	16,27	2,0	45,3	16,5	36,2	0,18	30,87	31,31
10136	S1.80	0,27	17,4	11,24	0,9	66,5	12,7	19,9	0,23	34,48	38,96
10125	RAW	0,98	100,0	17,20	1,6	41,0	18,9	38,5	0,32	29,97	32,93
10124	-0.5MM	0,09	100,0	18,37	2,4	38,8	20,3	38,5	0,47	31,24	34,52
Cumulative Calculation											
10126	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10127	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10128	F 1.45	0,21	13,3	28,00	2,8	18,1	30,8	48,3	0,54	35,40	38,94
10129	F 1.50	0,28	18,0	27,51	2,7	19,4	30,3	47,6	0,52	35,29	38,92
10130	F 1.55	0,28	18,0	27,51	2,7	19,4	30,3	47,6	0,52		
10131	F 1.60	0,37	24,0	26,32	2,5	22,0	28,6	47,0	0,46	34,85	37,82
10132	F 1.65	0,37	24,0	26,32	2,5	22,0	28,6	47,0	0,46		
10133	F 1.70	0,59	38,0	24,77	2,3	26,5	25,2	46,0	0,37	34,78	35,43
10134	F1.75	0,84	54,1	23,26	2,2	30,8	22,7	44,3	0,31	34,71	33,90
10135	F1.80	1,28	82,7	20,85	2,1	35,8	20,6	41,5	0,26	33,59	33,14
10136	S1.80	1,55	100,0	19,18	1,9	41,1	19,2	37,75	0,26	33,68	33,72





# TEST REPORT

Siza Coal Laboratory

P O BOX 5800

Secunda

2302

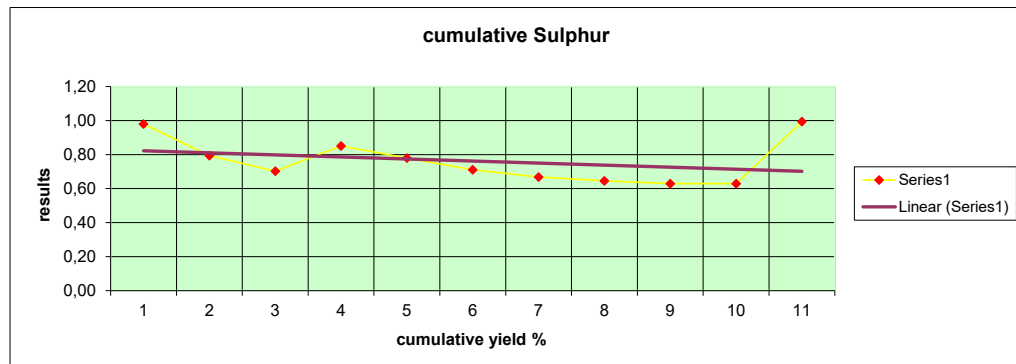
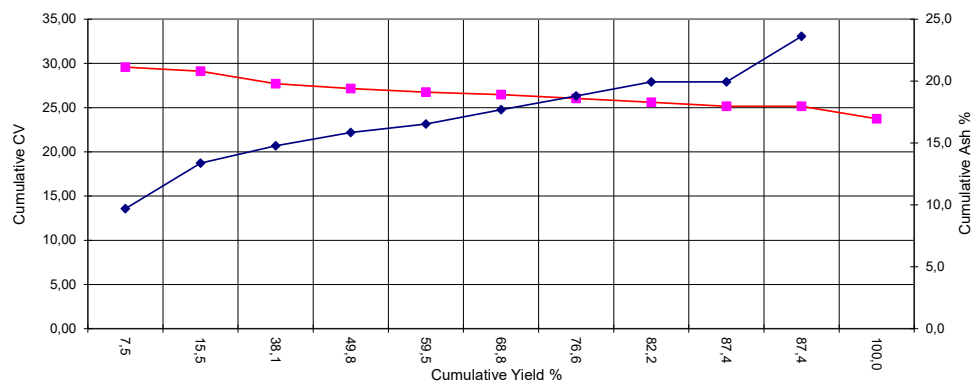
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	ACMFC
SAMPLE	VLKP 304
Description	S4L
Date	19/02/2013

Mass as Rec.	6,59
Thickness	
Rel.Dens.	
Total Mass	3,94
Raw Rel.Dens	1,52

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
10191	F 1.35	0,29	7,5	29,58	3,8	8,4	31,0	56,8	0,98	33,69	35,31
10192	F 1.40	0,32	8,0	28,69	3,9	10,9	29,7	55,5	0,62	33,67	34,86
10193	F 1.45	0,89	22,5	26,74	3,6	15,9	28,2	52,3	0,64	33,22	35,03
10194	F 1.50	0,46	11,8	25,36	3,5	19,3	27,4	49,8	1,33	32,85	35,49
10195	F 1.55	0,38	9,7	24,63	3,7	21,4	25,6	49,3	0,41	32,88	34,18
10196	F 1.60	0,37	9,3	24,77	3,4	20,9	23,6	52,1	0,27	32,72	31,18
10197	F 1.65	0,30	7,7	22,08	3,6	27,9	21,2	47,3	0,29	32,23	30,95
10198	F 1.70	0,22	5,7	19,88	3,7	33,7	20,2	42,4	0,34	31,76	32,27
10199	F1.75	0,20	5,2	18,10	3,6	38,1	19,9	38,4	0,38	31,05	34,13
10200	F1.80	0,00	0,0								
10201	S1.80	0,49	12,5	13,85	2,4	49,3	18,2	30,1	3,54	28,67	37,68
10190	RAW	2,31	100,0	23,96	3,6	23,0	23,3	50,1	0,93	32,64	31,74
10189	-0.5MM	0,34	100,0	24,10	3,7	22,9	20,0	53,4	0,46	32,83	27,25
10191	F 1.35	0,29	7,5	29,58	3,8	8,4	31,0	56,8	0,98	33,69	35,31
10192	F 1.40	0,61	15,5	29,12	3,9	9,7	30,3	56,1	0,79		35,08
10193	F 1.45	1,50	38,1	27,71	3,7	13,4	29,1	53,9	0,70	33,41	35,05
10194	F 1.50	1,96	49,8	27,15	3,7	14,8	28,7	52,9	0,85	33,29	35,15
10195	F 1.55	2,35	59,5	26,74	3,7	15,9	28,2	52,3	0,78	33,23	35,00
10196	F 1.60	2,71	68,8	26,48	3,6	16,5	27,6	52,3	0,71	33,16	34,51
10197	F 1.65	3,02	76,6	26,03	3,6	17,7	26,9	51,8	0,67	33,08	34,20
10198	F 1.70	3,24	82,2	25,61	3,6	18,8	26,4	51,1	0,65	33,01	34,09
10199	F1.75	3,44	87,4	25,16	3,6	19,9	26,1	50,4	0,63	32,92	34,09
10200	F1.80	3,44	87,4	25,16	3,6	19,9	26,1	50,4	0,63		
10201	S1.80	3,94	100,0	23,74	3,5	23,6	25,1	47,84	0,99	32,57	34,39



# TEST REPORT

Siza Coal Laboratory

P O BOX 5800

Secunda

2302

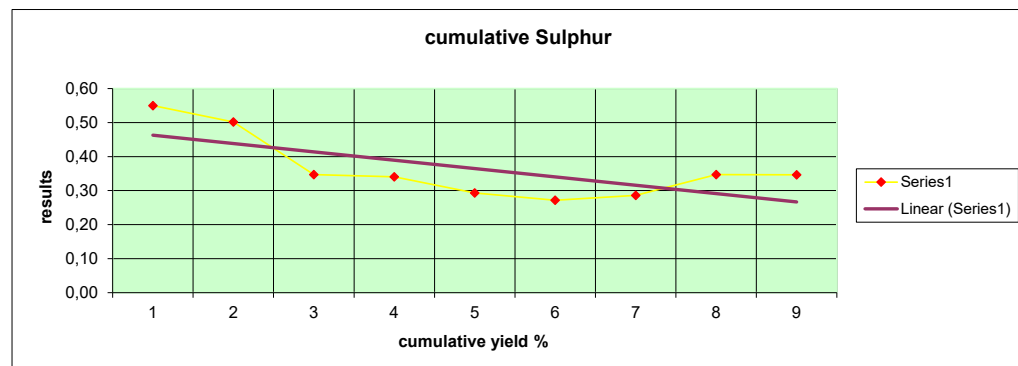
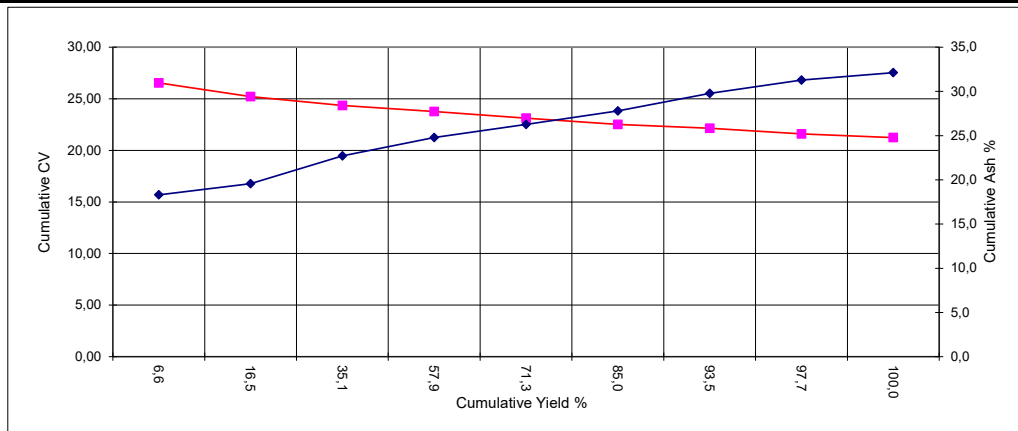
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	ACMFC
SAMPLE	VLKP 304
Description	S4U
Date	19/02/2013

Mass as Rec.	5,93
Thickness	
Rel.Dens.	
Total Mass	2,49
Raw Rel.Dens	1,65

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
10166	F 1.35	0,00	0,0								
10167	F 1.40	0,00	0,0								
10168	F 1.45	0,16	6,6	26,54	3,6	18,3	23,4	54,7	0,55	33,98	29,96
10169	F 1.50	0,25	9,9	24,32	3,3	20,4	22,7	53,6	0,47	31,87	29,75
10170	F 1.55	0,46	18,6	23,60	2,8	25,5	22,1	49,6	0,21	32,91	30,82
10171	F 1.60	0,57	22,8	22,86	3,5	28,0	22,0	46,5	0,33	33,37	32,12
10172	F 1.65	0,33	13,4	20,30	2,7	32,6	21,9	42,8	0,09	31,38	33,85
10173	F 1.70	0,34	13,7	19,45	2,5	35,8	20,1	41,6	0,16	31,52	32,58
10174	F1.75	0,21	8,5	18,45	2,6	49,7	18,6	29,1	0,43	38,68	38,99
10175	F1.80	0,11	4,2	9,20	2,1	64,3	16,9	16,7	1,69	27,38	50,30
10176	S1.80	0,06	2,3	6,23	2,7	67,4	14,3	15,6	0,32	20,84	47,83
10165	RAW	2,94	100,0	20,18	2,9	32,3	19,3	45,5	0,25	31,14	29,78
10164	-0.5MM	0,50	100,0	24,32	2,8	30,8	19,9	46,5	0,56	36,63	29,97
10166	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10167	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10168	F 1.45	0,16	6,6	26,54	3,6	18,3	23,4	54,7	0,55	33,98	29,96
10169	F 1.50	0,41	16,5	25,21	3,4	19,6	23,0	54,0	0,50	32,73	29,84
10170	F 1.55	0,87	35,1	24,36	3,1	22,7	22,5	51,7	0,35	32,83	30,34
10171	F 1.60	1,44	57,9	23,77	3,3	24,8	22,3	49,6	0,34	33,03	31,01
10172	F 1.65	1,78	71,3	23,11	3,1	26,3	22,2	48,4	0,29	32,74	31,50
10173	F 1.70	2,12	85,0	22,52	3,0	27,8	21,9	47,3	0,27	32,57	31,65
10174	F1.75	2,33	93,5	22,15	3,0	29,8	21,6	45,6	0,29	32,96	32,13
10175	F1.80	2,43	97,7	21,59	3,0	31,3	21,4	44,4	0,35	32,84	32,53
10176	S1.80	2,49	100,0	21,24	3,0	32,1	21,2	43,70	0,35	32,71	32,69





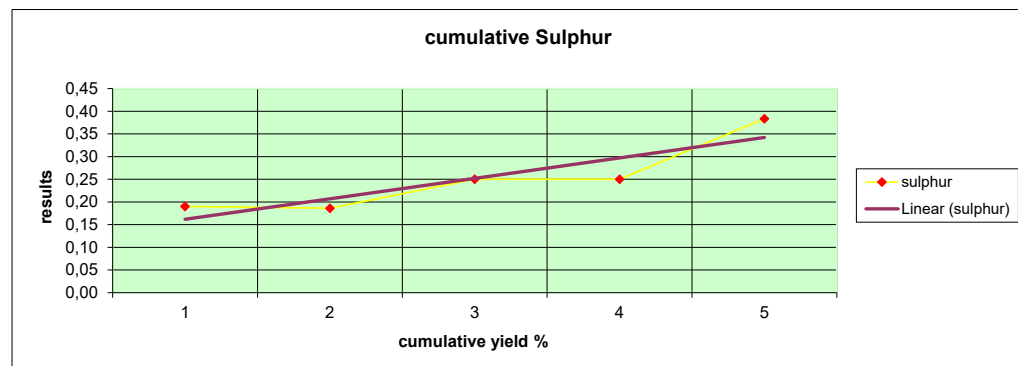
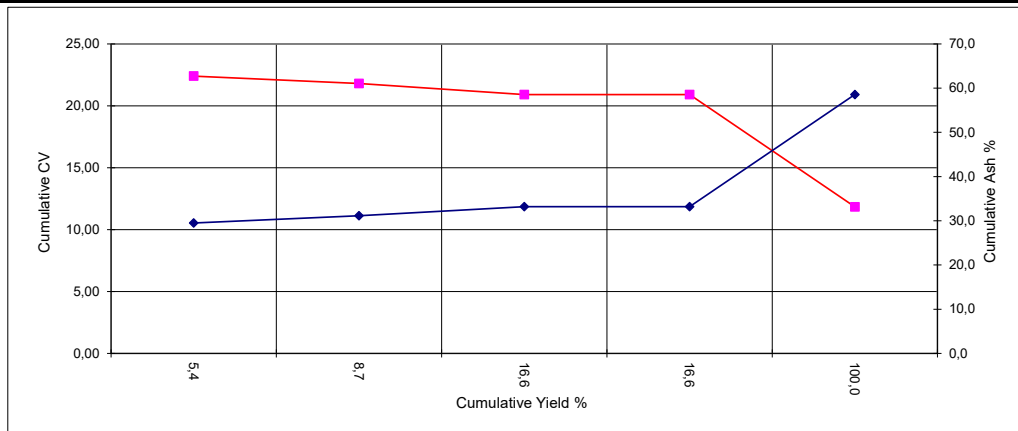
To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 305
Description	S5
Date	28/02/2013

Mass as Rec.	3,16
Thickness	
Rel.Dens.	
Total Mass	1,89
Raw Rel.Dens	1,93

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatiles %
43823	F 1.35	0,00	0,0								
43824	F 1.40	0,00	0,0								
43825	F 1.45	0,00	0,0								
43826	F 1.50	0,00	0,0								
43827	F 1.55	0,00	0,0								
43828	F 1.60	0,00	0,0								
43829	F 1.65	0,10	5,4	22,40	3,0	29,5	22,7	44,8	0,19	33,19	33,63
43830	F 1.70	0,06	3,3	20,82	3,0	33,8	22,5	40,7	0,18	32,94	35,60
43831	F1.75	0,15	7,9	19,94	2,7	35,5	21,3	40,5	0,32	32,27	34,47
43832	F1.80	0,00	0,0								
43833	S1.80	1,58	83,4	10,04	1,8	63,6	13,9	20,7	0,41	29,02	40,17

43821	RAW	1,20	100,0	15,02	2,2	58,3	14,2	25,3	0,25	38,03	35,95
43822	-0.5MM	0,05	100,0	10,63	1,7	57,7	14,7	25,9	0,41	26,18	36,21

Cumulative Calculation											
43823	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
43824	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
43825	F 1.45	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
43826	F 1.50	0,00	0,0	0,00	0,0	0,0	0,0	59,1	0,00		
43827	F 1.55	0,00	0,0	0,00	0,0	0,0	0,0	59,1	0,00		
43828	F 1.60	0,00	0,0	0,00	0,0	0,0	0,0	57,7	0,00		
43829	F 1.65	0,10	5,4	22,40	3,0	29,5	22,7	44,8	0,19	33,19	33,63
43830	F 1.70	0,16	8,7	21,80	3,0	31,1	22,6	54,0	0,19	33,10	34,34
43831	F1.75	0,31	16,6	20,91	2,9	33,2	22,0	54,0	0,25	32,71	34,40
43832	F1.80	0,31	16,6	20,91	2,9	33,2	22,0	54,0	0,25		
43833	S1.80	1,89	100,0	11,84	2,0	58,6	15,2	26,2	0,38	30,01	38,62
										0,00	0,00



# TEST REPORT

Siza Coal Laboratory

P O BOX 5800

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2302

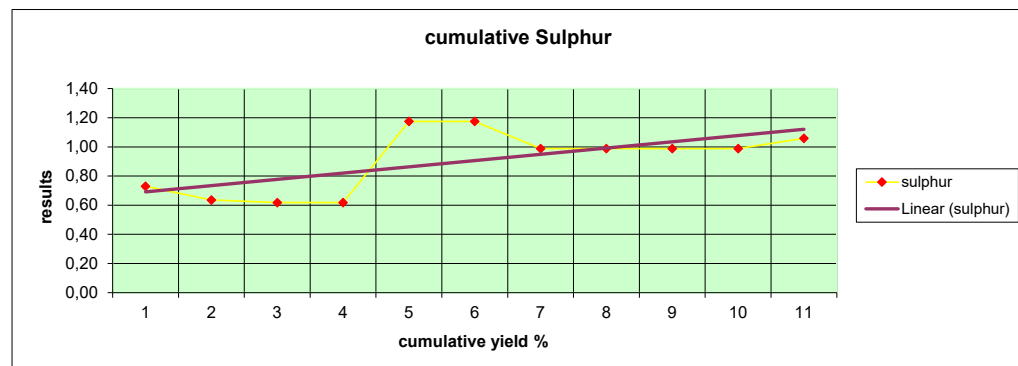
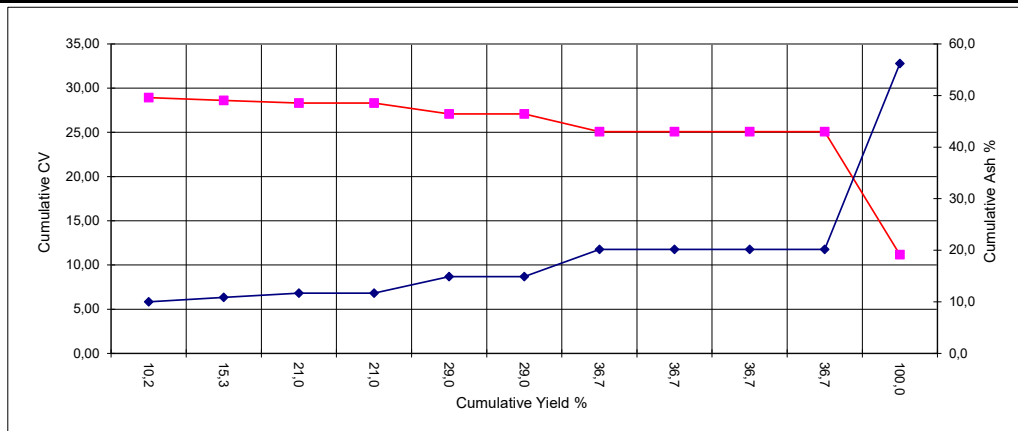
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	ACMFC
SAMPLE	VLKP 305
Description	S5
Date	19/02/2013

Mass as Rec.	4,70
Thickness	
Rel.Dens.	
Total Mass	2,25
Raw Rel.Dens	1,92

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
44028	F 1.35	0,23	10,2	28,93	3,1	10,0	27,2	59,7	0,73	33,29	31,30
44029	F 1.40	0,12	5,1	27,98	4,8	12,6	26,6	56,0	0,45	33,87	32,20
44030	F 1.45	0,13	5,7	27,48	3,1	13,9	22,0	61,0	0,57	33,11	26,51
44031	F 1.50	0,00	0,0								
44032	F 1.55	0,18	8,0	23,92	3,1	23,2	19,8	53,9	2,63	32,46	26,87
44033	F 1.60	0,00	0,0								
44034	F 1.65	0,17	7,7	17,46	3,0	40,1	16,7	40,2	0,29	30,69	29,35
44035	F 1.70	0,00	0,0								
44036	F1.75	0,00	0,0								
44037	F1.80	0,00	0,0								
44038	S1.80	1,42	63,3	3,10	3,4	77,1	14,7	4,8	1,10	15,90	75,38
44026	RAW	2,18	100,0	11,30	4,1	56,4	17,6	21,9	1,36	28,61	44,56
44027	-0.5MM	0,25	100,0	5,82	3,7	69,7	12,6	14,0	0,47	21,88	47,37
Cumulative Calculation											
44028	F 1.35	0,23	10,2	28,93	3,1	10,0	27,2	59,7	0,73	33,29	31,30
44029	F 1.40	0,34	15,3	28,61	3,7	10,9	27,0	58,5	0,64	33,48	31,59
44030	F 1.45	0,47	21,0	28,31	3,5	11,7	25,6	59,1	0,62	33,38	30,24
44031	F 1.50	0,47	21,0	28,31	3,5	11,7	25,6	59,1	0,62		
44032	F 1.55	0,65	29,0	27,09	3,4	14,9	24,0	57,7	1,17	33,15	29,40
44033	F 1.60	0,65	29,0	27,09	3,4	14,9	24,0	57,7	1,17		
44034	F 1.65	0,83	36,7	25,07	3,3	20,2	22,5	54,0	0,99	32,77	29,39
44035	F 1.70	0,83	36,7	25,07	3,3	20,2	22,5	54,0	0,99		
44036	F1.75	0,83	36,7	25,07	3,3	20,2	22,5	54,0	0,99		
44037	F1.80	0,83	36,7	25,07	3,3	20,2	22,5	54,0	0,99		
44038	S1.80	2,25	100,0	11,16	3,4	56,2	17,6	22,9	1,06	27,62	43,44
										0,00	0,00



# TEST REPORT

Siza Coal Laboratory

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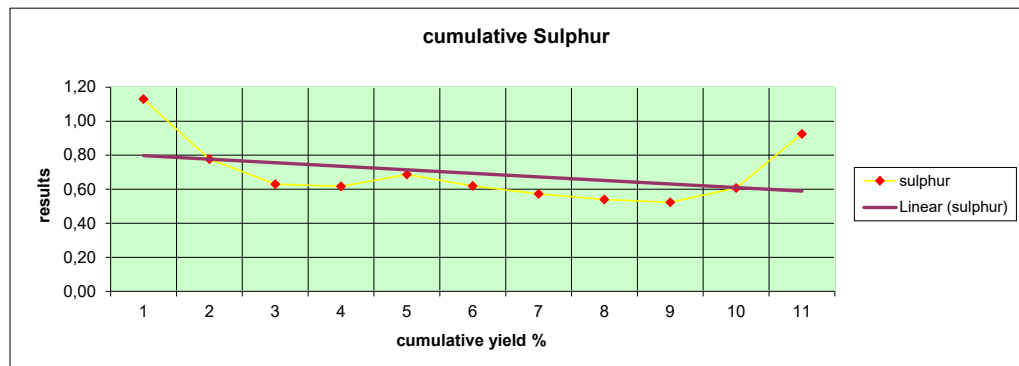
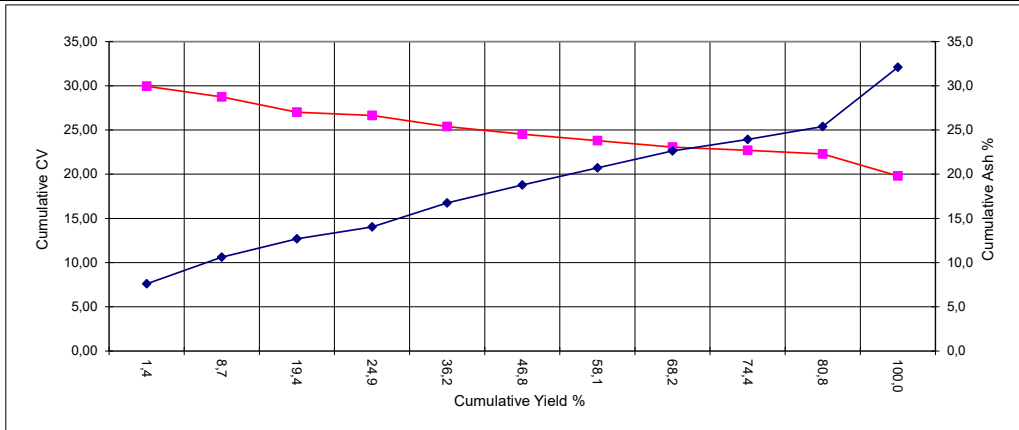
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	ACMFC
SAMPLE	VLKP 305
Description	4L
Date	19/02/2013

Mass as Rec.	10,57
Thickness	
Rel.Dens.	
Total Mass	5,45
Raw Rel.Dens	1,65

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV %	Volatile %
44015	F 1.35	0,08	1,4	29,95	3,2	7,6	33,1	56,1	1,13	33,58	37,11
44016	F 1.40	0,40	7,3	28,51	3,3	11,2	27,8	57,7	0,71	33,35	32,51
44017	F 1.45	0,58	10,7	25,58	3,0	14,4	24,4	58,2	0,51	30,97	29,54
44018	F 1.50	0,30	5,5	25,41	2,9	18,7	24,3	54,1	0,57	32,41	30,99
44019	F 1.55	0,61	11,3	22,58	3,0	22,8	23,3	50,9	0,84	30,43	31,40
44020	F 1.60	0,58	10,6	21,61	2,9	25,7	21,7	49,7	0,39	30,27	30,39
44021	F 1.65	0,61	11,3	20,74	2,7	28,8	20,5	48,0	0,38	30,28	29,93
44022	F 1.70	0,56	10,2	18,90	2,7	33,5	19,3	44,5	0,35	29,62	30,25
44023	F1.75	0,34	6,2	18,63	2,5	38,2	18,6	40,7	0,34	31,42	31,37
44024	F1.80	0,35	6,4	17,51	2,5	42,5	18,2	36,8	1,59	31,84	33,09
44025	S1.80	1,05	19,2	9,39	1,5	60,3	15,0	23,2	2,26	24,58	39,27
44013	RAW	4,68	100,0	19,69	2,1	33,7	21,7	42,5	1,04	30,67	33,80
44014	-0.5MM	0,39	100,0	21,24	3,7	30,1	22,3	43,9	0,88	32,08	33,69
Cumulative Calculation											
44015	F 1.35	0,08	1,4	29,95	3,2	7,6	33,1	56,1	1,13	33,58	37,11
44016	F 1.40	0,48	8,7	28,74	3,3	10,6	28,6	57,4	0,78	33,38	33,28
44017	F 1.45	1,06	19,4	27,00	3,1	12,7	26,3	57,9	0,63	32,08	31,26
44018	F 1.50	1,36	24,9	26,65	3,1	14,0	25,9	57,0	0,62	32,15	31,20
44019	F 1.55	1,97	36,2	25,38	3,1	16,8	25,1	55,1	0,69	31,65	31,26
44020	F 1.60	2,55	46,8	24,53	3,0	18,8	24,3	53,9	0,62	31,37	31,08
44021	F 1.65	3,16	58,1	23,79	3,0	20,7	23,6	52,7	0,57	31,18	30,88
44022	F 1.70	3,72	68,2	23,06	2,9	22,6	22,9	51,5	0,54	30,98	30,80
44023	F1.75	4,05	74,4	22,70	2,9	23,9	22,6	50,6	0,52	31,01	30,84
44024	F1.80	4,40	80,8	22,28	2,9	25,4	22,2	49,5	0,61	31,06	30,97
44025	S1.80	5,45	100,0	19,81	2,6	32,1	20,8	44,5	0,92	30,33	31,91
										0,00	0,00





# TEST REPORT

Siza Coal Laboratory

P O BOX 5800

Secunda

2302

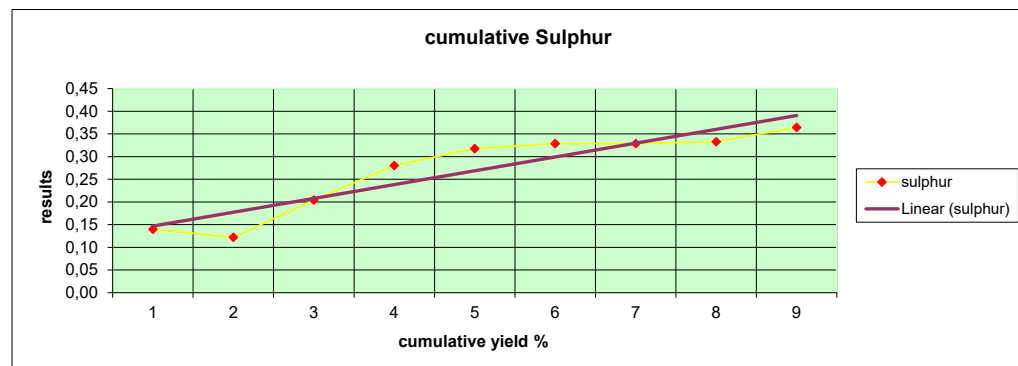
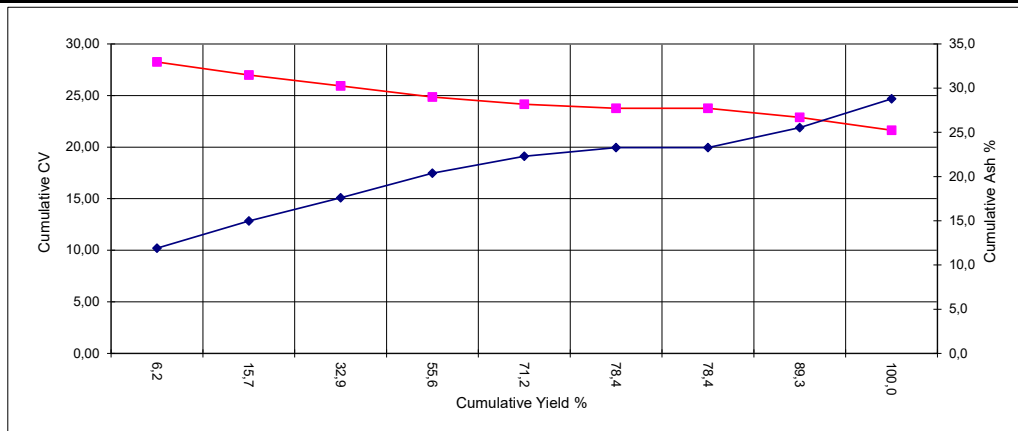
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	ACMFC
SAMPLE	VLKP 305
Description	S2U
Date	19/02/2013

Mass as Rec.	7,95
Thickness	
Rel.Dens.	
Total Mass	2,80
Raw Rel.Dens	1,68

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
44002	F 1.35	0,00	0,0								
44003	F 1.40	0,00	0,0								
44004	F 1.45	0,17	6,2	28,25	4,8	11,9	24,3	59,0	0,14	33,91	29,17
44005	F 1.50	0,27	9,5	26,17	4,6	17,0	23,7	54,7	0,11	33,38	30,23
44006	F 1.55	0,48	17,1	24,97	4,9	20,0	20,9	54,2	0,28	33,25	27,83
44007	F 1.60	0,64	22,7	23,30	4,3	24,4	19,8	51,5	0,39	32,68	27,77
44008	F 1.65	0,44	15,7	21,61	4,1	29,1	18,8	48,0	0,45	32,35	28,14
44009	F 1.70	0,20	7,2	20,00	4,1	32,9	17,5	45,5	0,44	31,75	27,78
44010	F1.75	0,00	0,0					0,0			
44011	F1.80	0,30	10,9	16,53	3,6	41,8	17,3	37,3	0,36	30,27	31,68
44012	S1.80	0,30	10,7	11,23	3,0	56,0	15,8	25,2	0,63	27,39	38,54
44000	RAW	4,44	100,0	21,56	3,8	29,1	18,3	48,8	0,34	32,13	27,27
44001	-0.5MM	0,40	100,0	19,91	4,0	33,4	19,6	43,0	0,48	31,81	31,31
Cumulative Calculation											
44002	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
44003	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
44004	F 1.45	0,17	6,2	28,25	4,8	11,9	24,3	59,0	0,14	33,91	29,17
44005	F 1.50	0,44	15,7	26,99	4,7	15,0	23,9	56,4	0,12	33,60	29,80
44006	F 1.55	0,92	32,9	25,94	4,8	17,6	22,4	55,3	0,20	33,42	28,80
44007	F 1.60	1,56	55,6	24,86	4,6	20,4	21,3	53,7	0,28	33,13	28,40
44008	F 1.65	1,99	71,2	24,15	4,5	22,3	20,8	52,5	0,32	32,98	28,35
44009	F 1.70	2,20	78,4	23,76	4,4	23,3	20,5	51,8	0,33	32,88	28,30
44010	F1.75	2,20	78,4	23,76	4,4	23,3	20,5	51,8	0,33		
44011	F1.80	2,50	89,3	22,88	4,3	25,5	20,1	50,1	0,33	32,63	28,63
44012	S1.80	2,80	100,0	21,64	4,2	28,8	19,6	47,4	0,36	32,29	29,27
										0,00	0,00



# TEST REPORT

Siza Coal Laboratory

P O BOX 5800

Secunda

2302

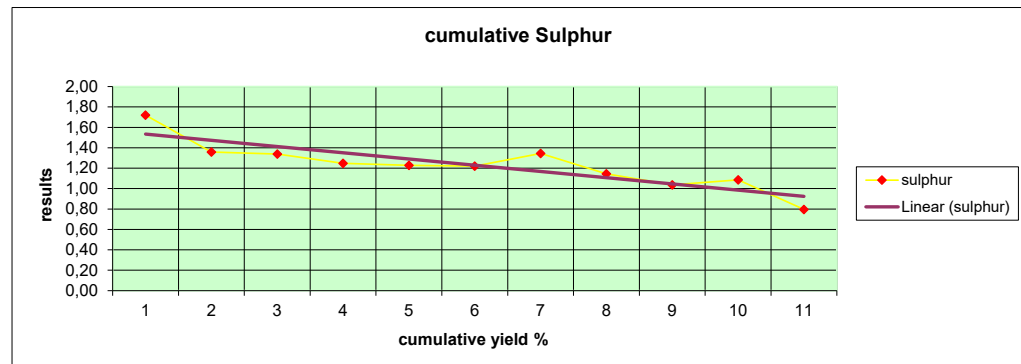
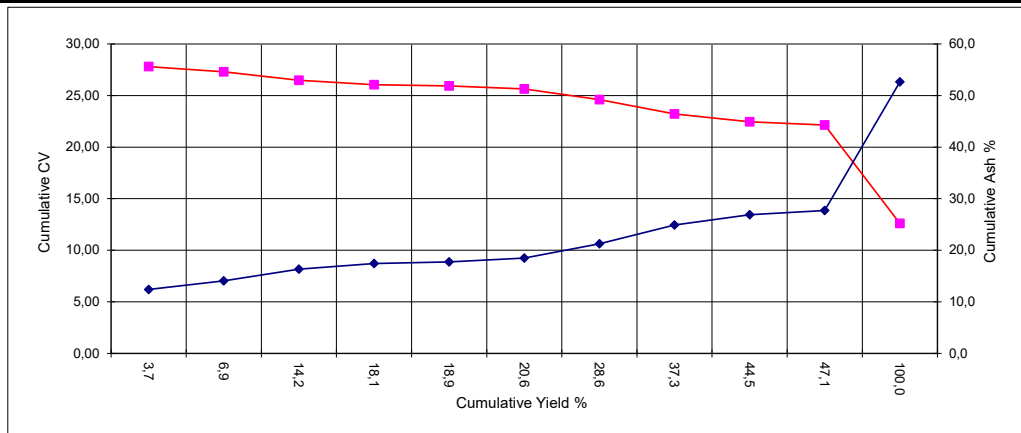
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	ACMFC
SAMPLE	VLKP 305
Description	S4U
Date	19/02/2013

Mass as Rec.	6,79
Thickness	
Rel.Dens.	
Total Mass	3,96
Raw Rel.Dens	1,87

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV %	Volatil %
43809	F 1.35	0,15	3,7	27,80	3,1	12,4	33,2	51,3	1,72	32,90	39,29
43810	F 1.40	0,13	3,2	26,70	3,8	16,0	28,5	51,7	0,94	33,29	35,54
43811	F 1.45	0,29	7,3	25,71	4,4	18,5	25,9	51,2	1,32	33,35	33,59
43812	F 1.50	0,16	3,9	24,50	3,8	21,3	24,2	50,7	0,92	32,71	32,31
43813	F 1.55	0,03	0,7	22,87	3,6	25,5	23,1	47,8	0,72	32,26	32,58
43814	F 1.60	0,07	1,8	22,47	3,8	26,6	22,5	47,1	1,13	32,28	32,33
43816	F 1.65	0,32	8,0	21,90	3,9	28,4	22,2	45,5	1,67	32,35	32,79
43817	F 1.70	0,35	8,8	18,71	3,6	36,8	18,7	40,9	0,49	31,39	31,38
43818	F1.75	0,28	7,1	18,48	3,2	37,4	18,0	41,4	0,47	31,11	30,30
43819	F1.80	0,10	2,6	16,67	3,2	41,6	17,5	37,7	1,92	30,20	31,70
43820	S1.80	2,10	52,9	4,12	1,9	74,8	12,7	10,6	0,54	17,68	54,51
43807	RAW	2,64	100,0	12,87	2,2	52,1	17,4	28,3	0,72	28,16	38,07
43808	-0.5MM	0,16	100,0	15,07	2,8	45,2	19,4	32,6	0,75	28,98	37,31
Cumulative Calculation											
43809	F 1.35	0,15	3,7	27,80	3,1	12,4	33,2	51,3	1,72	32,90	39,29
43810	F 1.40	0,27	6,9	27,29	3,4	14,1	31,0	51,5	1,36	33,08	37,60
43811	F 1.45	0,56	14,2	26,48	3,9	16,3	28,4	51,3	1,34	33,21	35,61
43812	F 1.50	0,72	18,1	26,05	3,9	17,4	27,5	51,2	1,25	33,11	34,93
43813	F 1.55	0,75	18,9	25,93	3,9	17,7	27,3	51,1	1,23	33,08	34,85
43814	F 1.60	0,82	20,6	25,63	3,9	18,5	26,9	50,7	1,22	33,02	34,65
43816	F 1.65	1,13	28,6	24,59	3,9	21,2	25,6	49,3	1,35	32,85	34,19
43817	F 1.70	1,48	37,3	23,21	3,8	24,9	24,0	47,3	1,14	32,56	33,63
43818	F1.75	1,76	44,5	22,45	3,7	26,9	23,0	46,4	1,04	32,36	33,18
43819	F1.80	1,86	47,1	22,14	3,7	27,7	22,7	45,9	1,08	32,27	33,11
43820	S1.80	3,96	100,0	12,60	2,7	52,6	17,4	27,2	0,80	28,24	39,03
										0,00	0,00



# TEST REPORT

Siza Coal Laboratory

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2302

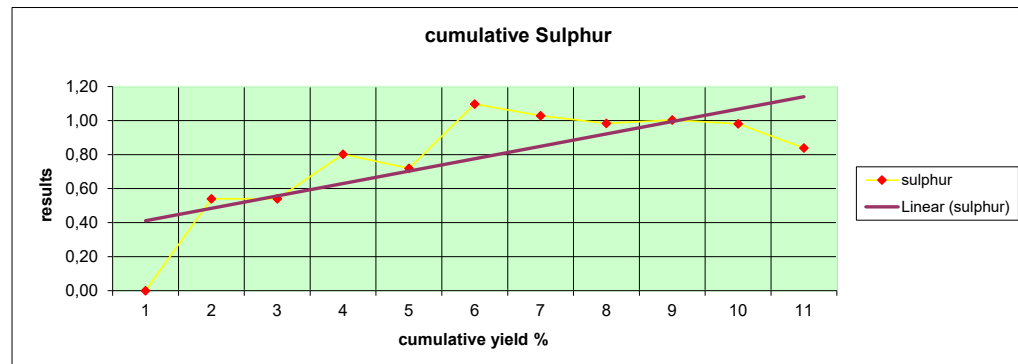
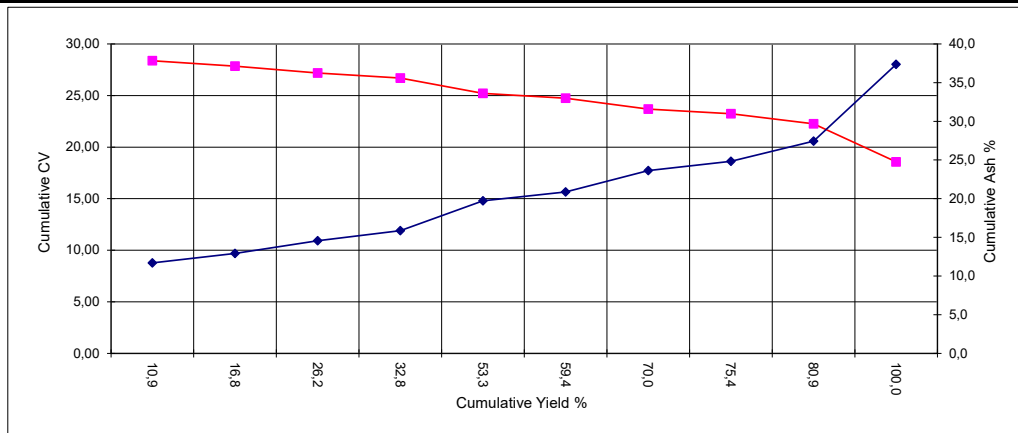
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 306
Description	S4L(C)
Date	19/02/2013

Mass as Rec.	2,68
Thickness	
Rel.Dens.	
Total Mass	1,55
Raw Rel.Dens	1,75

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV %	Volatile %
43871	F 1.35	0,00	0,0								
43872	F 1.40	0,17	10,9	28,37	4,8	11,7	27,8	55,7	0,54	33,98	33,29
43873	F 1.45	0,09	5,8	26,87	4,3	15,2	23,2	57,3		33,38	28,82
43874	F 1.50	0,15	9,4	25,98	4,5	17,5	21,5	56,5	1,27	33,31	27,56
43875	F 1.55	0,10	6,6	24,80	4,8	21,0	20,6	53,6	0,39	33,42	27,76
43876	F 1.60	0,32	20,6	22,83	4,6	25,9	19,5	50,0	1,70	32,85	28,06
43877	F 1.65	0,09	6,1	20,55	4,0	30,9	19,2	45,9	0,42	31,57	29,49
43878	F 1.70	0,16	10,6	17,79	3,5	39,1	16,9	40,5	0,73	30,99	29,44
43879	F1.75	0,08	5,4	17,33	3,4	40,5	15,7	40,4	1,27	30,89	27,99
43880	F1.80	0,08	5,5	8,87	3,1	63,3	14,3	19,3	0,67	26,40	42,56
43881	S1.80	0,30	19,1	3,01	2,7	79,3	13,1	4,9	0,24	16,72	72,78
43869	RAW	1,00	100,0	18,16	4,0	40,6	17,7	37,7	2,00	32,78	31,95
43870	-0.5MM	0,11	100,0	17,50	4,0	38,9	19,9	37,2	0,89	30,65	34,85
Cumulative Calculation											
43871	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
43872	F 1.40	0,17	10,9	28,37	4,8	11,7	27,8	55,7	0,54	33,98	33,29
43873	F 1.45	0,26	16,8	27,85	4,6	12,9	26,2	56,3	0,54	33,77	31,77
43874	F 1.50	0,41	26,2	27,18	4,6	14,6	24,5	56,3	0,80	33,61	30,31
43875	F 1.55	0,51	32,8	26,70	4,6	15,9	23,7	55,8	0,72	33,58	29,84
43876	F 1.60	0,83	53,3	25,21	4,6	19,7	22,1	53,6	1,10	33,32	29,21
43877	F 1.65	0,92	59,4	24,73	4,6	20,9	21,8	52,8	1,03	33,16	29,23
43878	F 1.70	1,09	70,0	23,68	4,4	23,6	21,1	50,9	0,98	32,90	29,26
43879	F1.75	1,17	75,4	23,23	4,3	24,8	20,7	50,2	1,00	32,79	29,19
43880	F1.80	1,25	80,9	22,26	4,2	27,4	20,2	48,1	0,98	32,57	29,63
43881	S1.80	1,55	100,0	18,57	3,9	37,4	18,9	39,8	0,84	31,64	32,16
										0,00	0,00



# TEST REPORT

Siza Coal Laboratory

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2302

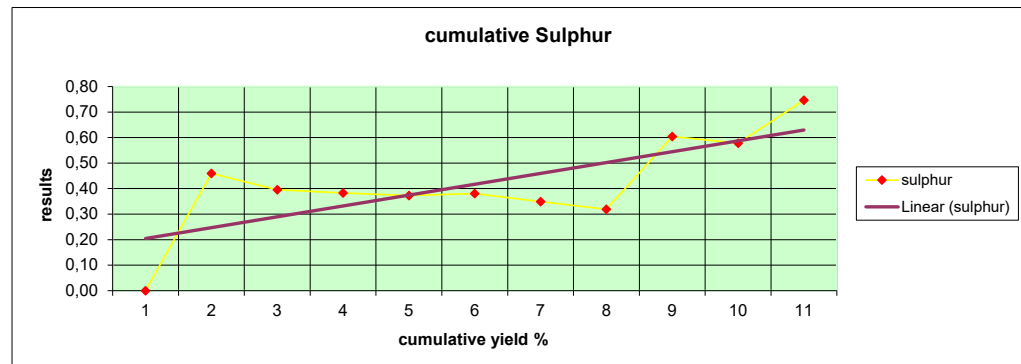
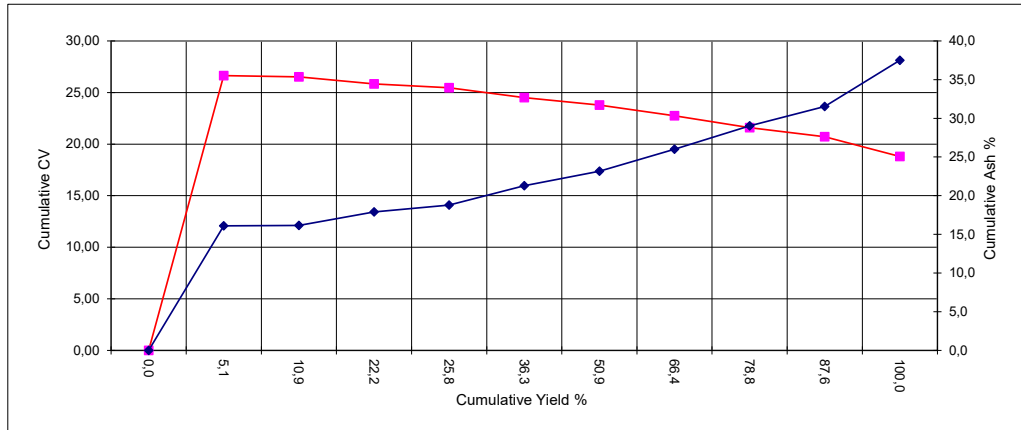
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP
Description	S2L (B)
Date	19/02/2013

Mass as Rec.	5,88
Thickness	
Rel.Dens.	
Total Mass	3,76
Raw Rel.Dens	1,70

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV %	Volatil %
44068	F 1.35	0,00	0,0								
44069	F 1.40	0,19	5,1	26,64	3,9	16,1	26,0	54,0	0,46	33,30	32,50
44070	F 1.45	0,22	5,9	26,43	3,5	16,2	25,6	54,7	0,34	32,91	31,88
44071	F 1.50	0,42	11,3	25,17	4,0	19,6	24,2	52,2	0,37	32,95	31,68
44072	F 1.55	0,13	3,5	23,13	3,5	24,3	22,5	49,7	0,31	32,04	31,16
44073	F 1.60	0,40	10,6	22,15	3,5	27,4	21,8	47,3	0,40	32,05	31,55
44074	F 1.65	0,55	14,6	21,97	3,4	27,8	20,4	48,4	0,27	31,93	29,65
44075	F 1.70	0,58	15,5	19,33	3,1	35,4	18,6	42,9	0,22	31,43	30,24
44076	F1.75	0,47	12,4	15,44	2,9	45,1	17,8	34,2	2,13	29,69	34,23
44077	F1.80	0,33	8,8	12,97	2,3	53,9	17,5	26,3	0,34	29,61	39,95
44078	S1.80	0,47	12,4	5,21	2,7	79,9	14,1	3,3	1,94	29,94	81,03
44066	RAW	1,88	100,0	18,50	3,2	38,2	19,0	39,6	0,56	31,57	32,42
44067	-0.5MM	0,22	100,0	18,62	3,2	37,5	20,5	38,8	0,68	31,40	34,57
Cumulative Calculation											
44068	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
44069	F 1.40	0,19	5,1	26,64	3,9	16,1	26,0	54,0	0,46	33,30	32,50
44070	F 1.45	0,41	10,9	26,53	3,7	16,2	25,8	54,4	0,40	33,09	32,17
44071	F 1.50	0,84	22,2	25,84	3,8	17,9	25,0	53,3	0,38	33,02	31,92
44072	F 1.55	0,97	25,8	25,47	3,8	18,8	24,6	52,8	0,37	32,89	31,83
44073	F 1.60	1,37	36,3	24,50	3,7	21,3	23,8	51,2	0,38	32,67	31,75
44074	F 1.65	1,91	50,9	23,78	3,6	23,2	22,8	50,4	0,35	32,47	31,19
44075	F 1.70	2,50	66,4	22,74	3,5	26,0	21,8	48,6	0,32	32,26	30,99
44076	F1.75	2,96	78,8	21,59	3,4	29,0	21,2	46,4	0,60	31,95	31,39
44077	F1.80	3,29	87,6	20,72	3,3	31,5	20,8	44,4	0,58	31,79	31,96
44078	S1.80	3,76	100,0	18,80	3,2	37,5	20,0	39,3	0,75	31,72	33,75
										0,00	0,00



# TEST REPORT

Siza Coal Laboratory

P O BOX 5800

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2302

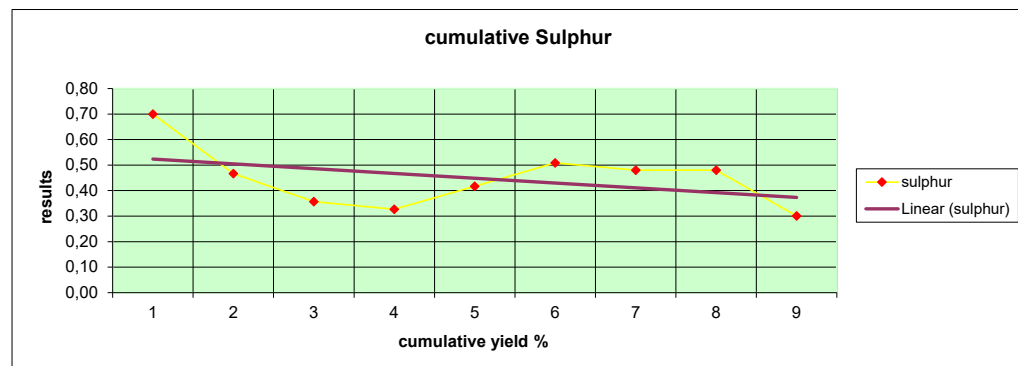
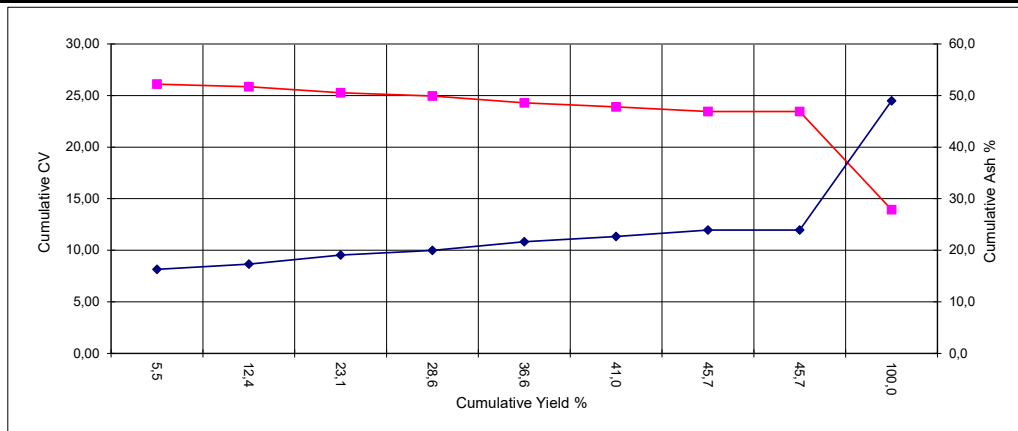
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 306
Description	S2U (D)
Date	19/02/2013

Mass as Rec.	5,96
Thickness	
Rel.Dens.	
Total Mass	3,18
Raw Rel.Dens	1,87

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
43845	F 1.35	0,00	0,0								
43846	F 1.40	0,00	0,0								
43847	F 1.45	0,17	5,5	26,10	3,6	16,3	28,4	51,7	0,70	32,58	35,46
43848	F 1.50	0,22	6,9	25,66	4,1	18,1	23,1	54,7	0,28	32,98	29,69
43849	F 1.55	0,34	10,7	24,57	4,3	21,1	23,0	51,6	0,23	32,94	30,83
43850	F 1.60	0,17	5,5	23,70	4,1	23,7	20,2	52,0	0,20	32,83	27,98
43851	F 1.65	0,26	8,0	21,92	3,8	27,7	19,8	48,7	0,74	32,00	28,91
43852	F 1.70	0,14	4,4	20,58	3,7	31,2	19,7	45,4	1,27	31,61	30,26
43853	F1.75	0,15	4,7	19,67	3,6	34,5	19,3	42,6	0,23	31,78	31,18
43854	F1.80	0,00	0,0								
43855	S1.80	1,73	54,3	5,92	2,4	70,1	15,0	12,5	0,15	21,53	54,55
43843	RAW	2,62	100,0	13,87	3,0	50,6	18,5	27,9	0,23	29,89	39,87
43844	-0.5MM	0,14	100,0	17,61	3,8	38,6	19,8	37,8	0,62	30,57	34,38
Cumulative Calculation											
43845	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
43846	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
43847	F 1.45	0,17	5,5	26,10	3,6	16,3	28,4	51,7	0,70	32,58	35,46
43848	F 1.50	0,39	12,4	25,86	3,9	17,3	25,5	53,4	0,47	32,80	32,29
43849	F 1.55	0,73	23,1	25,26	4,1	19,1	24,3	52,5	0,36	32,86	31,63
43850	F 1.60	0,91	28,6	24,96	4,1	20,0	23,5	52,4	0,33	32,86	30,97
43851	F 1.65	1,16	36,6	24,29	4,0	21,7	22,7	51,6	0,42	32,68	30,55
43852	F 1.70	1,30	41,0	23,89	4,0	22,7	22,4	51,0	0,51	32,58	30,52
43853	F1.75	1,45	45,7	23,46	3,9	23,9	22,1	50,1	0,48	32,51	30,58
43854	F1.80	1,45	45,7	23,46	3,9	23,9	22,1	50,1	0,48		
43855	S1.80	3,18	100,0	13,94	3,1	49,0	18,2	29,7	0,30	29,09	38,05
										0,00	0,00





# TEST REPORT

Siza Coal Laboratory

P O BOX 5800

Secunda

2302

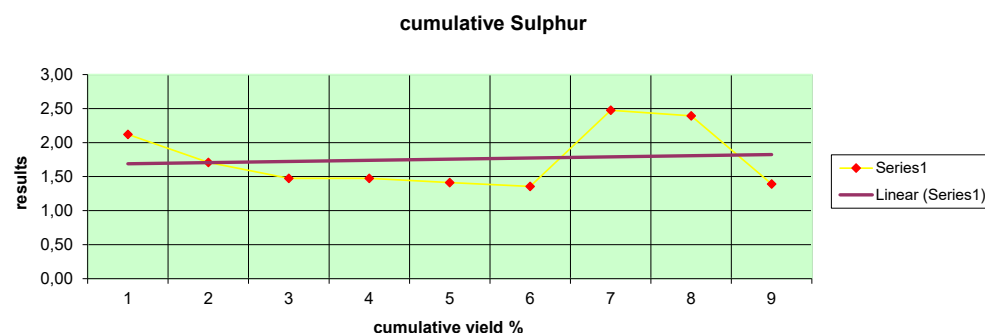
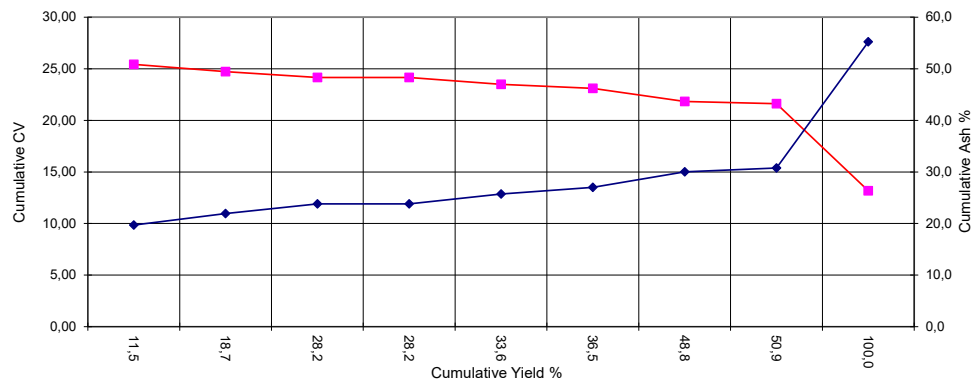
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 306
Description	S4U (B)
Date	19/02/2013

Mass as Rec.	3,14
Thickness	
Rel.Dens.	
Total Mass	1,73
Raw Rel.Dens	1,92

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
10178	F 1.35	0,00	0,0								
10179	F 1.40	0,00	0,0								
10180	F 1.45	0,20	11,5	25,43	2,5	19,7	31,9	45,9	2,12	32,69	41,00
10181	F 1.50	0,12	7,2	23,59	2,4	25,5	26,9	45,2	1,05	32,72	37,31
10182	F 1.55	0,17	9,5	23,06	2,5	27,5	25,8	44,2	1,02	32,94	36,86
10183	F 1.60	0,00	0,0								
10184	F 1.65	0,09	5,4	19,93	2,2	35,8	23,3	38,7	1,08	32,15	37,58
10185	F 1.70	0,05	2,9	18,72	1,8	41,6	21,5	35,1	0,70	33,07	37,99
10186	F1.75	0,21	12,3	18,01	2,2	39,0	21,2	37,6	5,81	30,63	36,05
10187	F1.80	0,04	2,2	17,09	2,0	47,8	20,2	30,0	0,56	34,04	40,24
10188	S1.80	0,85	49,1	4,40	1,5	80,6	12,1	5,8	0,35	24,58	67,60
10177	RAW	1,17	100,0	14,07	1,3	55,4	18,3	25,0	1,46	32,49	42,26
10176	-0.5MM	0,24	100,0	12,55	2,7	49,7	19,6	28,0	0,32	26,37	41,18
10178	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10179	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10180	F 1.45	0,20	11,5	25,43	2,5	19,7	31,9	45,9	2,12	32,69	41,00
10181	F 1.50	0,32	18,7	24,72	2,5	21,9	30,0	45,6	1,71	32,70	39,65
10182	F 1.55	0,49	28,2	24,16	2,5	23,8	28,6	45,1	1,48	32,78	38,75
10183	F 1.60	0,49	28,2	24,16	2,5	23,8	28,6	45,1	1,48		
10184	F 1.65	0,58	33,6	23,48	2,4	25,7	27,7	44,1	1,41	32,69	38,59
10185	F 1.70	0,63	36,5	23,10	2,4	27,0	27,2	43,4	1,36	32,71	38,55
10186	F1.75	0,84	48,8	21,82	2,3	30,0	25,7	41,9	2,48	32,26	38,01
10187	F1.80	0,88	50,9	21,62	2,3	30,8	25,5	41,4	2,39	32,32	38,08
10188	S1.80	1,73	100,0	13,17	1,9	55,2	18,9	23,95	1,39	30,73	44,13



# TEST REPORT

Siza Coal Laboratory

P O BOX 5800

Secunda

2302

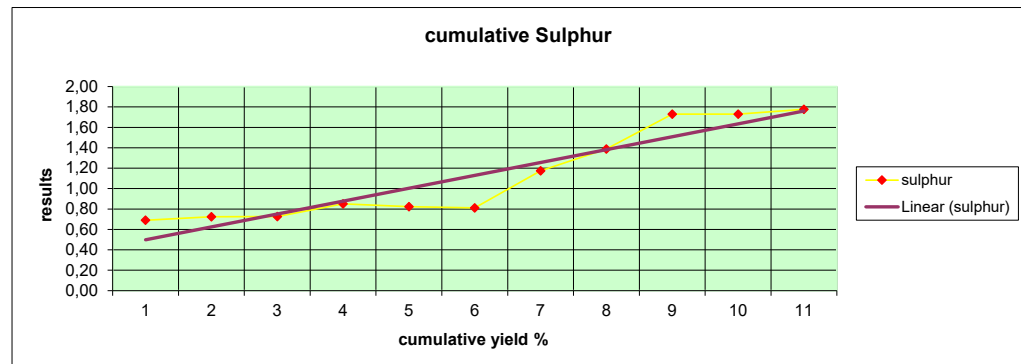
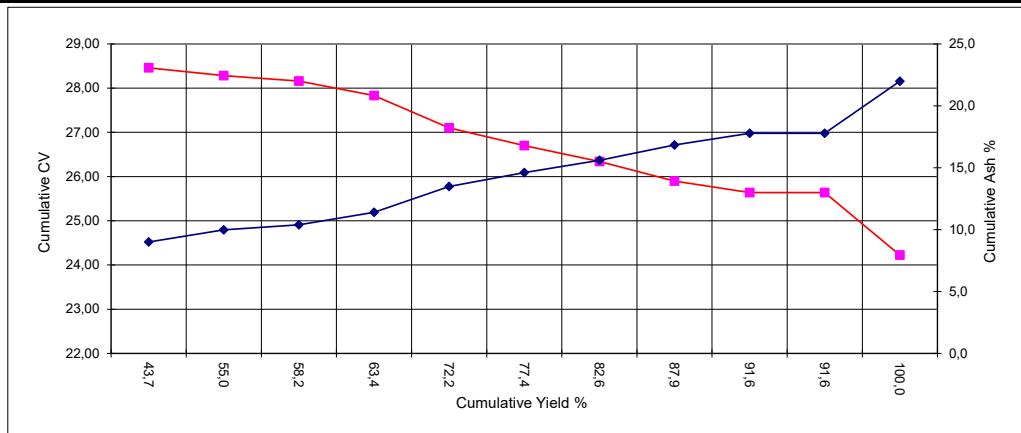
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	ACMFC
SAMPLE	VLKP306
Description	S5 (A)
Date	19/02/2013

Mass as Rec.	2,67
Thickness	
Rel.Dens.	
Total Mass	1,43
Raw Rel.Dens	1,54

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
43858	F 1.35	0,63	43,7	28,46	2,7	9,0	26,8	61,5	0,69	32,23	30,35
43859	F 1.40	0,16	11,3	27,61	2,9	13,8	23,8	59,5	0,86	33,15	28,57
43860	F 1.45	0,04	3,1	26,00	2,9	17,6	21,3	58,2	0,77	32,70	26,79
43861	F 1.50	0,08	5,3	24,18	2,6	22,5	21,0	53,9	2,22	32,28	28,04
43862	F 1.55	0,13	8,8	21,83	2,5	28,6	20,4	48,5	0,62	31,68	29,61
43863	F 1.60	0,07	5,2	21,08	2,4	30,1	20,3	47,2	0,63	31,23	30,07
43864	F 1.65	0,07	5,2	21,00	2,7	30,5	20,0	46,8	6,61	31,44	29,94
43865	F 1.70	0,08	5,3	19,02	2,4	36,2	18,4	43,0	4,72	30,98	29,97
43866	F1.75	0,05	3,7	19,53	2,9	40,1	18,1	38,9	9,76	34,26	31,75
43867	F1.80	0,00	0,0								
43868	S1.80	0,12	8,3	8,67	3,1	68,1	12,3	16,5	2,30	30,10	42,71
43856	RAW	1,03	100,0	24,07	2,8	23,9	22,4	50,9	1,95	32,84	30,56
43857	-0.5MM	0,19	100,0	22,15	2,7	27,8	23,2	46,3	1,49	31,87	33,38
Cumulative Calculation											
43858	F 1.35	0,63	43,7	28,46	2,7	9,0	26,8	61,5	0,69	32,23	30,35
43859	F 1.40	0,79	55,0	28,29	2,7	10,0	26,2	61,1	0,72	32,41	30,00
43860	F 1.45	0,83	58,2	28,16	2,7	10,4	25,9	60,9	0,73	32,42	29,84
43861	F 1.50	0,91	63,4	27,83	2,7	11,4	25,5	60,3	0,85	32,41	29,71
43862	F 1.55	1,03	72,2	27,10	2,7	13,5	24,9	58,9	0,82	32,34	29,70
43863	F 1.60	1,11	77,4	26,70	2,7	14,6	24,6	58,1	0,81	32,28	29,72
43864	F 1.65	1,18	82,6	26,34	2,7	15,6	24,3	57,4	1,17	32,24	29,73
43865	F 1.70	1,26	87,9	25,90	2,7	16,8	23,9	56,5	1,39	32,18	29,74
43866	F1.75	1,31	91,6	25,64	2,7	17,8	23,7	55,8	1,73	32,24	29,80
43867	F1.80	1,31	91,6	25,64	2,7	17,8	23,7	55,9	1,73		
43868	S1.80	1,43	100,0	24,22	2,7	22,0	22,8	52,6	1,78	32,17	30,22
										0,00	0,00





# TEST REPORT

Siza Coal Laboratory

P O BOX 5800

Secunda

2302

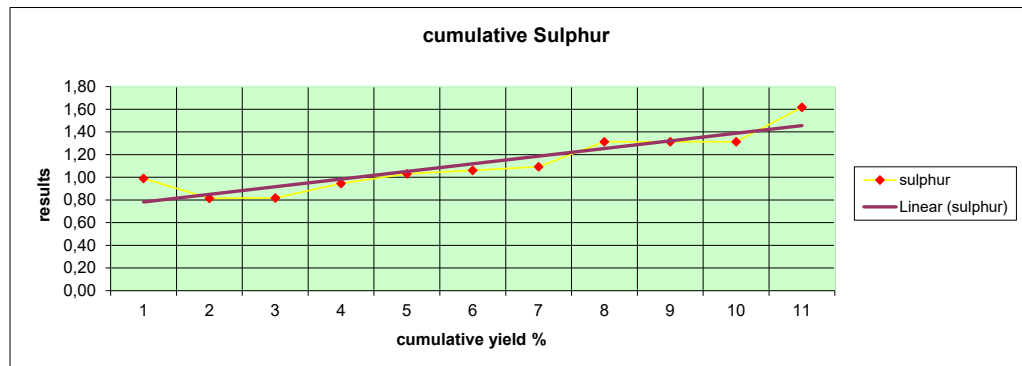
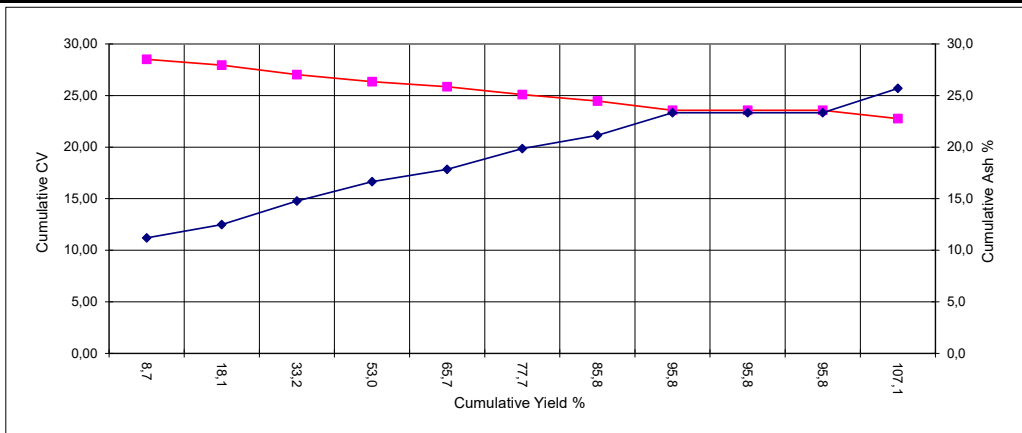
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	ACMFC
SAMPLE	VLKP 307
Description	S4L(B)
Date	27/02/2013

Mass as Rec.	3,04
Thickness	
Rel.Dens.	
Total Mass	1,54
Raw Rel.Dens	1,52

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
44054	F 1.35	0,13	8,7	28,51	5,0	11,2	31,0	52,8	0,99	34,02	36,99
44055	F 1.40	0,14	9,3	27,40	5,2	13,7	27,0	54,1	0,65	33,79	33,29
44056	F 1.45	0,23	15,1	25,93	5,3	17,5	22,5	54,7	0,82	33,59	29,15
44057	F 1.50	0,31	19,8	25,19	5,1	19,8	22,0	53,1	1,16	33,54	29,29
44058	F 1.55	0,20	12,7	23,83	4,7	22,8	21,8	50,7	1,39	32,87	30,07
44059	F 1.60	0,18	12,0	20,87	4,8	30,9	21,2	43,1	1,23	32,46	32,97
44060	F 1.65	0,12	8,1	18,61	4,3	33,5	19,4	42,8	1,40	29,92	31,19
44061	F 1.70	0,15	10,1	15,89	3,6	42,1	18,2	36,1	3,18	29,26	33,52
44062	F1.75	0,00	0,0								
44063	F1.80	0,00	0,0								
44064	S1.80	0,17	11,3	15,88	2,4	45,6	18,1	33,9	4,20	30,54	34,81
44052	RAW	1,19	100,0	22,96	4,8	25,8	22,8	46,6	0,62	33,08	32,85
44053	-0.5MM	0,18	100,0	24,15	4,6	22,9	23,8	48,7	1,36	33,31	32,83
Cumulative Calculation											
44054	F 1.35	0,13	8,7	28,51	5,0	11,2	31,0	52,8	0,99	34,02	36,99
44055	F 1.40	0,28	18,1	27,94	5,1	12,5	28,9	53,5	0,81	33,90	35,11
44056	F 1.45	0,51	33,2	27,02	5,2	14,8	26,0	54,0	0,82	33,76	32,49
44057	F 1.50	0,82	53,0	26,34	5,2	16,7	24,5	53,7	0,95	33,68	31,34
44058	F 1.55	1,01	65,7	25,85	5,1	17,8	24,0	53,1	1,03	33,54	31,11
44059	F 1.60	1,20	77,7	25,08	5,0	19,9	23,6	51,6	1,06	33,39	31,36
44060	F 1.65	1,32	85,8	24,47	5,0	21,1	23,2	50,7	1,09	33,12	31,34
44061	F 1.70	1,48	95,8	23,57	4,8	23,3	22,6	49,2	1,31	32,81	31,52
44062	F1.75	1,48	95,8	23,57	4,8	23,3	22,6	48,8	1,31		
44063	F1.80	1,48	95,8	23,57	4,8	23,3	22,6	48,8	1,31		
44064	S1.80	1,65	107,1	22,76	4,6	25,7	22,2	47,2	1,62	32,63	31,78
										0,00	0,00





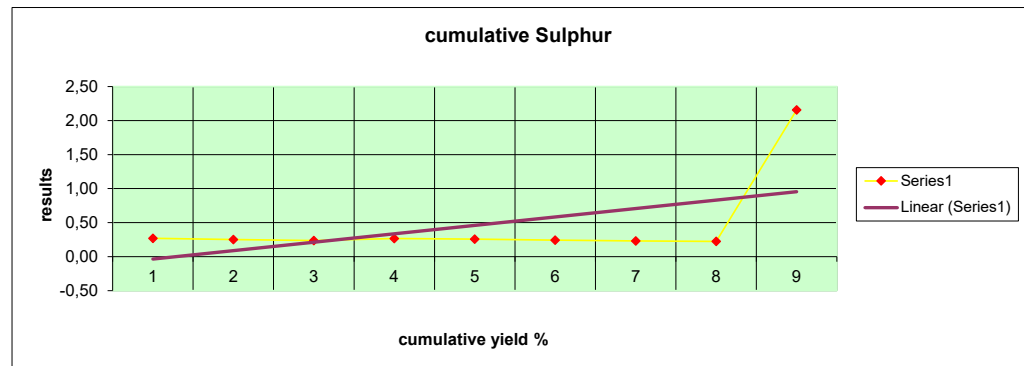
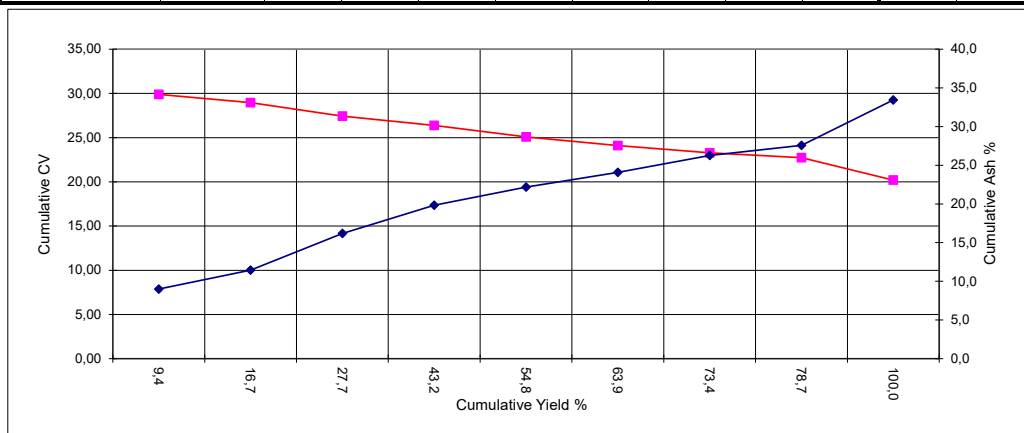
To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 307
Description	S2L (C)
Date	27/02/2013

Mass as Rec.	2,77
Thickness	
Rel.Dens.	
Total Mass	1,70
Raw Rel.Dens	1,63

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
10113	F 1.35	0,00	0,0								
10114	F 1.40	0,00	0,0								
10115	F 1.45	0,16	9,4	29,89	3,1	9,0	25,4	0,0	0,27	34,00	28,90
10116	F 1.50	0,12	7,3	27,77	2,1	14,6	23,4	59,9	0,23	33,34	28,09
10117	F 1.55	0,19	11,1	25,10	2,2	23,3	20,3	54,2	0,21	33,69	27,25
10118	F 1.60	0,26	15,5	24,52	2,3	26,4	16,9	54,4	0,32	34,39	23,70
10119	F 1.65	0,20	11,7	20,30	2,4	30,8	17,2	49,6	0,23	30,39	25,75
10120	F 1.70	0,15	9,1	18,17	2,1	35,7	17,0	45,2	0,16	29,21	27,33
10121	F1.75	0,16	9,4	17,63	1,7	41,1	15,2	42,0	0,14	30,82	26,57
10122	F1.80	0,09	5,4	15,43	1,9	45,2	14,6	38,3	0,13	29,17	27,60
10123	S1.80	0,36	21,3	10,76	1,3	55,2	10,5	33,0	9,31	24,74	24,14

10112	RAW	0,97	100,0	19,98	2,4	31,4	20,7	45,5	2,74	30,18	31,27
10111	-0.5MM	0,10	100,0	20,52	2,6	29,6	20,3	47,5	0,56	30,27	29,94

Cumulative Calculation											
10113	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10114	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10115	F 1.45	0,16	9,4	29,89	3,1	9,0	25,4	0,0	0,27	34,00	28,90
10116	F 1.50	0,28	16,7	28,96	2,7	11,5	24,5	26,2	0,25	33,72	28,55
10117	F 1.55	0,47	27,7	27,42	2,5	16,2	22,8	37,4	0,24	33,71	28,08
10118	F 1.60	0,73	43,2	26,38	2,4	19,8	20,7	43,5	0,27	33,93	26,64
10119	F 1.65	0,93	54,8	25,09	2,4	22,2	20,0	44,8	0,26	33,27	26,47
10120	F 1.70	1,09	63,9	24,11	2,4	24,1	19,5	44,8	0,24	32,78	26,58
10121	F1.75	1,25	73,4	23,27	2,3	26,3	19,0	44,5	0,23	32,58	26,58
10122	F1.80	1,34	78,7	22,74	2,3	27,6	18,7	44,0	0,22	32,40	26,63
10123	S1.80	1,70	100,0	20,19	2,1	33,4	16,9	41,70	2,16	31,30	26,27





# TEST REPORT

Siza Coal Laboratory

P O BOX 5800

Secunda

2302

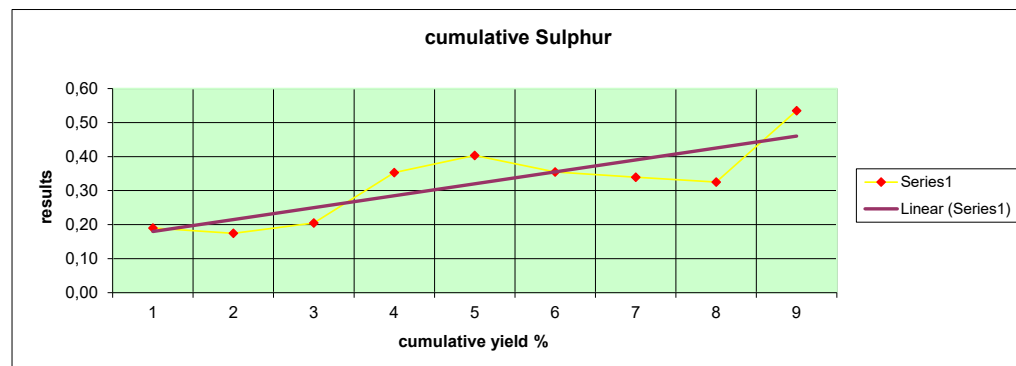
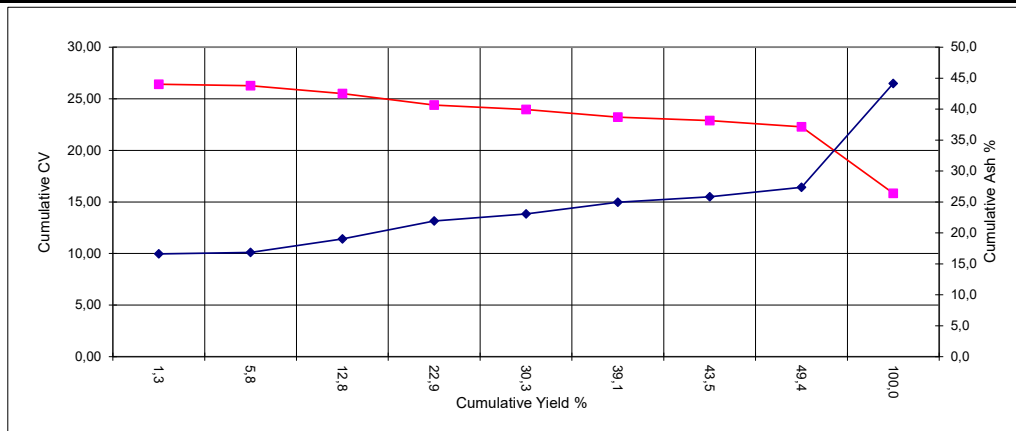
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 307
Description	S2U (D)
Date	28/02/2013

Mass as Rec.	4,99
Thickness	
Rel.Dens.	
Total Mass	2,96
Raw Rel.Dens	1,79

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
44041	F 1.35	0,00	0,0								
44042	F 1.40	0,00	0,0								
44043	F 1.45	0,04	1,3	26,41	3,9	16,6	27,8	51,7	0,19	33,22	34,97
44044	F 1.50	0,13	4,5	26,23	4,4	16,9	25,0	53,7	0,17	33,33	31,77
44045	F 1.55	0,21	7,0	24,89	3,8	20,8	23,1	52,3	0,23	33,01	30,64
44046	F 1.60	0,30	10,1	22,99	4,0	25,6	22,8	47,6	0,54	32,66	32,39
44047	F 1.65	0,22	7,3	22,63	4,1	26,6	20,1	49,2	0,56	32,66	29,00
44048	F 1.70	0,26	8,8	20,68	4,0	31,4	18,8	45,8	0,19	32,01	29,10
44049	F1.75	0,13	4,4	19,81	3,7	33,7	18,0	44,6	0,20	31,65	28,75
44050	F1.80	0,17	5,9	17,92	3,9	38,8	17,4	39,9	0,22	31,27	30,37
44051	S1.80	1,50	50,6	9,55	3,0	60,5	15,1	21,4	0,74	26,16	41,37
44039	RAW	1,67	100,0	15,63	2,2	44,7	18,8	34,3	0,35	29,44	35,40
44040	-0.5MM	0,28	100,0	17,10	3,5	40,8	18,1	37,6	0,44	30,70	32,50
Cumulative Calculation											
44041	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
44042	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
44043	F 1.45	0,04	1,3	26,41	3,9	16,6	27,8	51,7	0,19	33,22	34,97
44044	F 1.50	0,17	5,8	26,27	4,3	16,8	25,6	53,3	0,17	33,30	32,48
44045	F 1.55	0,38	12,8	25,51	4,0	19,0	24,2	52,7	0,20	33,15	31,49
44046	F 1.60	0,68	22,9	24,40	4,0	21,9	23,6	50,5	0,35	32,94	31,87
44047	F 1.65	0,89	30,3	23,97	4,0	23,1	22,8	50,2	0,40	32,87	31,21
44048	F 1.70	1,15	39,1	23,23	4,0	24,9	21,9	49,2	0,36	32,70	30,78
44049	F1.75	1,28	43,5	22,88	4,0	25,8	21,5	48,7	0,34	32,60	30,59
44050	F1.80	1,46	49,4	22,29	4,0	27,4	21,0	47,7	0,33	32,47	30,57
44051	S1.80	2,96	100,0	15,84	3,5	44,1	18,0	34,36	0,54	30,24	34,38





# TEST REPORT

Siza Coal Laboratory

P O BOX 5800

Secunda

2302

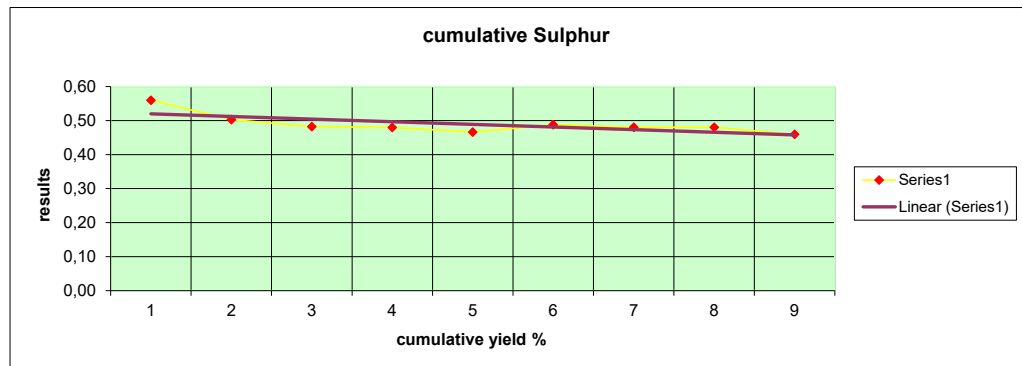
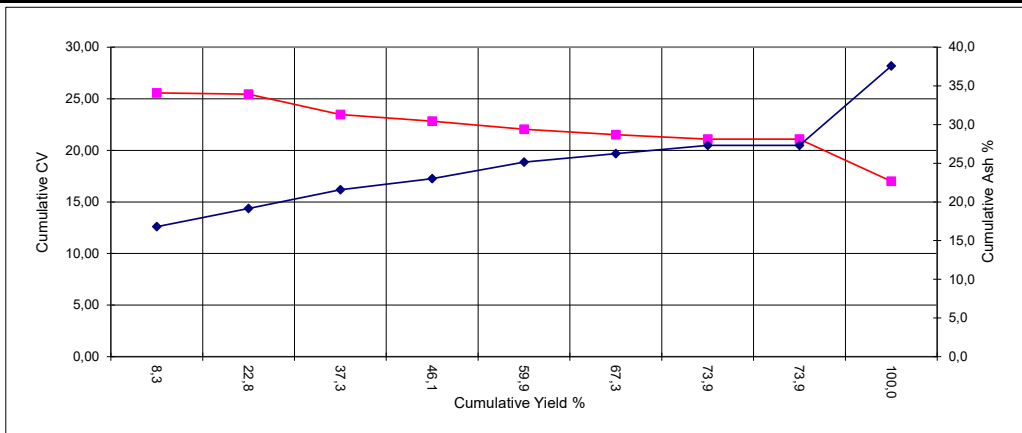
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 307
Description	S4U (A)
Date	27/02/2013

Mass as Rec.	2,77
Thickness	
Rel.Dens.	
Total Mass	2,35
Raw Rel.Dens	1,70

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
10139	F 1.35	0,00	0,0								
10140	F 1.40	0,00	0,0								
10141	F 1.45	0,19	8,3	25,57	4,6	16,8	20,0	58,6	0,56	32,53	25,45
10142	F 1.50	0,34	14,5	25,37	4,7	20,5	18,7	56,1	0,47	33,92	25,00
10143	F 1.55	0,34	14,5	20,40	5,0	25,4	16,7	52,9	0,45	29,31	23,99
10144	F 1.60	0,21	8,9	20,04	4,4	29,0	16,6	50,0	0,47	30,09	24,92
10145	F 1.65	0,33	13,8	19,44	4,6	32,3	15,9	47,2	0,42	30,81	25,20
10146	F 1.70	0,17	7,4	17,21	4,1	35,1	16,6	44,2	0,67	28,31	27,30
10147	F1.75	0,15	6,6	16,84	4,3	38,4	16,5	40,8	0,40	29,39	28,80
10148	F1.80	0,00	0,0								
10149	S1.80	0,61	26,1	5,42	2,3	66,6	13,0	18,1	0,40	17,43	41,80
10138	RAW	1,71	100,0	16,92	4,2	37,8	16,8	41,2	0,67	29,17	28,97
10137	-0.5MM	0,25	100,0	14,65	4,6	44,0	16,6	34,8	0,60	28,50	32,30
10139	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10140	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10141	F 1.45	0,19	8,3	25,57	4,6	16,8	20,0	58,6	0,56	32,53	25,45
10142	F 1.50	0,53	22,8	25,44	4,7	19,2	19,2	57,0	0,50	33,40	25,17
10143	F 1.55	0,88	37,3	23,48	4,8	21,6	18,2	55,4	0,48	31,89	24,74
10144	F 1.60	1,08	46,1	22,82	4,7	23,0	17,9	54,4	0,48	31,57	24,77
10145	F 1.65	1,41	59,9	22,04	4,7	25,2	17,4	52,7	0,47	31,42	24,86
10146	F 1.70	1,58	67,3	21,51	4,6	26,2	17,3	51,8	0,49	31,12	25,09
10147	F1.75	1,74	73,9	21,10	4,6	27,3	17,3	50,8	0,48	30,99	25,37
10148	F1.80	1,74	73,9	21,10	4,6	27,3	17,3	50,8	0,48		
10149	S1.80	2,35	100,0	17,00	4,0	37,6	16,2	42,3	0,46	29,10	27,65



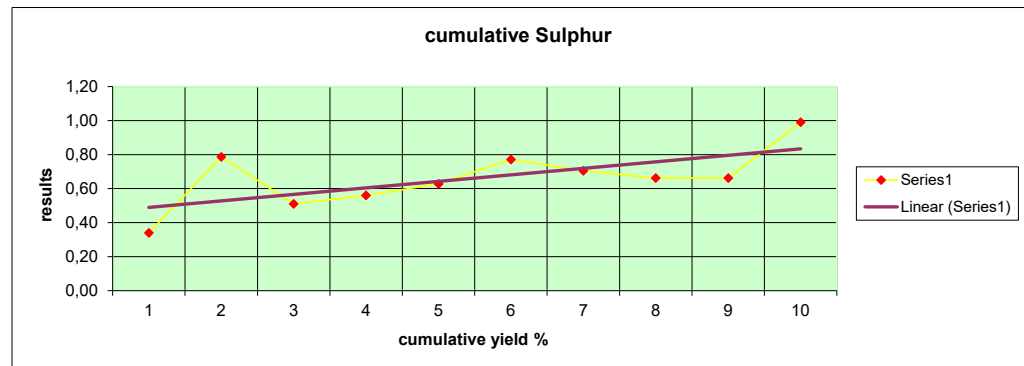
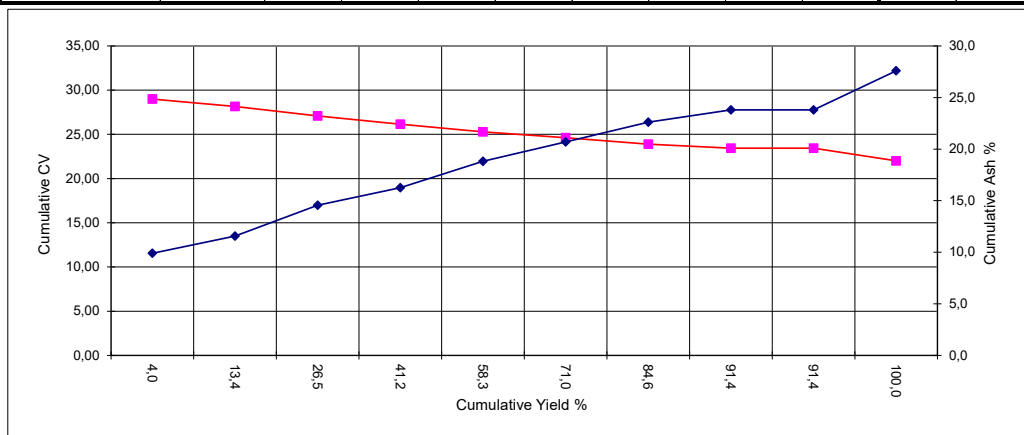




To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 308
Description	S2L (E)
Date	27/02/2013

Mass as Rec.	5,05
Thickness	
Rel.Dens.	
Total Mass	3,05
Raw Rel.Dens	1,59

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV %	Volatile %
9955	F 1.35	0,00	0,0								
9956	F 1.40	0,12	4,0	28,99	3,3	9,9	28,2	58,6	0,34	33,40	32,49
9957	F 1.45	0,28	9,3	27,78	3,5	12,3	23,4	60,8	0,98	32,99	27,79
9958	F 1.50	0,40	13,1	25,98	3,3	17,6	21,4	57,7	0,23	32,84	27,05
9959	F 1.55	0,45	14,8	24,49	3,4	19,3	20,0	57,3	0,65	31,68	25,87
9960	F 1.60	0,52	17,1	23,17	3,1	25,0	19,2	52,7	0,79	32,23	26,70
9961	F 1.65	0,39	12,7	21,58	2,8	29,3	19,2	48,7	1,43	31,78	28,28
9962	F 1.70	0,42	13,6	20,18	2,9	32,6	18,0	46,5	0,36	31,29	27,91
9963	F1.75	0,21	6,8	17,51	2,2	38,7	16,0	43,1	0,13	29,63	27,07
9964	F1.80	0,00	0,0								
9965	S1.80	0,26	8,6	6,92	2,2	67,9	15,6	14,3	4,48	23,14	52,17
9954	RAW	1,80	100,0	21,68	2,6	28,4	19,8	49,2	0,84	31,42	28,70
9953	-0.5MM	0,18	100,0	21,86	2,8	25,6	20,8	50,8	0,31	30,53	29,05
9955	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
9956	F 1.40	0,12	4,0	28,99	3,3	9,9	28,2	58,6	0,34	33,40	32,49
9957	F 1.45	0,41	13,4	28,15	3,4	11,6	24,9	60,1	0,79	33,12	29,24
9958	F 1.50	0,81	26,5	27,07	3,4	14,6	23,1	58,9	0,51	32,99	28,20
9959	F 1.55	1,26	41,2	26,15	3,4	16,3	22,0	58,3	0,56	32,54	27,40
9960	F 1.60	1,78	58,3	25,28	3,3	18,8	21,2	56,7	0,63	32,45	27,21
9961	F 1.65	2,17	71,0	24,62	3,2	20,7	20,8	55,3	0,77	32,35	27,38
9962	F 1.70	2,58	84,6	23,90	3,2	22,6	20,4	53,9	0,71	32,20	27,45
9963	F1.75	2,79	91,4	23,43	3,1	23,8	20,1	53,1	0,66	32,04	27,43
9964	F1.80	2,79	91,4	23,43	3,1	23,8	20,1	53,1	0,66		
9965	S1.80	3,05	100,0	22,01	3,0	27,6	19,7	49,73	0,99	31,72	28,35

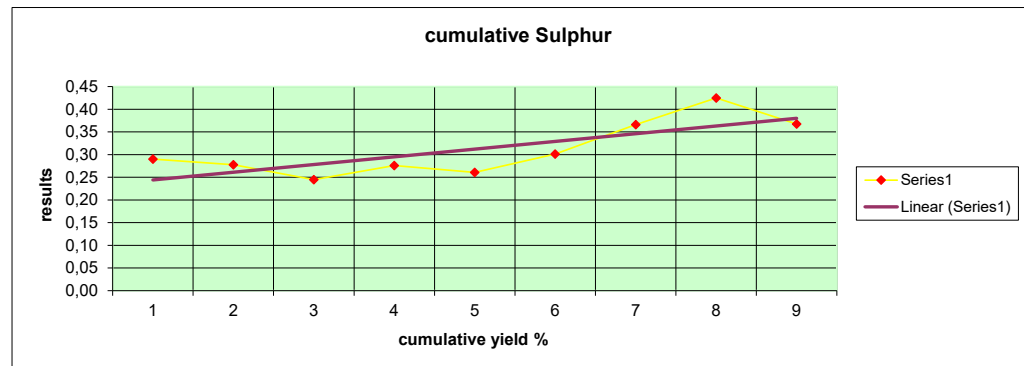
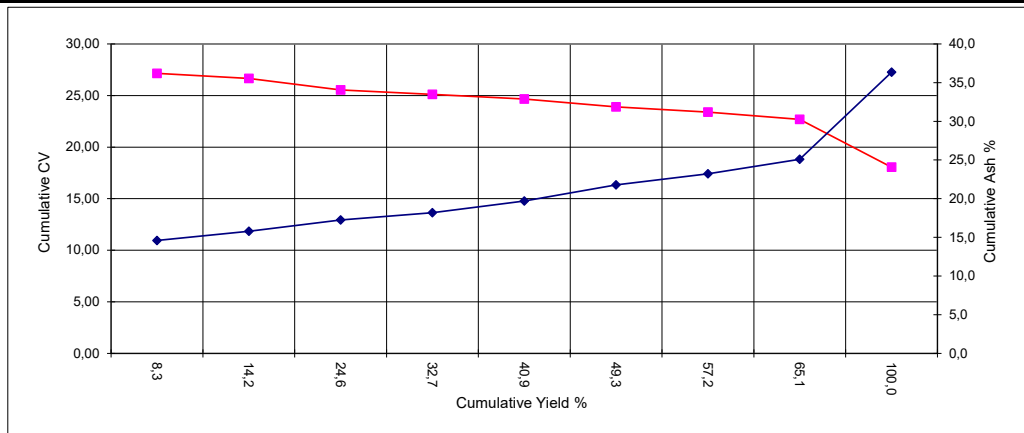




To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 308
Description	S2U (D)
Date	27/02/2013

Mass as Rec.	5,46
Thickness	
Rel.Dens.	
Total Mass	2,97
Raw Rel.Dens	1,70

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatil %
9942	F 1.35	0,00	0,0								
9943	F 1.40	0,00	0,0								
9944	F 1.45	0,25	8,3	27,15	3,9	14,6	26,0	55,5	0,29	33,31	31,90
9945	F 1.50	0,17	5,8	25,95	3,6	17,5	25,5	53,4	0,26	32,89	32,32
9946	F 1.55	0,31	10,4	24,03	3,5	19,2	24,7	52,6	0,20	31,09	31,95
9947	F 1.60	0,24	8,1	23,81	3,7	21,1	23,2	52,0	0,37	31,66	30,85
9948	F 1.65	0,25	8,2	22,86	3,6	25,6	21,6	49,2	0,20	32,29	30,51
9949	F 1.70	0,25	8,4	20,23	3,2	32,0	19,2	45,6	0,50	31,22	29,63
9950	F1.75	0,23	7,9	20,14	3,2	32,1	18,9	45,8	0,77	31,13	29,21
9951	F1.80	0,24	7,9	17,68	3,0	38,7	18,6	39,7	0,85	30,33	31,90
9952	S1.80	1,03	34,8	9,37	2,4	57,4	16,0	24,2	0,26	23,31	39,80
9941	RAW	2,21	100,0	17,92	2,6	37,4	20,5	39,5	0,83	29,87	34,17
9940	-0.5MM	0,24	100,0	18,39	3,0	37,1	18,9	41,0	0,16	30,70	31,55
Cumulative Calculation											
9942	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
9943	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
9944	F 1.45	0,25	8,3	27,15	3,9	14,6	26,0	55,5	0,29	33,31	31,90
9945	F 1.50	0,42	14,2	26,66	3,8	15,8	25,8	54,6	0,28	33,14	32,07
9946	F 1.55	0,73	24,6	25,54	3,7	17,2	25,3	53,8	0,24	32,29	32,02
9947	F 1.60	0,97	32,7	25,11	3,7	18,2	24,8	53,3	0,28	32,14	31,74
9948	F 1.65	1,22	40,9	24,66	3,7	19,7	24,2	52,5	0,26	32,17	31,51
9949	F 1.70	1,47	49,3	23,90	3,6	21,8	23,3	51,3	0,30	32,03	31,23
9950	F1.75	1,70	57,2	23,38	3,5	23,2	22,7	50,6	0,37	31,92	30,99
9951	F1.80	1,93	65,1	22,69	3,5	25,1	22,2	49,2	0,42	31,76	31,08
9952	S1.80	2,97	100,0	18,05	3,1	36,3	20,0	40,52	0,37	29,81	33,09

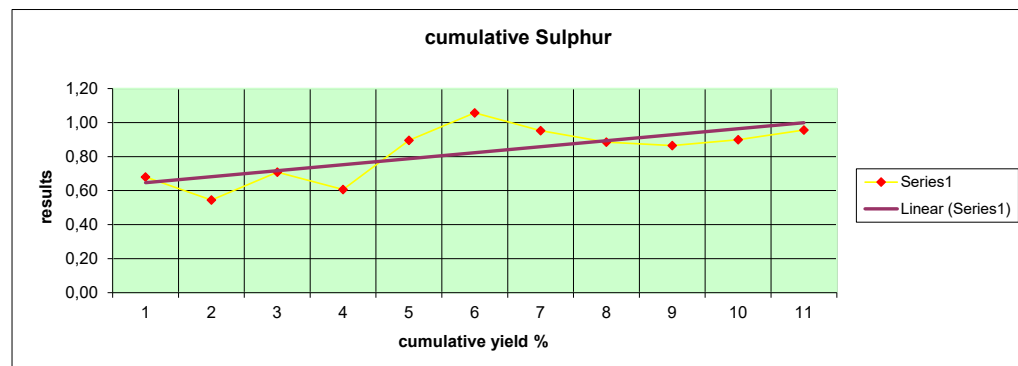
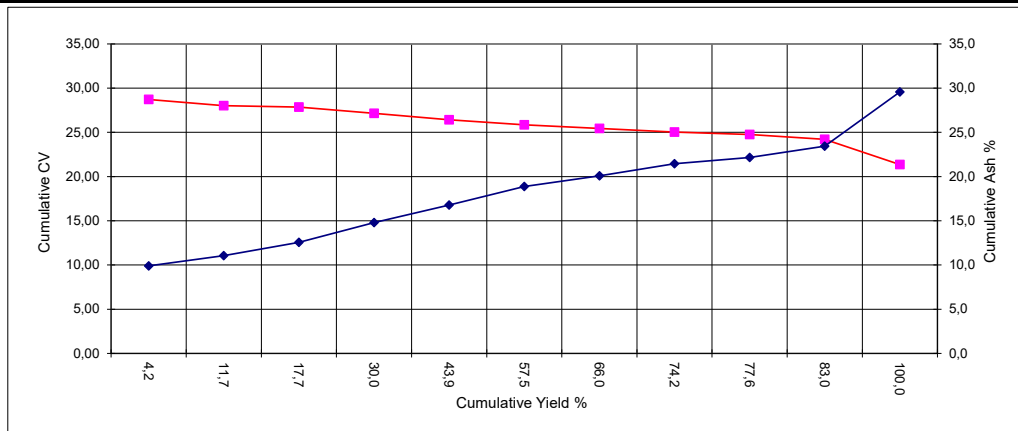




To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 308
Description	S4L C
Date	27/02/2013

Mass as Rec.	5,72
Thickness	
Rel.Dens.	
Total Mass	3,07
Raw Rel.Dens	1,62

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV %	Volatile %
9981	F 1.35	0,13	4,2	28,72	3,9	9,9	31,1	55,1	0,68	33,32	36,08
9982	F 1.40	0,23	7,6	27,64	4,1	11,7	26,4	57,8	0,47	32,83	31,35
9983	F 1.45	0,18	6,0	27,52	3,9	15,5	24,1	56,5	1,03	34,14	29,90
9984	F 1.50	0,38	12,3	26,12	3,9	18,0	23,3	54,8	0,46	33,44	29,83
9985	F 1.55	0,43	13,9	24,88	4,0	21,1	23,2	51,7	1,52	33,22	30,97
9986	F 1.60	0,42	13,6	24,01	3,8	25,7	22,6	47,9	1,58	34,06	32,06
9987	F 1.65	0,26	8,5	22,69	3,8	28,1	19,5	48,6	0,25	33,32	28,63
9988	F 1.70	0,25	8,1	21,70	3,4	32,7	18,1	45,8	0,33	33,96	28,33
9989	F1.75	0,10	3,4	18,88	3,3	37,6	17,1	42,0	0,44	31,95	28,93
9990	F1.80	0,17	5,4	16,41	3,2	41,7	17,0	38,1	1,39	29,78	30,85
9991	S1.80	0,52	17,0	7,37	2,2	59,5	15,7	22,6	1,23	19,24	40,99
9980	RAW	2,51	100,0	20,23	3,9	30,3	22,5	43,3	1,05	30,74	34,19
9979	-0.5MM	0,13	100,0	18,26	3,6	35,4	20,4	40,6	0,39	29,93	33,44
Cumulative Calculation											
9981	F 1.35	0,13	4,2	28,72	3,9	9,9	31,1	55,1	0,68	33,32	36,08
9982	F 1.40	0,36	11,7	28,02	4,0	11,1	28,1	56,8	0,54	33,00	33,06
9983	F 1.45	0,54	17,7	27,85	4,0	12,6	26,7	56,7	0,71	33,38	32,03
9984	F 1.50	0,92	30,0	27,14	4,0	14,8	25,3	55,9	0,61	33,40	31,16
9985	F 1.55	1,35	43,9	26,43	4,0	16,8	24,7	54,6	0,90	33,35	31,11
9986	F 1.60	1,77	57,5	25,86	3,9	18,9	24,2	53,0	1,06	33,50	31,31
9987	F 1.65	2,03	66,0	25,45	3,9	20,1	23,6	52,4	0,95	33,48	31,00
9988	F 1.70	2,28	74,2	25,04	3,9	21,5	23,0	51,7	0,88	33,52	30,75
9989	F1.75	2,38	77,6	24,77	3,8	22,2	22,7	51,3	0,87	33,47	30,69
9990	F1.80	2,55	83,0	24,22	3,8	23,4	22,3	50,4	0,90	33,29	30,70
9991	S1.80	3,07	100,0	21,36	3,5	29,6	21,2	45,7	0,96	31,92	31,70





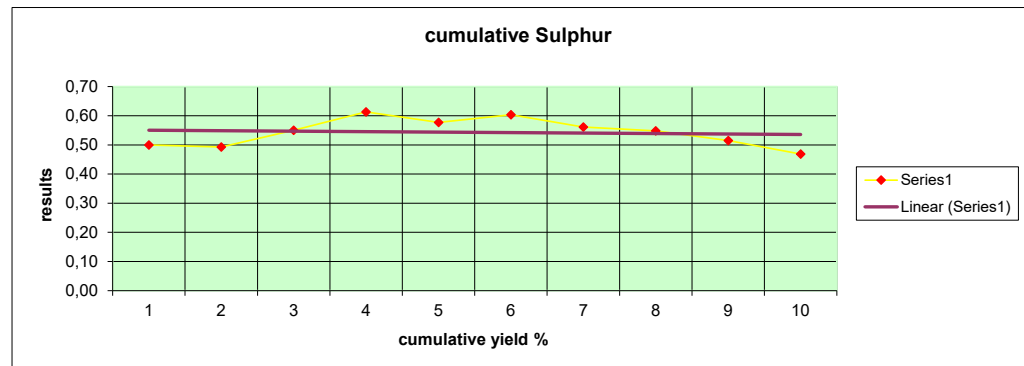
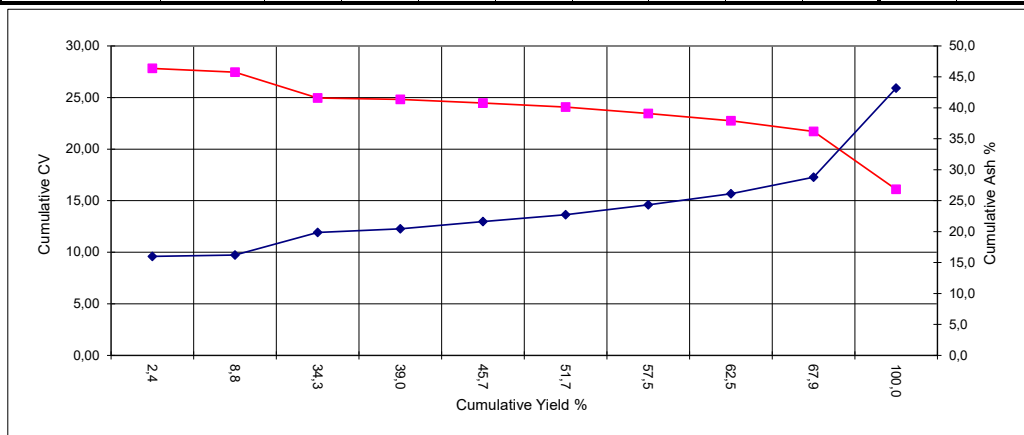
To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 308
Description	S4U (B)
Date	27/02/2013

Mass as Rec.	5,98
Thickness	
Rel.Dens.	
Total Mass	3,39
Raw Rel.Dens	1,80

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV %	Volatile %
9968	F 1.35	0,00	0,0								
9969	F 1.40	0,08	2,4	27,82	3,2	16,0	28,5	52,3	0,50	34,43	35,27
9970	F 1.45	0,22	6,4	27,33	3,8	16,3	27,1	52,8	0,49	34,21	33,92
9971	F 1.50	0,87	25,5	24,10	4,0	21,1	23,9	51,0	0,57	32,18	31,91
9972	F 1.55	0,16	4,7	23,75	3,8	24,8	21,7	49,7	1,07	33,26	30,39
9973	F 1.60	0,23	6,7	22,44	3,2	28,4	21,6	46,8	0,37	32,81	31,58
9974	F 1.65	0,20	6,0	21,10	3,5	31,1	21,4	44,0	0,80	32,26	32,72
9975	F 1.70	0,20	5,8	17,89	3,6	38,6	16,8	41,0	0,19	30,95	29,07
9976	F1.75	0,17	5,0	14,59	3,2	47,0	18,6	31,2	0,39	29,30	37,35
9977	F1.80	0,18	5,5	9,93	3,4	59,4	16,8	20,4	0,14	26,69	45,16
9978	S1.80	1,09	32,0	4,17	2,4	73,7	10,5	13,4	0,37	17,45	43,93

9967	RAW	1,80	100,0	15,79	2,9	45,2	17,1	34,8	0,61	30,42	32,95
9966	-0.5MM	0,75	100,0	14,96	3,3	45,1	16,9	34,7	0,36	28,99	32,75

Cumulative Calculation											
9968	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
9969	F 1.40	0,08	2,4	27,82	3,2	16,0	28,5	52,3	0,50	34,43	35,27
9970	F 1.45	0,30	8,8	27,46	3,6	16,2	27,5	52,7	0,49	34,27	34,28
9971	F 1.50	1,16	34,3	24,96	3,9	19,9	24,8	51,4	0,55	32,74	32,55
9972	F 1.55	1,32	39,0	24,81	3,9	20,5	24,4	51,2	0,61	32,80	32,30
9973	F 1.60	1,55	45,7	24,46	3,8	21,6	24,0	50,6	0,58	32,80	32,20
9974	F 1.65	1,75	51,7	24,07	3,8	22,7	23,7	49,8	0,60	32,74	32,26
9975	F 1.70	1,95	57,5	23,45	3,7	24,3	23,0	48,9	0,56	32,60	32,00
9976	F1.75	2,12	62,5	22,74	3,7	26,1	22,7	47,5	0,55	32,41	32,30
9977	F1.80	2,30	67,9	21,72	3,7	28,8	22,2	45,3	0,52	32,16	32,87
9978	S1.80	3,39	100,0	16,09	3,3	43,2	18,4	35,10	0,47	30,05	34,45

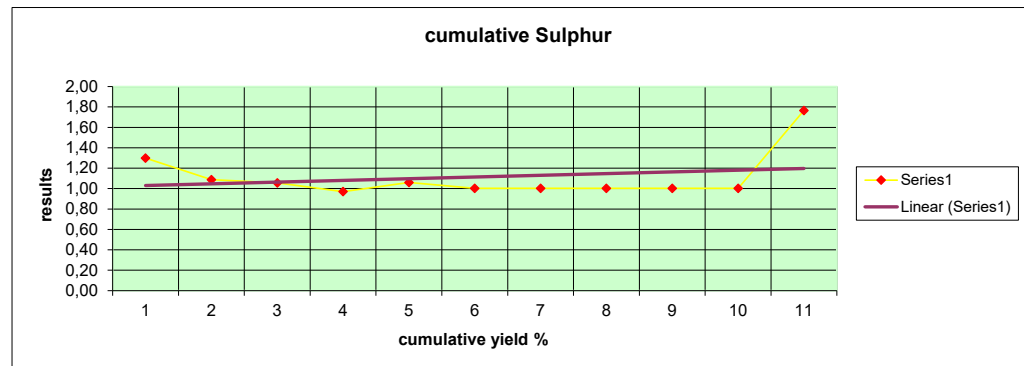
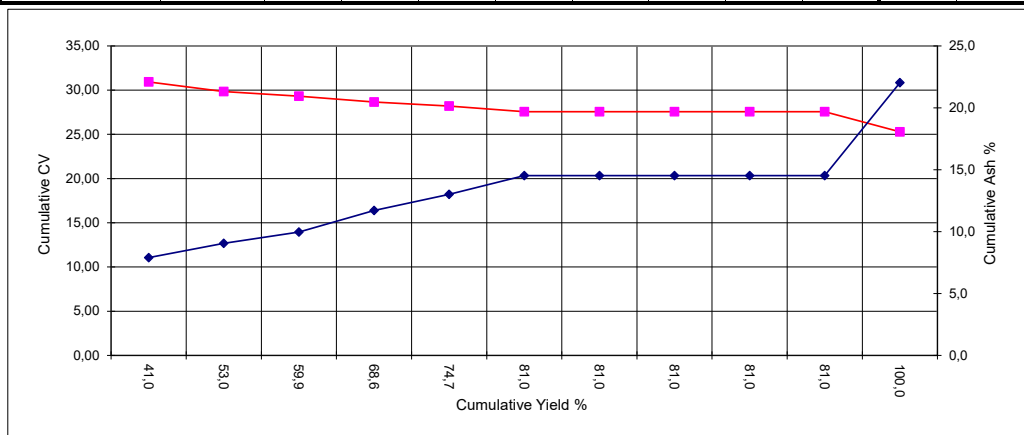




To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 308
Description	S5 (A)
Date	27/02/2013

Mass as Rec.	3,08
Thickness	
Rel.Dens.	
Total Mass	1,60
Raw Rel.Dens	1,53

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
9994	F 1.35	0,66	41,0	30,93	2,4	7,9	25,7	64,0	1,30	34,48	28,65
9995	F 1.40	0,19	12,0	26,13	2,8	13,0	20,8	63,4	0,36	31,03	24,70
9996	F 1.45	0,11	6,9	25,30	2,5	17,0	19,8	60,7	0,81	31,43	24,60
9997	F 1.50	0,14	8,7	24,02	2,5	23,8	17,8	55,9	0,38	32,59	24,15
9998	F 1.55	0,10	6,2	23,10	2,6	27,5	16,7	53,2	2,05	33,05	23,89
9999	F 1.60	0,10	6,3	20,13	2,9	32,5	15,2	49,4	0,32	31,16	23,53
10000	F 1.65	0,00	0,0								
10001	F 1.70	0,00	0,0								
10002	F1.75	0,00	0,0								
10003	F1.80	0,00	0,0								
10004	S1.80	0,31	19,1	15,60	2,5	53,9	14,0	29,6	5,01	35,78	32,11
9993	RAW	1,24	100,0	27,15	2,2	23,0	21,6	53,2	1,43	36,30	28,88
9992	-0.5MM	0,24	100,0	26,58	2,0	20,1	22,2	55,7	3,03	34,12	28,50
Cumulative Calculation											
9994	F 1.35	0,66	41,0	30,93	2,4	7,9	25,7	64,0	1,30	34,48	28,65
9995	F 1.40	0,85	53,0	29,85	2,5	9,1	24,6	63,9	1,09	33,74	27,80
9996	F 1.45	0,96	59,9	29,32	2,5	10,0	24,0	63,5	1,06	33,50	27,46
9997	F 1.50	1,10	68,6	28,65	2,5	11,7	23,3	62,5	0,97	33,40	27,10
9998	F 1.55	1,20	74,7	28,19	2,5	13,0	22,7	61,8	1,06	33,37	26,88
9999	F 1.60	1,30	81,0	27,57	2,5	14,5	22,1	60,8	1,00	33,24	26,68
10000	F 1.65	1,30	81,0	27,57	2,5	14,5	22,1	60,8	1,00		
10001	F 1.70	1,30	81,0	27,57	2,5	14,5	22,1	60,8	1,00		
10002	F1.75	1,30	81,0	27,57	2,5	14,5	22,1	60,8	1,00		
10003	F1.80	1,30	81,0	27,57	2,5	14,5	22,1	60,8	1,00		
10004	S1.80	1,60	100,0	25,29	2,5	22,0	20,6	54,9	1,77	33,52	27,28





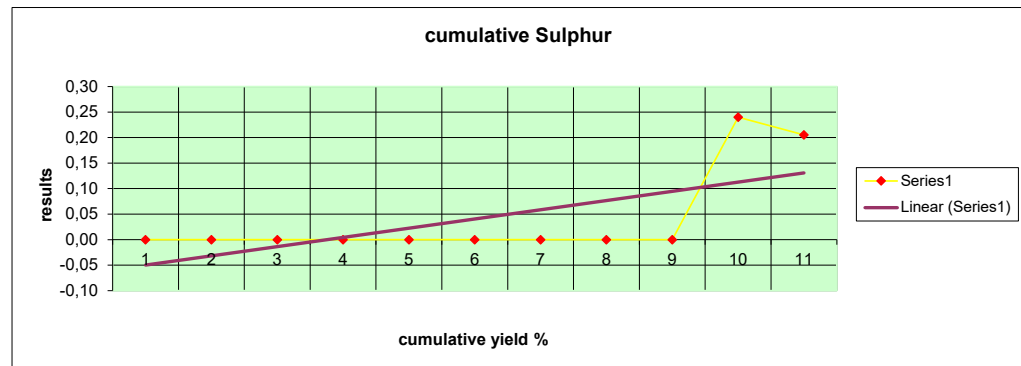
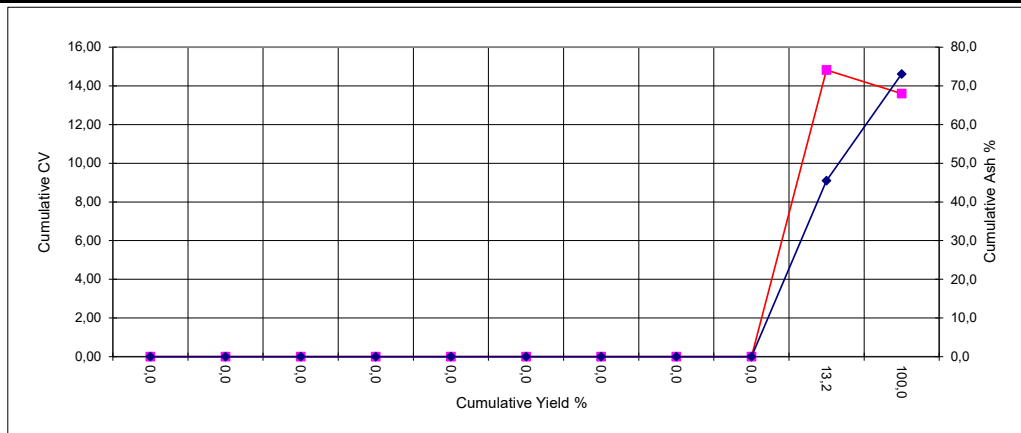
To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 309
Description	S2U (C)
Date	27/02/2013

Mass as Rec.	3,60
Thickness	
Rel.Dens.	
Total Mass	1,55
Raw Rel.Dens	2,14

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatiles %
10087	F 1.35	0,00	0,0								
10088	F 1.40	0,00	0,0								
10089	F 1.45	0,00	0,0								
10090	F 1.50	0,00	0,0								
10091	F 1.55	0,00	0,0								
10092	F 1.60	0,00	0,0								
10093	F 1.65	0,00	0,0								
10094	F 1.70	0,00	0,0								
10095	F1.75	0,00	0,0								
10096	F1.80	0,20	13,2	14,82	3,0	45,5	17,1	34,4	0,24	28,78	33,20
10097	S1.80	1,34	86,8	13,42	1,6	77,3	13,2	7,9	0,20	63,60	62,56

10086	RAW	1,65	100,0	11,58	2,3	74,0	14,9	8,8	0,23	48,86	62,87
10085	-0.5MM	0,36	100,0	13,13	2,2	49,4	16,1	32,3	0,31	27,13	33,26

Cumulative Calculation											
10087	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10088	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10089	F 1.45	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10090	F 1.50	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10091	F 1.55	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10092	F 1.60	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10093	F 1.65	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10094	F 1.70	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10095	F1.75	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10096	F1.80	0,20	13,2	14,82	3,0	45,5	17,1	34,4	0,24	28,78	33,20
10097	S1.80	1,55	100,0	13,61	1,8	73,1	13,7	11,40	0,21	54,16	54,60



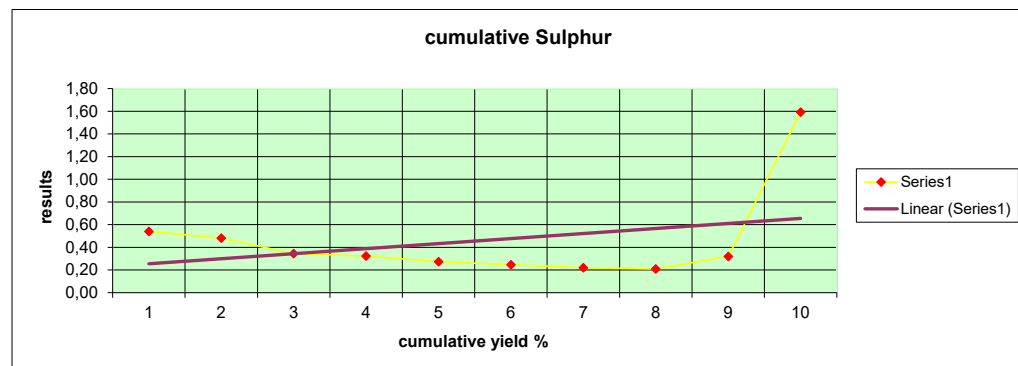
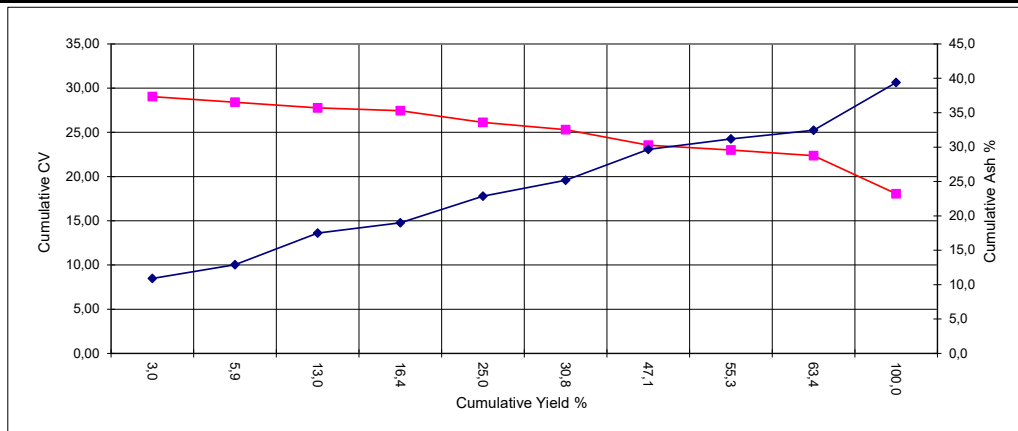




To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 309
Description	S2L (D)
Date	27/02/2013

Mass as Rec.	5,34
Thickness	
Rel.Dens.	
Total Mass	2,90
Raw Rel.Dens	1,72

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
10034	F 1.35	0,00	0,0								
10035	F 1.40	0,09	3,0	29,04	4,2	10,9	26,8	58,1	0,54	34,20	31,57
10036	F 1.45	0,08	2,9	27,73	2,3	15,0	25,1	57,6	0,42	33,53	30,35
10037	F 1.50	0,21	7,1	27,26	3,2	21,3	23,1	52,4	0,23	36,11	30,60
10038	F 1.55	0,10	3,5	26,27	3,7	24,6	21,8	49,9	0,24	36,64	30,40
10039	F 1.60	0,25	8,6	23,56	3,5	30,3	20,3	45,9	0,18	35,59	30,66
10040	F 1.65	0,17	5,8	21,75	3,0	35,1	19,9	42,0	0,13	35,14	32,15
10041	F 1.70	0,47	16,3	20,24	2,1	38,2	19,9	39,8	0,17	33,90	33,33
10042	F1.75	0,24	8,2	19,83	2,0	39,8	18,2	40,0	0,15	34,07	31,27
10043	F1.80	0,24	8,2	18,04	2,1	41,1	17,5	39,3	1,06	31,76	30,81
10044	S1.80	1,06	36,6	10,61	1,7	51,4	16,3	30,6	3,80	22,62	34,75
10033	RAW	2,08	100,0	17,98	2,8	39,5	19,5	38,2	1,56	31,16	33,80
10032	-0.5MM	0,32	100,0	17,26	1,8	40,9	19,1	38,2	0,40	30,12	33,33
10034	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10035	F 1.40	0,09	3,0	29,04	4,2	10,9	26,8	58,1	0,54	34,20	31,57
10036	F 1.45	0,17	5,9	28,40	3,3	12,9	26,0	57,9	0,48	33,88	30,98
10037	F 1.50	0,38	13,0	27,78	3,2	17,5	24,4	54,9	0,34	35,04	30,78
10038	F 1.55	0,48	16,4	27,46	3,3	19,0	23,9	53,8	0,32	35,35	30,71
10039	F 1.60	0,72	25,0	26,12	3,4	22,9	22,6	51,1	0,27	35,42	30,69
10040	F 1.65	0,89	30,8	25,30	3,3	25,2	22,1	49,4	0,25	35,38	30,93
10041	F 1.70	1,37	47,1	23,55	2,9	29,7	21,4	46,1	0,22	34,92	31,67
10042	F1.75	1,60	55,3	23,00	2,8	31,2	20,9	45,2	0,21	34,81	31,62
10043	F1.80	1,84	63,4	22,36	2,7	32,5	20,4	44,4	0,32	34,47	31,52
10044	S1.80	2,90	100,0	18,06	2,3	39,4	18,9	39,36	1,59	30,98	32,47



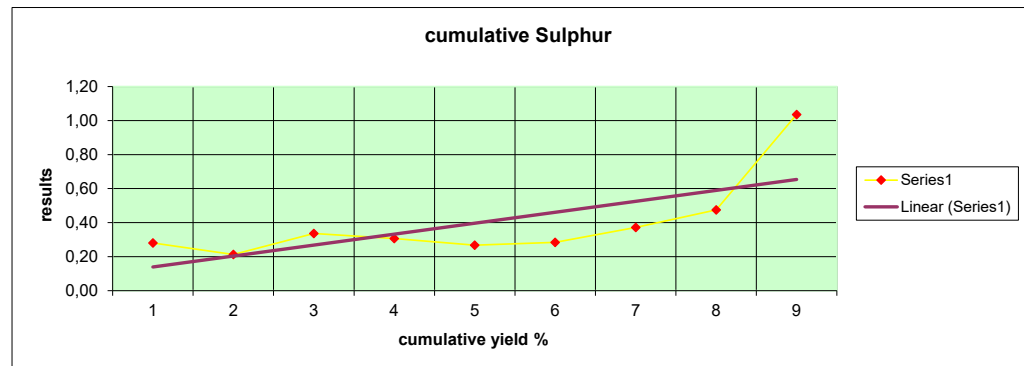
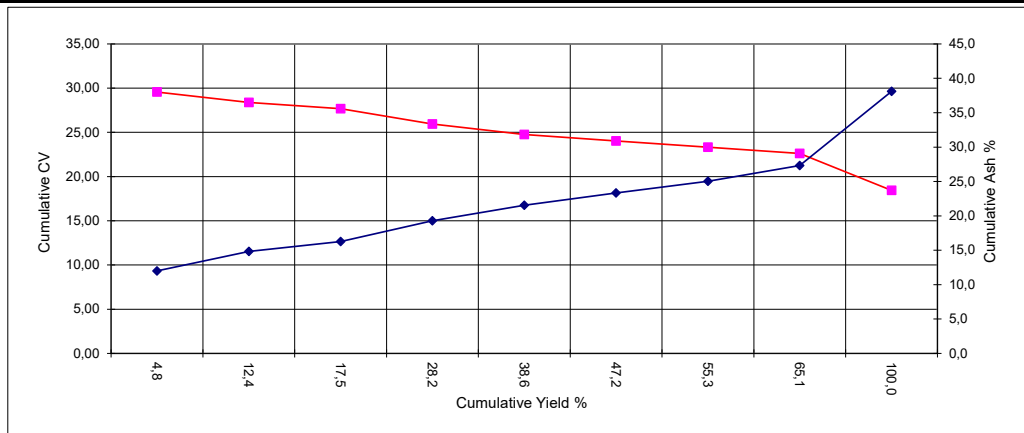


To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 309
Description	S2L (E)
Date	27/02/2013

Mass as Rec.	2,50
Thickness	
Rel.Dens.	
Total Mass	1,53
Raw Rel.Dens	1,70

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
10021	F 1.35	0,00	0,0								
10022	F 1.40	0,00	0,0								
10023	F 1.45	0,07	4,8	29,56	2,7	12,0	27,2	58,1	0,28	34,65	31,89
10024	F 1.50	0,12	7,6	27,65	2,8	16,6	23,1	57,5	0,17	34,31	28,66
10025	F 1.55	0,08	5,0	25,89	2,5	19,8	21,1	56,6	0,64	33,32	27,16
10026	F 1.60	0,16	10,7	23,12	2,7	24,2	19,7	53,4	0,26	31,63	26,95
10027	F 1.65	0,16	10,5	21,58	2,4	27,7	19,3	50,6	0,16	30,87	27,61
10028	F 1.70	0,13	8,5	20,73	2,2	31,3	18,9	47,6	0,36	31,17	28,42
10029	F1.75	0,12	8,1	19,22	2,4	35,0	18,9	43,7	0,88	30,70	30,19
10030	F1.80	0,15	9,8	18,71	1,6	40,1	18,1	40,2	1,06	32,09	31,05
10031	S1.80	0,53	34,9	10,64	1,3	58,2	14,7	25,8	2,08	26,27	36,30
10020	RAW	0,75	100,0	18,99	2,3	38,0	19,2	40,5	0,96	31,81	32,16
10019	-0.5MM	0,18	100,0	22,93	2,8	25,7	21,6	49,9	0,51	32,07	30,21

Cumulative Calculation											
10021	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10022	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10023	F 1.45	0,07	4,8	29,56	2,7	12,0	27,2	58,1	0,28	34,65	31,89
10024	F 1.50	0,19	12,4	28,39	2,8	14,8	24,7	57,7	0,21	34,45	29,95
10025	F 1.55	0,27	17,5	27,67	2,7	16,3	23,7	57,4	0,34	34,13	29,18
10026	F 1.60	0,43	28,2	25,94	2,7	19,3	22,1	55,9	0,31	33,24	28,39
10027	F 1.65	0,59	38,6	24,76	2,6	21,6	21,4	54,5	0,27	32,65	28,19
10028	F 1.70	0,72	47,2	24,03	2,5	23,3	20,9	53,2	0,28	32,41	28,23
10029	F1.75	0,85	55,3	23,32	2,5	25,0	20,6	51,8	0,37	32,19	28,48
10030	F1.80	1,00	65,1	22,63	2,4	27,3	20,2	50,1	0,48	32,18	28,80
10031	S1.80	1,53	100,0	18,44	2,0	38,1	18,3	41,59	1,04	30,79	30,57



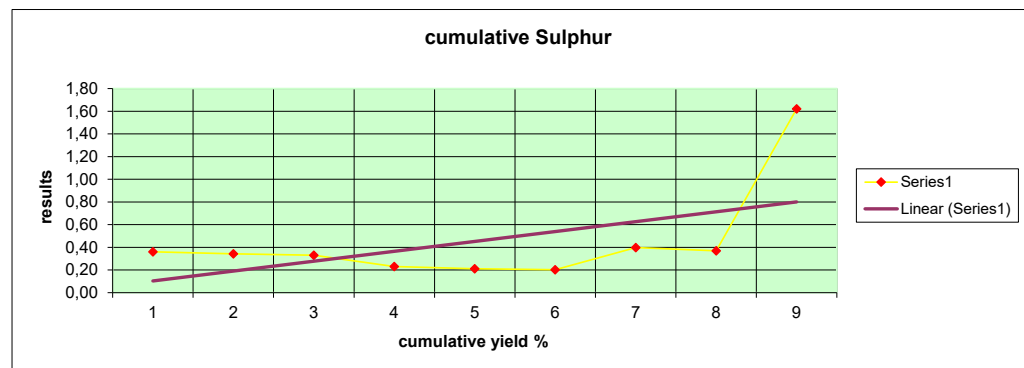
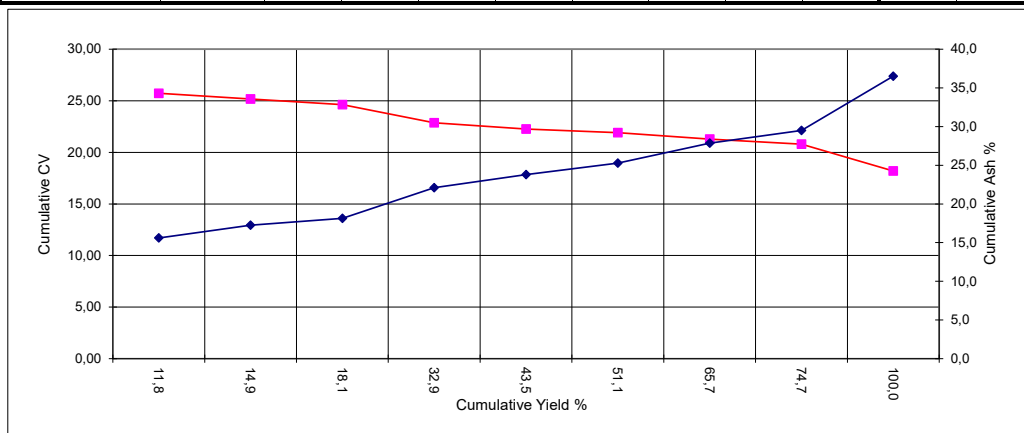


To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 309
Description	S4U (B)
Date	27/02/2013

Mass as Rec.	3,38
Thickness	
Rel.Dens.	
Total Mass	1,59
Raw Rel.Dens	1,66

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
10074	F 1.35	0,00	0,0								
70075	F 1.40	0,00	0,0								
10076	F 1.45	0,19	11,8	25,73	3,7	15,6	28,1	52,6	0,36	31,88	34,82
10077	F 1.50	0,05	3,2	23,07	3,7	23,4	22,3	50,6	0,28	31,65	30,59
10078	F 1.55	0,05	3,2	22,09	3,9	22,2	21,4	52,5	0,27	29,89	28,96
10079	F 1.60	0,23	14,7	20,72	3,7	27,0	19,7	49,6	0,11	29,90	28,43
10080	F 1.65	0,17	10,6	20,39	3,6	29,0	19,5	47,9	0,15	30,25	28,93
10081	F 1.70	0,12	7,6	19,80	3,7	33,8	18,4	44,1	0,15	31,68	29,44
10082	F1.75	0,23	14,7	19,10	3,7	36,8	18,3	41,2	1,08	32,10	30,76
10083	F1.80	0,14	8,9	17,33	3,3	41,7	16,7	38,3	0,15	31,51	30,36
10084	S1.80	0,40	25,3	10,50	2,7	57,2	15,2	24,9	5,31	26,18	37,91
10073	RAW	1,47	100,0	19,09	3,7	34,4	19,8	42,1	2,15	30,84	31,99
10072	-0.5MM	0,29	100,0	23,47	3,4	30,1	20,2	46,3	0,63	35,29	30,38

Cumulative Calculation											
10074	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
70075	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10076	F 1.45	0,19	11,8	25,73	3,7	15,6	28,1	52,6	0,36	31,88	34,82
10077	F 1.50	0,24	14,9	25,17	3,7	17,3	26,9	52,2	0,34	31,84	33,99
10078	F 1.55	0,29	18,1	24,62	3,7	18,1	25,9	52,2	0,33	31,51	33,15
10079	F 1.60	0,52	32,9	22,87	3,7	22,1	23,1	51,1	0,23	30,84	31,17
10080	F 1.65	0,69	43,5	22,27	3,7	23,8	22,2	50,3	0,21	30,70	30,66
10081	F 1.70	0,81	51,1	21,90	3,7	25,3	21,7	49,4	0,20	30,83	30,50
10082	F1.75	1,05	65,7	21,27	3,7	27,9	20,9	47,5	0,40	31,08	30,55
10083	F1.80	1,19	74,7	20,80	3,6	29,5	20,4	46,4	0,37	31,12	30,53
10084	S1.80	1,59	100,0	18,19	3,4	36,5	19,1	40,98	1,62	30,29	31,78





# TEST REPORT

Siza Coal Laboratory

P O BOX 5800

Secunda

2302

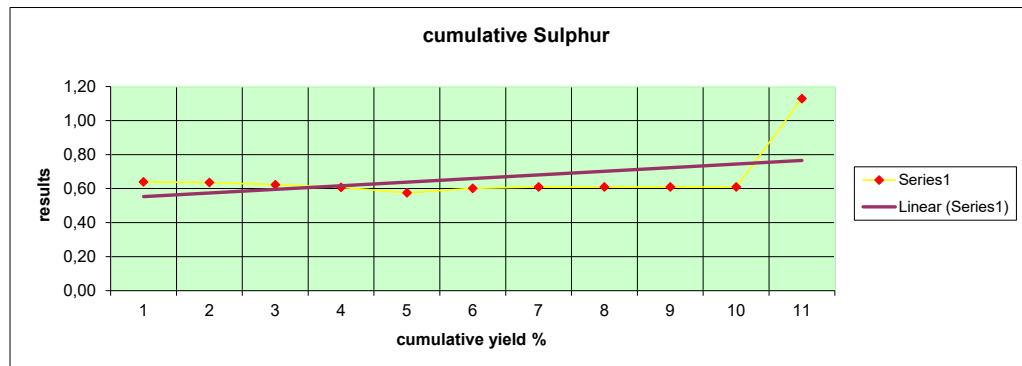
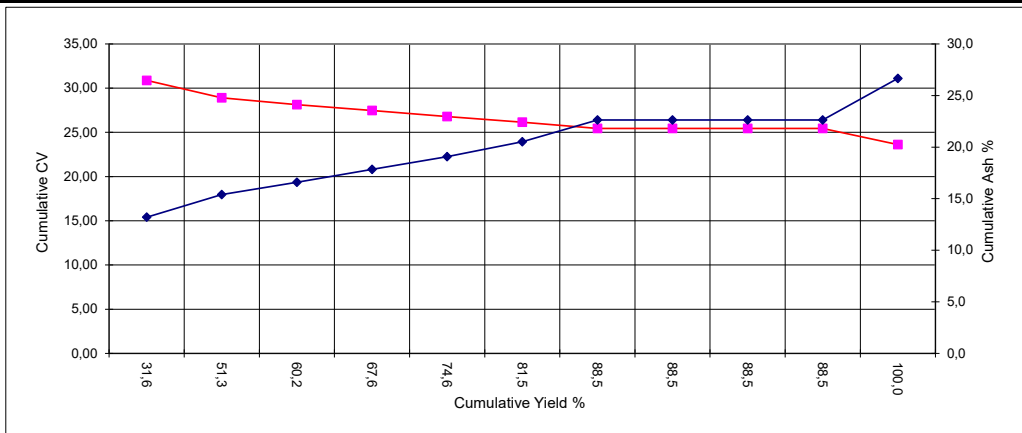
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 309
Description	S5 (A)
Date	27/02/2013

Mass as Rec.	3,56
Thickness	
Rel.Dens.	
Total Mass	2,10
Raw Rel.Dens	1,54

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
10047	F 1.35	0,66	31,6	27,88	2,8	13,2	25,8	58,2	0,64	33,19	30,71
10048	F 1.40	0,41	19,7	25,77	2,9	18,9	22,0	56,2	0,63	32,95	28,13
10049	F 1.45	0,19	8,9	23,55	2,8	23,5	19,4	54,3	0,55	31,95	26,32
10050	F 1.50	0,16	7,4	22,23	2,1	28,1	18,8	51,0	0,48	31,85	26,93
10051	F 1.55	0,15	7,0	20,10	2,4	31,0	17,5	49,1	0,26	30,18	26,28
10052	F 1.60	0,14	6,9	19,11	2,7	36,2	17,7	43,4	0,89	31,28	28,97
10053	F 1.65	0,15	7,0	17,40	2,2	47,0	16,3	34,5	0,70	34,25	32,09
10054	F 1.70	0,00	0,0								
10055	F1.75	0,00	0,0								
10056	F1.80	0,00	0,0								
10057	S1.80	0,24	11,5	9,56	2,4	57,7	9,7	30,2	5,12	23,96	24,31
10046	RAW	1,24	100,0	23,99	2,1	24,8	21,6	51,5	1,14	32,82	29,55
10045	-0.5MM	0,20	100,0	17,10	1,9	26,7	16,2	55,2	1,18	23,95	22,69
Cumulative Calculation											
10047	F 1.35	0,66	31,6	30,88	2,8	13,2	25,8	58,2	0,64	36,76	30,71
10048	F 1.40	1,08	51,3	28,92	2,8	15,4	24,3	57,4	0,64	35,36	29,77
10049	F 1.45	1,27	60,2	28,12	2,8	16,6	23,6	57,0	0,62	34,90	29,30
10050	F 1.50	1,42	67,6	27,48	2,8	17,8	23,1	56,3	0,61	34,61	29,07
10051	F 1.55	1,57	74,6	26,79	2,7	19,1	22,6	55,6	0,58	34,26	28,85
10052	F 1.60	1,71	81,5	26,14	2,7	20,5	22,2	54,6	0,60	34,06	28,86
10053	F 1.65	1,86	88,5	25,45	2,7	22,6	21,7	53,0	0,61	34,07	29,03
10054	F 1.70	1,86	88,5	25,45	2,7	22,6	21,7	53,0	0,61		
10055	F1.75	1,86	88,5	25,45	2,7	22,6	21,7	53,0	0,61		
10056	F1.80	1,86	88,5	25,45	2,7	22,6	21,7	53,0	0,61		
10057	S1.80	2,10	100,0	23,62	2,6	26,7	20,3	50,38	1,13	33,41	28,72





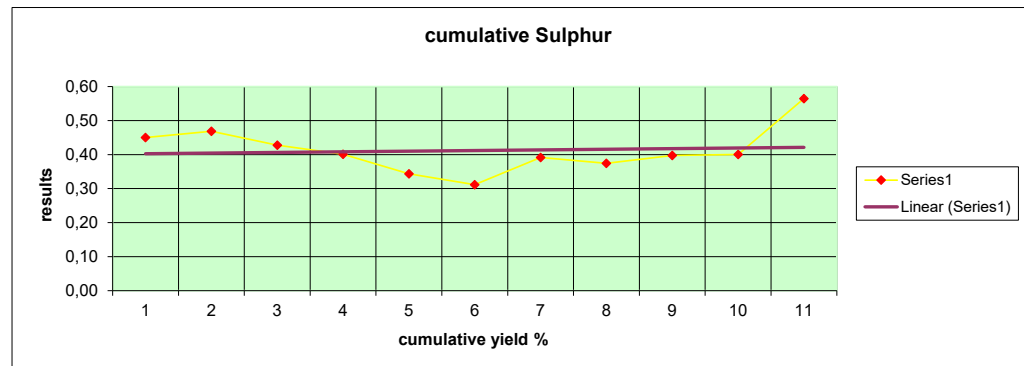
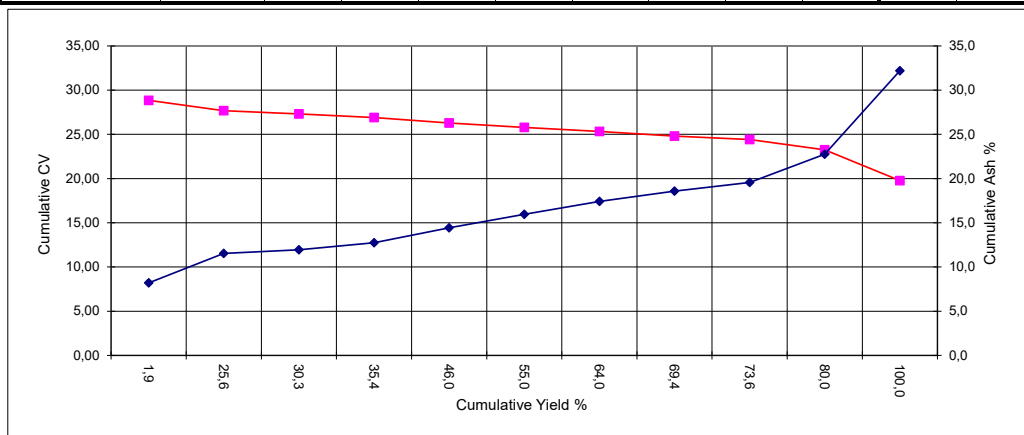
To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 310
Description	S2L (D)
Date	27/02/2013

Mass as Rec.	4,00
Thickness	
Rel.Dens.	
Total Mass	2,57
Raw Rel.Dens	1,66

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
9929	F 1.35	0,05	1,9	28,85	3,0	8,2	31,5	57,3	0,45	32,49	35,47
9930	F 1.40	0,61	23,7	27,59	3,0	11,8	26,4	58,8	0,47	32,38	30,99
9931	F 1.45	0,12	4,8	25,34	3,1	14,2	25,0	57,7	0,21	30,64	30,23
9932	F 1.50	0,13	5,1	24,39	3,1	17,4	23,5	56,0	0,24	30,68	29,56
9933	F 1.55	0,27	10,5	24,26	3,1	20,1	20,3	56,5	0,15	31,59	26,43
9934	F 1.60	0,23	9,0	23,22	2,9	23,8	20,2	53,1	0,15	31,68	27,56
9935	F 1.65	0,23	9,0	22,52	3,2	26,2	19,4	51,2	0,88	31,90	27,48
9936	F 1.70	0,14	5,4	18,63	2,5	32,5	19,3	45,7	0,17	28,66	29,69
9937	F1.75	0,11	4,2	18,13	2,7	36,0	19,2	42,1	0,77	29,58	31,32
9938	F1.80	0,16	6,4	9,69	2,5	59,4	18,9	19,2	0,44	25,43	49,61
9939	S1.80	0,51	20,0	5,89	2,6	69,9	17,0	10,5	1,22	21,42	61,82

9928	RAW	1,07	100,0	19,58	3,5	34,2	20,9	41,4	0,98	31,43	33,55
9927	-0.5MM	0,28	100,0	23,67	2,4	22,5	22,1	53,0	1,16	31,52	29,43

Cumulative Calculation											
9929	F 1.35	0,05	1,9	28,85	3,0	8,2	31,5	57,3	0,45	32,49	35,47
9930	F 1.40	0,66	25,6	27,68	3,0	11,5	26,8	58,7	0,47	32,39	31,33
9931	F 1.45	0,78	30,3	27,31	3,0	12,0	26,5	58,5	0,43	32,12	31,16
9932	F 1.50	0,91	35,4	26,89	3,0	12,7	26,1	58,2	0,40	31,93	30,94
9933	F 1.55	1,18	46,0	26,29	3,0	14,4	24,7	57,8	0,34	31,85	29,98
9934	F 1.60	1,41	55,0	25,79	3,0	16,0	24,0	57,0	0,31	31,83	29,62
9935	F 1.65	1,64	64,0	25,33	3,0	17,4	23,3	56,2	0,39	31,84	29,35
9936	F 1.70	1,78	69,4	24,81	3,0	18,6	23,0	55,4	0,37	31,63	29,37
9937	F1.75	1,89	73,6	24,43	3,0	19,6	22,8	54,6	0,40	31,54	29,46
9938	F1.80	2,05	80,0	23,25	2,9	22,8	22,5	51,8	0,40	31,29	30,29
9939	S1.80	2,57	100,0	19,77	2,9	32,2	21,4	43,52	0,56	30,45	32,96



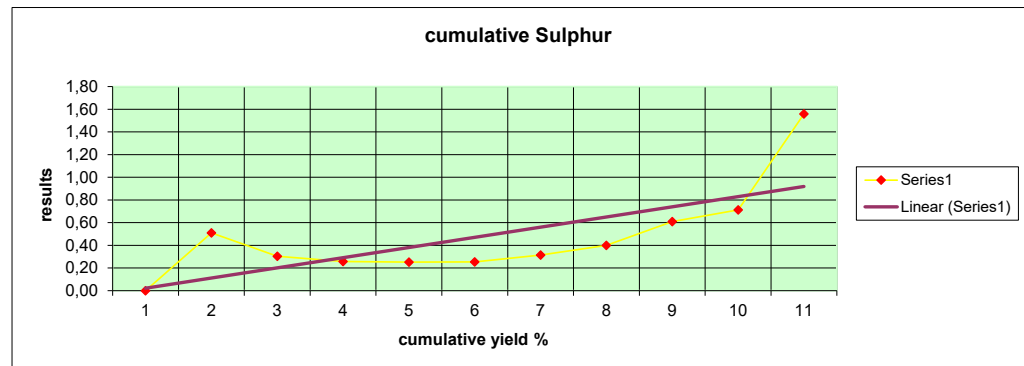
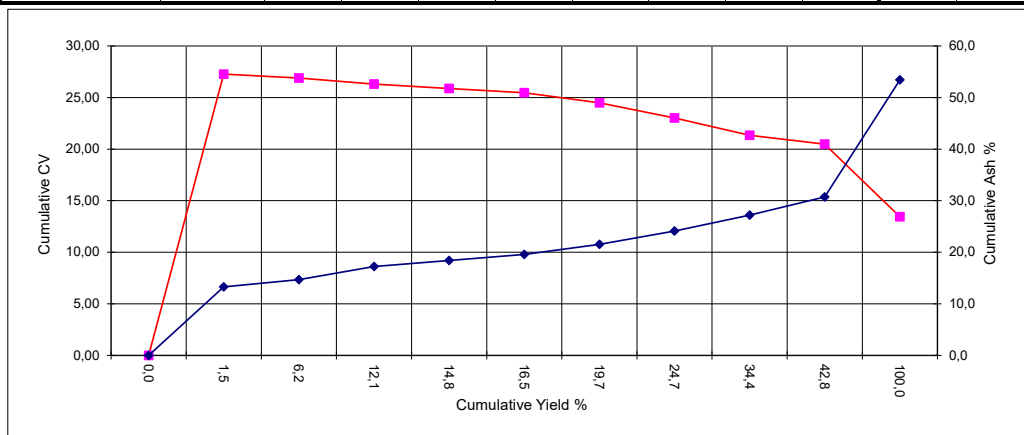


To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 310
Description	S2L (E)
Date	27/02/2013

Mass as Rec.	4,80
Thickness	
Rel.Dens.	
Total Mass	2,77
Raw Rel.Dens	1,90

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV %	Volatile %
9904	F 1.35	0,00	0,0								
9905	F 1.40	0,04	1,5	27,27	2,8	13,3	29,8	54,1	0,51	32,50	35,52
9906	F 1.45	0,13	4,7	26,77	2,3	15,1	29,0	53,6	0,24	32,41	35,11
9907	F 1.50	0,16	5,9	25,69	2,6	19,9	27,6	49,9	0,21	33,15	35,61
9908	F 1.55	0,08	2,7	23,98	2,2	23,6	23,7	50,5	0,23	32,32	31,94
9909	F 1.60	0,05	1,7	21,93	2,2	29,6	22,8	45,4	0,27	32,16	33,43
9910	F 1.65	0,09	3,2	19,37	3,8	31,6	19,8	44,8	0,63	29,98	30,65
9911	F 1.70	0,14	4,9	17,22	2,2	34,5	18,5	44,8	0,74	27,20	29,23
9912	F1.75	0,27	9,7	17,08	2,3	35,0	18,1	44,6	1,14	27,24	28,87
9913	F1.80	0,23	8,4	16,93	2,0	45,1	16,4	36,5	1,14	32,00	31,00
9914	S1.80	1,58	57,2	8,20	1,2	70,4	9,5	18,9	2,19	28,87	33,45
9903	RAW	1,56	100,0	13,77	1,5	53,4	15,9	29,2	1,63	30,53	35,25
9902	-0.5MM	0,47	100,0	13,81	1,7	52,0	16,6	29,7	2,05	29,83	35,85

Cumulative Calculation											
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV %	Volatile %
9904	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
9905	F 1.40	0,04	1,5	27,27	2,8	13,3	29,8	54,1	0,51	32,50	35,52
9906	F 1.45	0,17	6,2	26,89	2,4	14,7	29,2	53,7	0,30	32,43	35,21
9907	F 1.50	0,33	12,1	26,30	2,5	17,2	28,4	51,9	0,26	32,77	35,40
9908	F 1.55	0,41	14,8	25,88	2,5	18,4	27,5	51,6	0,25	32,69	34,80
9909	F 1.60	0,46	16,5	25,46	2,4	19,6	27,0	51,0	0,25	32,64	34,68
9910	F 1.65	0,55	19,7	24,48	2,6	21,5	25,9	50,0	0,31	32,28	34,12
9911	F 1.70	0,68	24,7	23,02	2,6	24,1	24,4	48,9	0,40	31,40	33,28
9912	F1.75	0,95	34,4	21,35	2,5	27,2	22,6	47,7	0,61	30,35	32,17
9913	F1.80	1,18	42,8	20,48	2,4	30,7	21,4	45,5	0,71	30,61	31,99
9914	S1.80	2,77	100,0	13,45	1,7	53,4	14,6	30,28	1,56	29,98	32,52





# TEST REPORT

Siza Coal Laboratory

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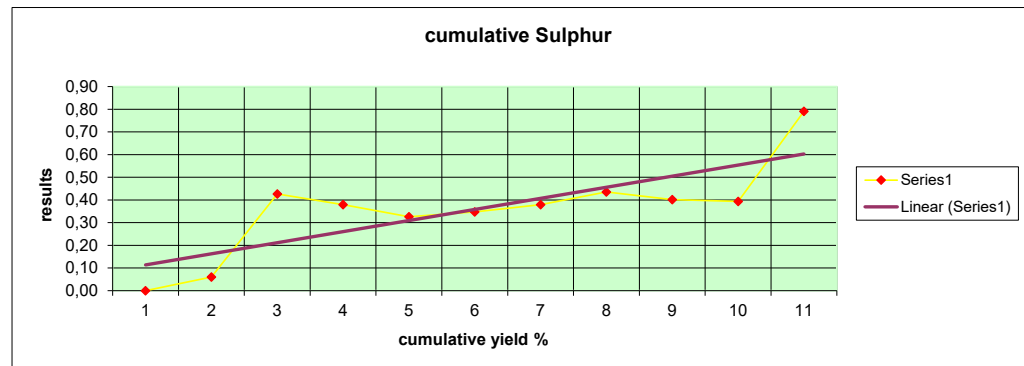
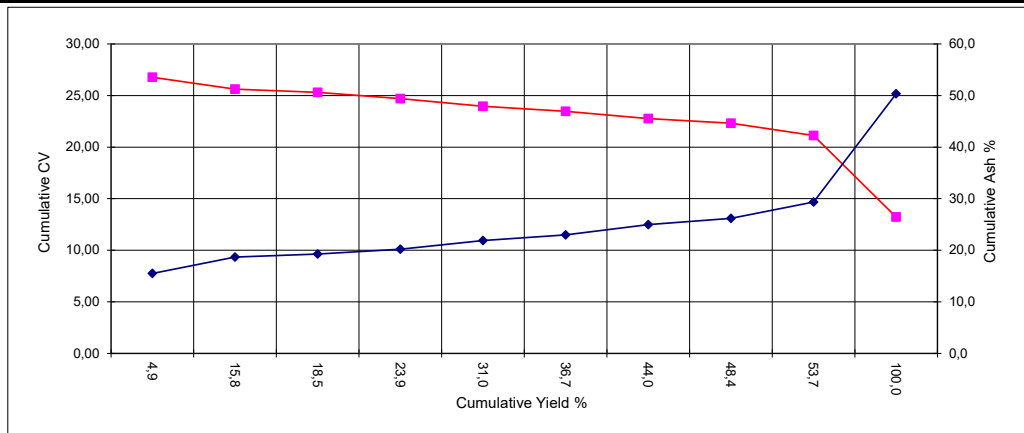
To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 310
Description	SZU C
Date	27/02/2013

Mass as Rec.	3,88
Thickness	
Rel.Dens.	
Total Mass	2,56
Raw Rel.Dens	1,90

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV %	Volatile %
9891	F 1.35	0,00	0,0								
9892	F 1.40	0,13	4,9	26,77	2,2	15,5	24,8	57,5	0,06	32,53	30,13
9893	F 1.45	0,28	11,0	25,10	3,4	20,1	22,2	54,3	0,59	32,81	29,02
9894	F 1.50	0,07	2,7	23,56	3,1	22,7	21,6	52,6	0,10	31,75	29,11
9895	F 1.55	0,14	5,3	22,55	3,6	23,5	19,8	53,1	0,14	30,93	27,16
9896	F 1.60	0,18	7,1	21,47	3,5	27,4	19,3	49,8	0,42	31,07	27,93
9897	F 1.65	0,15	5,7	20,89	2,5	29,0	18,3	50,2	0,55	30,50	26,72
9898	F 1.70	0,19	7,3	19,19	3,1	34,9	17,7	44,3	0,72	30,95	28,55
9899	F1.75	0,11	4,4	17,89	2,4	38,4	17,5	41,7	0,06	30,22	29,56
9900	F1.80	0,14	5,3	10,11	2,4	58,6	13,1	25,9	0,32	25,92	33,59
9901	S1.80	1,19	46,4	4,07	1,6	74,6	10,5	13,3	1,25	17,10	44,12

9890	RAW	1,07	100,0	13,27	2,1	52,7	16,2	29,0	0,73	29,36	35,84
9889	-0.5MM	0,20	100,0	21,05	1,8	68,3	13,5	16,4	0,82	70,40	45,15

Cumulative Calculation											
9891	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
9892	F 1.40	0,13	4,9	26,77	2,2	15,5	24,8	57,5	0,06	32,53	30,13
9893	F 1.45	0,41	15,8	25,61	3,0	18,7	23,0	55,3	0,43	32,72	29,38
9894	F 1.50	0,47	18,5	25,32	3,0	19,3	22,8	54,9	0,38	32,58	29,34
9895	F 1.55	0,61	23,9	24,70	3,2	20,2	22,1	54,5	0,33	32,23	28,88
9896	F 1.60	0,79	31,0	23,95	3,2	21,9	21,5	53,4	0,35	31,99	28,68
9897	F 1.65	0,94	36,7	23,48	3,1	23,0	21,0	52,9	0,38	31,77	28,40
9898	F 1.70	1,13	44,0	22,76	3,1	25,0	20,4	51,5	0,44	31,65	28,42
9899	F1.75	1,24	48,4	22,32	3,1	26,2	20,2	50,6	0,40	31,55	28,50
9900	F1.80	1,37	53,7	21,12	3,0	29,4	19,5	48,2	0,39	31,23	28,79
9901	S1.80	2,56	100,0	13,22	2,3	50,3	15,3	32,01	0,79	27,93	32,36



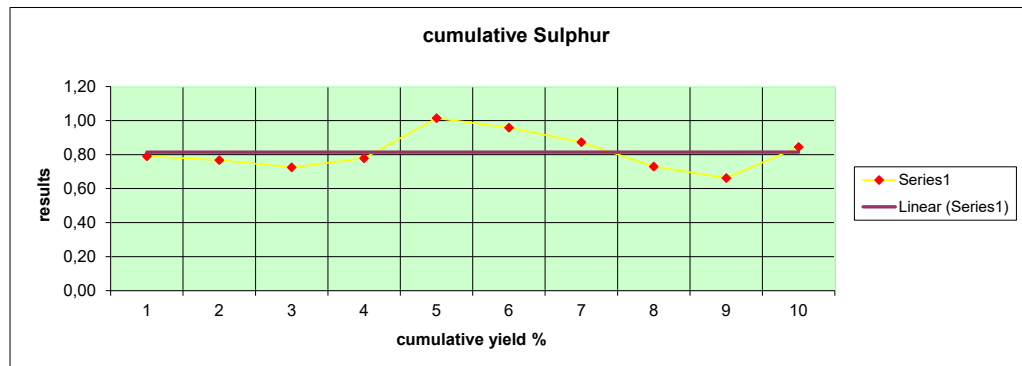
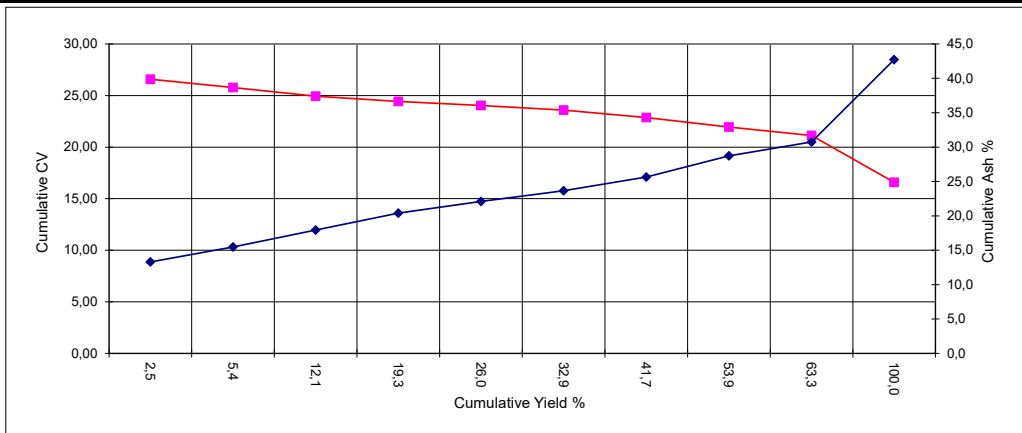




To	ZANDILE
MINE	ACMFC
SAMPLE	VLKP 310
Description	S4U (B)
Date	27/02/2013

Mass as Rec.	4,38
Thickness	
Rel.Dens.	
Total Mass	2,99
Raw Rel.Dens	1,75

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV %	Volatile %
9917	F 1.35	0,00	0,0								
9918	F 1.40	0,07	2,5	26,58	3,2	13,3	28,1	55,4	0,79	31,83	33,65
9919	F 1.45	0,09	3,0	25,12	3,1	17,3	25,7	53,9	0,75	31,56	32,29
9920	F 1.50	0,20	6,7	24,26	3,7	19,9	25,6	50,8	0,69	31,75	33,51
9921	F 1.55	0,22	7,2	23,58	2,9	24,6	22,5	50,0	0,87	32,52	31,03
9922	F 1.60	0,20	6,7	22,90	3,3	27,0	23,0	46,7	1,69	32,86	33,00
9923	F 1.65	0,21	6,9	21,89	3,2	29,5	20,7	46,6	0,75	32,53	30,76
9924	F 1.70	0,26	8,7	20,10	3,3	33,2	18,6	44,9	0,55	31,65	29,29
9925	F1.75	0,36	12,2	18,82	3,3	39,2	17,2	40,3	0,24	32,73	29,91
9926	F1.80	0,28	9,5	16,43	3,0	42,2	16,9	37,9	0,28	29,98	30,84
9927	S1.80	1,10	36,7	8,76	2,2	63,4	13,1	21,3	1,16	25,47	38,08
9916	RAW	2,10	100,0	16,61	2,8	42,7	17,6	36,9	0,41	30,48	32,29
9915	-0.5MM	0,26	100,0	15,93	2,7	41,7	18,0	37,6	0,42	28,65	32,37
Cumulative Calculation											
9917	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
9918	F 1.40	0,07	2,5	26,58	3,2	13,3	28,1	55,4	0,79	31,83	33,65
9919	F 1.45	0,16	5,4	25,78	3,1	15,5	26,8	54,6	0,77	31,69	32,92
9920	F 1.50	0,36	12,1	24,94	3,5	17,9	26,1	52,5	0,72	31,72	33,24
9921	F 1.55	0,58	19,3	24,43	3,2	20,4	24,8	51,6	0,78	32,01	32,46
9922	F 1.60	0,78	26,0	24,04	3,3	22,1	24,3	50,3	1,01	32,21	32,59
9923	F 1.65	0,98	32,9	23,59	3,2	23,7	23,6	49,5	0,96	32,27	32,24
9924	F 1.70	1,25	41,7	22,86	3,3	25,7	22,5	48,6	0,87	32,16	31,68
9925	F1.75	1,61	53,9	21,94	3,3	28,7	21,3	46,7	0,73	32,27	31,35
9926	F1.80	1,89	63,3	21,12	3,2	30,7	20,7	45,4	0,66	31,98	31,28
9927	S1.80	2,99	100,0	16,59	2,9	42,7	17,9	36,55	0,84	30,47	32,86



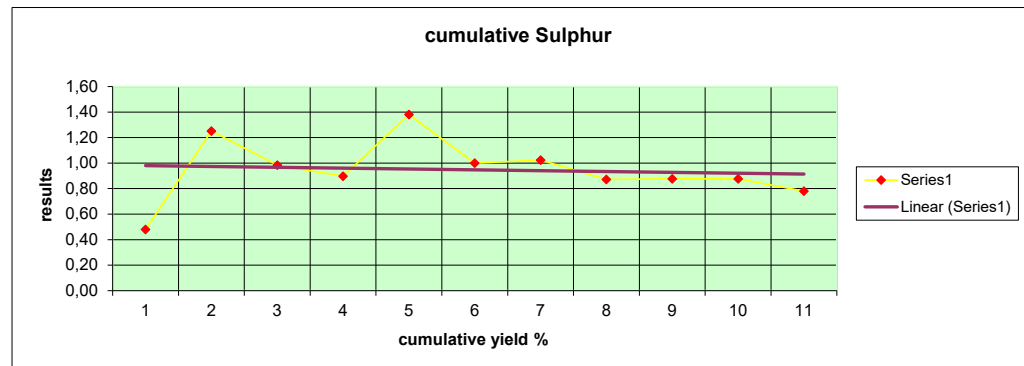
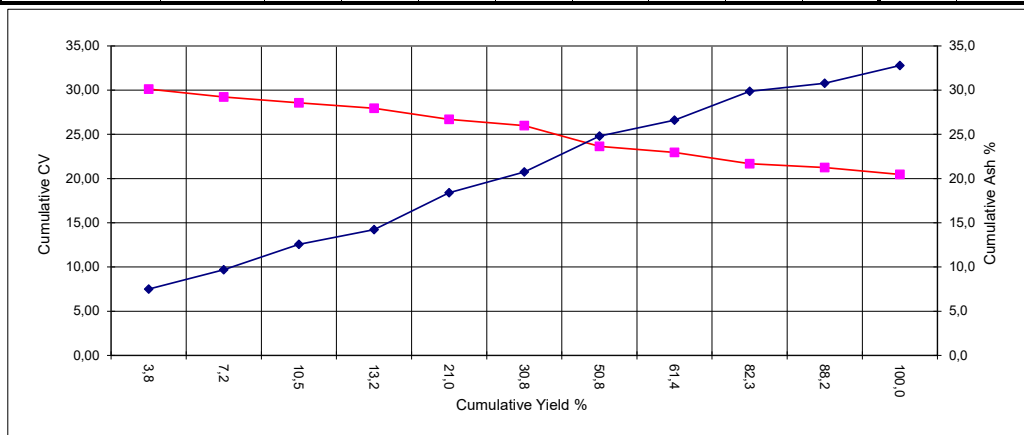


To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 311
Description	S2L (E)
Date	27/02/2013

Mass as Rec.	4,59
Thickness	
Rel.Dens.	
Total Mass	2,76
Raw Rel.Dens	1,64

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV %	Volatile %
10008	F 1.35	0,11	3,8	30,12	2,8	7,5	33,0	56,7	0,48	33,58	36,79
10009	F 1.40	0,09	3,3	28,22	2,8	12,2	30,0	55,0	2,13	33,20	35,29
10010	F 1.45	0,09	3,4	27,15	2,5	18,6	25,9	53,0	0,42	34,41	32,83
10011	F 1.50	0,07	2,7	25,55	2,7	20,7	24,0	52,6	0,56	33,36	31,33
10012	F 1.55	0,22	7,8	24,60	2,2	25,5	23,4	48,9	2,20	34,02	32,37
10013	F 1.60	0,27	9,8	24,42	2,4	25,8	20,8	51,0	0,18	34,01	28,97
10014	F 1.65	0,55	19,9	20,01	2,2	31,1	19,6	47,1	1,06	30,00	29,39
10015	F 1.70	0,29	10,7	19,74	2,0	35,2	18,9	43,9	0,15	31,43	30,10
10016	F1.75	0,58	20,9	17,88	2,0	39,4	18,5	40,1	0,89	30,51	31,57
10017	F1.80	0,16	5,9	15,40	1,9	43,6	18,3	36,2	0,88	28,26	33,58
10018	S1.80	0,33	11,8	14,62	1,3	47,8	17,8	33,1	0,06	28,72	34,97
10007	RAW	1,55	100,0	20,49	2,2	31,4	22,5	43,9	0,49	30,86	33,89
10006	-0.5MM	0,19	100,0	20,56	2,3	29,5	21,6	46,6	0,23	30,15	31,67

Cumulative Calculation											
10008	F 1.35	0,11	3,8	30,12	2,8	7,5	33,0	56,7	0,48	33,58	36,79
10009	F 1.40	0,20	7,2	29,23	2,8	9,7	31,6	55,9	1,25	33,41	36,11
10010	F 1.45	0,29	10,5	28,56	2,7	12,6	29,8	55,0	0,98	33,71	35,13
10011	F 1.50	0,37	13,2	27,95	2,7	14,2	28,6	54,5	0,90	33,64	34,41
10012	F 1.55	0,58	21,0	26,71	2,5	18,4	26,7	52,4	1,38	33,77	33,72
10013	F 1.60	0,85	30,8	25,98	2,5	20,8	24,8	52,0	1,00	33,84	32,31
10014	F 1.65	1,40	50,8	23,64	2,4	24,8	22,8	50,1	1,02	32,46	31,26
10015	F 1.70	1,70	61,4	22,96	2,3	26,6	22,1	49,0	0,87	32,30	31,08
10016	F1.75	2,27	82,3	21,67	2,2	29,9	21,2	46,7	0,88	31,91	31,19
10017	F1.80	2,44	88,2	21,25	2,2	30,8	21,0	46,0	0,88	31,71	31,32
10018	S1.80	2,76	100,0	20,47	2,1	32,8	20,6	44,5	0,78	31,44	31,65



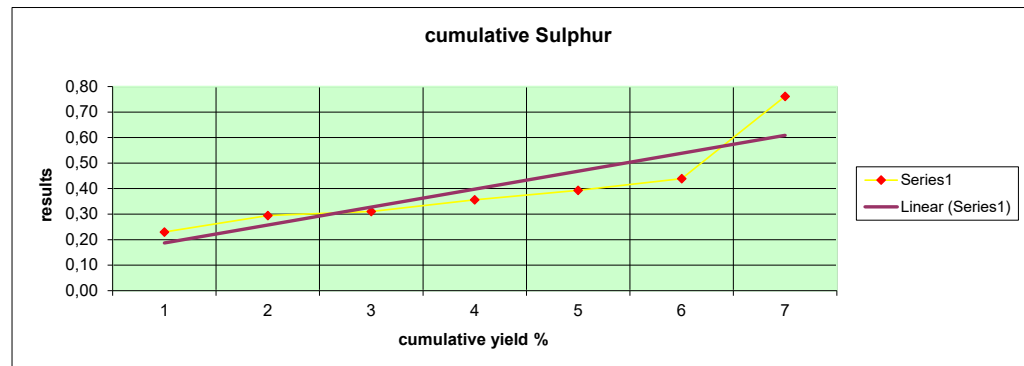
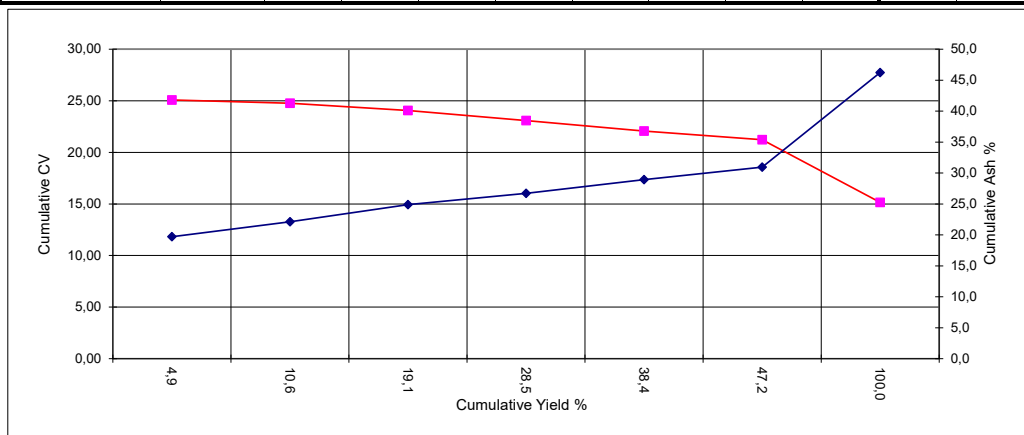


To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 311
Description	S2U (D)
Date	27/02/2013

Mass as Rec.	4,28
Thickness	
Rel.Dens.	
Total Mass	2,38
Raw Rel.Dens	1,80

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
10061	F 1.35	0,00	0,0								
10062	F 1.40	0,00	0,0								
10063	F 1.45	0,00	0,0								
10064	F 1.50	0,00	0,0								
10065	F 1.55	0,12	4,9	25,08	3,0	19,7	21,6	55,7	0,23	32,45	27,94
10066	F 1.60	0,14	5,7	24,49	3,0	24,2	19,7	53,1	0,35	33,64	27,06
10067	F 1.65	0,20	8,5	23,17	3,1	28,3	19,3	49,3	0,33	33,78	28,13
10068	F 1.70	0,22	9,4	21,10	3,1	30,5	18,3	48,1	0,45	31,78	27,56
10069	F1.75	0,24	9,9	19,16	2,9	35,3	17,4	44,4	0,50	31,00	28,16
10070	F1.80	0,21	8,8	17,56	2,7	39,7	17,1	40,5	0,64	30,49	29,69
10071	S1.80	1,26	52,8	9,72	2,0	59,9	14,1	24,0	1,05	25,51	37,01
10060	RAW	1,62	100,0	15,04	2,7	47,4	16,3	33,6	0,55	30,14	32,67
10059	-0.5MM	0,25	100,0	15,90	2,7	42,0	15,7	39,6	0,64	28,75	28,39

Cumulative Calculation											
10061	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10062	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10063	F 1.45	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10064	F 1.50	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10065	F 1.55	0,12	4,9	25,08	3,0	19,7	21,6	55,7	0,23	32,45	27,94
10066	F 1.60	0,25	10,6	24,76	3,0	22,1	20,6	54,3	0,29	33,07	27,48
10067	F 1.65	0,45	19,1	24,05	3,0	24,9	20,0	52,1	0,31	33,37	27,76
10068	F 1.70	0,68	28,5	23,08	3,1	26,7	19,4	50,8	0,36	32,87	27,70
10069	F1.75	0,91	38,4	22,07	3,0	28,9	18,9	49,1	0,39	32,43	27,80
10070	F1.80	1,12	47,2	21,23	3,0	30,9	18,6	47,5	0,44	32,12	28,11
10071	S1.80	2,38	100,0	15,15	2,5	46,2	16,2	35,1	0,76	29,53	31,60

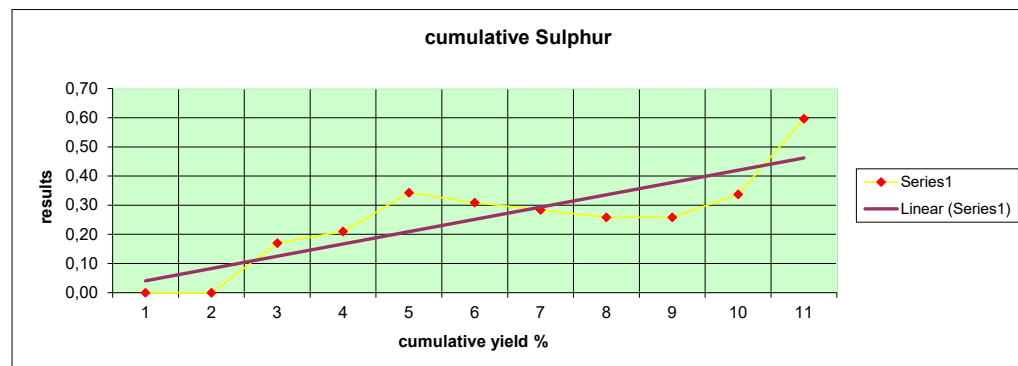
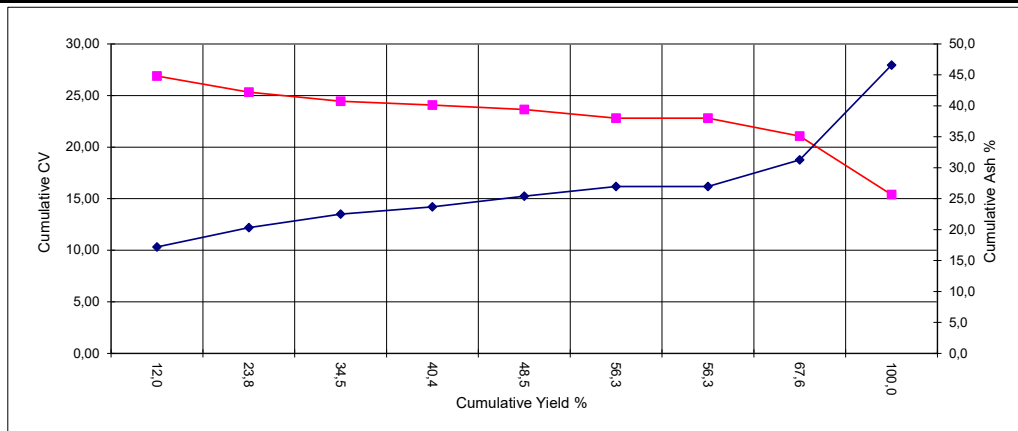




To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 311
Description	S4U (B)
Date	27/02/2013

Mass as Rec.	4,66
Thickness	
Rel.Dens.	
Total Mass	2,53
Raw Rel.Dens	1,80

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
9850	F 1.35	0,00	0,0								
9851	F 1.40	0,00	0,0								
9852	F 1.45	0,30	12,0	26,89	3,8	17,2	27,3	51,7	0,17	34,04	34,56
9853	F 1.50	0,30	11,9	23,75	4,1	23,5	26,1	46,3	0,25	32,80	36,05
9854	F 1.55	0,27	10,6	22,45	3,4	27,4	24,3	44,9	0,64	32,44	35,12
9855	F 1.60	0,15	5,9	21,95	3,5	30,4	23,6	42,5	0,11	33,21	35,70
9856	F 1.65	0,20	8,1	21,55	3,7	34,0	22,5	39,8	0,16	34,59	36,12
9857	F 1.70	0,20	7,8	17,62	3,9	36,8	21,6	37,7	0,10	29,71	36,42
9858	F1.75	0,00	0,0								
9859	F1.80	0,29	11,3	12,41	3,6	52,7	17,3	26,4	0,73	28,40	39,59
9860	S1.80	0,82	32,3	3,50	2,5	78,6	16,3	2,6	1,14	18,52	86,24
9849	RAW	1,81	100,0	15,25	2,5	46,4	22,0	29,1	0,75	29,84	43,05
9848	-0.5MM	0,26	100,0	16,18	2,7	42,5	18,7	36,1	0,25	29,53	34,12
Cumulative Calculation											
9850	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
9851	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
9852	F 1.45	0,30	12,0	26,89	3,8	17,2	27,3	51,7	0,17	34,04	34,56
9853	F 1.50	0,60	23,8	25,33	3,9	20,3	26,7	49,0	0,21	33,45	35,27
9854	F 1.55	0,87	34,5	24,44	3,8	22,5	26,0	47,7	0,34	33,16	35,22
9855	F 1.60	1,02	40,4	24,08	3,7	23,7	25,6	47,0	0,31	33,16	35,29
9856	F 1.65	1,23	48,5	23,65	3,7	25,4	25,1	45,8	0,28	33,37	35,41
9857	F 1.70	1,43	56,3	22,81	3,8	27,0	24,6	44,7	0,26	32,94	35,53
9858	F1.75	1,43	56,3	22,81	3,8	27,0	24,6	44,7	0,26		
9859	F1.80	1,71	67,6	21,07	3,7	31,3	23,4	41,6	0,34	32,43	35,99
9860	S1.80	2,53	100,0	15,39	3,3	46,6	21,1	29,0	0,60	30,73	42,12

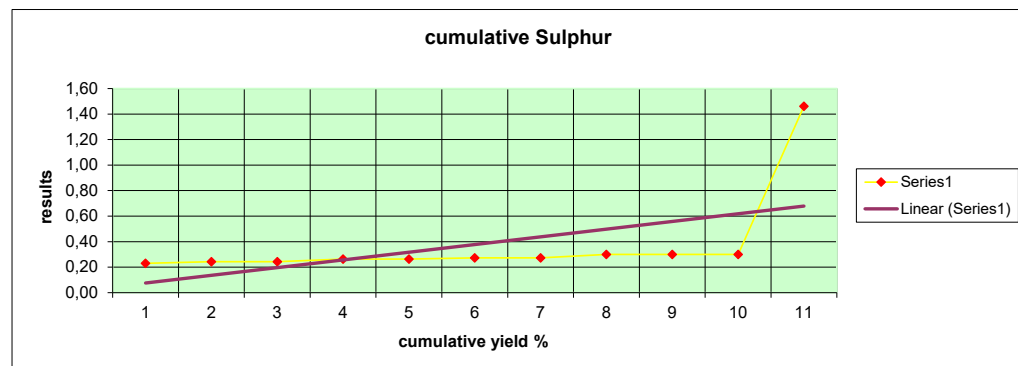
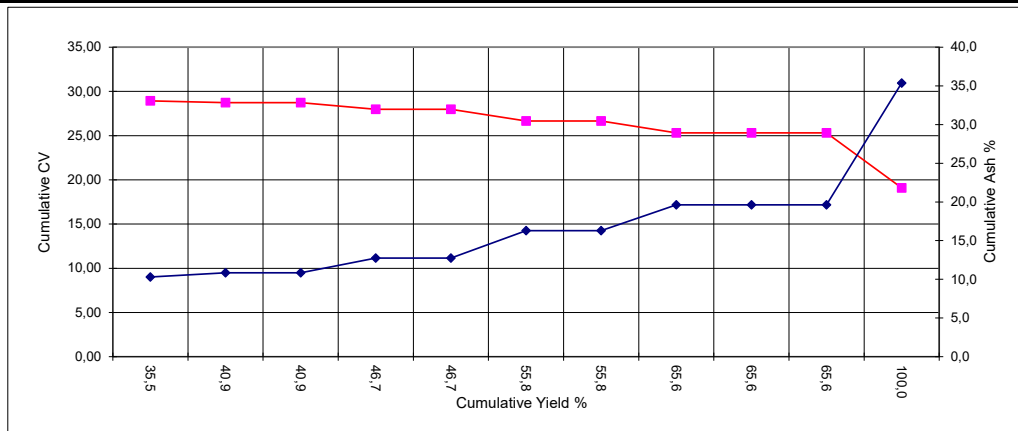




To	ZANDILE
MINE	ACMFC
SAMPLE	VLKP 311
Description	S5 (A)
Date	27/02/2013

Mass as Rec.	2,40
Thickness	
Rel.Dens.	
Total Mass	1,33
Raw Rel.Dens	1,68

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
10100	F 1.35	0,47	35,5	28,93	1,5	10,3	21,8	66,4	0,23	32,80	24,72
10001	F 1.40	0,07	5,4	27,35	1,5	14,3	19,8	64,4	0,33	32,48	23,52
10102	F 1.45	0,00	0,0								
10103	F 1.50	0,08	5,7	22,63	1,7	26,5	17,8	54,0	0,41	31,52	24,79
10104	F 1.55	0,00	0,0								
10105	F 1.60	0,12	9,1	19,87	1,5	34,5	15,2	48,8	0,32	31,05	23,75
10106	F 1.65	0,00	0,0								
10107	F 1.70	0,13	9,9	17,77	1,7	38,5	10,2	49,6	0,45	29,72	17,06
10108	F1.75	0,00	0,0								
10109	F1.80	0,00	0,0								
10110	S1.80	0,46	34,4	7,22	0,9	65,4	9,3	24,4	3,68	21,42	27,60
				7,57							
10099	RAW	0,78	100,0	18,42	1,4	35,8	17,6	45,2	1,55	29,33	28,03
10098	-0.5MM	0,25	100,0	18,53	1,6	38,1	16,0	44,3	0,42	30,73	26,53
Cumulative Calculation											
10100	F 1.35	0,47	35,5	28,93	1,5	10,3	21,8	66,4	0,23	32,80	24,72
10001	F 1.40	0,54	40,9	28,72	1,5	10,8	21,5	66,1	0,24	32,76	24,56
10102	F 1.45	0,54	40,9	28,72	1,5	10,8	21,5	66,1	0,24		
10103	F 1.50	0,62	46,7	27,97	1,5	12,7	21,1	64,6	0,26	32,63	24,59
10104	F 1.55	0,62	46,7	27,97	1,5	12,7	21,1	64,6	0,26		
10105	F 1.60	0,74	55,8	26,65	1,5	16,3	20,1	62,1	0,27	32,43	24,48
10106	F 1.65	0,74	55,8	26,65	1,5	16,3	20,1	62,1	0,27		
10107	F 1.70	0,87	65,6	25,32	1,5	19,6	18,6	60,2	0,30	32,12	23,63
10108	F1.75	0,87	65,6	25,32	1,5	19,6	18,6	60,2	0,30		
10109	F1.80	0,87	65,6	25,32	1,5	19,6	18,6	60,2	0,30		
10110	S1.80	1,33	100,0	19,09	1,3	35,4	15,4	47,88	1,46	30,16	24,36

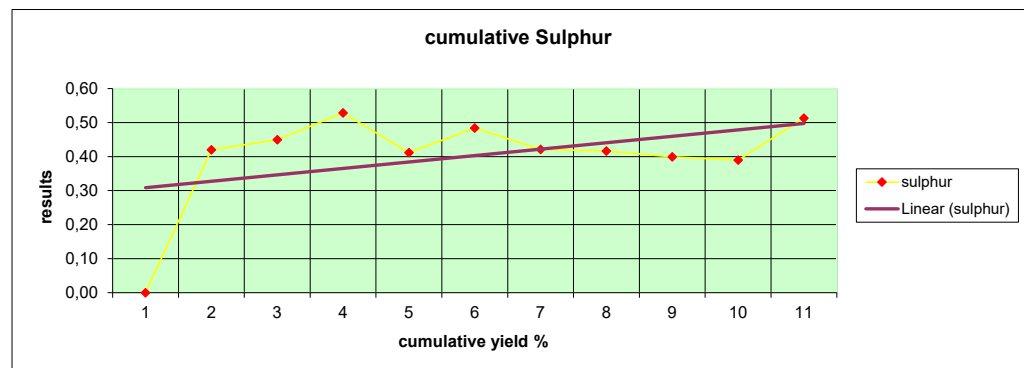
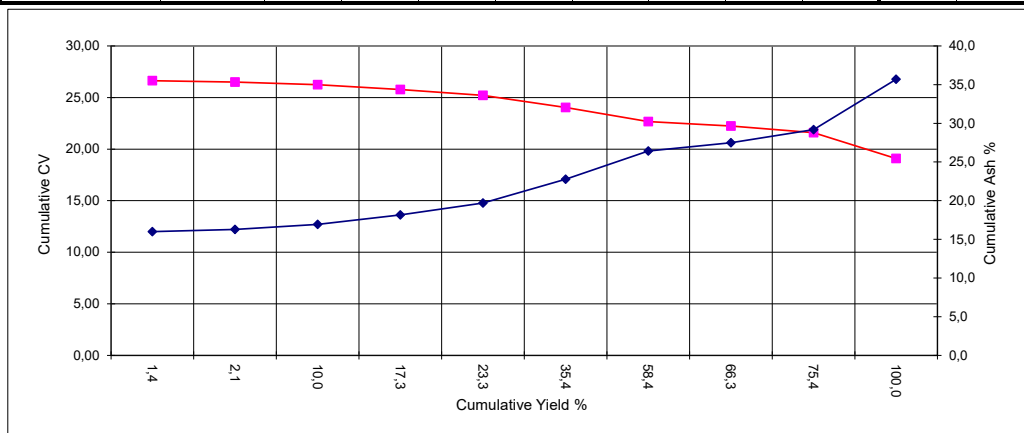




To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP312
Description	S2L e
Date	28/02/2013

Mass as Rec.	8,90
Thickness	
Rel.Dens.	
Total Mass	3,99
Raw Rel.Dens	1,66

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV %	Volatile %
44254	F 1.35	0,00	0,0								
44255	F 1.40	0,05	1,4	26,63	3,5	16,0	25,1	55,4	0,42	33,08	31,18
44256	F 1.45	0,03	0,8	26,30	4,1	16,8	24,3	54,8	0,50	33,25	30,72
44257	F 1.50	0,32	7,9	26,18	2,3	17,1	22,3	58,3	0,55	32,48	27,67
44258	F 1.55	0,29	7,2	25,14	3,9	19,9	21,5	54,7	0,25	32,99	28,22
44259	F 1.60	0,24	6,0	23,56	3,8	24,1	21,4	50,7	0,69	32,68	29,68
44260	F 1.65	0,48	12,1	21,79	3,6	28,7	20,7	47,0	0,30	32,19	30,58
44261	F 1.70	0,92	23,0	20,55	3,6	32,0	20,5	43,9	0,41	31,91	31,83
44262	F1.75	0,31	7,9	19,14	3,2	35,5	20,1	41,2	0,27	31,22	32,79
44263	F1.80	0,36	9,1	16,82	3,1	41,5	17,5	37,9	0,32	30,36	31,59
44264	S1.80	0,98	24,6	11,41	2,4	55,6	16,2	25,8	0,89	27,17	38,57
44252	RAW	4,63	100,0	19,36	3,6	35,1	20,5	40,8	0,50	31,58	33,44
44253	-0.5MM	0,26	100,0	19,38	3,5	34,9	18,8	42,8	0,25	31,46	30,52
44254	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
44255	F 1.40	0,05	1,4	26,63	3,5	16,0	25,1	55,4	0,42	33,08	31,18
44256	F 1.45	0,09	2,1	26,51	3,7	16,3	24,8	55,2	0,45	33,14	31,01
44257	F 1.50	0,40	10,0	26,25	2,6	16,9	22,8	57,6	0,53	32,62	28,38
44258	F 1.55	0,69	17,3	25,79	3,1	18,2	22,3	56,4	0,41	32,77	28,31
44259	F 1.60	0,93	23,3	25,21	3,3	19,7	22,0	54,9	0,48	32,75	28,64
44260	F 1.65	1,41	35,4	24,04	3,4	22,8	21,6	52,2	0,42	32,57	29,25
44261	F 1.70	2,33	58,4	22,67	3,5	26,4	21,2	48,9	0,42	32,33	30,18
44262	F1.75	2,64	66,3	22,25	3,5	27,5	21,0	48,0	0,40	32,22	30,46
44263	F1.80	3,01	75,4	21,59	3,4	29,2	20,6	46,8	0,39	32,03	30,57
44264	S1.80	3,99	100,0	19,08	3,2	35,7	19,5	41,6	0,51	31,21	31,92





# TEST REPORT

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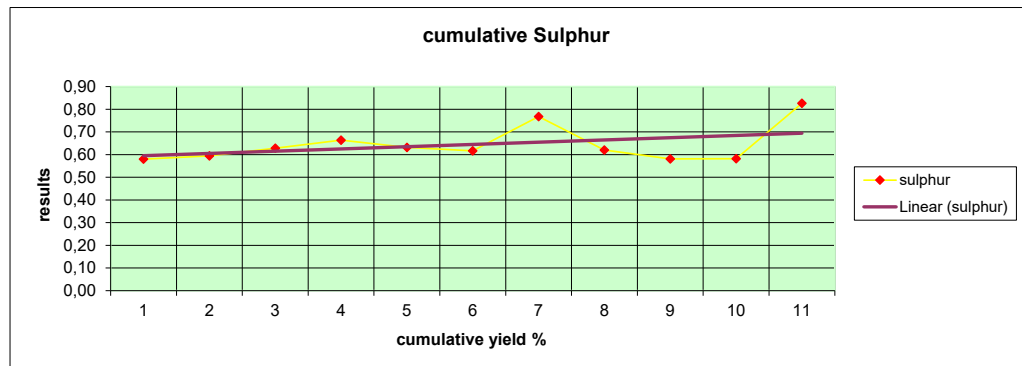
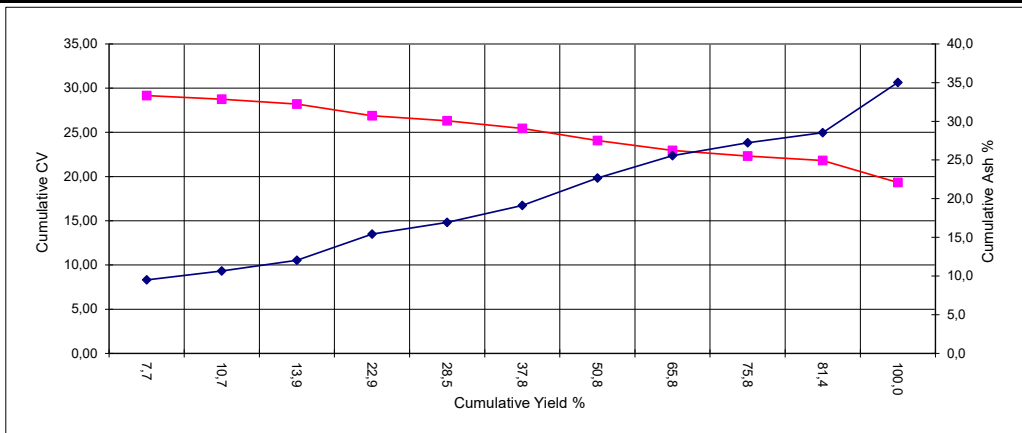
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP312
Description	S2U d
Date	28/02/2013

Mass as Rec.	10,05
Thickness	
Rel.Dens.	
Total Mass	5,04
Raw Rel.Dens	1,68

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV %	Volatile %
44241	F 1.35	0,39	7,7	29,16	3,0	9,5	27,4	60,1	0,58	33,33	31,31
44242	F 1.40	0,15	3,0	27,69	3,9	13,6	26,6	55,9	0,63	33,56	32,24
44243	F 1.45	0,16	3,2	26,41	4,6	16,6	26,4	52,4	0,74	33,52	33,50
44244	F 1.50	0,45	9,0	24,82	4,0	20,7	25,3	50,0	0,72	32,96	33,60
44245	F 1.55	0,28	5,6	23,95	3,9	23,1	25,2	47,8	0,50	32,81	34,52
44246	F 1.60	0,47	9,4	22,86	3,6	25,7	23,5	47,2	0,57	32,33	33,24
44247	F 1.65	0,65	13,0	20,04	3,5	33,0	23,3	40,2	1,21	31,56	36,69
44248	F 1.70	0,76	15,0	19,16	2,7	35,4	20,1	41,8	0,12	30,95	32,47
44249	F1.75	0,50	10,0	18,10	3,4	38,2	17,0	41,4	0,32	30,99	29,11
44250	F1.80	0,28	5,6	14,99	3,2	46,2	15,8	34,8	0,60	29,62	31,23
44251	S1.80	0,94	18,6	8,49	2,3	63,4	13,9	20,4	1,89	24,75	40,52
44239	RAW	4,60	100,0	18,72	3,6	36,5	20,6	39,3	0,91	31,25	34,39
44240	-0.5MM	0,39	100,0	18,41	1,7	37,4	13,0	47,9	2,91	30,23	21,35
Cumulative Calculation											
44241	F 1.35	0,39	7,7	29,16	3,0	9,5	27,4	60,1	0,58	33,33	31,31
44242	F 1.40	0,54	10,7	28,75	3,3	10,7	27,2	58,9	0,59	33,39	31,57
44243	F 1.45	0,70	13,9	28,20	3,6	12,0	27,0	57,4	0,63	33,42	31,99
44244	F 1.50	1,15	22,9	26,88	3,7	15,4	26,3	54,5	0,66	33,25	32,58
44245	F 1.55	1,44	28,5	26,30	3,8	16,9	26,1	53,2	0,63	33,17	32,93
44246	F 1.60	1,91	37,8	25,45	3,7	19,1	25,5	51,7	0,62	32,98	33,00
44247	F 1.65	2,56	50,8	24,07	3,7	22,7	24,9	48,8	0,77	32,67	33,81
44248	F 1.70	3,32	65,8	22,95	3,4	25,6	23,8	47,2	0,62	32,33	33,55
44249	F1.75	3,82	75,8	22,31	3,4	27,2	22,9	46,4	0,58	32,18	33,05
44250	F1.80	4,10	81,4	21,81	3,4	28,5	22,4	45,6	0,58	32,05	32,96
44251	S1.80	5,04	100,0	19,33	3,2	35,0	20,8	40,9	0,83	31,29	33,74







# TEST REPORT

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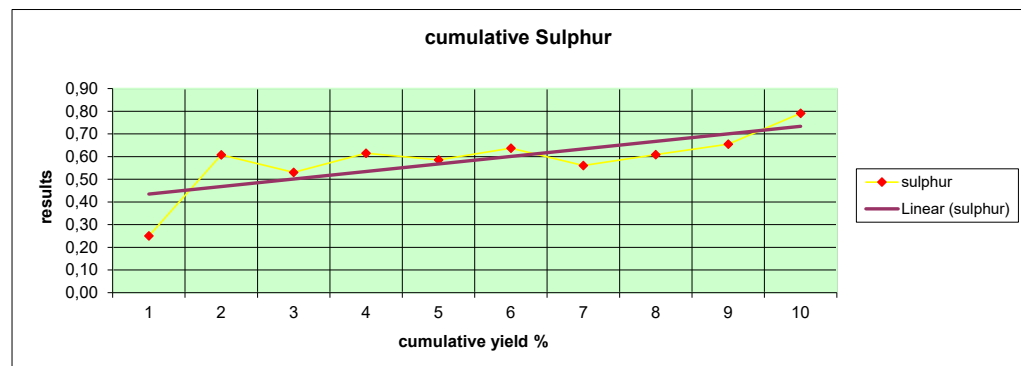
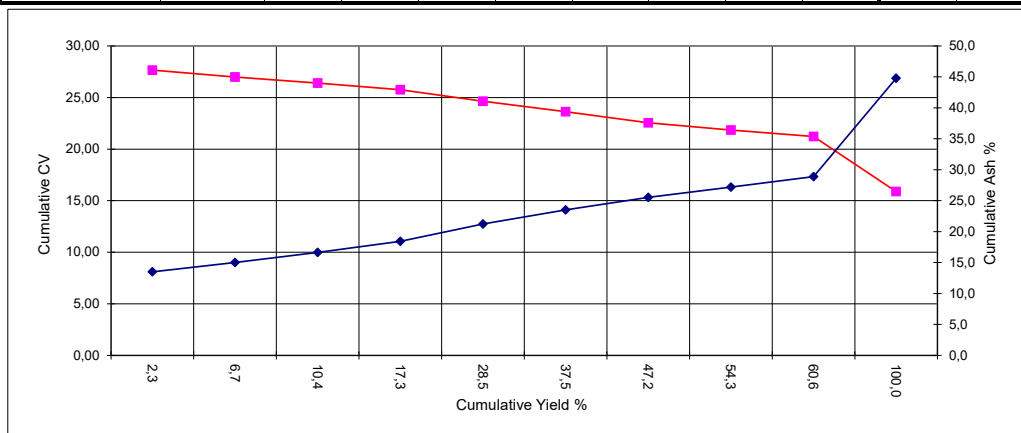
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP312
Description	S4LU c
Date	28/02/2013

Mass as Rec.	10,30
Thickness	
Rel.Dens.	
Total Mass	4,83
Raw Rel.Dens	1,80

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV %	Volatile %
44689	F 1.35	0,00	0,0								
44690	F 1.40	0,11	2,3	27,66	4,0	13,5	27,4	55,1	0,25	33,53	33,21
44691	F 1.45	0,21	4,4	26,62	4,5	15,8	23,8	55,9	0,80	33,40	29,86
44692	F 1.50	0,18	3,7	25,35	4,6	19,6	22,5	53,3	0,39	33,44	29,68
44693	F 1.55	0,34	6,9	24,78	4,7	21,1	21,0	53,2	0,74	33,40	28,30
44694	F 1.60	0,54	11,2	22,91	4,5	25,6	20,3	49,6	0,54	32,78	29,04
44695	F 1.65	0,44	9,1	20,45	3,8	30,7	19,8	45,7	0,80	31,22	30,23
44696	F 1.70	0,46	9,6	18,31	4,0	33,4	17,9	44,7	0,26	29,25	28,59
44697	F1.75	0,34	7,1	17,26	3,4	38,1	17,4	41,1	0,93	29,50	29,74
44698	F1.80	0,31	6,4	15,92	3,3	43,4	16,7	36,6	1,05	29,87	31,33
44699	S1.80	1,90	39,4	7,66	2,4	69,2	14,3	14,1	1,00	26,97	50,35
44686	RAW	5,21	100,0	14,85	3,5	46,7	17,9	31,9	0,66	29,82	35,94
44687	-0.5MM	0,23	100,0	16,89	4,3	41,8	17,6	36,3	0,05	31,34	32,65
Cumulative Calculation											
44689	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
44690	F 1.40	0,11	2,3	27,66	4,0	13,5	27,4	55,1	0,25	33,53	33,21
44691	F 1.45	0,32	6,7	26,98	4,3	15,0	25,1	55,6	0,61	33,45	31,06
44692	F 1.50	0,50	10,4	26,41	4,4	16,6	24,2	54,8	0,53	33,44	30,59
44693	F 1.55	0,84	17,3	25,75	4,5	18,4	22,9	54,2	0,61	33,43	29,71
44694	F 1.60	1,38	28,5	24,64	4,5	21,2	21,9	52,4	0,59	33,19	29,46
44695	F 1.65	1,81	37,5	23,63	4,3	23,5	21,4	50,8	0,64	32,76	29,63
44696	F 1.70	2,28	47,2	22,54	4,3	25,5	20,7	49,5	0,56	32,12	29,44
44697	F1.75	2,62	54,3	21,85	4,2	27,2	20,2	48,4	0,61	31,83	29,48
44698	F1.80	2,93	60,6	21,23	4,1	28,9	19,9	47,2	0,66	31,66	29,63
44699	S1.80	4,83	100,0	15,88	3,4	44,8	17,7	34,1	0,79	30,65	34,11
										0,00	0,00

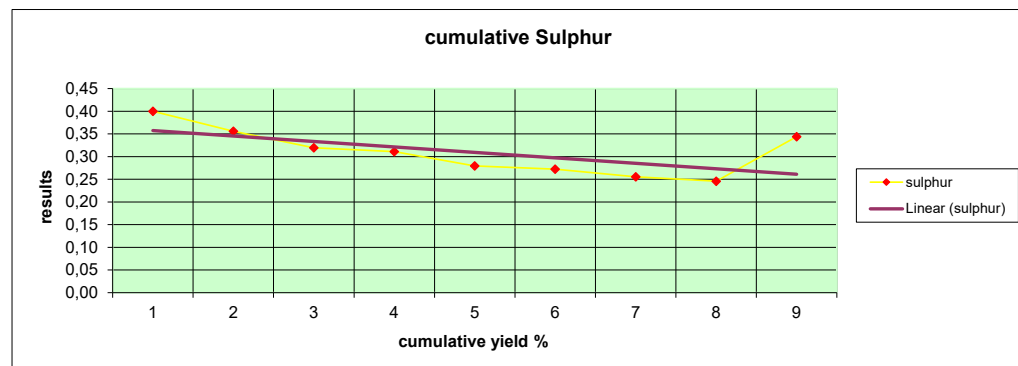
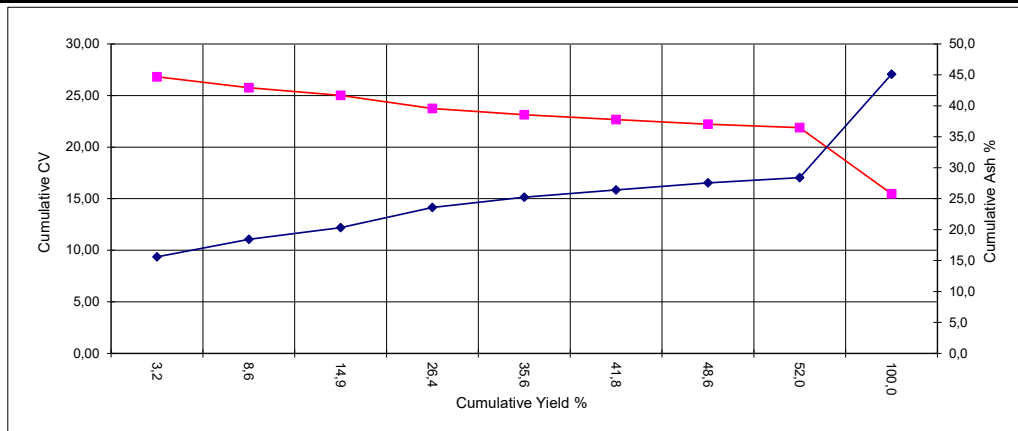




To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 312
Description	S4u b
Date	28/02/2013

Mass as Rec.	8,90
Thickness	
Rel.Dens.	
Total Mass	8,58
Raw Rel.Dens	1,77

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
44280	F 1.35	0,00	0,0								
44281	F 1.40	0,00	0,0								
44282	F 1.45	0,27	3,2	26,82	3,3	15,6	25,8	55,3	0,40	33,07	31,81
44283	F 1.50	0,46	5,4	25,14	3,1	20,1	24,1	52,7	0,33	32,73	31,38
44284	F 1.55	0,54	6,3	23,99	4,0	22,9	22,0	51,1	0,27	32,82	30,10
44285	F 1.60	0,98	11,5	22,10	3,6	27,8	21,4	47,2	0,30	32,22	31,20
44286	F 1.65	0,79	9,2	21,38	3,7	30,0	20,8	45,5	0,19	32,25	31,37
44287	F 1.70	0,53	6,2	20,00	3,9	33,1	20,1	42,9	0,23	31,75	31,90
44288	F1.75	0,58	6,8	19,41	3,5	34,7	20,0	41,8	0,15	31,41	32,36
44289	F1.80	0,29	3,4	17,22	3,8	40,3	19,3	36,6	0,11	30,81	34,53
44290	S1.80	4,12	48,0	8,53	3,6	63,2	14,8	18,4	0,45	25,69	44,58
44278	RAW	0,23	100,0	15,74	2,8	44,3	18,0	34,9	0,63	29,75	34,03
44279	-0.5MM	0,06	100,0	14,99	3,2	46,3	18,7	31,8	0,43	29,68	37,03
44280	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
44281	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
44282	F 1.45	0,27	3,2	26,82	3,3	15,6	25,8	55,3	0,40	33,07	31,81
44283	F 1.50	0,74	8,6	25,76	3,2	18,4	24,7	53,7	0,36	32,86	31,55
44284	F 1.55	1,28	14,9	25,01	3,5	20,3	23,6	52,6	0,32	32,84	30,95
44285	F 1.60	2,26	26,4	23,74	3,6	23,6	22,6	50,2	0,31	32,59	31,05
44286	F 1.65	3,06	35,6	23,13	3,6	25,2	22,2	49,0	0,28	32,51	31,13
44287	F 1.70	3,59	41,8	22,67	3,6	26,4	21,8	48,1	0,27	32,40	31,23
44288	F1.75	4,17	48,6	22,21	3,6	27,6	21,6	47,2	0,26	32,28	31,37
44289	F1.80	4,46	52,0	21,89	3,6	28,4	21,4	46,5	0,25	32,20	31,54
44290	S1.80	8,58	100,0	15,47	3,6	45,1	18,3	33,0	0,34	30,18	35,60





# TEST REPORT

Siza Coal Laboratory

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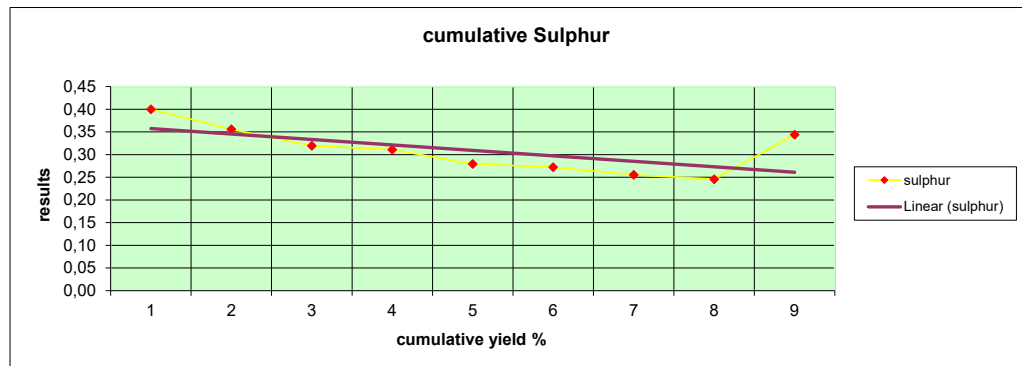
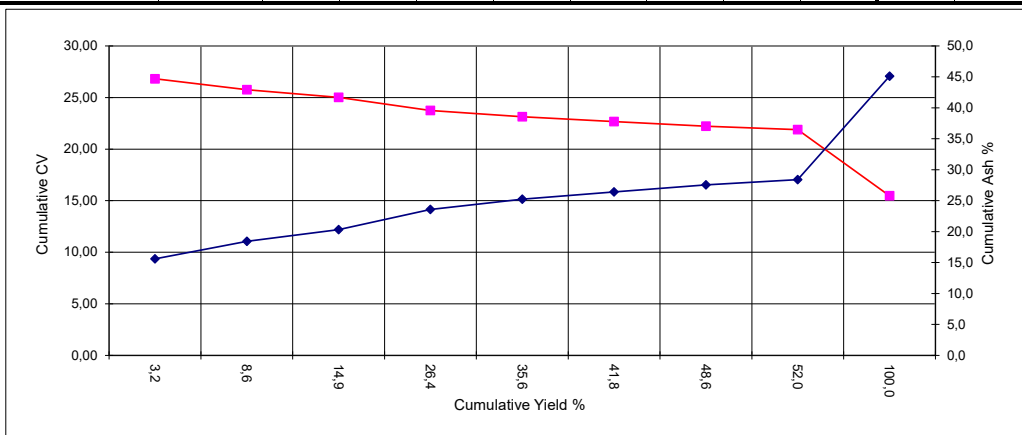
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 312
Description	S4u b
Date	28/02/2013

Mass as Rec.	8,90
Thickness	
Rel.Dens.	
Total Mass	8,58
Raw Rel.Dens	1,77

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatiles %
44280	F 1.35	0,00	0,0								
44281	F 1.40	0,00	0,0								
44282	F 1.45	0,27	3,2	26,82	3,3	15,6	25,8	55,3	0,40	33,07	31,81
44283	F 1.50	0,46	5,4	25,14	3,1	20,1	24,1	52,7	0,33	32,73	31,38
44284	F 1.55	0,54	6,3	23,99	4,0	22,9	22,0	51,1	0,27	32,82	30,10
44285	F 1.60	0,98	11,5	22,10	3,6	27,8	21,4	47,2	0,30	32,22	31,20
44286	F 1.65	0,79	9,2	21,38	3,7	30,0	20,8	45,5	0,19	32,25	31,37
44287	F 1.70	0,53	6,2	20,00	3,9	33,1	20,1	42,9	0,23	31,75	31,90
44288	F1.75	0,58	6,8	19,41	3,5	34,7	20,0	41,8	0,15	31,41	32,36
44289	F1.80	0,29	3,4	17,22	3,8	40,3	19,3	36,6	0,11	30,81	34,53
44290	S1.80	4,12	48,0	8,53	3,6	63,2	14,8	18,4	0,45	25,69	44,58
44278	RAW	0,23	100,0	15,74	2,8	44,3	18,0	34,9	0,63	29,75	34,03
44279	-0.5MM	0,06	100,0	14,99	3,2	46,3	18,7	31,8	0,43	29,68	37,03
44280	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
44281	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
44282	F 1.45	0,27	3,2	26,82	3,3	15,6	25,8	55,3	0,40	33,07	31,81
44283	F 1.50	0,74	8,6	25,76	3,2	18,4	24,7	53,7	0,36	32,86	31,55
44284	F 1.55	1,28	14,9	25,01	3,5	20,3	23,6	52,6	0,32	32,84	30,95
44285	F 1.60	2,26	26,4	23,74	3,6	23,6	22,6	50,2	0,31	32,59	31,05
44286	F 1.65	3,06	35,6	23,13	3,6	25,2	22,2	49,0	0,28	32,51	31,13
44287	F 1.70	3,59	41,8	22,67	3,6	26,4	21,8	48,1	0,27	32,40	31,23
44288	F1.75	4,17	48,6	22,21	3,6	27,6	21,6	47,2	0,26	32,28	31,37
44289	F1.80	4,46	52,0	21,89	3,6	28,4	21,4	46,5	0,25	32,20	31,54
44290	S1.80	8,58	100,0	15,47	3,6	45,1	18,3	33,0	0,34	30,18	35,60





# TEST REPORT

Siza Coal Laboratory

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Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

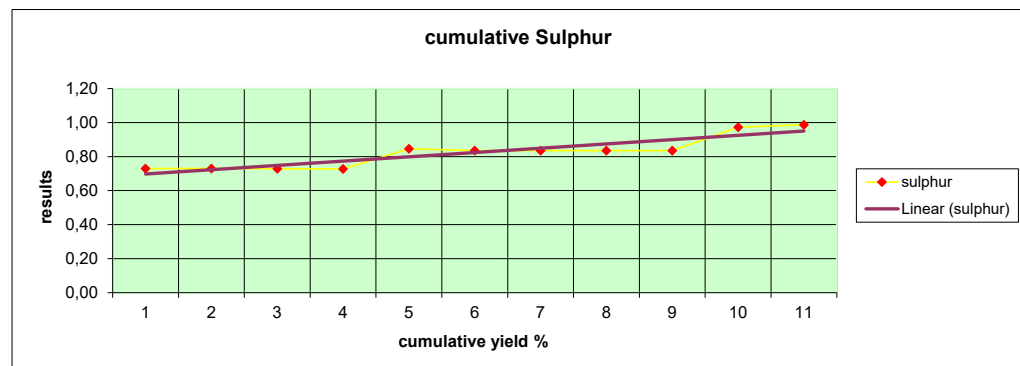
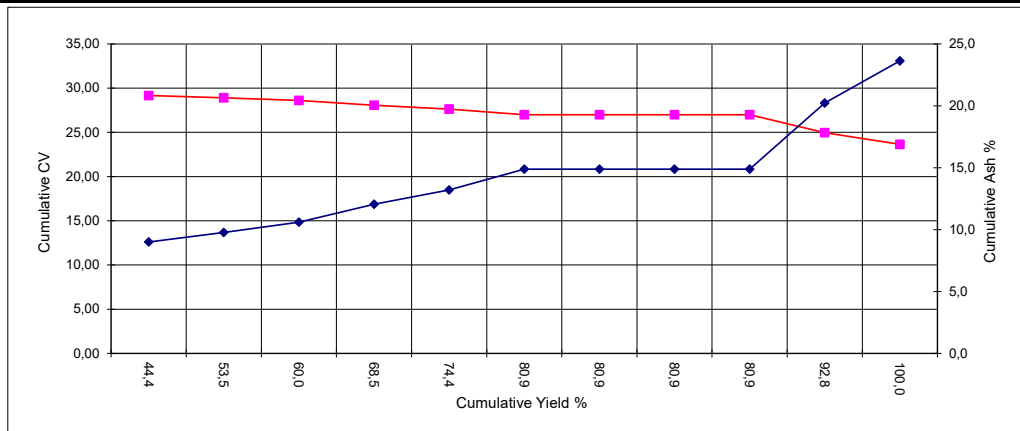
To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP312
Description	S5 a
Date	28/02/2013

Mass as Rec.	4,53
Thickness	
Rel.Dens.	
Total Mass	1,88
Raw Rel.Dens	1,54

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
44703	F 1.35	0,83	44,4	29,17	2,8	9,0	27,5	60,7	0,73	33,07	31,18
44704	F 1.40	0,17	9,1	27,63	3,6	13,5	26,9	56,0		33,33	32,45
44705	F 1.45	0,12	6,5	26,13	3,2	17,5	22,0	57,3	0,72	32,95	27,74
44706	F 1.50	0,16	8,6	24,31	3,1	22,2	18,4	56,3	0,72	32,54	24,63
44707	F 1.55	0,11	5,8	22,53	3,3	26,7	15,5	54,5	2,23	32,19	22,14
44708	F 1.60	0,12	6,5	19,77	2,7	34,1	12,4	50,8	0,72	31,28	19,62
44709	F 1.65	0,00	0,0								
44710	F 1.70	0,00	0,0								
44711	F1.75	0,00	0,0								
44712	F1.80	0,22	11,9	11,17	2,0	56,4	12,0	29,6	1,90	26,85	28,85
44713	S1.80	0,13	7,2	6,54	2,6	67,9	7,8	21,7	1,18	22,17	26,44

44700	RAW	2,24	100,0	23,52	2,9	24,3	20,6	52,2	0,99	32,31	28,30
44701	-0.5MM	0,18	100,0	17,83	2,7	39,1	19,0	39,2	1,90	30,64	32,65

Cumulative Calculation											
44703	F 1.35	0,83	44,4	29,17	2,8	9,0	27,5	60,7	0,73	33,07	31,18
44704	F 1.40	1,01	53,5	28,91	2,9	9,8	27,4	59,9	0,73	33,11	31,39
44705	F 1.45	1,13	60,0	28,61	3,0	10,6	26,8	59,6	0,73	33,10	31,02
44706	F 1.50	1,29	68,5	28,07	3,0	12,1	25,8	59,2	0,73	33,04	30,32
44707	F 1.55	1,40	74,4	27,64	3,0	13,2	25,0	58,8	0,85	32,98	29,79
44708	F 1.60	1,52	80,9	27,00	3,0	14,9	23,9	58,2	0,84	32,88	29,15
44709	F 1.65	1,52	80,9	27,00	3,0	14,9	23,9	58,2	0,84		
44710	F 1.70	1,52	80,9	27,00	3,0	14,9	23,9	58,2	0,84		
44711	F1.75	1,52	80,9	27,00	3,0	14,9	23,9	58,2	0,84		
44712	F1.80	1,75	92,8	24,97	2,9	20,2	22,4	54,5	0,97	32,46	29,13
44713	S1.80	1,88	100,0	23,65	2,8	23,6	21,4	52,2	0,99	32,16	29,06





# TEST REPORT

Siza Coal Laboratory

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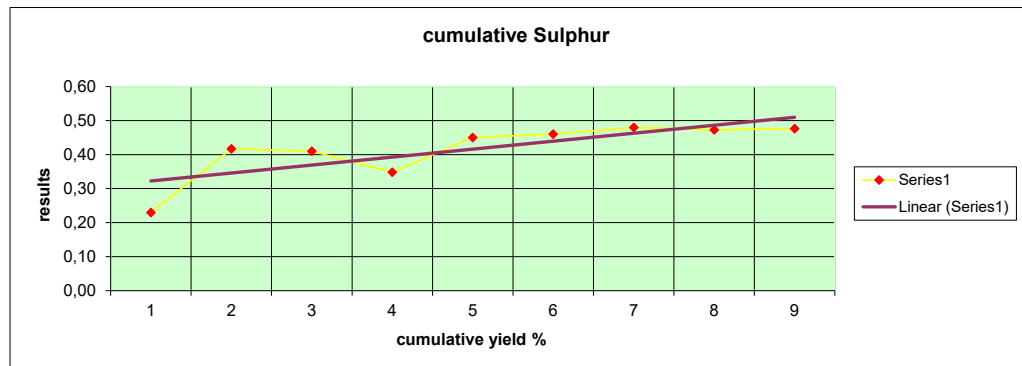
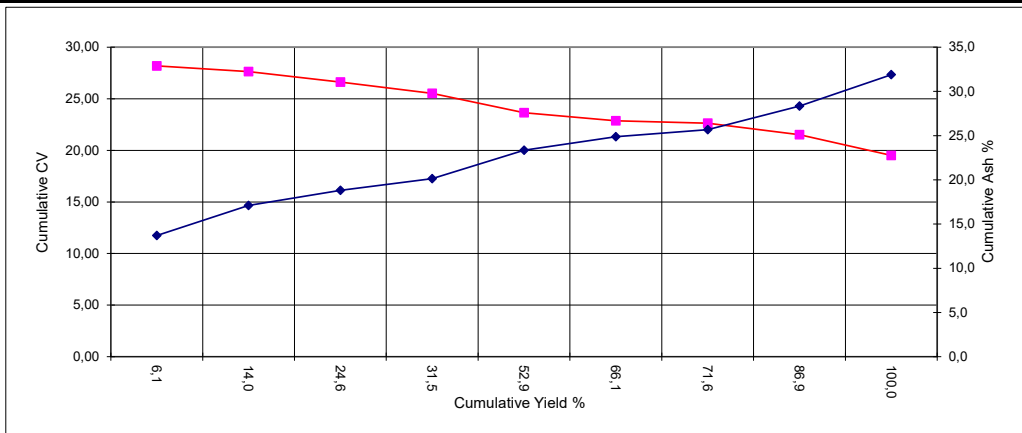
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 313
Description	S2L e
Date	28/02/2013

Mass as Rec.	3,88
Thickness	
Rel.Dens.	
Total Mass	3,34
Raw Rel.Dens	1,65

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
10353	F 1.35	0,00	0,0								
10354	F 1.40	0,00	0,0								
10355	F 1.45	0,20	6,1	28,19	4,2	13,7	26,3	55,8	0,23	34,34	32,03
10356	F 1.50	0,27	8,0	27,22	3,6	19,7	24,6	52,1	0,56	35,49	32,07
10357	F 1.55	0,35	10,6	25,26	4,0	21,1	21,5	53,4	0,40	33,72	28,70
10358	F 1.60	0,23	6,9	21,67	3,7	24,8	19,5	52,0	0,13	30,31	27,27
10359	F 1.65	0,71	21,4	20,87	3,6	28,1	19,4	48,9	0,60	30,56	28,40
10360	F 1.70	0,44	13,3	19,78	3,7	30,9	19,0	46,4	0,50	30,24	29,05
10361	F1.75	0,18	5,4	19,69	3,5	35,5	18,2	42,8	0,72	32,28	29,84
10362	F1.80	0,51	15,4	16,32	3,1	40,8	17,8	38,3	0,44	29,09	31,73
10363	S1.80	0,44	13,1	6,22	2,8	55,4	15,7	26,1	0,50	14,88	37,56
10352	RAW	0,25	100,0	19,20	3,1	32,0	18,2	46,7	0,43	29,58	28,04
10351	-0.5MM	0,25	100,0	20,51	3,4	38,0	18,0	40,6	0,02	35,00	30,72
10353	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10354	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10355	F 1.45	0,20	6,1	28,19	4,2	13,7	26,3	55,8	0,23	34,34	32,03
10356	F 1.50	0,47	14,0	27,64	3,9	17,1	25,3	53,7	0,42	34,97	32,06
10357	F 1.55	0,82	24,6	26,62	3,9	18,8	23,7	53,6	0,41	34,45	30,66
10358	F 1.60	1,05	31,5	25,53	3,9	20,1	22,8	53,2	0,35	33,60	29,96
10359	F 1.65	1,77	52,9	23,65	3,8	23,4	21,4	51,5	0,45	32,44	29,37
10360	F 1.70	2,21	66,1	22,87	3,7	24,9	20,9	50,5	0,46	32,04	29,31
10361	F1.75	2,39	71,6	22,63	3,7	25,7	20,7	49,9	0,48	32,06	29,35
10362	F1.80	2,90	86,9	21,52	3,6	28,3	20,2	47,8	0,47	31,62	29,69
10363	S1.80	3,34	100,0	19,51	3,5	31,9	19,6	45,0	0,48	30,20	30,36





# TEST REPORT

Siza Coal Laboratory

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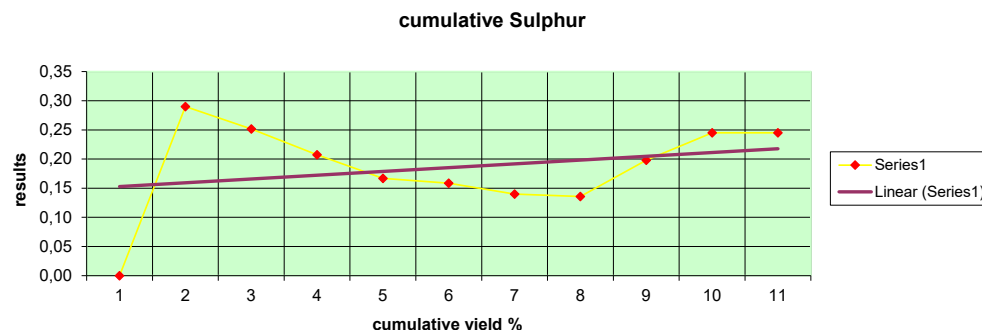
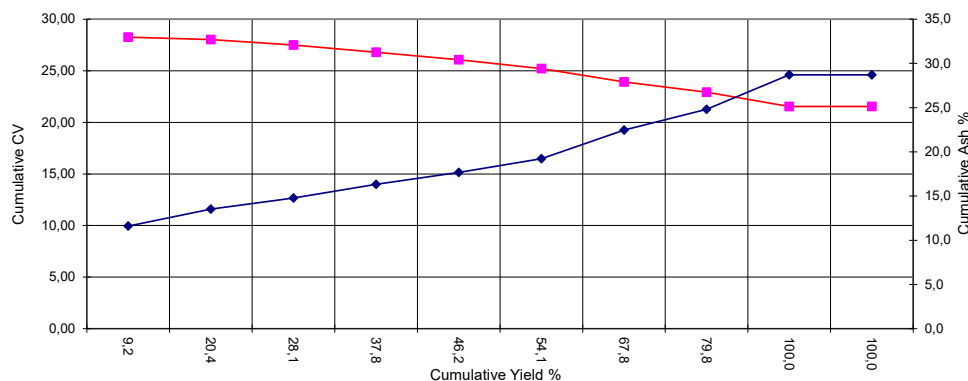
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 313
Description	S2U d
Date	28/02/2013

Mass as Rec.	9,04
Thickness	
Rel.Dens.	
Total Mass	3,07
Raw Rel.Dens	1,60

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatiles %
10380	F 1.35	0,00	0,0								
10381	F 1.40	0,28	9,2	28,26	3,5	11,6	28,2	56,7	0,29	33,29	33,22
10382	F 1.45	0,34	11,2	27,82	2,6	15,1	27,2	55,1	0,22	33,80	33,05
10383	F 1.50	0,24	7,7	26,10	3,0	18,1	26,6	52,3	0,09	33,08	33,71
10384	F 1.55	0,30	9,7	24,77	3,4	20,8	23,2	52,6	0,05	32,68	30,61
10385	F 1.60	0,26	8,4	22,80	3,3	23,8	21,6	51,3	0,12	31,28	29,63
10386	F 1.65	0,24	7,9	20,19	2,9	28,2	21,2	47,7	0,03	29,30	30,77
10387	F 1.70	0,42	13,7	18,83	2,8	35,3	17,6	44,3	0,12	30,42	28,43
10388	F1.75	0,37	12,0	17,28	2,4	38,1	17,3	42,2	0,55	29,04	29,08
10389	F1.80	0,62	20,2	16,07	2,4	44,1	16,5	37,0	0,43	30,04	30,84
10390	S1.80	0,00	0,0								
10379	RAW	5,51	100,0	21,33	1,7	28,8	21,1	48,4	0,52	30,69	30,36
10378	-0.5MM	0,43	100,0	17,47	2,4	40,4	19,3	37,9	0,61	30,54	33,74
10380	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10381	F 1.40	0,28	9,2	28,26	0,0	11,6	28,2	56,7	0,29	31,97	31,90
10382	F 1.45	0,63	20,4	28,02	1,4	13,5	27,7	55,8	0,25	32,94	32,51
10383	F 1.50	0,86	28,1	27,49	1,9	14,8	27,4	54,9	0,21	32,98	32,82
10384	F 1.55	1,16	37,8	26,80	2,3	16,3	26,3	54,3	0,17	32,91	32,30
10385	F 1.60	1,42	46,2	26,07	2,4	17,7	25,4	53,7	0,16	32,64	31,85
10386	F 1.65	1,66	54,1	25,21	2,5	19,2	24,8	52,9	0,14	32,21	31,71
10387	F 1.70	2,08	67,8	23,93	2,6	22,5	23,4	51,1	0,14	31,91	31,17
10388	F1.75	2,45	79,8	22,93	2,5	24,8	22,5	49,8	0,20	31,56	30,91
10389	F1.80	3,07	100,0	21,54	2,5	28,7	21,3	47,2	0,24	31,32	30,90
10390	S1.80	3,07	100,0	21,54	2,5	28,7	21,3	47,2	0,24		





# TEST REPORT

Siza Coal Laboratory

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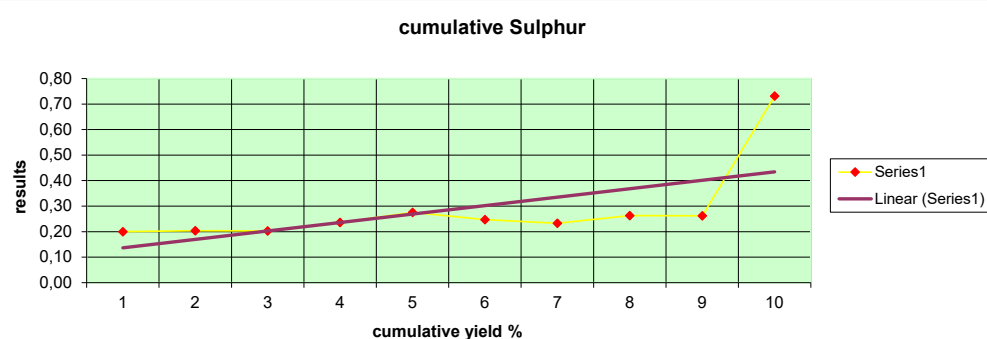
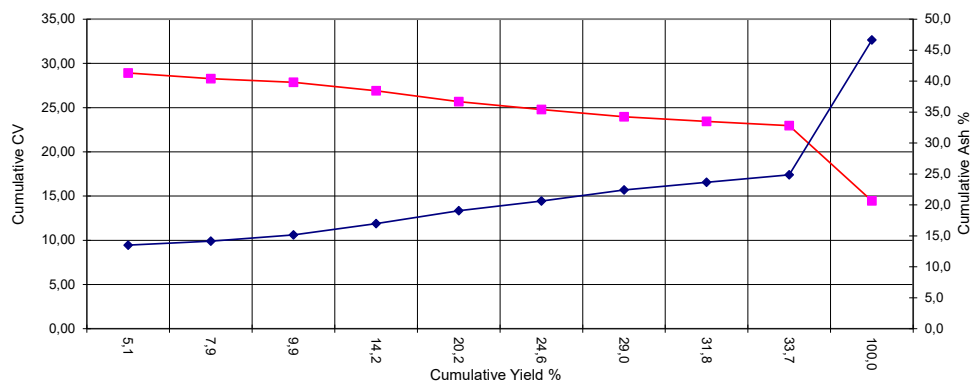
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 313
Description	S4LU c
Date	17-Jun-04

Mass as Rec.	8,54
Thickness	
Rel.Dens.	
Total Mass	6,08
Raw Rel.Dens	1,80

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
10340	F 1.35	0,00	0,0								
10341	F 1.40	0,31	5,1	28,92	4,9	13,5	25,1	56,5	0,20	35,44	30,76
10342	F 1.45	0,17	2,8	27,12	4,1	15,3	23,0	57,6	0,21	33,65	28,54
10343	F 1.50	0,12	1,9	26,12	4,0	19,4	21,4	55,2	0,20	34,10	27,94
10344	F 1.55	0,27	4,4	24,72	4,5	21,1	21,2	53,2	0,31	33,23	28,49
10345	F 1.60	0,36	5,9	22,73	4,2	24,0	18,9	52,9	0,37	31,66	26,32
10346	F 1.65	0,27	4,4	20,75	4,2	27,8	17,1	50,9	0,12	30,51	25,15
10347	F 1.70	0,27	4,4	19,41	3,6	32,4	16,6	47,4	0,15	30,33	25,94
10348	F1.75	0,17	2,7	17,88	3,5	36,9	15,8	43,8	0,59	30,00	26,51
10349	F1.80	0,12	1,9	14,92	3,1	44,9	14,6	37,4	0,25	28,69	28,08
10350	S1.80	4,03	66,3	10,13	2,5	57,7	12,3	27,5	0,97	25,45	30,90
10339	RAW	2,34	100,0	14,58	3,8	46,5	14,4	35,3	0,82	29,34	28,97
10338	-0.5MM	0,10	100,0	21,79	3,8	28,4	20,9	46,9	0,63	32,14	30,83
10340	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		29,02
10341	F 1.40	0,31	5,1	28,92	0,0	13,5	25,1	56,5	0,20		28,85
10342	F 1.45	0,48	7,9	28,28	1,4	14,1	24,4	56,9	0,20	33,51	28,69
10343	F 1.50	0,60	9,9	27,86	1,9	15,2	23,8	56,6	0,20	33,61	28,63
10344	F 1.55	0,87	14,2	26,90	2,7	17,0	23,0	55,5	0,24	33,50	28,01
10345	F 1.60	1,23	20,2	25,67	3,2	19,0	21,8	54,8	0,28	33,00	27,55
10346	F 1.65	1,50	24,6	24,79	3,3	20,6	20,9	54,1	0,25	32,60	27,33
10347	F 1.70	1,77	29,0	23,97	3,4	22,4	20,3	53,0	0,23	32,30	27,28
10348	F1.75	1,93	31,8	23,44	3,4	23,7	19,9	52,3	0,26	32,14	27,31
10349	F1.80	2,05	33,7	22,96	3,4	24,9	19,6	51,4	0,26	32,00	28,58
10350	S1.80	6,08	100,0	14,45	2,8	46,6	14,8	35,6	0,73	28,58	29,19







# TEST REPORT

Siza Coal Laboratory

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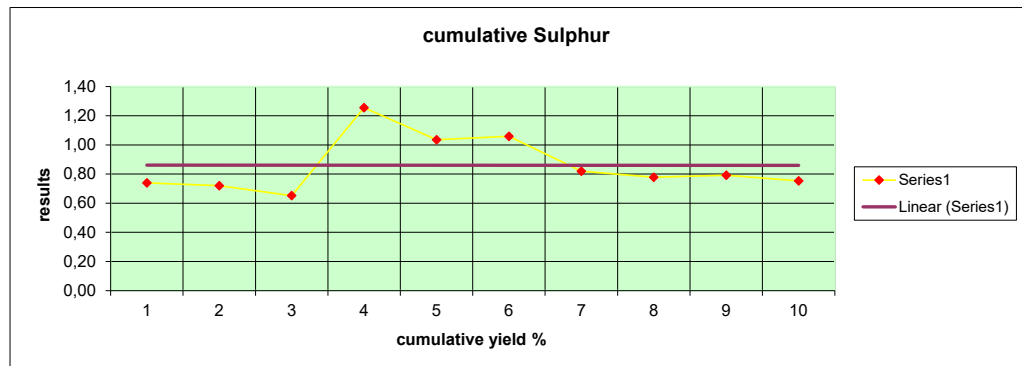
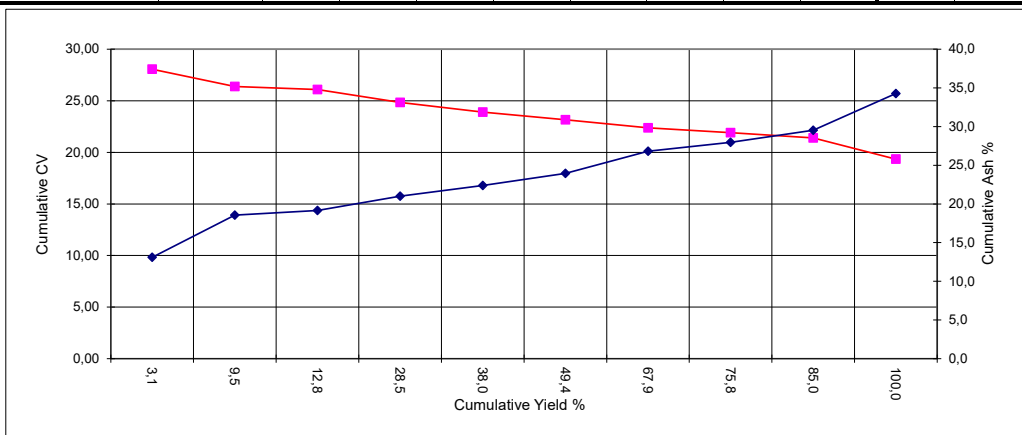
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 313
Description	S4U b
Date	28/02/2013

Mass as Rec.	10,75
Thickness	
Rel.Dens.	
Total Mass	4,99
Raw Rel.Dens	1,65

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
10327	F 1.35	0,00	0,0								
10328	F 1.40	0,15	3,1	28,06	4,0	13,1	24,2	58,7	0,74	33,85	29,19
10329	F 1.45	0,32	6,4	25,57	4,1	21,2	24,6	50,1	0,71	34,23	32,93
10330	F 1.50	0,17	3,4	25,32	3,7	20,8	22,5	53,0	0,46	33,54	29,80
10331	F 1.55	0,78	15,6	23,81	4,5	22,5	19,8	53,2	1,75	32,62	27,12
10332	F 1.60	0,48	9,6	21,12	4,2	26,5	19,0	50,3	0,38	30,48	27,42
10333	F 1.65	0,57	11,4	20,66	4,2	29,2	17,1	49,5	1,14	31,02	25,68
10334	F 1.70	0,92	18,5	20,31	4,3	34,5	16,5	44,7	0,18	33,19	26,96
10335	F1.75	0,39	7,9	17,91	3,8	37,8	15,7	42,7	0,42	30,67	26,88
10336	F1.80	0,46	9,2	17,22	3,8	42,4	14,5	39,3	0,91	32,01	26,95
10337	S1.80	0,75	15,0	7,62	3,2	61,2	11,7	23,9	0,53	21,40	32,87
10326	RAW	5,32	100,0	19,52	3,3	34,5	17,0	45,2	0,67	31,38	27,33
10325	-0.5MM	0,39	100,0	15,78	3,7	45,8	16,3	34,2	0,14	31,25	32,28
10327	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10328	F 1.40	0,15	3,1	28,06	0,0	13,1	24,2	58,7	0,74		27,85
10329	F 1.45	0,47	9,5	26,38	2,8	18,6	24,5	52,9	0,72	33,53	31,11
10330	F 1.50	0,64	12,8	26,10	3,0	19,2	24,0	52,9	0,65	33,53	30,77
10331	F 1.55	1,42	28,5	24,84	3,8	21,0	21,7	53,1	1,26	33,04	28,83
10332	F 1.60	1,90	38,0	23,91	3,9	22,4	21,0	52,4	1,03	32,44	28,49
10333	F 1.65	2,47	49,4	23,16	4,0	23,9	20,1	51,7	1,06	32,14	27,89
10334	F 1.70	3,39	67,9	22,38	4,1	26,8	19,1	49,8	0,82	32,39	27,67
10335	F1.75	3,78	75,8	21,92	4,0	28,0	18,8	49,1	0,78	32,23	27,60
10336	F1.80	4,24	85,0	21,41	4,0	29,5	18,3	48,0	0,79	32,21	27,54
10337	S1.80	4,99	100,0	19,34	3,9	34,3	17,3	44,39	0,75	31,28	28,00





# TEST REPORT

Siza Coal Laboratory

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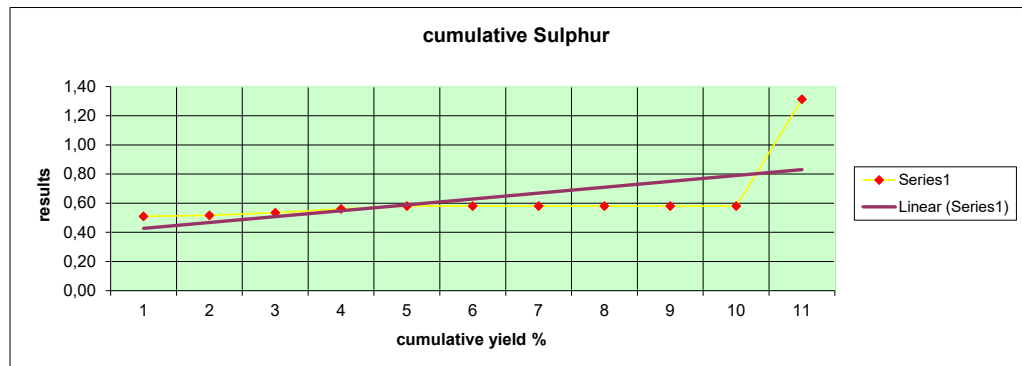
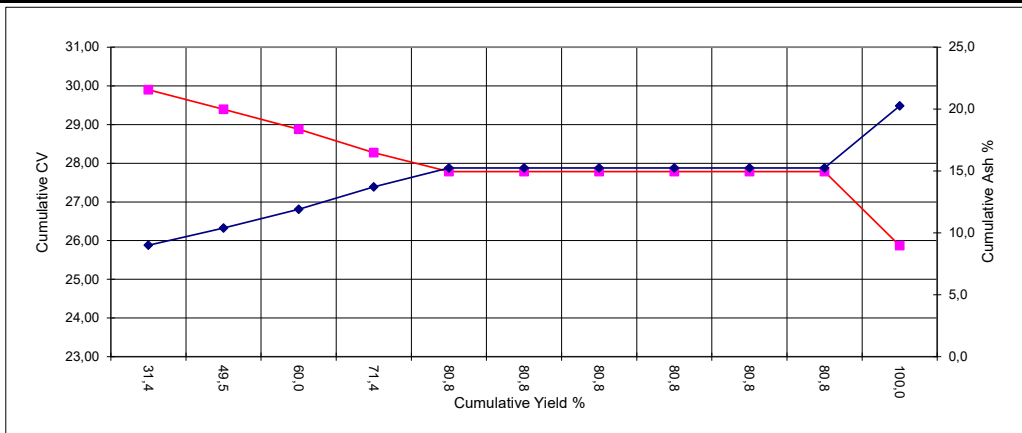
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 313
Description	S5 a
Date	28/02/2013

Mass as Rec.	4,14
Thickness	
Rel.Dens.	
Total Mass	2,17
Raw Rel.Dens	1,50

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
10366	F 1.35	0,68	31,4	29,90	2,8	9,0	26,2	62,0	0,51	33,90	29,71
10367	F 1.40	0,39	18,2	28,52	5,0	12,8	20,8	61,4	0,53	34,70	25,30
10368	F 1.45	0,23	10,4	26,44	3,1	19,1	19,1	58,7	0,62	33,98	24,55
10369	F 1.50	0,25	11,5	25,10	2,7	23,2	18,8	55,3	0,70	33,87	25,37
10370	F 1.55	0,20	9,4	24,06	2,5	26,9	18,2	52,4	0,72	34,08	25,78
10371	F 1.60	0,00	0,0								
10372	F 1.65	0,00	0,0								
10373	F 1.70	0,00	0,0								
10374	F1.75	0,00	0,0								
10375	F1.80	0,00	0,0								
10376	S1.80	0,42	19,2	17,83	2,7	41,3	15,7	40,3	4,39	31,84	28,04
10365	RAW	1,75	100,0	25,80	2,4	20,6	22,3	54,7	1,43	33,51	28,96
10364	-0.5MM	0,19	100,0	19,49	2,2	23,2	22,7	51,9	0,89	26,13	30,43
10366	F 1.35	0,68	31,4	29,90	2,8	9,0	26,2	62,0	0,51	33,90	29,71
10367	F 1.40	1,08	49,5	29,39	0,0	10,4	24,2	61,8	0,52		27,03
10368	F 1.45	1,30	60,0	28,88	0,5	11,9	23,3	61,2	0,54	32,99	26,65
10369	F 1.50	1,55	71,4	28,27	0,9	13,7	22,6	60,3	0,56	33,11	26,47
10370	F 1.55	1,75	80,8	27,79	1,1	15,2	22,1	59,4	0,58	33,20	26,40
10371	F 1.60	1,75	80,8	27,79	1,1	15,2	22,1	59,4	0,58		
10372	F 1.65	1,75	80,8	27,79	1,1	15,2	22,1	59,4	0,58		
10373	F 1.70	1,75	80,8	27,79	1,1	15,2	22,1	59,4	0,58		
10374	F1.75	1,75	80,8	27,79	1,1	15,2	22,1	59,4	0,58		
10375	F1.80	1,75	80,8	27,79	1,1	15,2	22,1	59,4	0,58		
10376	S1.80	2,17	100,0	25,87	1,4	20,3	20,9	55,7	1,31	33,02	26,63





# TEST REPORT

Siza Coal Laboratory

P O BOX 5800

Secunda

2302

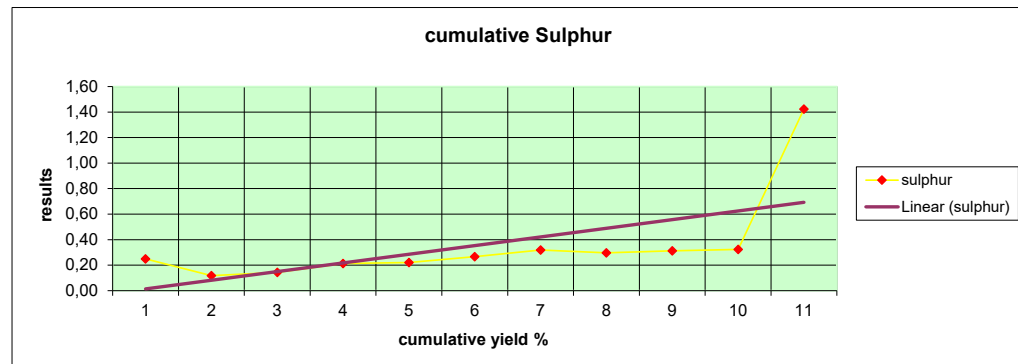
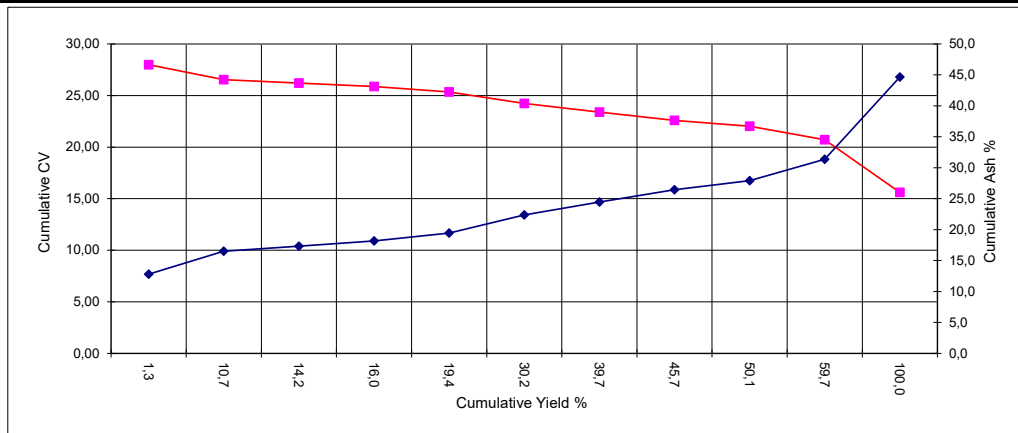
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP314
Description	S2L e
Date	01/03/2013

Mass as Rec.	14,24
Thickness	
Rel.Dens.	
Total Mass	9,69
Raw Rel.Dens	1,80

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
44752	F 1.35	0,12	1,3	27,99	3,6	12,8	30,5	53,1	0,25	33,48	36,48
44753	F 1.40	0,92	9,5	26,34	4,0	17,0	24,0	55,0	0,10	33,34	30,38
44754	F 1.45	0,33	3,5	25,17	3,7	19,9	23,1	53,3	0,22	32,95	30,24
44755	F 1.50	0,17	1,8	23,21	2,9	24,9	22,8	49,4	0,77	32,15	31,58
44756	F 1.55	0,33	3,4	22,94	3,6	25,3	20,4	50,7	0,26	32,26	28,69
44757	F 1.60	1,05	10,8	22,20	3,5	27,7	20,2	48,6	0,35	32,27	29,36
44758	F 1.65	0,92	9,5	20,71	2,6	31,0	19,3	47,1	0,48	31,19	29,07
44759	F 1.70	0,58	6,0	17,29	3,2	39,7	19,0	38,1	0,15	30,28	33,27
44760	F1.75	0,43	4,4	16,22	2,5	42,9	18,1	36,5	0,49	29,71	33,15
44761	F1.80	0,92	9,5	13,77	2,6	49,7	17,5	30,2	0,38	28,87	36,69
44762	S1.80	3,91	40,4	8,07	1,7	64,3	13,8	20,2	3,05	23,74	40,59
44749	RAW	3,79	100,0	15,88	2,7	46,3	17,1	33,9	1,38	31,14	33,53
44750	-0.5MM	0,71	100,0	15,41	3,0	44,8	16,6	35,6	0,75	29,52	31,80
Cumulative Calculation											
44752	F 1.35	0,12	1,3	27,99	3,6	12,8	30,5	53,1	0,25	33,48	36,48
44753	F 1.40	1,04	10,7	26,54	4,0	16,5	24,8	54,8	0,12	33,36	31,14
44754	F 1.45	1,38	14,2	26,20	3,9	17,3	24,4	54,4	0,14	33,26	30,93
44755	F 1.50	1,55	16,0	25,87	3,8	18,2	24,2	53,9	0,21	33,15	31,00
44756	F 1.55	1,88	19,4	25,35	3,7	19,4	23,5	53,3	0,22	33,00	30,62
44757	F 1.60	2,93	30,2	24,23	3,7	22,4	22,3	51,6	0,27	32,76	30,20
44758	F 1.65	3,85	39,7	23,38	3,4	24,4	21,6	50,5	0,32	32,41	29,95
44759	F 1.70	4,43	45,7	22,58	3,4	26,5	21,3	48,9	0,30	32,18	30,31
44760	F1.75	4,86	50,1	22,02	3,3	27,9	21,0	47,8	0,31	32,01	30,50
44761	F1.80	5,78	59,7	20,71	3,2	31,4	20,4	45,0	0,32	31,65	31,22
44762	S1.80	9,69	100,0	15,61	2,6	44,7	17,8	35,0	1,42	29,59	33,66
										0,00	0,00





# TEST REPORT

Siza Coal Laboratory

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2302

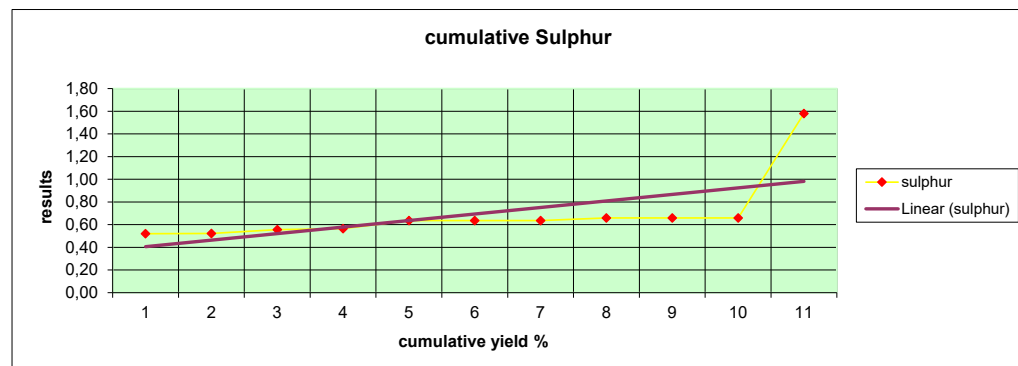
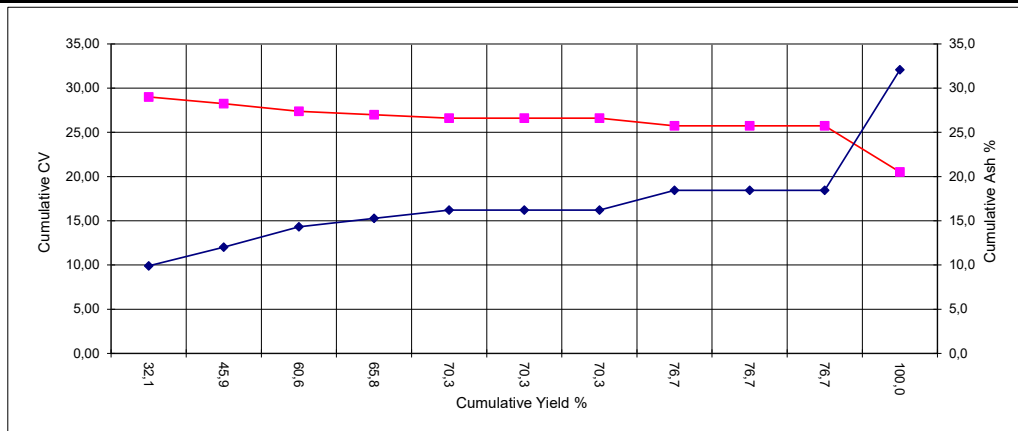
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 314
Description	S5 a
Date	01/03/2013

Mass as Rec.	6,12
Thickness	
Rel.Dens.	
Total Mass	2,49
Raw Rel.Dens	1,62

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
44738	F 1.35	0,80	32,1	29,01	2,1	9,9	26,7	61,3	0,52	32,97	30,34
44739	F 1.40	0,34	13,8	26,51	1,9	16,9	24,4	56,8	0,53	32,65	30,05
44740	F 1.45	0,37	14,7	24,67	0,2	21,5	22,9	55,4	0,66	31,51	29,25
44741	F 1.50	0,13	5,2	22,40	2,1	26,6	19,8	51,5	0,67	31,42	27,77
44742	F 1.55	0,11	4,5	21,18	1,9	29,5	18,8	49,8	1,67	30,87	27,41
44743	F 1.60	0,00	0,0								
44744	F 1.65	0,00	0,0								
44745	F 1.70	0,16	6,4	16,02	2,1	43,2	15,3	39,4	0,90	29,29	27,97
44746	F1.75	0,00	0,0								
44747	F1.80	0,00	0,0								
44748	S1.80	0,58	23,3	3,31	2,4	77,0	9,2	11,4	4,62	16,07	44,66
44735	RAW	3,22	100,0	20,29	1,2	32,4	20,3	46,1	1,40	30,56	30,57
44736	-0.5MM	0,38	100,0	6,39	1,7	68,1	13,3	16,9	0,83	21,16	44,04
Cumulative Calculation											
44738	F 1.35	0,80	32,1	29,01	2,1	9,9	26,7	61,3	0,52	32,97	30,34
44739	F 1.40	1,14	45,9	28,26	2,0	12,0	26,0	59,9	0,52	32,88	30,26
44740	F 1.45	1,51	60,6	27,39	1,6	14,3	25,3	58,8	0,56	32,57	30,03
44741	F 1.50	1,64	65,8	26,99	1,6	15,3	24,8	58,3	0,57	32,49	29,88
44742	F 1.55	1,75	70,3	26,62	1,7	16,2	24,4	57,7	0,64	32,40	29,74
44743	F 1.60	1,75	70,3	26,62	1,7	16,2	24,4	57,7	0,64		
44744	F 1.65	1,75	70,3	26,62	1,7	16,2	24,4	57,7	0,64		
44745	F 1.70	1,91	76,7	25,73	1,7	18,4	23,7	56,2	0,66	32,22	29,64
44746	F1.75	1,91	76,7	25,73	1,7	18,4	23,7	56,2	0,66		
44747	F1.80	1,91	76,7	25,73	1,7	18,4	23,7	56,2	0,66		
44748	S1.80	2,49	100,0	20,52	1,9	32,1	20,3	45,8	1,58	31,05	30,73
										0,00	0,00





# TEST REPORT

Siza Coal Laboratory

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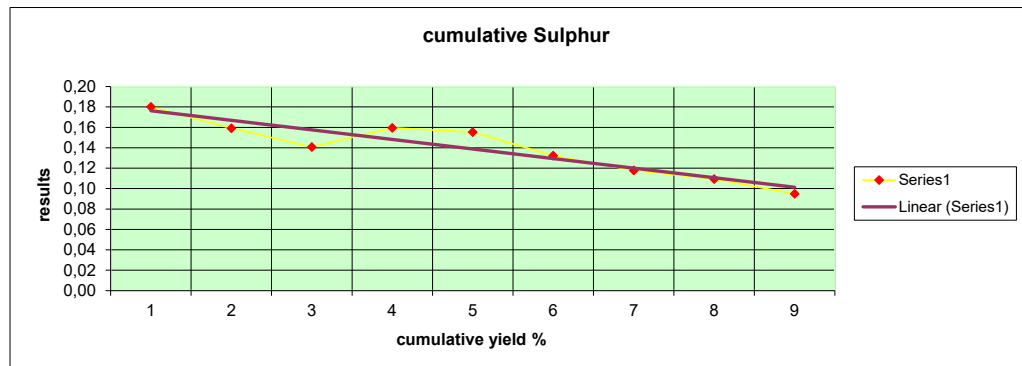
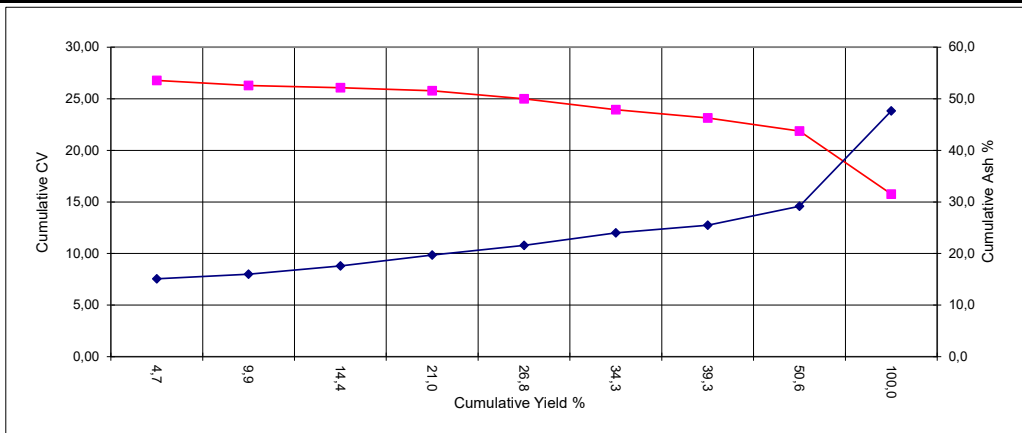
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 315
Description	S2 U e
Date	28/02/2013

Mass as Rec.	7,74
Thickness	
Rel.Dens.	
Total Mass	3,38
Raw Rel.Dens	1,80

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
10267	F 1.35	0,00	0,0								
10268	F 1.40	0,00	0,0								
10269	F 1.45	0,16	4,7	26,78	3,9	15,1	30,9	50,1	0,18	33,06	38,15
10270	F 1.50	0,17	5,2	25,85	3,6	16,8	24,3	55,3	0,14	32,47	30,53
10271	F 1.55	0,15	4,5	25,58	3,9	21,1	23,1	51,9	0,10	34,11	30,80
10272	F 1.60	0,23	6,7	25,17	2,5	24,3	22,7	50,5	0,20	34,39	31,01
10273	F 1.65	0,19	5,8	22,11	3,4	28,4	18,7	49,5	0,14	32,42	27,42
10274	F 1.70	0,25	7,5	20,21	3,2	32,6	18,3	45,9	0,05	31,48	28,50
10275	F1.75	0,17	5,0	17,58	3,4	35,8	17,6	43,2	0,02	28,91	28,95
10276	F1.80	0,38	11,3	17,47	2,9	42,0	17,0	0,0	0,08	31,71	30,85
10277	S1.80	1,67	49,4	9,50	1,3	66,6	13,0	19,1	0,08	29,60	40,50
10266	RAW	4,15	100,0	16,23	2,7	47,7	18,2	31,4	0,76	32,72	36,69
10265	-0.5MM	0,15	100,0	15,07	2,6	43,2	17,1	37,1	0,17	27,80	31,55
10267	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10268	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10269	F 1.45	0,16	4,7	26,78	3,9	15,1	30,9	50,1	0,18	33,06	38,15
10270	F 1.50	0,33	9,9	26,29	3,7	16,0	27,5	52,8	0,16	32,76	34,20
10271	F 1.55	0,49	14,4	26,07	3,8	17,6	26,1	52,5	0,14	33,16	33,20
10272	F 1.60	0,71	21,0	25,79	3,4	19,7	25,0	51,9	0,16	33,53	32,54
10273	F 1.65	0,91	26,8	25,00	3,4	21,6	23,7	51,4	0,16	33,31	31,54
10274	F 1.70	1,16	34,3	23,95	3,3	24,0	22,5	50,2	0,13	32,96	30,95
10275	F1.75	1,33	39,3	23,13	3,4	25,5	21,9	49,3	0,12	32,52	30,73
10276	F1.80	1,71	50,6	21,87	3,3	29,2	20,8	49,3	0,11	32,37	30,75
10277	S1.80	3,38	100,0	15,76	2,3	47,7	16,9	34,38	0,09	31,49	33,84

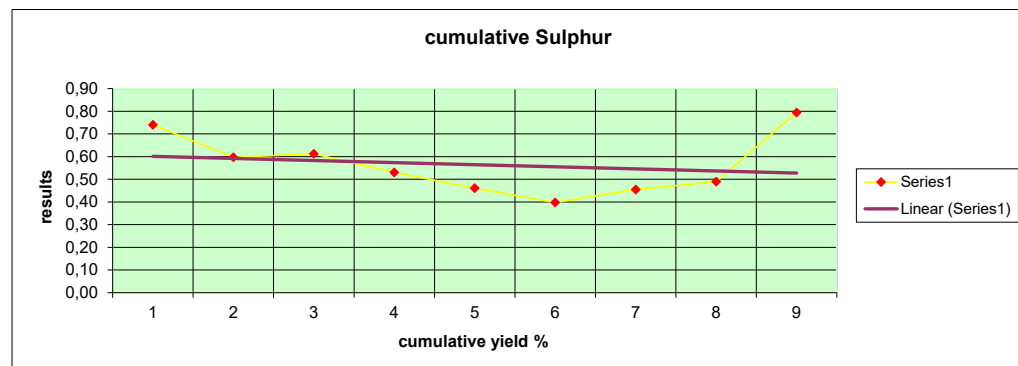
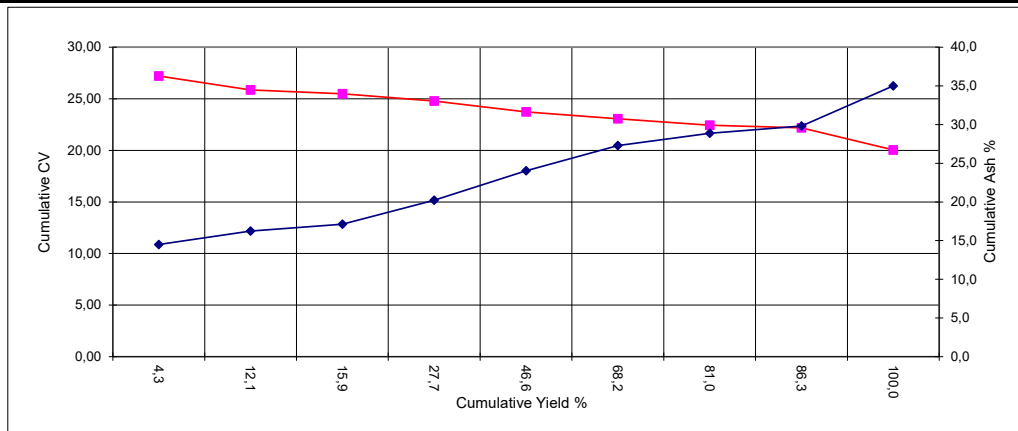




To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 315
Description	S2L f
Date	28/02/2013

Mass as Rec.	11,14
Thickness	
Rel.Dens.	
Total Mass	5,27
Raw Rel.Dens	1,68

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
10300	F 1.35	0,00	0,0								
10301	F 1.40	0,00	0,0								
10302	F 1.45	0,22	4,3	27,21	3,2	14,5	28,3	54,0	0,74	33,06	34,39
10303	F 1.50	0,41	7,8	25,13	3,5	17,2	24,1	55,2	0,52	31,69	30,39
10304	F 1.55	0,20	3,8	24,33	3,4	19,9	22,6	54,1	0,66	31,72	29,47
10305	F 1.60	0,62	11,8	23,80	3,4	24,4	19,7	52,5	0,42	32,96	27,29
10306	F 1.65	1,00	18,9	22,21	3,1	29,6	18,5	48,8	0,36	33,00	27,49
10307	F 1.70	1,14	21,6	21,61	2,9	34,3	17,8	45,0	0,26	34,41	28,34
10308	F1.75	0,67	12,8	19,16	2,8	37,4	17,0	0,0	0,76	32,04	28,43
10309	F1.80	0,28	5,4	18,20	2,4	44,0	16,5	37,1	1,01	33,96	30,78
10310	S1.80	0,72	13,7	6,57	1,6	67,7	11,2	19,5	2,72	21,40	36,48
10298	RAW	5,50	100,0	20,10	2,3	35,0	17,0	45,7	0,80	32,06	27,11
10299	-0.5MM	0,34	100,0	20,26	4,1	34,9	17,2	43,8	0,79	33,21	28,20
10300	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10301	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10302	F 1.45	0,22	4,3	27,21	3,2	14,5	28,3	54,0	0,74	33,06	34,39
10303	F 1.50	0,64	12,1	25,86	3,4	16,2	25,6	54,8	0,60	32,18	31,83
10304	F 1.55	0,84	15,9	25,49	3,4	17,1	24,9	54,6	0,61	32,08	31,28
10305	F 1.60	1,46	27,7	24,77	3,4	20,2	22,7	53,7	0,53	32,43	29,68
10306	F 1.65	2,46	46,6	23,73	3,3	24,0	21,0	51,7	0,46	32,65	28,85
10307	F 1.70	3,59	68,2	23,06	3,2	27,3	20,0	49,6	0,40	33,15	28,71
10308	F1.75	4,27	81,0	22,44	3,1	28,9	19,5	49,6	0,45	33,00	28,67
10309	F1.80	4,55	86,3	22,18	3,1	29,8	19,3	48,8	0,49	33,04	28,77
10310	S1.80	5,27	100,0	20,04	2,9	35,0	18,2	44,8	0,79	32,26	29,30

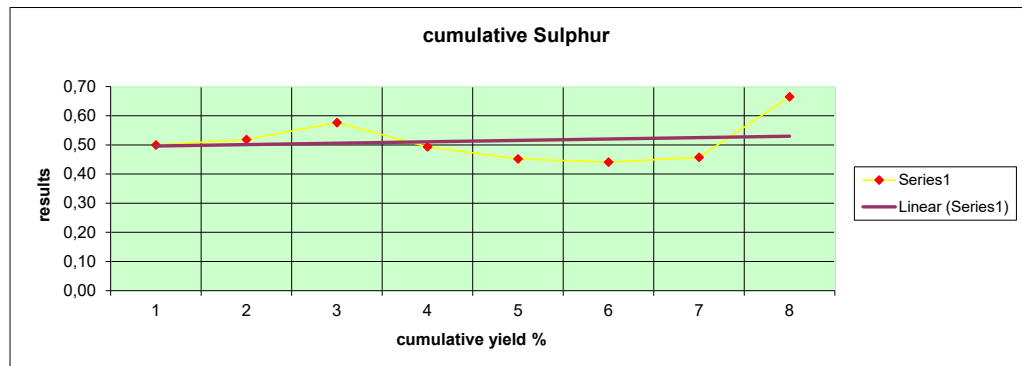
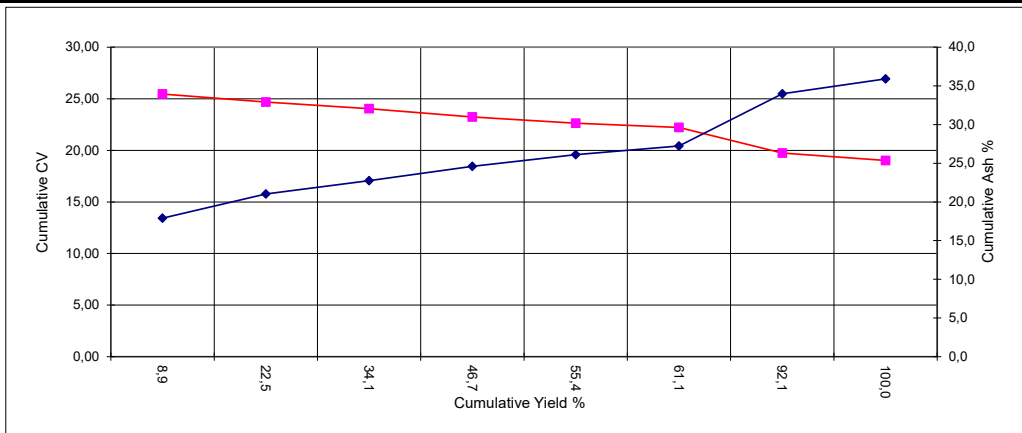




To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 315
Description	S4Lc
Date	28/02/2013

Mass as Rec.	4,30
Thickness	
Rel.Dens.	
Total Mass	1,94
Raw Rel.Dens	1,70

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
10254	F 1.35	0,00	0,0								
10255	F 1.40	0,00	0,0								
10256	F 1.45	0,00	0,0								
10257	F 1.50	0,17	8,9	25,46	3,1	17,9	25,7	53,3	0,50	32,23	32,53
10258	F 1.55	0,26	13,6	24,18	3,3	23,1	22,3	51,3	0,53	32,85	30,30
10259	F 1.60	0,22	11,5	22,78	3,1	26,1	21,4	49,4	0,69	32,18	30,23
10260	F 1.65	0,24	12,6	21,07	3,0	29,6	20,0	47,4	0,27	31,26	29,67
10261	F 1.70	0,17	8,7	19,40	2,9	34,2	18,7	44,2	0,23	30,84	29,73
10262	F1.75	0,11	5,7	18,31	3,1	38,1	17,6	41,2	0,33	31,14	29,93
10263	F1.80	0,60	30,9	14,82	2,5	47,3	17,1	0,0	0,49	29,52	34,06
10264	S1.80	0,15	7,9	10,72	2,1	58,2	14,8	24,9	3,07	27,00	37,28
10253	RAW	2,18	100,0	18,80	3,2	36,0	20,3	40,5	0,34	30,92	33,39
10252	-0.5MM	0,15	100,0	19,13	3,0	34,2	21,0	41,8	0,32	30,46	33,44
10254	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10255	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10256	F 1.45	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10257	F 1.50	0,17	8,9	25,46	3,1	17,9	25,7	53,3	0,50	32,23	32,53
10258	F 1.55	0,44	22,5	24,69	3,2	21,0	23,6	52,1	0,52	32,60	31,22
10259	F 1.60	0,66	34,1	24,04	3,2	22,8	22,9	51,2	0,58	32,46	30,90
10260	F 1.65	0,91	46,7	23,24	3,1	24,6	22,1	50,2	0,49	32,16	30,59
10261	F 1.70	1,07	55,4	22,64	3,1	26,1	21,6	49,2	0,45	31,97	30,47
10262	F1.75	1,19	61,1	22,23	3,1	27,2	21,2	48,5	0,44	31,91	30,43
10263	F1.80	1,79	92,1	19,74	2,9	34,0	19,8	48,5	0,46	31,27	31,40
10264	S1.80	1,94	100,0	19,02	2,8	35,9	19,4	46,6	0,67	31,05	31,70







# TEST REPORT

Siza Coal Laboratory

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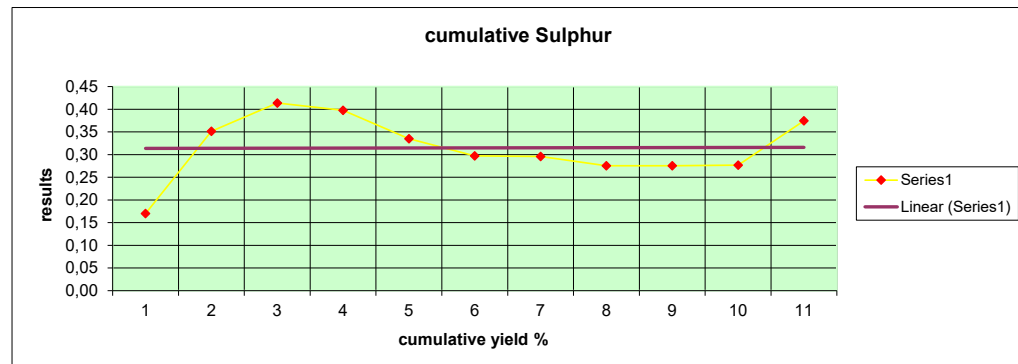
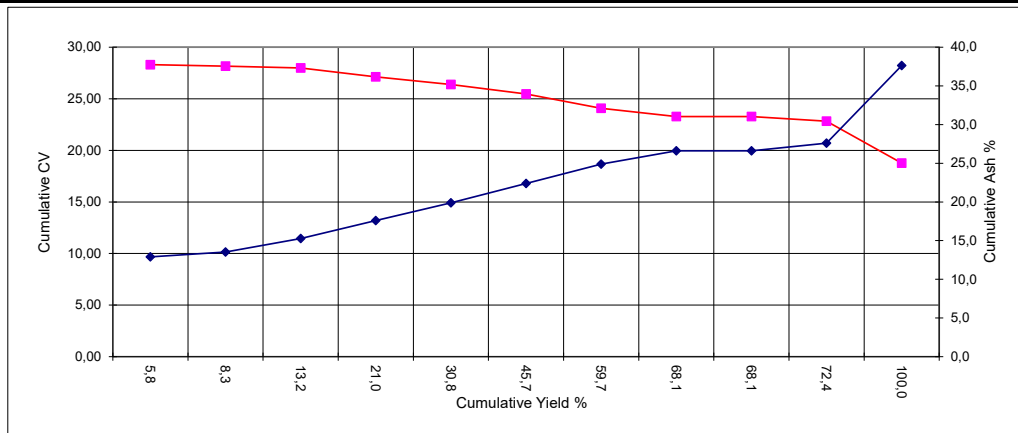
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 315
Description	S4LU d
Date	28/02/2013

Mass as Rec.	7,90
Thickness	
Rel.Dens.	
Total Mass	2,95
Raw Rel.Dens	1,70

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV %	Volatile %
10280	F 1.35	0,17	5,8	28,31	3,7	12,9	28,3	55,1	0,17	33,94	33,93
10281	F 1.40	0,08	2,6	27,82	3,7	14,9	24,9	56,5	0,76	34,18	30,59
10282	F 1.45	0,14	4,9	27,72	3,6	18,3	23,5	54,6	0,52	35,49	30,09
10283	F 1.50	0,23	7,8	25,67	4,5	21,5	21,2	52,8	0,37	34,69	28,65
10284	F 1.55	0,29	9,8	24,77	4,7	24,8	19,9	50,6	0,20	35,13	28,23
10285	F 1.60	0,44	14,9	23,56	4,7	27,6	19,9	47,8	0,22	34,80	29,39
10286	F 1.65	0,42	14,1	19,63	4,5	33,0	18,9	43,6	0,29	31,41	30,24
10287	F 1.70	0,25	8,3	17,42	4,4	39,0	17,7	38,9	0,13	30,78	31,27
10288	F1.75	0,00	0,0								
10289	F1.80	0,13	4,3	15,89	3,2	42,9	17,1	36,8	0,30	29,48	31,73
10290	S1.80	0,81	27,6	8,12	2,7	63,9	13,7	19,7	0,63	24,31	41,02
10279	RAW	4,83	100,0	18,66	3,3	37,0	18,1	41,6	0,21	31,26	30,32
10278	-0.5MM	0,09	100,0	18,98	2,8	34,1	13,0	50,1	0,29	30,08	20,60
10280	F 1.35	0,17	5,8	28,31	3,7	12,9	28,3	55,1	0,17	33,94	33,93
10281	F 1.40	0,25	8,3	28,16	0,0	13,5	27,3	55,5	0,35		31,51
10282	F 1.45	0,39	13,2	28,00	1,3	15,3	25,9	55,2	0,41	33,57	31,02
10283	F 1.50	0,62	21,0	27,13	2,5	17,6	24,1	54,3	0,40	33,96	30,20
10284	F 1.55	0,91	30,8	26,38	3,2	19,9	22,8	53,1	0,33	34,30	29,63
10285	F 1.60	1,35	45,7	25,46	3,7	22,4	21,8	51,4	0,30	34,45	29,56
10286	F 1.65	1,76	59,7	24,09	3,9	24,9	21,2	49,6	0,30	33,82	29,70
10287	F 1.70	2,01	68,1	23,27	3,9	26,6	20,7	48,3	0,28	33,52	29,86
10288	F1.75	2,01	68,1	23,27	3,9	26,6	20,7	48,3	0,28		
10289	F1.80	2,14	72,4	22,83	3,9	27,6	20,5	47,6	0,28	33,33	29,94
10290	S1.80	2,95	100,0	18,77	3,6	37,6	18,6	39,9	0,37	31,91	31,68





# TEST REPORT

Siza Coal Laboratory

P O BOX 5800

Secunda

2302

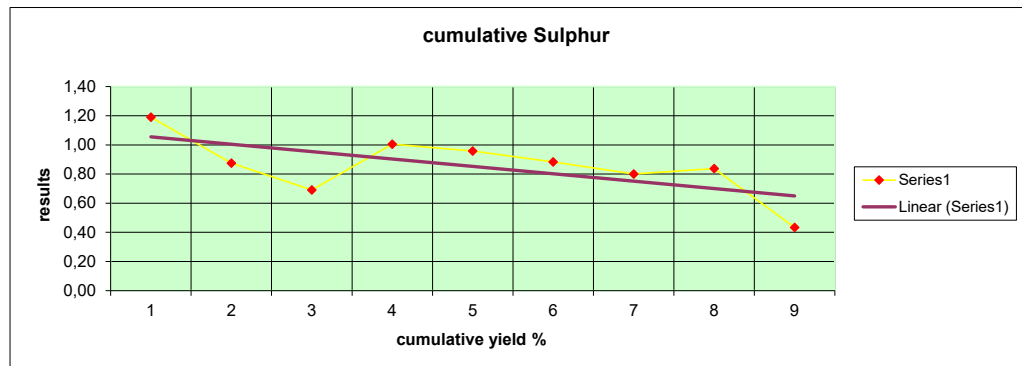
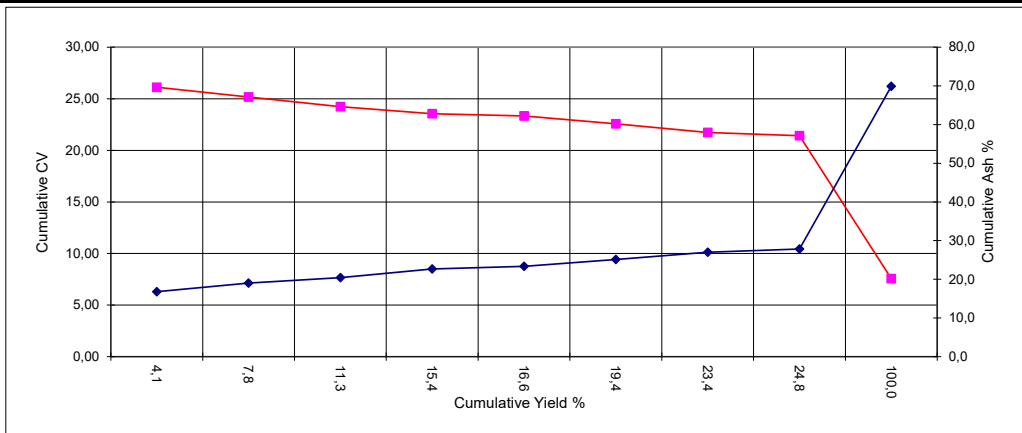
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 315
Description	S4UU b
Date	28/02/2013

Mass as Rec.	9,60
Thickness	
Rel.Dens.	
Total Mass	4,70
Raw Rel.Dens	2,10

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
10393	F 1.35	0,00	0,0								
10394	F 1.40	0,00	0,0								
10395	F 1.45	0,19	4,1	26,12	2,9	16,8	27,5	52,8	1,19	32,53	34,25
10396	F 1.50	0,17	3,7	24,10	2,8	21,5	25,1	50,6	0,52	31,84	33,16
10397	F 1.55	0,17	3,5	22,19	2,8	23,6	22,3	51,3	0,29	30,15	30,30
10398	F 1.60	0,19	4,1	21,65	2,4	28,9	22,1	46,6	1,87	31,51	32,17
10399	F 1.65	0,05	1,2	20,48	3,0	32,2	18,4	46,4	0,33	31,60	28,40
10400	F 1.70	0,13	2,8	18,20	3,7	35,4	18,1	42,8	0,45	29,89	29,72
10401	F1.75	0,19	4,0	17,65	3,1	36,1	16,0	44,8	0,40	29,03	26,32
10402	F1.80	0,07	1,4	16,23	3,1	41,7	15,6	39,6	1,45	29,40	28,26
10403	S1.80	3,53	75,1	2,98	1,3	83,8	9,5	5,4	0,30	20,00	63,76
10392	RAW	4,72	100,0	7,19	1,8	69,8	12,6	15,8	0,42	25,32	44,37
10391	-0.5MM	0,13	100,0	10,12	2,5	66,3	14,7	16,5	0,36	32,44	47,12
10393	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10394	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
10395	F 1.45	0,19	4,1	26,12	2,9	16,8	27,5	52,8	1,19	32,53	34,25
10396	F 1.50	0,37	7,8	25,17	2,9	19,0	26,4	51,8	0,87	32,21	33,75
10397	F 1.55	0,53	11,3	24,24	2,8	20,4	25,1	51,6	0,69	31,59	32,71
10398	F 1.60	0,72	15,4	23,55	2,7	22,7	24,3	50,3	1,00	31,57	32,58
10399	F 1.65	0,78	16,6	23,33	2,7	23,4	23,9	50,0	0,96	31,58	32,32
10400	F 1.70	0,91	19,4	22,58	2,9	25,1	23,0	49,0	0,88	31,37	32,00
10401	F1.75	1,10	23,4	21,74	2,9	27,0	21,8	48,2	0,80	31,02	31,16
10402	F1.80	1,17	24,8	21,42	2,9	27,9	21,5	47,7	0,84	30,94	31,02
10403	S1.80	4,70	100,0	7,56	1,7	69,9	12,5	15,9	0,43	26,63	43,93





# TEST REPORT

Siza Coal Laboratory

P O BOX 5800

Secunda

2302

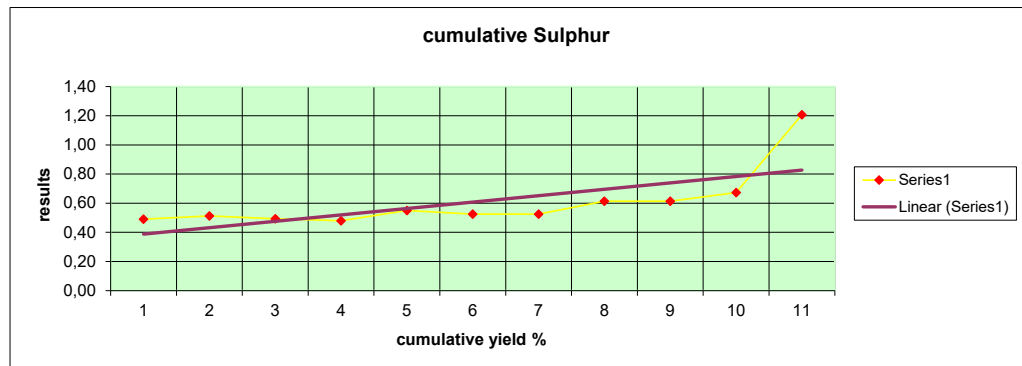
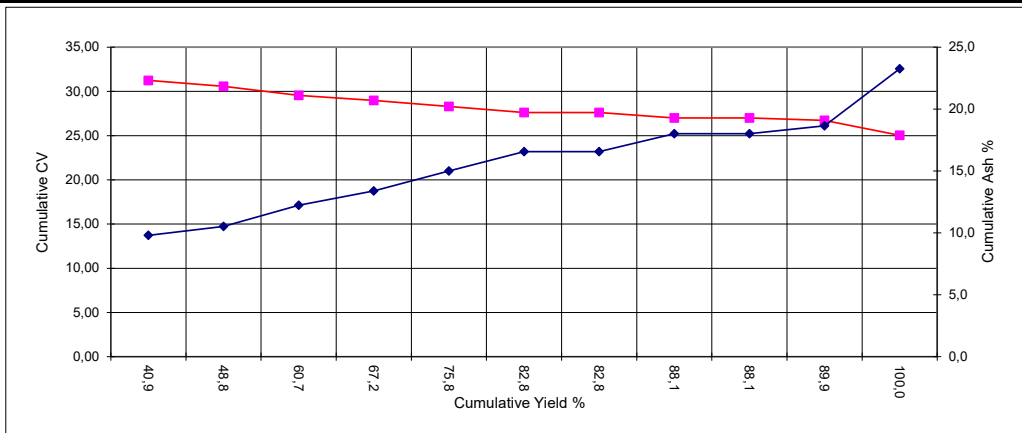
Tel.(017) 687 1630 Fax. (017) 687 0020

E-Mail: siza@polka.co.za

To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP 315
Description	S5 a
Date	28/02/2013

Mass as Rec.	4,46
Thickness	
Rel.Dens.	
Total Mass	1,82
Raw Rel.Dens	1,50

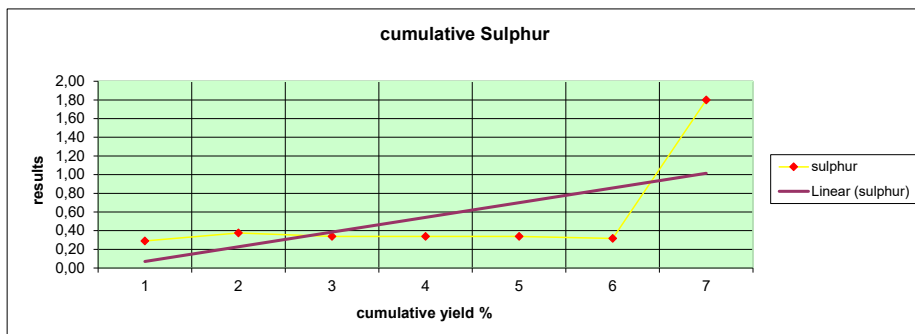
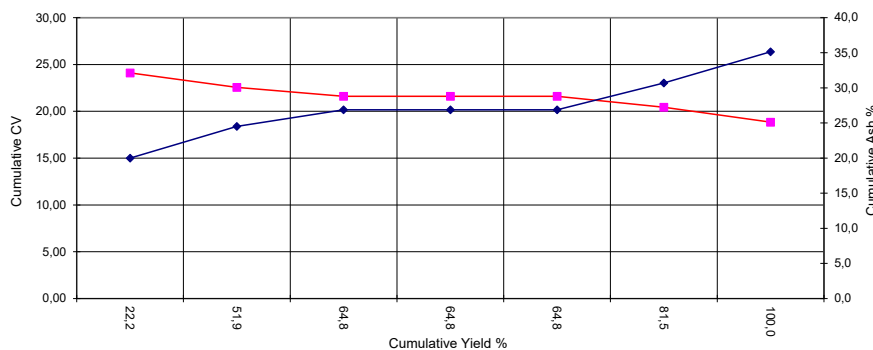
Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
10314	F 1.35	0,75	40,9	29,25	2,5	9,8	26,5	61,2	0,49	33,35	30,22
10315	F 1.40	0,14	7,9	27,11	2,4	14,3	24,8	58,5	0,63	32,55	29,77
10316	F 1.45	0,22	11,8	25,25	2,7	19,3	21,5	56,5	0,41	32,37	27,56
10317	F 1.50	0,12	6,5	23,87	2,3	24,1	19,8	53,8	0,36	32,43	26,90
10318	F 1.55	0,16	8,6	22,84	2,7	27,5	19,4	50,4	1,10	32,72	27,79
10319	F 1.60	0,13	7,0	20,31	2,4	33,6	18,5	45,5	0,25	31,73	28,91
10320	F 1.65	0,00	0,0								
10321	F 1.70	0,10	5,3	17,17	2,7	40,7	17,4	39,2	1,99	30,34	30,74
10322	F1.75	0,00	0,0								
10323	F1.80	0,03	1,8	13,75	2,1	49,5	15,0	33,4	3,55	28,41	30,99
10324	S1.80	0,18	10,1	10,01	2,1	64,3	11,4	22,2	5,97	29,79	33,93
10313	RAW	2,41	100,0	24,58	1,9	22,4	23,2	52,5	1,28	32,47	30,65
10312	-0.5MM	0,19	100,0	25,38	1,9	20,0	23,4	54,7	0,69	32,51	29,97
10314	F 1.35	0,75	40,9	31,25	2,5	9,8	26,5	61,2	0,49	35,63	30,22
10315	F 1.40	0,89	48,8	30,58	0,0	10,5	26,2	60,8	0,51		29,31
10316	F 1.45	1,10	60,7	29,54	0,5	12,2	25,3	59,9	0,49	33,86	29,01
10317	F 1.50	1,22	67,2	28,99	0,7	13,4	24,8	59,3	0,48	33,74	28,83
10318	F 1.55	1,38	75,8	28,29	0,9	15,0	24,2	58,3	0,55	33,65	28,73
10319	F 1.60	1,51	82,8	27,62	1,1	16,6	23,7	57,2	0,53	33,52	28,74
10320	F 1.65	1,51	82,8	27,62	1,1	16,6	23,7	57,2	0,53		
10321	F 1.70	1,60	88,1	26,99	1,1	18,0	23,3	56,2	0,61	33,39	28,83
10322	F1.75	1,60	88,1	26,99	1,1	18,0	23,3	56,2	0,61		
10323	F1.80	1,64	89,9	26,72	1,2	18,7	23,1	55,7	0,67	33,33	28,86
10324	S1.80	1,82	100,0	25,04	1,3	23,3	22,0	52,3	1,21	33,17	29,08



To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP
Description	316 S2 L
Date	22-Oct-13

Mass as Rec.	1,25
Thickness	
Rel.Dens.	
Total Mass	0,54
Raw Rel.Dens	1,67

Fractional Analysis										DAF Results	
Sample	Dens.	Mass	Yield	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV	Volatilit
Number				SWP 020	SWP 025	SWP 024	SWP 023		SWP 021		
				Based on	Based on	Based on	Based on		Based on		
				ISO	SABS	ISO	ISO		ASTM		
				1928	5925	1997	562		D4239		
Number	2.8	kg	%	MJ/kg	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	MJ/kg	% <sup>m</sup> / <sub>m</sub>
136 127	F 1.35	0,00									
136 128	F 1.40	0,00									
136 129	F 1.45	0,00									
136 130	F 1.50	0,00									
136 131	F 1.55	0,12	22,2	24,10	3,6	20,0	22,2	54,2	0,29	31,54	29,06
136 132	F 1.60	0,16	29,6	21,41	3,1	27,9	18,8	50,2	0,44	31,03	27,25
136 133	F 1.65	0,07	13,0	17,80	2,9	36,4	18,4	42,3	0,19	29,32	30,31
136 134	F 1.70	0,00									
136 135	F 1.75	0,00									
136 136	F 1.80	0,09	16,7	15,83	2,3	45,5	15,3	36,9	0,23	30,33	29,31
136 137	S 1.80	0,10	18,5	11,86	2,3	54,7	17,2	25,8	8,32	27,58	40,00
136138	RAW	0,51	100,0	19,11	3,1	34,9	19,1	42,9	0,42	30,82	30,81
136139	-0.5MM	0,17	100,0	21,20	3,1	29,1	21,5	46,3	0,41	31,27	31,71
136127	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
136128	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
136129	F 1.45	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
136130	F 1.50	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
136131	F 1.55	0,12	22,2	24,10	3,6	20,0	22,2	54,2	0,29	31,54	29,06
136132	F 1.60	0,28	51,9	22,56	3,3	24,5	20,3	51,9	0,38	31,26	28,07
136133	F 1.65	0,35	64,8	21,61	3,2	26,9	19,9	50,0	0,34	30,93	28,46
136134	F 1.70	0,35	64,8	21,61	3,2	26,9	19,9	50,0	0,34		
136135	F 1.75	0,35	64,8	21,61	3,2	26,9	19,9	50,0	0,34		
136136	F 1.80	0,44	81,5	20,43	3,0	30,7	18,9	47,3	0,32	30,83	28,60
136137	S 1.80	0,54	100,0	18,84	2,9	35,1	18,6	43,3	1,80	30,41	30,06
										0,00	0,00



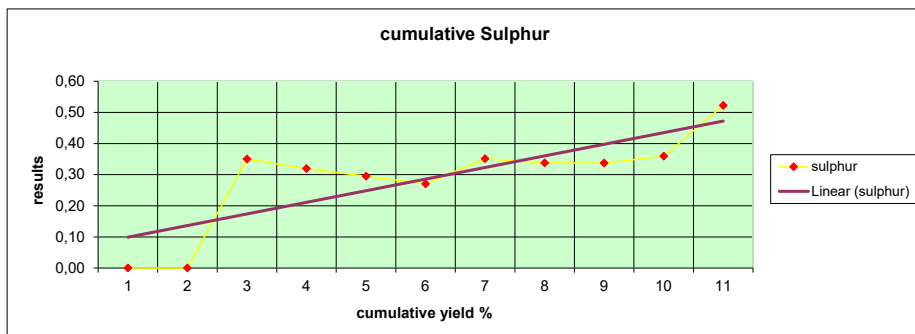
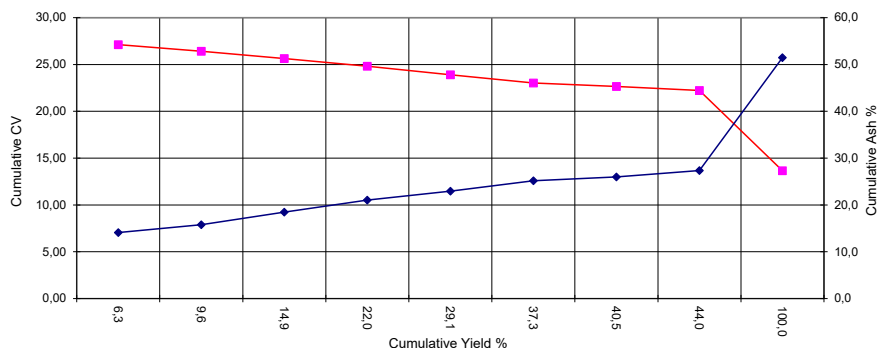
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To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP
Description	316 S4U
Date	22-Oct-13

Mass as Rec.	7,00
Thickness	
Rel.Dens.	
Total Mass	4,91
Raw Rel.Dens	1,81

Fractional Analysis										DAF Results	
Sample Number	Dens.	Mass	Yield	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV	Volatile
				SWP 020	SWP 025	SWP 024	SWP 023		SWP 021		
				Based on	Based on	Based on	Based on		Based on		
				ISO	SABS	ISO	ISO		ASTM		
				1928	5925	1997	562		D4239		
Number	2.8	kg	%	MJ/kg	% <sup>m/m</sup>	% <sup>m/m</sup>	% <sup>m/m</sup>	% <sup>m/m</sup>	% <sup>m/m</sup>	MJ/kg	% <sup>m/m</sup>
136 114	F 1.35	0,00						0,0			
136 115	F 1.40	0,00						0,0			
136 116	F 1.45	0,31	6,3	27,12	3,6	14,1	28,5	53,8	0,35	32,95	34,63
136 117	F 1.50	0,16	3,3	25,03	3,5	19,0	23,0	54,5	0,26	32,30	29,68
136 118	F 1.55	0,26	5,3	24,24	3,5	23,3	21,8	51,4	0,25	33,11	29,78
136 119	F 1.60	0,35	7,1	23,10	3,5	26,4	20,2	49,9	0,22	32,95	28,82
136 120	F 1.65	0,35	7,1	21,11	3,4	28,8	19,9	47,9	0,60	31,14	29,35
136 121	F 1.70	0,40	8,1	19,85	3,4	33,2	17,2	46,2	0,29	31,31	27,13
136 122	F 1.75	0,16	3,3	18,42	3,3	35,1	16,3	45,3	0,33	29,90	26,46
136 123	F 1.80	0,17	3,5	17,16	3,0	43,3	14,1	39,6	0,62	31,96	26,26
136 124	S 1.80	2,75	56,0	6,93	2,0	70,4	12,3	15,3	0,65	25,11	44,57
136125	RAW	1,73	100,0	16,71	2,0	45,9	20,1	32,0	0,57	32,07	38,58
136126	-0.5MM	0,34	100,0	17,37	3,5	36,0	15,6	44,9	1,04	28,71	25,79
136114	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
136115	F 1.40	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
136116	F 1.45	0,31	6,3	27,12	3,6	14,1	28,5	53,8	0,35	32,95	34,63
136117	F 1.50	0,47	9,6	26,41	3,6	15,8	26,6	54,0	0,32	32,74	33,01
136118	F 1.55	0,73	14,9	25,64	3,5	18,5	24,9	53,1	0,29	32,86	31,93
136119	F 1.60	1,08	22,0	24,81	3,5	21,0	23,4	52,1	0,27	32,89	30,99
136120	F 1.65	1,43	29,1	23,91	3,5	22,9	22,5	51,0	0,35	32,49	30,62
136121	F 1.70	1,83	37,3	23,02	3,5	25,2	21,4	50,0	0,34	32,26	29,94
136122	F 1.75	1,99	40,5	22,65	3,5	26,0	21,0	49,6	0,34	32,10	29,70
136123	F 1.80	2,16	44,0	22,22	3,4	27,3	20,4	48,8	0,36	32,09	29,49
136124	S 1.80	4,91	100,0	13,66	2,6	51,5	15,9	30,0	0,52	29,74	34,56



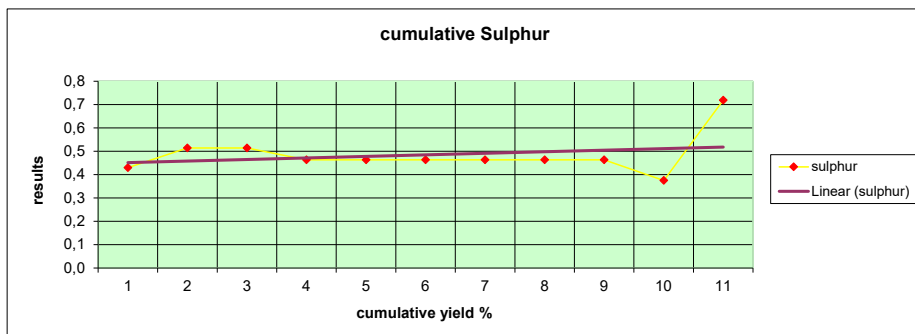
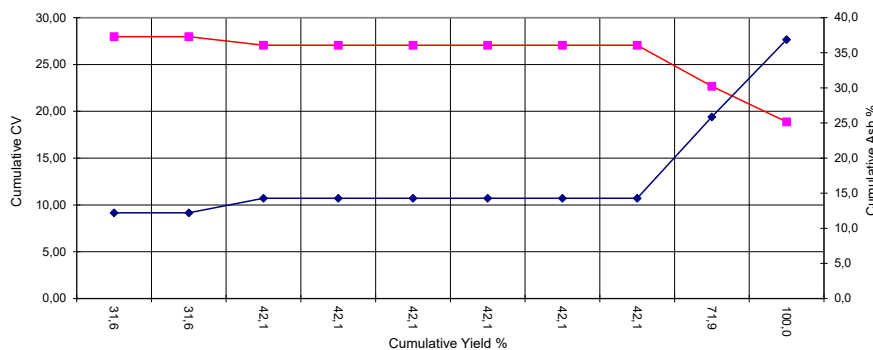
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To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP
Description	319 S5A
Date	22-Oct-13

Mass as Rec.	1,40
Thickness	
Rel.Dens.	
Total Mass	0,57
Raw Rel.Dens	1,67

Fractional Analysis										DAF Results	
Sample Number	Dens.	Mass	Yield	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV	Volatile
				SWP 020	SWP 025	SWP 024	SWP 023		SWP 021		
				Based on	Based on	Based on	Based on		Based on		
				ISO	SABS	ISO	ISO		ASTM		
				1928	5925	1997	562		D4239		
Number		kg	%	MJ/kg	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	MJ/kg	% <sup>m</sup> / <sub>m</sub>
136 101	F 1.35	0,10	17,5	28,60	2,7	10,7	23,6	63,0	0,43	33,03	27,25
136 102	F 1.40	0,08	14,0	27,18	2,8	14,1	21,9	61,2	0,62	32,71	26,35
136 103	F 1.45	0,00									
136 104	F 1.50	0,06	10,5	24,30	2,8	20,5	17,7	59,0	0,31	31,68	23,08
136 105	F 1.55	0,00									
136 106	F 1.60	0,00									
136 107	F 1.65	0,00									
136 108	F 1.70	0,00									
136 109	F 1.75	0,00									
136 110	F 1.80	0,17	29,8	16,50	2,8	42,2	13,3	41,7	0,25	30,00	24,18
136 111	S 1.80	0,16	28,1	9,14	3,1	65,1	9,3	22,5	1,60	28,74	29,25
136112	RAW	0,53	100,0	24,51	2,3	34,2	18,9	44,6	0,41	38,60	29,76
136113	-0.5MM	0,28	100,0	22,38	2,5	32,4	19,6	45,5		34,38	30,11
136101	F 1.35	0,10	17,5	28,6	2,7	10,7	23,6	63,0	0,4		27,25
136102	F 1.40	0,18	31,6	27,97	2,7	12,2	22,8	62,2	0,51	32,89	26,86
136103	F 1.45	0,18	31,6	27,97	2,7	12,2	22,8	62,2	0,51		
136104	F 1.50	0,24	42,1	27,05	2,8	14,3	21,6	61,4	0,46	32,61	25,99
136105	F 1.55	0,24	42,1	27,05	2,8	14,3	21,6	61,4	0,46		
136106	F 1.60	0,24	42,1	27,05	2,8	14,3	21,6	61,4	0,46		
136107	F 1.65	0,24	42,1	27,05	2,8	14,3	21,6	61,4	0,46		
136108	F 1.70	0,24	42,1	27,05	2,8	14,3	21,6	61,4	0,46		
136109	F 1.75	0,24	42,1	27,05	2,8	14,3	21,6	61,4	0,46		
136110	F 1.80	0,41	71,9	22,68	2,8	25,9	18,1	53,2	0,37	31,78	25,41
136111	S 1.80	0,57	100,0	18,88	2,9	36,9	15,7	44,6	0,72	31,33	25,98



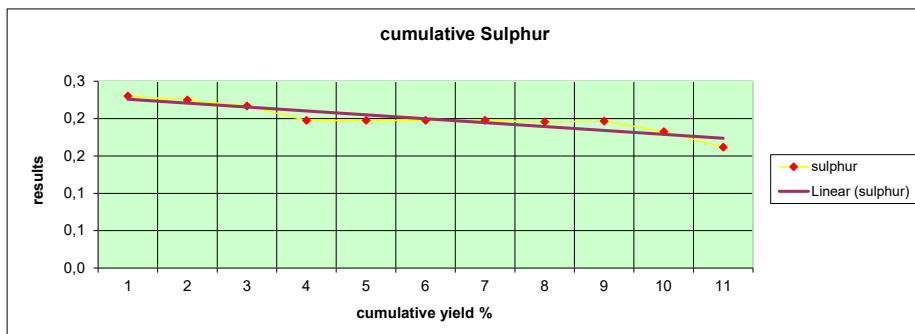
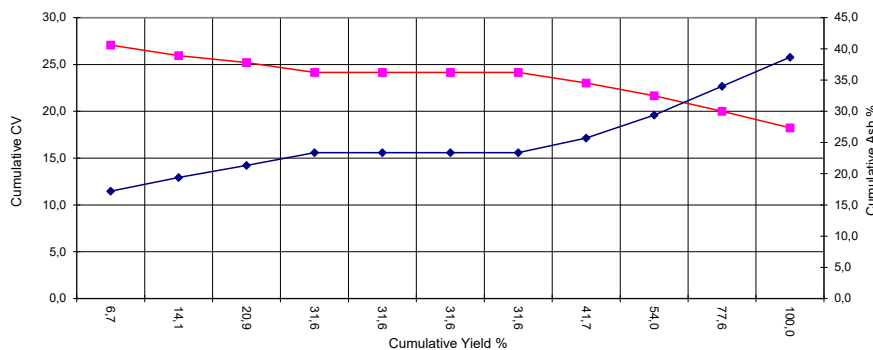
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To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP
Description	317 S2 L
Date	23-Oct-13

Mass as Rec.	4,90
Thickness	
Rel.Dens.	
Total Mass	3,26
Raw Rel.Dens	1,72

Fractional Analysis										DAF Results	
Sample Number	Dens.	Mass	Yield	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV	Volatile
				SWP 020	SWP 025	SWP 024	SWP 023		SWP 021		
				Based on	Based on	Based on	Based on		Based on		
				ISO	SABS	ISO	ISO		ASTM		
				1928	5925	1997	562		D4239		
Number		kg	%	MJ/kg	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	MJ/kg	% <sup>m</sup> / <sub>m</sub>
136 166	F 1.35	0,22	6,7	27,07	2,6	17,2	22,5	57,7	0,23	33,75	28,05
136 167	F 1.40	0,24	7,4	24,90	2,4	21,4	19,5	56,7	0,22	32,68	25,59
136 168	F 1.45	0,22	6,7	23,66	2,7	25,4	19,5	52,4	0,20	32,91	27,12
136 169	F 1.50	0,35	10,7	22,13	3,1	27,3	19,0	50,6	0,16	31,80	27,30
136 170	F 1.55	0,00									
136 171	F 1.60	0,00									
136 172	F 1.65	0,00									
136 173	F 1.70	0,33	10,1	19,50	3,0	33,0	16,1	47,9	0,19	30,47	25,16
136 174	F 1.75	0,40	12,3	17,01	2,4	41,9	15,4	40,3	0,20	30,54	27,65
136 175	F 1.80	0,77	23,6	16,23	2,4	44,6	14,7	38,3	0,15	30,62	27,74
136 176	S 1.80	0,73	22,4	12,11	1,7	54,8	15,3	28,2	0,09	27,84	35,17
136177	RAW	1,12	100,0	18,30	2,5	38,4	18,4	40,7	0,23	30,96	31,13
136178	-0.5MM	0,51	100,0	18,82	2,8	38,6	18,2	40,4	0,34	32,12	31,06
136166	F 1.35	0,22	6,7	27,1	2,6	17,2	22,5	57,7	0,2		28,05
136167	F 1.40	0,46	14,1	25,94	2,5	19,4	20,9	57,2	0,22	33,21	26,80
136168	F 1.45	0,68	20,9	25,20	2,6	21,3	20,5	55,6	0,22	33,11	26,90
136169	F 1.50	1,03	31,6	24,16	2,7	23,4	20,0	53,9	0,20	32,69	27,03
136170	F 1.55	1,03	31,6	24,16	2,7	23,4	20,0	53,9	0,20		
136171	F 1.60	1,03	31,6	24,16	2,7	23,4	20,0	53,9	0,20		
136172	F 1.65	1,03	31,6	24,16	2,7	23,4	20,0	53,9	0,20		
136173	F 1.70	1,36	41,7	23,03	2,8	25,7	19,0	52,5	0,20	32,21	26,62
136174	F 1.75	1,76	54,0	21,66	2,7	29,4	18,2	49,7	0,20	31,90	26,81
136175	F 1.80	2,53	77,6	20,01	2,6	34,0	17,1	46,2	0,18	31,57	27,05
136176	S 1.80	3,26	100,0	18,24	2,4	38,7	16,7	42,2	0,16	30,96	28,39
										0,00	0,00



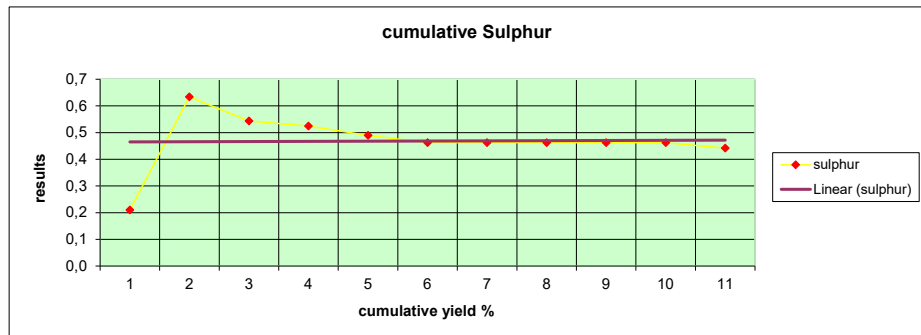
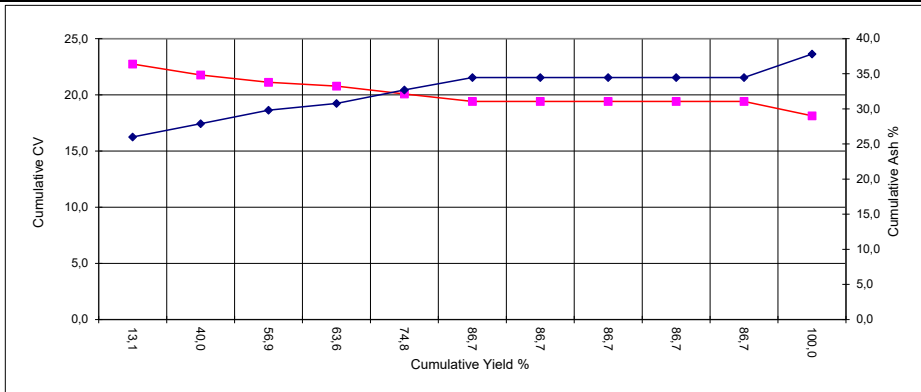
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To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP
Description	317 S2U
Date	23-Oct-13

Mass as Rec.	3,65
Thickness	
Rel.Dens.	
Total Mass	5,27
Raw Rel.Dens	1,72

Fractional Analysis										DAF Results	
Sample Number	Dens.	Mass	Yield	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV	Volatile
				SWP 020	SWP 025	SWP 024	SWP 023		SWP 021		
				Based on	Based on	Based on	Based on		Based on		
				ISO	SABS	ISO	ISO		ASTM		
				1928	5925	1997	562		D4239		
Number	F	kg	%	MJ/kg	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	MJ/kg	% <sup>m</sup> / <sub>m</sub>
136 075	F 1.35	0,69	13,1	22,74	2,8	26,0	20,2	51,0	0,21	31,94	28,37
136 076	F 1.40	1,42	26,9	21,30	2,9	28,8	19,2	49,1	0,84	31,19	28,11
136 077	F 1.45	0,89	16,9	19,59	2,5	34,4	18,8	44,3	0,33	31,05	29,79
136 078	F 1.50	0,35	6,6	17,78	2,7	39,1	18,4	39,8	0,36	30,55	31,62
136 079	F 1.55	0,59	11,2	16,10	2,4	43,5	17,8	36,3	0,29	29,76	32,90
136 080	F 1.60	0,63	12,0	15,23	2,4	45,5	16,6	35,5	0,29	29,23	31,86
136 081	F 1.65	0,00									
136 082	F 1.70	0,00									
136 083	F 1.75	0,00									
136 084	F 1.80	0,00									
136 085	S 1.80	0,70	13,3	9,83	1,9	59,7	15,7	22,7	0,31	25,60	40,89
136086	RAW	1,16	100,0	18,19	2,9	38,1	18,3	40,7	0,24	30,83	31,02
136087	-0.5MM	0,27	100,0	19,21	3,2	35,1	20,2	41,5	0,21	31,13	32,74
136075	F 1.35	0,69	13,1	22,7	2,8	26,0	20,2	51,0	0,2		28,37
136076	F 1.40	2,11	40,0	21,77	2,9	27,9	19,5	49,7	0,63	31,44	28,20
136077	F 1.45	3,00	56,9	21,12	2,8	29,8	19,3	48,1	0,54	31,33	28,64
136078	F 1.50	3,35	63,6	20,77	2,8	30,8	19,2	47,2	0,52	31,26	28,91
136079	F 1.55	3,94	74,8	20,07	2,7	32,7	19,0	45,6	0,49	31,07	29,41
136080	F 1.60	4,57	86,7	19,41	2,7	34,5	18,7	44,2	0,46	30,86	29,69
136081	F 1.65	4,57	86,7	19,41	2,7	34,5	18,7	44,2	0,46		
136082	F 1.70	4,57	86,7	19,41	2,7	34,5	18,7	44,2	0,46		
136083	F 1.75	4,57	86,7	19,41	2,7	34,5	18,7	44,2	0,46		
136084	F 1.80	4,57	86,7	19,41	2,7	34,5	18,7	44,2	0,46		
136085	S 1.80	5,27	100,0	18,13	2,6	37,8	18,3	41,4	0,44	30,41	30,65
										0,00	0,00



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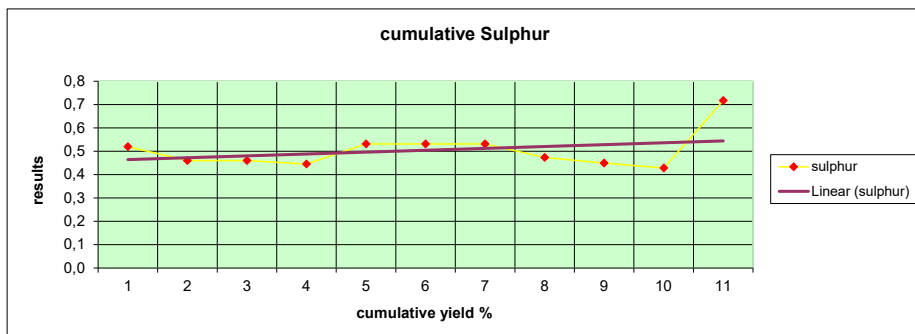
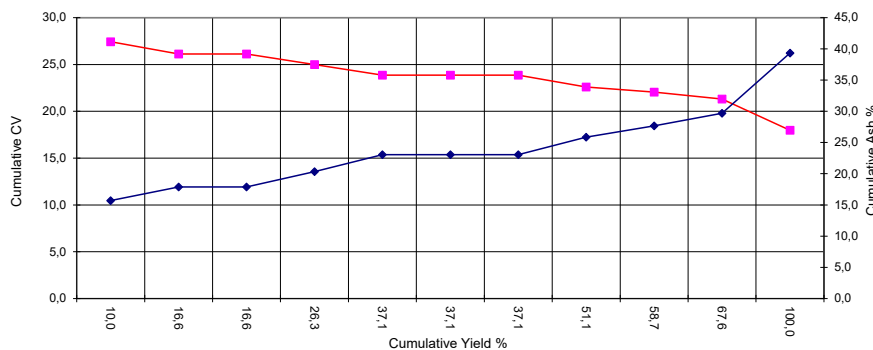
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To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP
Description	317 S4U
Date	23-Oct-13

Mass as Rec.	3,65
Thickness	
Rel.Dens.	
Total Mass	3,80
Raw Rel.Dens	1,74

Fractional Analysis										DAF Results	
Sample Number	Dens.	Mass	Yield	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV	Volatile
				SWP 020	SWP 025	SWP 024	SWP 023		SWP 021		
				Based on	Based on	Based on	Based on		Based on		
				ISO	SABS	ISO	ISO		ASTM		
				1928	5925	1997	562		D4239		
Number	F	kg	%	MJ/kg	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	MJ/kg	% <sup>m</sup> / <sub>m</sub>
136 153	F 1.35	0,38	10,0	27,43	2,8	15,7	22,2	59,3	0,52	33,66	27,24
136 154	F 1.40	0,25	6,6	24,12	3,2	21,2	20,3	55,3	0,37	31,90	26,85
136 155	F 1.45	0,00									
136 156	F 1.50	0,37	9,7	23,06	3,1	24,5	19,7	52,7	0,42	31,85	27,21
136 157	F 1.55	0,41	10,8	21,13	2,8	29,7	19,0	48,5	0,74	31,30	28,15
136 158	F 1.60										
136 159	F 1.65										
136 160	F 1.70	0,53	13,9	19,23	3,0	33,3	19,1	44,6	0,32	30,19	29,98
136 161	F 1.75	0,29	7,6	18,33	2,8	39,8	16,7	40,7	0,29	31,93	29,09
136 162	F 1.80	0,34	8,9	16,42	2,5	42,9	16,4	38,2	0,29	30,07	30,04
136 163	S 1.80	1,23	32,4	11,02	3,4	59,5	14,1	23,0	1,32	29,70	38,01
136164	RAW	1,21	100,0	16,71	3,2	39,5	17,4	39,9	0,52	29,16	30,37
136165	-0.5MM	0,37	100,0	18,87	3,1	35,2	21,2	40,5	0,41	30,58	34,36
136153	F 1.35	0,38	10,0	27,4	2,8	15,7	22,2	59,3	0,5		27,24
136154	F 1.40	0,63	16,6	26,12	3,0	17,9	21,4	57,7	0,46	32,99	27,09
136155	F 1.45	0,63	16,6	26,12	3,0	17,9	21,4	57,7	0,46		
136156	F 1.50	1,00	26,3	24,99	3,0	20,3	20,8	55,9	0,45	32,59	27,13
136157	F 1.55	1,41	37,1	23,86	2,9	23,1	20,3	53,7	0,53	32,25	27,40
136158	F 1.60	1,41	37,1	23,86	2,9	23,1	20,3	53,7	0,53		
136159	F 1.65	1,41	37,1	23,86	2,9	23,1	20,3	53,7	0,53		
136160	F 1.70	1,94	51,1	22,60	3,0	25,9	20,0	51,2	0,47	31,75	28,03
136161	F 1.75	2,23	58,7	22,04	2,9	27,7	19,5	49,9	0,45	31,77	28,15
136162	F 1.80	2,57	67,6	21,30	2,9	29,7	19,1	48,3	0,43	31,59	28,35
136163	S 1.80	3,80	100,0	17,97	3,1	39,3	17,5	40,1	0,72	31,19	30,36
										0,00	0,00



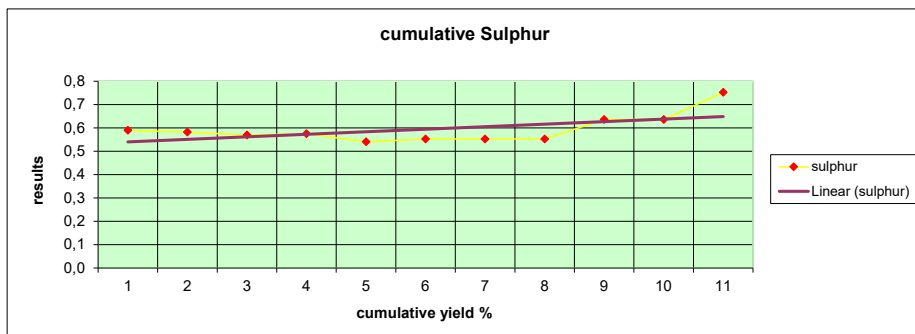
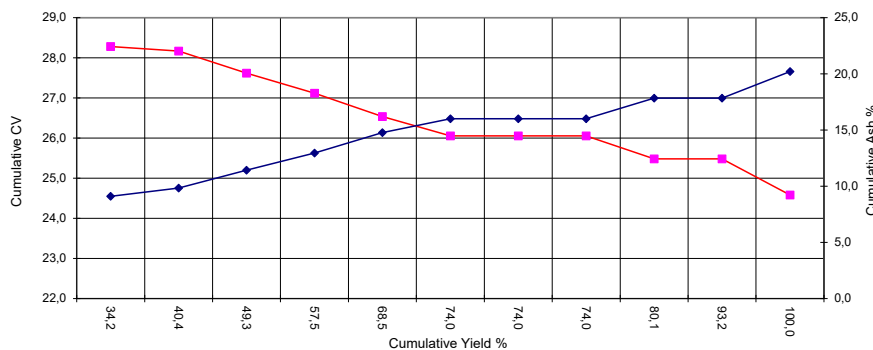
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To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP
Description	VLKP 317 S5 A
Date	23-Oct-13

Mass as Rec.	3,65
Thickness	
Rel.Dens.	
Total Mass	1,46
Raw Rel.Dens	1,50

Fractional Analysis										DAF Results	
Sample Number	Dens.	Mass	Yield	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV	Volatile
				SWP 020	SWP 025	SWP 024	SWP 023		SWP 021		
				Based on	Based on	Based on	Based on		Based on		
				ISO	SABS	ISO	ISO		ASTM		
				1928	5925	1997	562		D4239		
Number	F	kg	%	MJ/kg	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	MJ/kg	% <sup>m</sup> / <sub>m</sub>
136 140	F 1.35	0,50	34,2	28,28	2,1	9,1	25,8	63,0	0,59	31,85	29,05
136 141	F 1.40	0,09	6,2	27,54	2,7	13,9	23,3	60,1	0,54	33,02	27,94
136 142	F 1.45	0,13	8,9	25,13	2,1	18,7	21,5	57,7	0,51	31,73	27,15
136 143	F 1.50	0,12	8,2	24,12	2,7	22,1	20,1	55,1	0,61	32,07	26,73
136 144	F 1.55	0,16	11,0	23,47	2,0	24,3	18,0	55,7	0,36	31,85	24,42
136 145	F 1.60	0,08	5,5	20,01	2,5	31,4	16,4	49,7	0,70	30,27	24,81
136 146	F 1.65	0,00									
136 147	F 1.70	0,00									
136 148	F 1.75	0,09	6,2	18,66	2,4	39,8	15,9	41,9	1,64	32,28	27,51
136 149	F 1.80	0,19	13,0								
136 150	S 1.80	0,10	6,8	12,32	1,7	52,4	16,2	29,7	2,33	26,84	35,29
136151	RAW	0,22	100,0	24,50	2,6	20,5	20,8	56,1	0,74	31,86	27,05
136152	-0.5MM	0,53	100,0	23,66	2,1	22,1	24,1	51,7	0,66	31,21	31,79
136140	F 1.35	0,50	34,2	28,3	2,1	9,1	25,8	63,0	0,6	31,85	29,05
136141	F 1.40	0,59	40,4	28,17	2,2	9,8	25,4	62,6	0,58	32,02	28,89
136142	F 1.45	0,72	49,3	27,62	2,2	11,4	24,7	61,7	0,57	31,97	28,60
136143	F 1.50	0,84	57,5	27,12	2,3	13,0	24,1	60,7	0,58	31,98	28,37
136144	F 1.55	1,00	68,5	26,54	2,2	14,8	23,1	59,9	0,54	31,96	27,81
136145	F 1.60	1,08	74,0	26,05	2,2	16,0	22,6	59,2	0,55	31,86	27,63
136146	F 1.65	1,08	74,0	26,05	2,2	16,0	22,6	59,2	0,55		
136147	F 1.70	1,08	74,0	26,05	2,2	16,0	22,6	59,2	0,55		
136148	F 1.75	1,17	80,1	25,48	2,2	17,8	22,1	57,8	0,64	31,89	27,62
136149	F 1.80	1,36	93,2	25,48	2,2	17,8	22,1	57,8	0,64		
136150	S 1.80	1,46	100,0	24,58	2,2	20,2	21,7	55,9	0,75	31,68	27,93
										0,00	0,00



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## TEST REPORT

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Secunda  
2302

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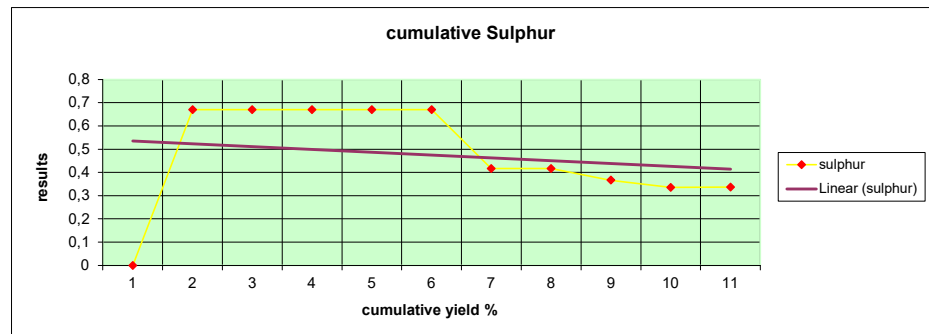
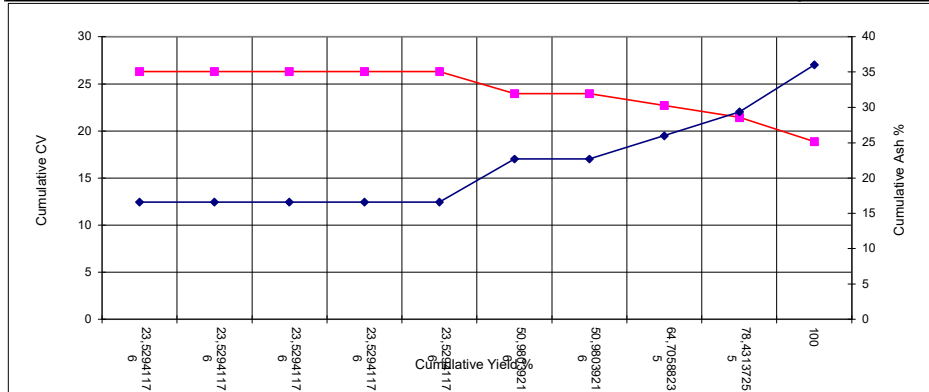
To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP
Description	318 S2L
Date	23-Oct-13

Mass as Rec.	3,65
Thickness	
Rel.Dens.	
Total Mass	0,51
Raw Rel.Dens	1,69

Fractional Analysis										DAF Results	
Sample Number	Dens.	Mass	Yield	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV	Volatile
				SWP 020	SWP 025	SWP 024	SWP 023		SWP 021		
				Based on	Based on	Based on	Based on		Based on		
				ISO	SABS	ISO	ISO		ASTM		
				1928	5925	1997	562		D4239		
Number	2.8	kg	%	MJ/kg	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	MJ/kg	% <sup>m</sup> / <sub>m</sub>
136 228	F 1.35	0,00									
136 229	F 1.40	0,12	23,5	26,31	2,80	16,6	26,9	53,7	0,67	32,64	33,37
136 230	F 1.45	0,00									
136 231	F 1.50	0,00									
136 232	F 1.55	0,00									
136 233	F 1.60	0,00									
136 234	F 1.65	0,14	27,5	21,93	2,40	27,9	21,2	48,5	0,20	31,46	30,42
136 235	F 1.70	0,00									
136 236	F 1.75	0,07	13,7	18,12	1,90	38,3	18,2	41,6	0,18	30,30	30,43
136 237	F 1.80	0,07	13,7	15,39	1,80	45,2	17,0	36,0	0,19	29,04	32,08
136 238	S 1.80	0,11	21,6	9,56	1,30	60,4	15,7	22,6	0,34	24,96	40,99

136239	RAW	0,45	100,0	19,20	3,0	35,7	19,2	42,1	0,37	31,32	31,32
136240	-0.5MM	0,12	100,0	17,89	2,7	38,4	19,6	39,3	0,32	30,37	33,28

136228	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
136229	F 1.40	0,12	23,5	26,31	2,8	16,6	26,9	53,7	0,67	32,64	33,37
136230	F 1.45	0,12	23,5	26,31	2,8	16,6	26,9	0,0	0,67		
136231	F 1.50	0,12	23,5	26,31	2,8	16,6	26,9	0,0	0,67		
136232	F 1.55	0,12	23,5	26,31	2,8	16,6	26,9	0,0	0,67		
136233	F 1.60	0,12	23,5	26,31	2,8	16,6	26,9	0,0	0,67		
136234	F 1.65	0,26	51,0	23,95	2,6	22,7	23,8	26,1	0,42	32,05	31,89
136235	F 1.70	0,26	51,0	23,95	2,6	22,7	23,8	26,1	0,42		
136236	F 1.75	0,33	64,7	22,71	2,4	26,0	22,6	29,4	0,37	31,74	31,63
136237	F 1.80	0,40	78,4	21,43	2,3	29,4	21,7	30,6	0,34	31,37	31,69
136238	S 1.80	0,51	100,0	18,87	2,1	36,1	20,4	28,8	0,34	30,52	32,93
										0,00	0,00



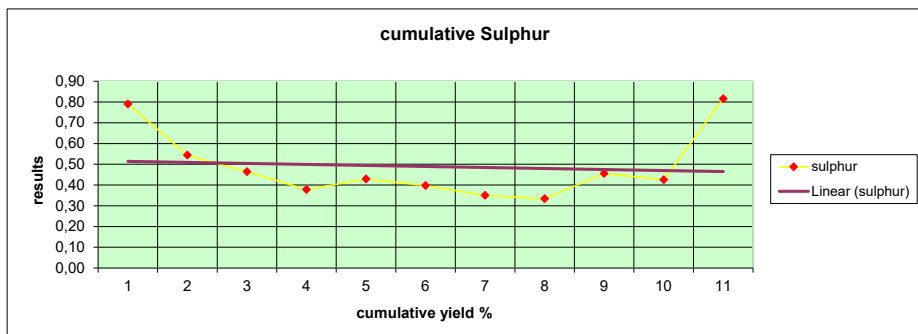
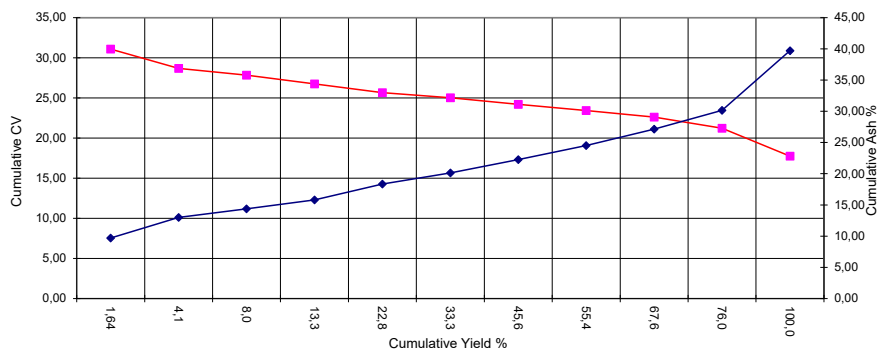
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To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP
Description	318 S2U
Date	23-Oct-13

Mass as Rec.	6,25
Thickness	
Rel.Dens.	
Total Mass	4,87
Raw Rel.Dens	1,71

Fractional Analysis										DAF Results	
Sample Number	Dens.	Mass	Yield	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV	Volatile
				SWP 020	SWP 025	SWP 024	SWP 023		SWP 021		
				Based on	Based on	Based on	Based on		Based on		
				ISO	SABS	ISO	ISO		ASTM		
				1928	5925	1997	562		D4239		
Number		kg	%	MJ/kg	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	MJ/kg	% <sup>m</sup> / <sub>m</sub>
136 188	F 1.35	0,08	1,6	31,08	1,8	9,7	27,9	60,6	0,79	35,12	31,53
136 189	F 1.40	0,12	2,5	27,06	2,6	15,2	25,3	56,9	0,38	32,92	30,78
136 190	F 1.45	0,19	3,9	26,95	2,9	15,8	24,2	57,1	0,38	33,15	29,77
136 191	F 1.50	0,26	5,3	25,11	3,2	18,0	21,6	57,2	0,25	31,87	27,41
136 192	F 1.55	0,46	9,4	24,13	3,1	21,9	21,4	53,6	0,50	32,17	28,53
136 193	F 1.60	0,51	10,5	23,59	3,3	24,0	19,6	53,1	0,33	32,45	26,96
136 194	F 1.65	0,60	12,3	22,06	2,7	28,0	19,9	49,4	0,22	31,83	28,72
136 195	F 1.70	0,48	9,9	19,80	2,7	34,9	18,7	43,7	0,26	31,73	29,97
136 196	F 1.75	0,59	12,1	18,82	2,5	39,2	18,0	40,3	1,01	32,28	30,87
136 197	F 1.80	0,41	8,4	10,20	2,4	54,3	17,5	25,8	0,19	23,56	40,42
136 198	S 1.80	1,17	24,0	6,72	1,9	70,0	14,9	13,2	2,05	23,91	53,02
136199	RAW	1,16	100,0	19,38	2,8	37,2	18,5	41,5	0,25	32,30	30,83
136200	-0.5MM	0,20	100,0	19,75	2,7	33,5	21,2	42,6	0,31	30,96	33,23
136188	F 1.35	0,08	1,64	31,08	1,80	9,70	27,90	60,60	0,79	35,12	31,53
136189	F 1.40	0,20	4,1	28,67	2,3	13,0	26,3	58,4	0,54	33,84	31,09
136190	F 1.45	0,39	8,0	27,83	2,6	14,4	25,3	57,8	0,46	33,51	30,46
136191	F 1.50	0,65	13,3	26,74	2,8	15,8	23,8	57,5	0,38	32,87	29,28
136192	F 1.55	1,11	22,8	25,66	2,9	18,3	22,8	55,9	0,43	32,60	28,98
136193	F 1.60	1,62	33,3	25,01	3,1	20,1	21,8	55,0	0,40	32,55	28,38
136194	F 1.65	2,22	45,6	24,21	3,0	22,3	21,3	53,5	0,35	32,37	28,46
136195	F 1.70	2,70	55,4	23,43	2,9	24,5	20,8	51,8	0,33	32,27	28,69
136196	F 1.75	3,29	67,6	22,60	2,8	27,1	20,3	49,7	0,46	32,28	29,02
136197	F 1.80	3,70	76,0	21,23	2,8	30,1	20,0	47,1	0,43	31,65	29,84
136198	S 1.80	4,87	100,0	17,74	2,6	39,7	18,8	38,9	0,82	30,75	32,55
										0,00	0,00



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## TEST REPORT

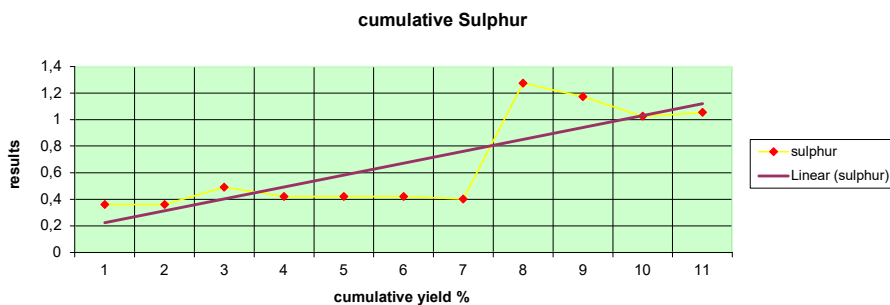
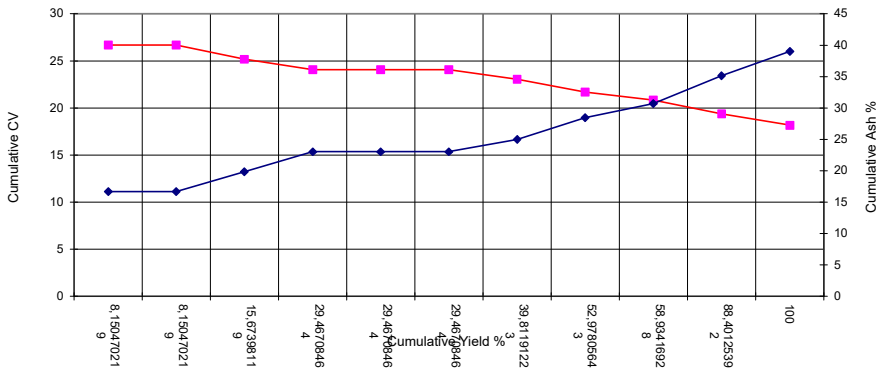
**Siza Coal Laboratory**  
P O BOX 5800  
Secunda  
2302

Tel:(017) 687 1630 Fax: (017) 687 0020  
E-Mail: [siza@polka.co.za](mailto:siza@polka.co.za)

To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP
Description	318S4U
Date	23-Oct-13

Mass as Rec.	3,25
Thickness	
Rel.Dens.	
Total Mass	3,19
Raw Rel.Dens	1,73

Fractional Analysis										DAF Results	
Sample Number	Dens.	Mass	Yield	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV	Volatile
				SWP 020	SWP 025	SWP 024	SWP 023		SWP 021		
				Based on	Based on	Based on	Based on		Based on		
				ISO	SABS	ISO	ISO		ASTM		
				1928	5925	1997	562		D4239		
Number	2.8	kg	%	MJ/kg	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	MJ/kg	% <sup>m</sup> / <sub>m</sub>
136 201	F 1.35	0,26	8,2	26,69	2,7	16,7	22,0	58,6	0,36	33,11	27,30
136 202	F 1.40	0,00									
136 203	F 1.45	0,24	7,5	23,55	3,1	23,3	21,8	51,8	0,63	32,00	29,62
136 204	F 1.50	0,44	13,8	22,82	2,9	26,6	21,3	49,2	0,34	32,37	30,21
136 205	F 1.55	0,00									
136 206	F 1.60	0,00									
136 207	F 1.65	0,33	10,3	20,13	3,0	30,6	19,5	46,9	0,35	30,32	29,37
136 208	F 1.70	0,42	13,2	17,54	2,4	39,0	15,5	43,1	3,91	29,93	26,45
136 209	F 1.75	0,19	6,0	13,38	2,6	50,5	17,2	29,7	0,27	28,53	36,67
136 210	F 1.80	0,94	29,5	16,49	2,8	44,0	13,2	40,0	0,73	31,00	24,81
136 211	S 1.80	0,37	11,6	8,87	2,4	68,5	16,8	12,3	1,27	30,48	57,73
136212	RAW	0,14	100,0	18,67	3,3	38,9	18,9	38,9	0,55	32,30	32,70
136213	-0.5MM	0,87	100,0	18,89	3,0	34,6	19,0	43,4	0,54	30,27	30,45
136201	F 1.35	0,26	8,2	26,7	2,7	16,7	22,0	58,6	0,4	33,11	27,30
136202	F 1.40	0,26	8,2	26,69	2,7	16,7	22,0	58,6	0,36		
136203	F 1.45	0,50	15,7	25,18	2,9	19,9	21,9	55,3	0,49	32,60	28,36
136204	F 1.50	0,94	29,5	24,08	2,9	23,0	21,6	52,5	0,42	32,50	29,18
136205	F 1.55	0,94	29,5	24,08	2,9	23,0	21,6	52,5	0,42		
136206	F 1.60	0,94	29,5	24,08	2,9	23,0	21,6	52,5	0,42		
136207	F 1.65	1,27	39,8	23,05	2,9	25,0	21,1	51,0	0,40	31,98	29,23
136208	F 1.70	1,69	53,0	21,68	2,8	28,5	19,7	49,1	1,27	31,54	28,64
136209	F 1.75	1,88	58,9	20,84	2,8	30,7	19,4	47,1	1,17	31,33	29,21
136210	F 1.80	2,82	88,4	19,39	2,8	35,1	17,4	44,7	1,02	31,23	27,96
136211	S 1.80	3,19	100,0	18,17	2,7	39,0	17,3	41,0	1,05	31,19	29,68
										0,00	0,00



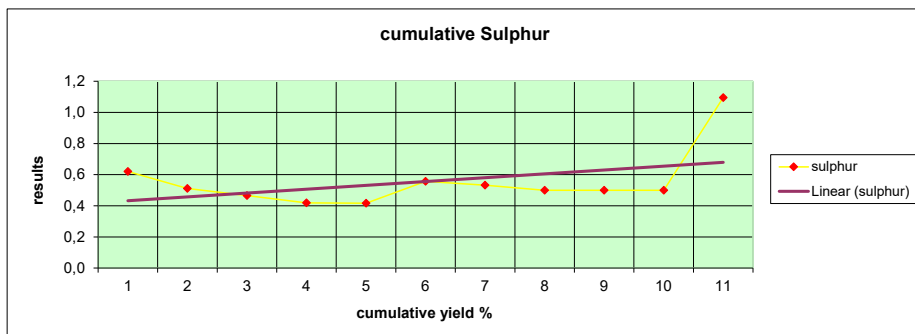
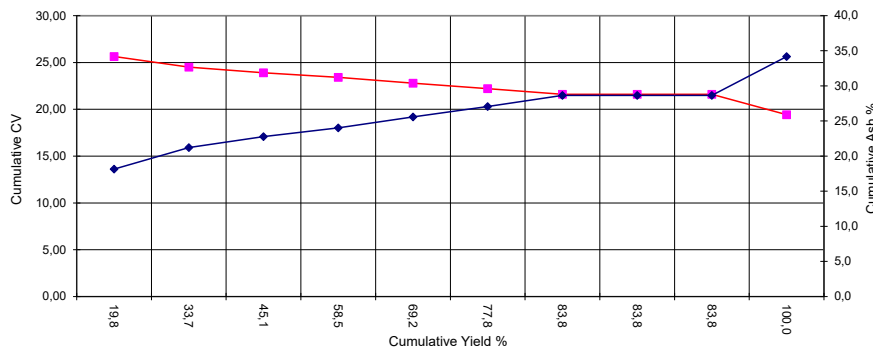
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To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP
Description	318 S5
Date	23-Oct-13

Mass as Rec.	11,25
Thickness	
Rel.Dens.	
Total Mass	10,60
Raw Rel.Dens	1,59

Fractional Analysis										DAF Results	
Sample Number	Dens.	Mass	Yield	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV	Volatile
				SWP 020	SWP 025	SWP 024	SWP 023		SWP 021		
				Based on	Based on	Based on	Based on		Based on		
				ISO	SABS	ISO	ISO		ASTM		
				1928	5925	1997	562		D4239		
Number		kg	%	MJ/kg	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	MJ/kg	% <sup>m</sup> / <sub>m</sub>
136 260	F 1.35	1,28	12,1	26,39	3,10	16,0	28,2	52,7	0,62	32,62	34,86
136 261	F 1.40	0,82	7,7	24,47	2,10	21,5	25,8	50,6	0,34	32,03	33,77
136 262	F 1.45	1,47	13,9	22,89	8,10	25,6	24,5	41,8	0,40	34,52	36,95
136 263	F 1.50	1,21	11,4	22,13	7,90	27,4	24,2	40,5	0,28	34,20	37,40
136 264	F 1.55	1,42	13,4	21,77	3,80	28,2	19,8	48,2	0,41	32,01	29,12
136 265	F 1.60	1,14	10,8	19,38	5,60	34,0	17,6	42,8	1,32	32,09	29,14
136 266	F 1.65	0,91	8,6	17,49	2,30	39,1	16,6	42,0	0,33	29,85	28,33
136 267	F 1.70	0,63	5,9	13,61	3,20	49,4	14,6	32,8	0,08	28,71	30,80
136 268	F 1.75	0,00									
136 269	F 1.80	0,00									
136 270	S 1.80	1,72	16,2	8,22	1,70	62,7	14,3	21,3	4,17	23,09	40,17
136271	RAW	0,40	100,0	19,52	5,5	33,9	22,8	37,8	0,36	32,21	37,62
136272	-0.5MM	0,21	100,0	22,90	3,3	25,5	22,4	48,8	0,25	32,16	31,46
136260	F 1.35	1,28	12,1	26,4	3,1	16,0	28,2	52,7	0,6		34,86
136261	F 1.40	2,10	19,8	25,64	2,7	18,1	27,3	51,9	0,51	32,40	34,45
136262	F 1.45	3,57	33,7	24,51	4,9	21,2	26,1	47,7	0,47	33,18	35,37
136263	F 1.50	4,78	45,1	23,91	5,7	22,8	25,6	45,9	0,42	33,42	35,84
136264	F 1.55	6,20	58,5	23,42	5,3	24,0	24,3	46,4	0,42	33,11	34,36
136265	F 1.60	7,34	69,2	22,79	5,3	25,6	23,3	45,9	0,56	32,97	33,65
136266	F 1.65	8,25	77,8	22,21	5,0	27,1	22,5	45,4	0,53	32,67	33,14
136267	F 1.70	8,88	83,8	21,60	4,8	28,6	22,0	44,5	0,50	32,47	33,03
136268	F 1.75	8,88	83,8	21,60	4,8	28,6	22,0	44,5	0,50		
136269	F 1.80	8,88	83,8	21,60	4,8	28,6	22,0	44,5	0,50		
136270	S 1.80	10,60	100,0	19,43	4,3	34,2	20,7	40,8	1,10	31,59	33,70
										0,00	0,00



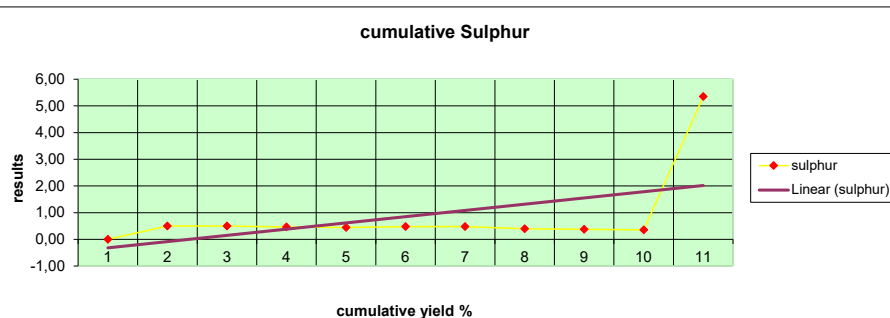
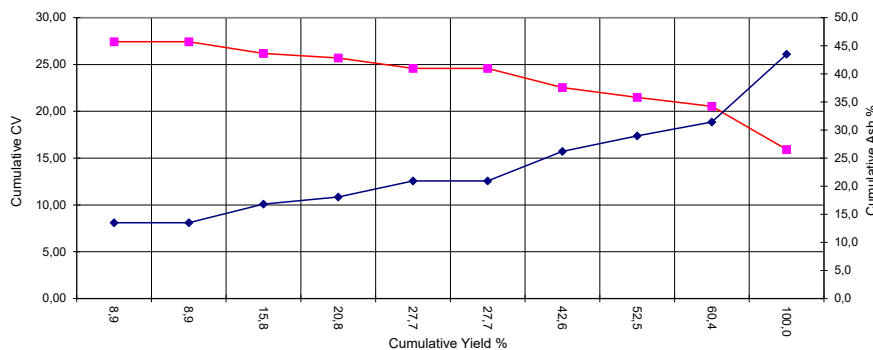
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To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP
Description	319 S2U
Date	25-Oct-13

Mass as Rec.	1,40
Thickness	
Rel.Dens.	
Total Mass	1,01
Raw Rel.Dens	1,73

Fractional Analysis										DAF Results	
Sample Number	Dens.	Mass	Yield	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV	Volatile
				SWP 020	SWP 025	SWP 024	SWP 023		SWP 021		
				Based on	Based on	Based on	Based on		Based on		
				ISO	SABS	ISO	ISO		ASTM		
				1928	5925	1997	562		D4239		
Number	2.8	kg	%	MJ/kg	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	MJ/kg	% <sup>m</sup> / <sub>m</sub>
136 280	F 1.35	0,00									
136 281	F 1.40	0,09	8,9	27,43	6,4	13,5	30,0	50,1	0,50	34,24	37,45
136 282	F 1.45	0,00									
136 283	F 1.50	0,07	6,9	24,57	2,1	21,1	27,9	48,9	0,42	31,99	36,33
136 284	F 1.55	0,05	5,0	24,12	4,8	22,1	22,0	51,1	0,39	33,00	30,10
136 285	F 1.60	0,07	6,9	21,28	3,4	29,5	21,3	45,8	0,57	31,71	31,74
136 286	F 1.65	0,00									
136 287	F 1.70	0,15	14,9	18,73	6,3	36,0	20,9	36,8	0,25	32,46	36,22
136 288	F 1.75	0,10	9,9	16,94	0,7	40,9	20,8	37,6	0,28	29,01	35,62
136 289	F 1.80	0,08	7,9	14,23	0,5	47,6	19,2	32,7	0,24	27,42	36,99
136 290	S 1.80	0,40	39,6	8,88	0,2	61,9	18,3	19,6	12,96	23,43	48,28
136291	RAW	0,21	100,0	17,44	1,7	39,5	26,4	32,4	2,15	29,66	44,90
136292	-0.5MM	0,16	100,0	16,95	2,1	40,7	20,0	37,2	3,80	29,63	34,97
136280	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
136281	F 1.40	0,09	8,9	27,43	6,4	13,5	30,0	50,1	0,50	34,24	37,45
136282	F 1.45	0,09	8,9	27,43	6,4	13,5	30,0	50,1	0,50		
136283	F 1.50	0,16	15,8	26,18	4,5	16,8	29,1	49,6	0,47	33,28	36,97
136284	F 1.55	0,21	20,8	25,69	4,6	18,1	27,4	49,9	0,45	33,22	35,42
136285	F 1.60	0,28	27,7	24,59	4,3	20,9	25,9	48,9	0,48	32,88	34,60
136286	F 1.65	0,28	27,7	24,59	4,3	20,9	25,9	48,9	0,48		
136287	F 1.70	0,43	42,6	22,54	5,0	26,2	24,1	44,7	0,40	32,76	35,07
136288	F 1.75	0,53	52,5	21,49	4,2	29,0	23,5	43,3	0,38	32,14	35,16
136289	F 1.80	0,61	60,4	20,53	3,7	31,4	22,9	41,9	0,36	31,64	35,36
136290	S 1.80	1,01	100,0	15,92	2,3	43,5	21,1	33,1	5,35	29,37	38,94
										0,00	0,00



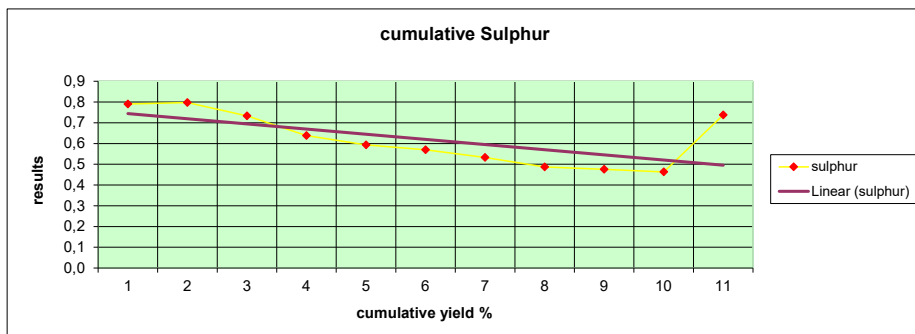
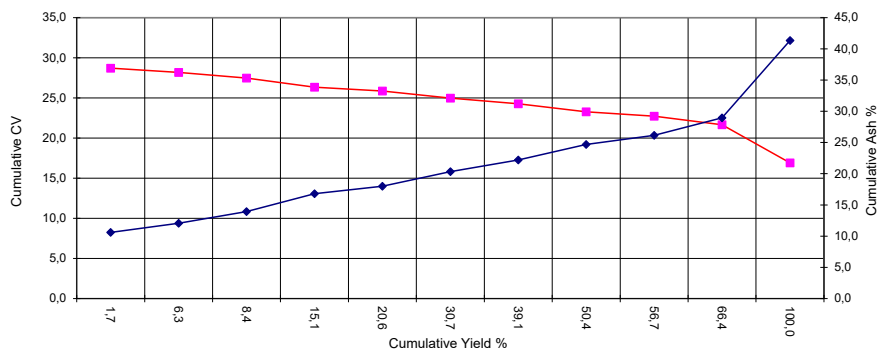
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To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP
Description	319 S4U
Date	25-Oct-13

Mass as Rec.	3,65
Thickness	
Rel.Dens.	
Total Mass	2,38
Raw Rel.Dens	1,75

Fractional Analysis										DAF Results	
Sample Number	Dens.	Mass	Yield	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV	Volatile
				SWP 020	SWP 025	SWP 024	SWP 023		SWP 021		
				Based on	Based on	Based on	Based on		Based on		
				ISO	SABS	ISO	ISO		ASTM		
				1928	5925	1997	562		D4239		
Number		kg	%	MJ/kg	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	MJ/kg	% <sup>m</sup> / <sub>m</sub>
136 375	F 1.35	0,04	1,7	28,71	3,3	10,6	31,2	54,9	0,79	33,34	36,24
136 376	F 1.40	0,11	4,6	27,99	2,5	12,6	30,1	54,8	0,80	32,97	35,45
136 377	F 1.45	0,05	2,1	25,33	3,0	19,5	25,2	52,3	0,54	32,68	32,52
136 378	F 1.50	0,16	6,7	24,90	3,4	20,4	24,5	51,7	0,52	32,68	32,15
136 379	F 1.55	0,13	5,5	24,55	1,9	21,3	23,0	53,8	0,47	31,97	29,95
136 380	F 1.60	0,24	10,1	23,16	3,4	25,1	22,7	48,8	0,52	32,39	31,75
136 381	F 1.65	0,20	8,4	21,67	4,1	29,0	20,5	46,4	0,40	32,39	30,64
136 382	F 1.70	0,27	11,3	19,85	1,7	33,3	20,0	45,0	0,33	30,54	30,77
136 383	F 1.75	0,15	6,3	18,32	1,6	37,8	19,8	40,8	0,38	30,23	32,67
136 384	F 1.80	0,23	9,7	15,38	2,4	45,4	17,0	35,2	0,39	29,46	32,57
136 385	S 1.80	0,80	33,6	7,55	2,7	65,8	12,4	19,1	1,28	23,97	39,37
136386	RAW	0,93	100,0	16,43	2,4	41,3	19,3	37,0	0,65	29,18	34,28
136387	-0.5MM	0,62	100,0	17,95	2,7	38,8	19,3	39,2	0,44	30,68	32,99
136375	F 1.35	0,04	1,7	28,7	3,3	10,6	31,2	54,9	0,8	33,34	36,24
136376	F 1.40	0,15	6,3	28,18	2,7	12,1	30,4	54,8	0,80	33,07	35,66
136377	F 1.45	0,20	8,4	27,47	2,8	13,9	29,1	54,2	0,73	32,98	34,93
136378	F 1.50	0,36	15,1	26,33	3,1	16,8	27,1	53,1	0,64	32,85	33,76
136379	F 1.55	0,49	20,6	25,86	2,8	18,0	26,0	53,3	0,59	32,62	32,78
136380	F 1.60	0,73	30,7	24,97	3,0	20,3	24,9	51,8	0,57	32,55	32,46
136381	F 1.65	0,93	39,1	24,26	3,2	22,2	24,0	50,6	0,53	32,52	32,11
136382	F 1.70	1,20	50,4	23,27	2,9	24,7	23,1	49,4	0,49	32,12	31,84
136383	F 1.75	1,35	56,7	22,72	2,7	26,2	22,7	48,4	0,48	31,94	31,92
136384	F 1.80	1,58	66,4	21,65	2,7	29,0	21,9	46,5	0,46	31,67	31,99
136385	S 1.80	2,38	100,0	16,91	2,7	41,3	18,7	37,3	0,74	30,21	33,39
										0,00	0,00



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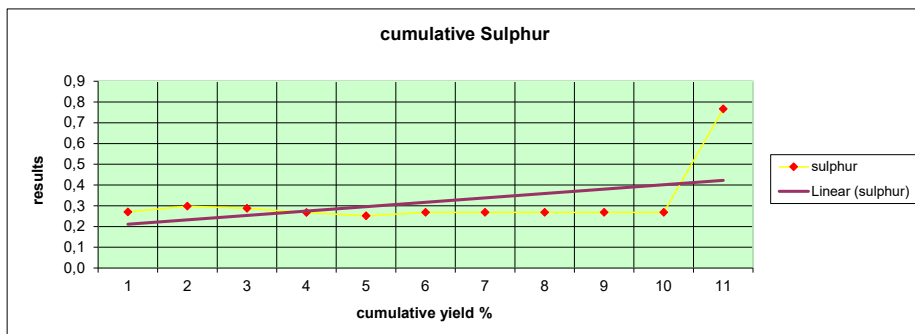
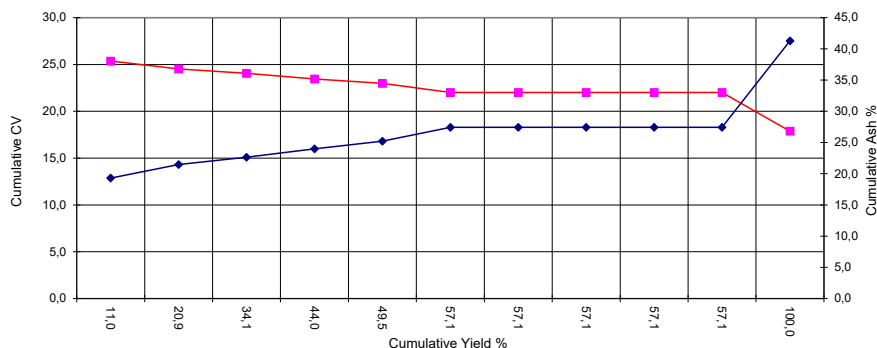
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To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP
Description	319 S5
Date	23-Oct-13

Mass as Rec.	1,30
Thickness	
Rel.Dens.	
Total Mass	0,91
Raw Rel.Dens	1,68

Fractional Analysis										DAF Results	
Sample Number	Dens.	Mass	Yield	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV	Volatile
				SWP 020	SWP 025	SWP 024	SWP 023		SWP 021		
				Based on	Based on	Based on	Based on		Based on		
				ISO	SABS	ISO	ISO		ASTM		
				1928	5925	1997	562		D4239		
Number		kg	%	MJ/kg	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	MJ/kg	% <sup>m</sup> / <sub>m</sub>
136 423	F 1.35	0,10	11,0	25,37	2,9	19,3	23,8	54,0	0,27	32,61	30,59
136 424	F 1.40	0,09	9,9	23,60	3,2	23,9	22,9	50,0	0,33	32,37	31,41
136 425	F 1.45	0,12	13,2	23,28	2,8	24,5	22,0	50,7	0,27	32,02	30,26
136 426	F 1.50	0,09	9,9	21,38	2,5	28,6	21,7	47,2	0,20	31,03	31,49
136 427	F 1.55	0,05	5,5	19,28	2,2	34,9	20,2	42,7	0,12	30,65	32,11
136 428	F 1.60	0,07	7,7	15,77	2,2	41,7	18,2	37,9	0,38	28,11	32,44
136 429	F 1.65	0,00									
136 430	F 1.70	0,00									
136 431	F 1.75	0,00									
136 432	F 1.80	0,00									
136 433	S 1.80	0,39	42,9	12,36	1,8	59,8	15,2	23,2	1,43	32,19	39,58
136434	RAW	0,25	100,0	20,86	2,5	35,8	18,2	43,5	1,16	33,81	29,50
136435	-0.5MM	0,09	100,0	21,80	1,7	32,2	20,3	45,8	3,48	32,98	30,71
136423	F 1.35	0,10	11,0	25,4	2,9	19,3	23,8	54,0	0,3	32,61	30,59
136424	F 1.40	0,19	20,9	24,53	3,0	21,5	23,4	52,1	0,30	32,50	30,97
136425	F 1.45	0,31	34,1	24,05	2,9	22,6	22,8	51,6	0,29	32,32	30,70
136426	F 1.50	0,40	44,0	23,45	2,8	24,0	22,6	50,6	0,27	32,05	30,87
136427	F 1.55	0,45	49,5	22,98	2,8	25,2	22,3	49,7	0,25	31,91	30,99
136428	F 1.60	0,52	57,1	22,01	2,7	27,4	21,8	48,1	0,27	31,50	31,15
136429	F 1.65	0,52	57,1	22,01	2,7	27,4	21,8	48,1	0,27		
136430	F 1.70	0,52	57,1	22,01	2,7	27,4	21,8	48,1	0,27		
136431	F 1.75	0,52	57,1	22,01	2,7	27,4	21,8	48,1	0,27		
136432	F 1.80	0,52	57,1	22,01	2,7	27,4	21,8	48,1	0,27		
136433	S 1.80	0,91	100,0	17,88	2,3	41,3	19,0	37,4	0,77	31,70	33,61
										0,00	0,00



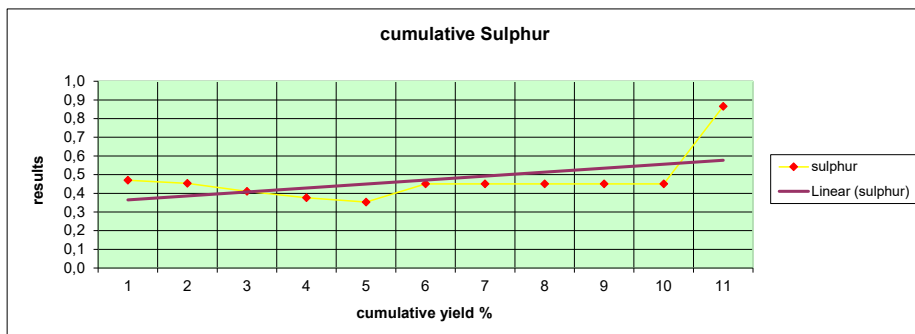
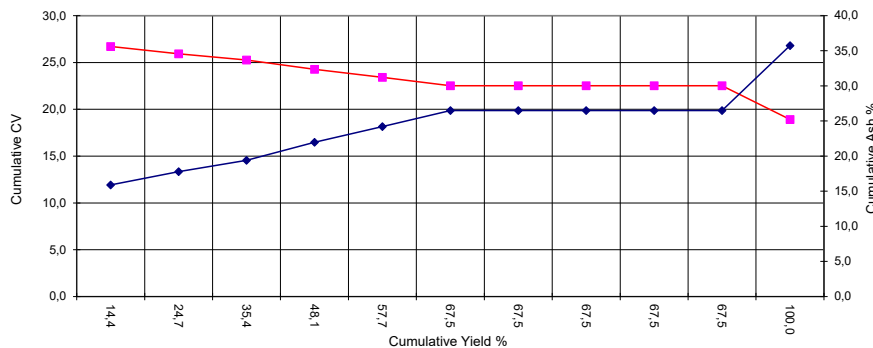
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To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP
Description	320 S2L
Date	25-10-2013

Mass as Rec.	8,90
Thickness	
Rel.Dens.	
Total Mass	8,13
Raw Rel.Dens	1,68

Fractional Analysis										DAF Results	
Sample Number	Dens.	Mass	Yield	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV	Volatile
				SWP 020	SWP 025	SWP 024	SWP 023		SWP 021		
				Based on	Based on	Based on	Based on		Based on		
				ISO	SABS	ISO	ISO		ASTM		
				1928	5925	1997	562		D4239		
Number		kg	%	MJ/kg	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	MJ/kg	% <sup>m</sup> / <sub>m</sub>
136 402	F 1.35	1,17	14,4	26,71	1,60	15,9	31,0	51,5	0,47	32,38	37,58
136 403	F 1.40	0,84	10,3	24,83	1,90	20,4	29,3	48,4	0,43	31,96	37,71
136 404	F 1.45	0,87	10,7	23,75	2,80	23,1	21,9	52,2	0,31	32,05	29,55
136 405	F 1.50	1,03	12,7	21,47	4,80	29,2	19,4	46,6	0,28	32,53	29,39
136 406	F 1.55	0,78	9,6	19,07	2,00	35,4	19,1	43,5	0,24	30,46	30,51
136 407	F 1.60	0,80	9,8	17,32	1,00	39,8	17,5	41,7	1,02	29,26	29,56
136 408	F 1.65	0,00									
136 409	F 1.70	0,00									
136 410	F 1.75	0,00									
136 411	F 1.80	0,00									
136 412	S 1.80	2,64	32,5	11,43	1,40	55,0	14,1	29,5	1,73	26,22	32,34
136413	RAW	0,20	100,0	19,10	2,6	35,2	19,0	43,2	0,23	30,71	30,55
136414	-0.5MM	0,50	100,0	18,31	1,7	37,6	13,1	47,6	0,27	30,16	21,58
136402	F 1.35	1,17	14,4	26,7	1,6	15,9	31,0	51,5	0,5	32,38	37,58
136403	F 1.40	2,01	24,7	25,92	1,7	17,8	30,3	50,2	0,45	32,21	37,63
136404	F 1.45	2,88	35,4	25,27	2,1	19,4	27,8	50,8	0,41	32,16	35,33
136405	F 1.50	3,91	48,1	24,27	2,8	22,0	25,6	49,7	0,38	32,25	33,96
136406	F 1.55	4,69	57,7	23,40	2,6	24,2	24,5	48,7	0,35	31,99	33,47
136407	F 1.60	5,49	67,5	22,52	2,4	26,5	23,5	47,7	0,45	31,66	32,99
136408	F 1.65	5,49	67,5	22,52	2,4	26,5	23,5	47,7	0,45		
136409	F 1.70	5,49	67,5	22,52	2,4	26,5	23,5	47,7	0,45		
136410	F 1.75	5,49	67,5	22,52	2,4	26,5	23,5	47,7	0,45		
136411	F 1.80	5,49	67,5	22,52	2,4	26,5	23,5	47,7	0,45		
136412	S 1.80	8,13	100,0	18,92	2,1	35,7	20,4	41,8	0,87	30,42	32,84
										0,00	0,00



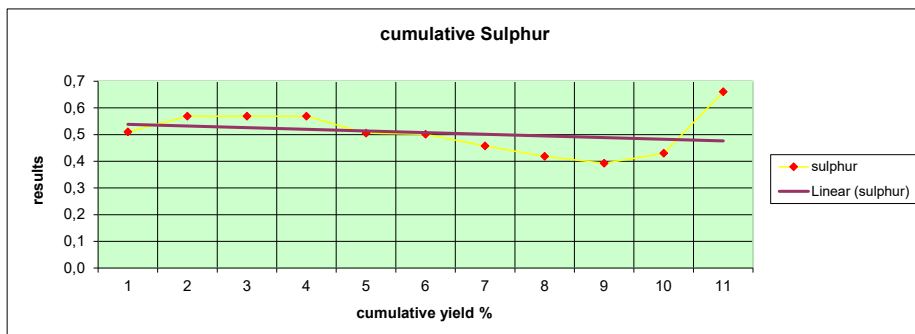
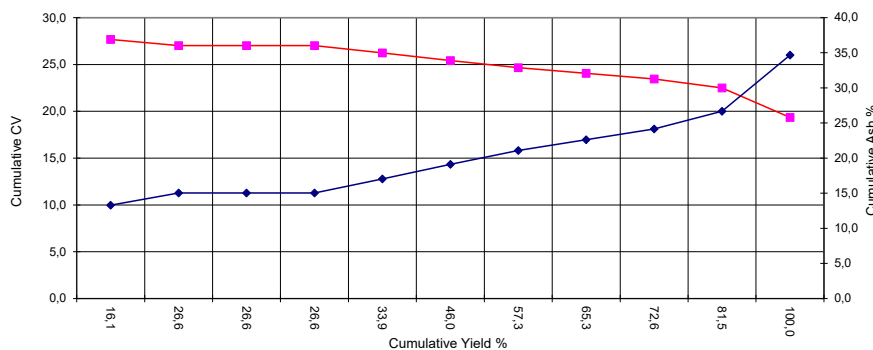
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To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP
Description	320 S4U
Date	25-Oct-13

Mass as Rec.	3,65
Thickness	
Rel.Dens.	
Total Mass	1,24
Raw Rel.Dens	1,59

Fractional Analysis										DAF Results	
Sample	Dens.	Mass	Yield	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV	Volatilit
Number				SWP 020	SWP 025	SWP 024	SWP 023		SWP 021		
				Based on	Based on	Based on	Based on		Based on		
				ISO	SABS	ISO	ISO		ASTM		
				1928	5925	1997	562		D4239		
Number	2.8	kg	%	MJ/kg	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	MJ/kg	% <sup>m</sup> / <sub>m</sub>
136 436	F 1.35	0,20	16,1	27,67	2,90	13,3	28,3	55,5	0,51	33,02	33,77
136 437	F 1.40	0,13	10,5	26,01	2,60	17,7	26,8	52,9	0,66	32,63	33,63
136 438	F 1.45	0,00									
136 439	F 1.50	0,00									
136 440	F 1.55	0,09	7,3	23,40	2,40	24,4	24,1	49,1	0,27	31,97	32,92
136 441	F 1.60	0,15	12,1	23,15	2,60	24,9	22,2	50,3	0,49	31,93	30,62
136 442	F 1.65	0,14	11,3	21,50	2,60	29,1	20,5	47,8	0,28	31,48	30,01
136 443	F 1.70	0,10	8,1	19,80	2,30	33,6	19,6	44,5	0,14	30,89	30,58
136 444	F 1.75	0,09	7,3	18,08	2,30	37,9	19,1	40,7	0,16	30,23	31,94
136 445	F 1.80	0,11	8,9	14,57	1,90	47,2	17,1	33,8	0,74	28,62	33,60
136 446	S 1.80	0,23	18,5	5,55	1,50	69,8	11,7	17,0	1,67	19,34	40,77
136447	RAW	0,31	100,0	19,42	3,5	34,2	18,6	43,7	0,10	31,17	29,86
136448	-0.5MM	0,12	100,0	16,18	3,1	33,5	22,6	40,8	0,35	25,52	35,65
136436	F 1.35	0,20	16,1	27,7	2,9	13,3	28,3	55,5	0,5	33,02	33,77
136437	F 1.40	0,33	26,6	27,02	2,8	15,0	27,7	54,5	0,57	32,87	33,72
136438	F 1.45	0,33	26,6	27,02	2,8	15,0	27,7	54,5	0,57		
136439	F 1.50	0,33	26,6	27,02	2,8	15,0	27,7	54,5	0,57		
136440	F 1.55	0,42	33,9	26,24	2,7	17,0	26,9	53,3	0,51	32,70	33,56
136441	F 1.60	0,57	46,0	25,43	2,7	19,1	25,7	52,5	0,50	32,51	32,84
136442	F 1.65	0,71	57,3	24,65	2,7	21,1	24,7	51,6	0,46	32,33	32,34
136443	F 1.70	0,81	65,3	24,05	2,6	22,6	24,0	50,7	0,42	32,17	32,16
136444	F 1.75	0,90	72,6	23,46	2,6	24,2	23,5	49,7	0,39	32,02	32,14
136445	F 1.80	1,01	81,5	22,49	2,5	26,7	22,8	48,0	0,43	31,75	32,25
136446	S 1.80	1,24	100,0	19,35	2,3	34,7	20,8	42,2	0,66	30,70	32,97
										0,00	0,00



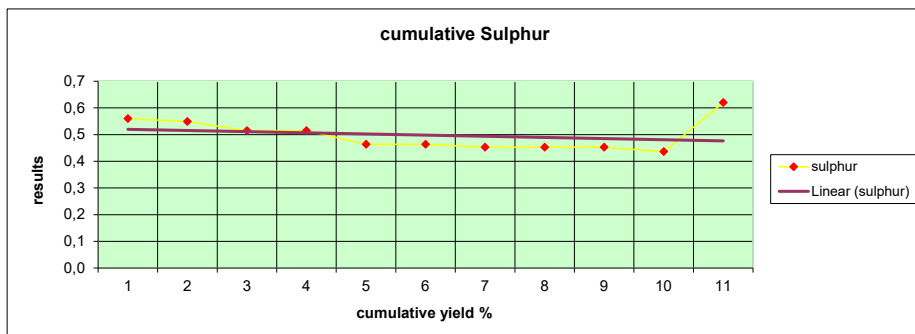
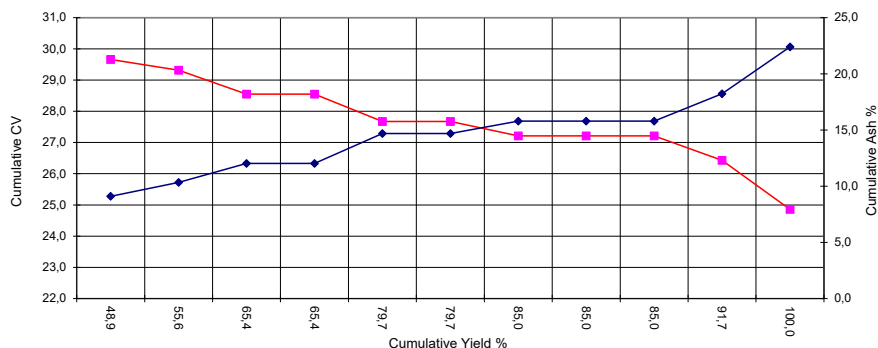
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To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP
Description	320 S5
Date	25-Oct-13

Mass as Rec.	1,95
Thickness	
Rel.Dens.	
Total Mass	1,33
Raw Rel.Dens	1,47

Fractional Analysis										DAF Results	
Sample Number	Dens.	Mass	Yield	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV	Volatile
				SWP 020	SWP 025	SWP 024	SWP 023		SWP 021		
				Based on	Based on	Based on	Based on		Based on		
				ISO	SABS	ISO	ISO		ASTM		
				1928	5925	1997	562		D4239		
Number		kg	%	MJ/kg	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	MJ/kg	% <sup>m</sup> / <sub>m</sub>
136 062	F 1.35	0,65	48,9	29,66	1,8	9,1	26,0	63,1	0,56	33,29	29,18
136 063	F 1.40	0,09	6,8	26,82	1,9	19,3	21,6	57,2	0,47	34,04	27,41
136 064	F 1.45	0,13	9,8	24,20	2,2	21,6	17,7	58,5	0,32	31,76	23,23
136 065	F 1.50	0,00									
136 066	F 1.55	0,19	14,3	23,66	2,4	26,9	16,5	54,2	0,23	33,47	23,34
136 067	F 1.60	0,00									
136 068	F 1.65	0,07	5,3	20,27	2,1	32,4	16,3	49,2	0,28	30,95	24,89
136 069	F 1.70	0,00									
136 070	F 1.75	0,00									
136 071	F 1.80	0,09	6,8	16,54	2,6	48,8	13,0	35,6	0,23	34,03	26,75
136 072	S 1.80	0,11	8,3	7,45	2,2	68,7	9,2	19,9	2,66	25,60	31,62
136073	RAW	0,37	100,0	27,02	1,8	18,0	21,3	58,9	0,55	33,69	26,56
136074	-0.5MM	0,23	100,0	23,12	2,1	26,5	20,1	51,3	0,95	32,38	28,15
136062	F 1.35	0,65	48,9	29,7	1,8	9,1	26,0	63,1	0,6		29,18
136063	F 1.40	0,74	55,6	29,31	1,8	10,3	25,5	62,4	0,55	33,37	28,99
136064	F 1.45	0,87	65,4	28,55	1,9	12,0	24,3	61,8	0,51	33,16	28,23
136065	F 1.50	0,87	65,4	28,55	1,9	12,0	24,3	61,8	0,51		
136066	F 1.55	1,06	79,7	27,67	2,0	14,7	22,9	60,4	0,46	33,20	27,48
136067	F 1.60	1,06	79,7	27,67	2,0	14,7	22,9	60,4	0,46		
136068	F 1.65	1,13	85,0	27,22	2,0	15,8	22,5	59,7	0,45	33,09	27,35
136069	F 1.70	1,13	85,0	27,22	2,0	15,8	22,5	59,7	0,45		
136070	F 1.75	1,13	85,0	27,22	2,0	15,8	22,5	59,7	0,45		
136071	F 1.80	1,22	91,7	26,43	2,0	18,2	21,8	58,0	0,44	33,13	27,33
136072	S 1.80	1,33	100,0	24,86	2,0	22,4	20,8	54,8	0,62	32,89	27,46
										0,00	0,00



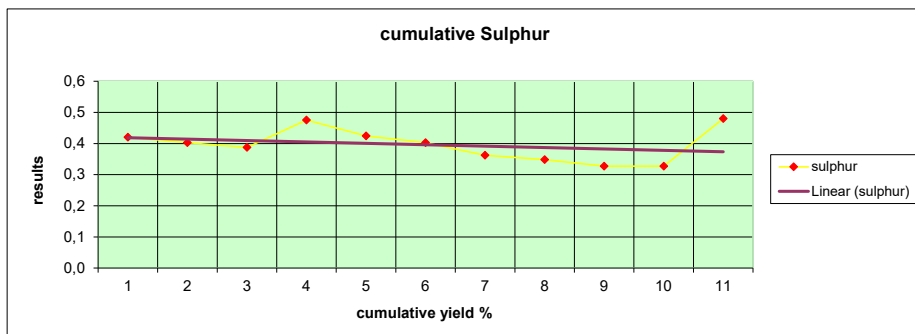
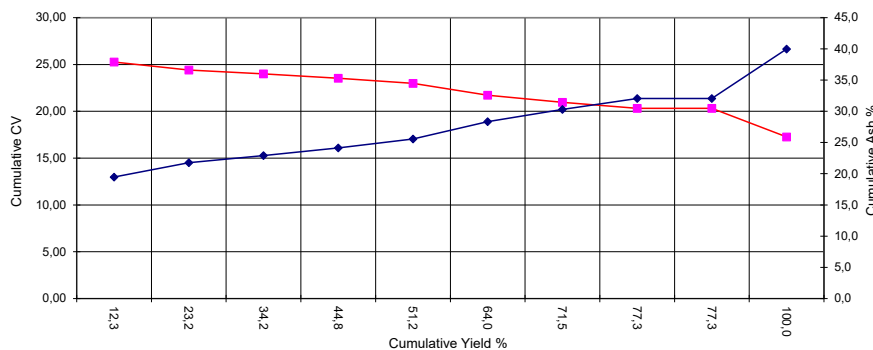
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To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP
Description	321 S2L
Date	25-Oct-13

Mass as Rec.	13,12
Thickness	
Rel.Dens.	
Total Mass	12,33
Raw Rel.Dens	1,71

Fractional Analysis										DAF Results	
Sample Number	Dens.	Mass	Yield	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV	Volatile
				SWP 020	SWP 025	SWP 024	SWP 023		SWP 021		
				Based on	Based on	Based on	Based on		Based on		
				ISO	SABS	ISO	ISO		ASTM		
				1928	5925	1997	562		D4239		
Number		kg	%	MJ/kg	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	MJ/kg	% <sup>m</sup> / <sub>m</sub>
136 388	F 1.35	0,85	6,9	25,71	2,1	18,5	24,7	54,7	0,42	32,38	31,11
136 389	F 1.40	0,67	5,4	24,69	1,9	20,7	24,3	53,1	0,38	31,90	31,40
136 390	F 1.45	1,34	10,9	23,45	2,8	24,4	23,4	49,4	0,37	32,21	32,14
136 391	F 1.50	1,36	11,0	23,12	2,6	25,3	22,2	49,9	0,66	32,07	30,79
136 392	F 1.55	1,31	10,6	21,99	2,0	28,0	21,8	48,2	0,26	31,41	31,14
136 393	F 1.60	0,78	6,3	19,23	2,4	35,7	18,7	43,2	0,25	31,07	30,21
136 394	F 1.65	1,58	12,8	16,65	2,1	39,5	17,5	40,9	0,20	28,51	29,97
136 395	F 1.70	0,92	7,5	14,51	2,3	47,0	15,8	34,9	0,23	28,62	31,16
136 396	F 1.75	0,72	5,8	12,23	2,2	53,4	14,3	30,1	0,07	27,55	32,21
136 397	F 1.80	0,00									
136 398	S 1.80	2,80	22,7	6,91	1,9	67,0	11,9	19,2	1,00	22,22	38,26
136399	RAW	0,29	100,0	15,55	1,7	38,2	13,6	46,5	0,24	25,87	22,63
136400	-0.5MM	0,50	100,0	8,97	2,0	61,9	13,0	23,1	0,07	24,85	36,01
136388	F 1.35	0,85	6,9	25,7	2,1	18,5	24,7	54,7	0,4	32,38	31,11
136389	F 1.40	1,52	12,3	25,26	2,0	19,5	24,5	54,0	0,40	32,17	31,23
136390	F 1.45	2,86	23,2	24,41	2,4	21,8	24,0	51,8	0,39	32,19	31,64
136391	F 1.50	4,22	34,2	24,00	2,5	22,9	23,4	51,2	0,48	32,15	31,38
136392	F 1.55	5,53	44,8	23,52	2,3	24,1	23,0	50,5	0,42	31,98	31,32
136393	F 1.60	6,31	51,2	22,99	2,4	25,6	22,5	49,6	0,40	31,89	31,21
136394	F 1.65	7,89	64,0	21,72	2,3	28,3	21,5	47,9	0,36	31,32	31,00
136395	F 1.70	8,81	71,5	20,97	2,3	30,3	20,9	46,5	0,35	31,11	31,01
136396	F 1.75	9,53	77,3	20,31	2,3	32,0	20,4	45,3	0,33	30,92	31,07
136397	F 1.80	9,53	77,3	20,31	2,3	32,0	20,4	45,3	0,33		
136398	S 1.80	12,33	100,0	17,27	2,2	40,0	18,5	39,3	0,48	29,86	31,95
										0,00	0,00



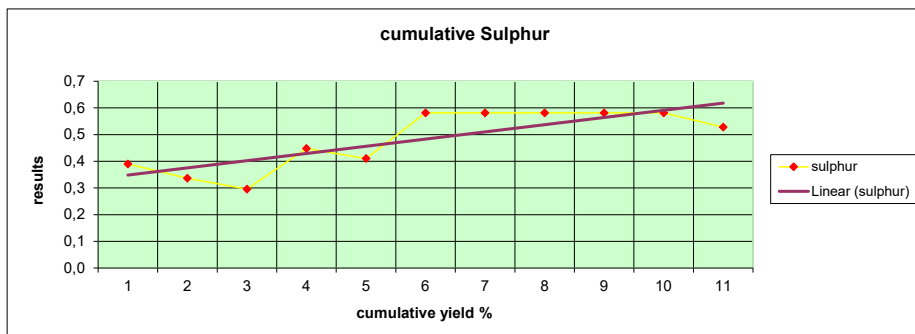
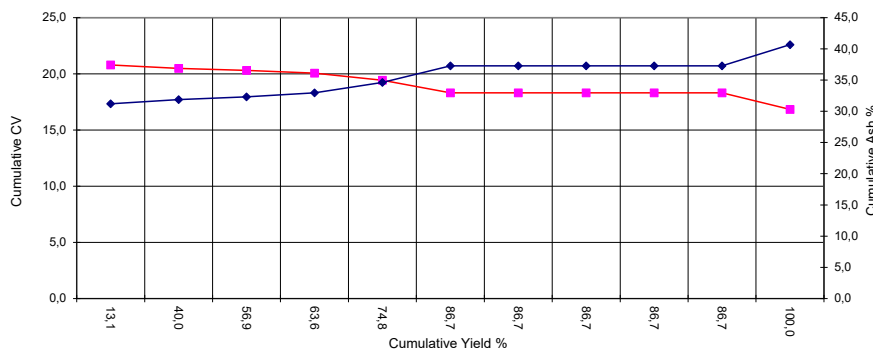
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To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP
Description	321 S2U
Date	25-Oct-13

Mass as Rec.	6,72
Thickness	
Rel.Dens.	
Total Mass	5,27
Raw Rel.Dens	1,74

Fractional Analysis										DAF Results	
Sample Number	Dens.	Mass	Yield	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV	Volatile
				SWP 020	SWP 025	SWP 024	SWP 023		SWP 021		
				Based on	Based on	Based on	Based on		Based on		
				ISO	SABS	ISO	ISO		ASTM		
				1928	5925	1997	562		D4239		
Number	2.8	kg	%	MJ/kg	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	% <sup>m</sup> / <sub>m</sub>	MJ/kg	% <sup>m</sup> / <sub>m</sub>
136 088	F 1.35	0,69	13,1	20,79	2,5	31,2	21,2	45,1	0,39	31,36	31,98
136 089	F 1.40	1,42	26,9	20,34	2,7	32,2	20,2	44,9	0,31	31,24	31,03
136 090	F 1.45	0,89	16,9	19,89	2,4	33,4	18,9	45,3	0,20	30,98	29,44
136 091	F 1.50	0,35	6,6	17,99	2,4	38,4	18,5	40,7	1,75	30,39	31,25
136 092	F 1.55	0,59	11,2	15,83	2,4	44,0	16,0	37,6	0,20	29,53	29,85
136 093	F 1.60	0,63	12,0	11,30	2,2	54,0	14,3	29,5	1,65	25,80	32,65
136 094	F 1.65	0,00									
136 095	F 1.70	0,00									
136 096	F 1.75	0,00									
136 097	F 1.80	0,00									
136 098	S 1.80	0,70	13,3	7,20	1,8	62,8	13,4	22,0	0,18	20,34	37,85
136099	RAW	1,16	100,0	17,10	3,0	40,0	18,6	38,4	0,76	30,00	32,63
136100	-0.5MM	0,27	100,0	18,54	3,2	36,9	18,6	41,3	0,27	30,95	31,05
136088	F 1.35	0,69	13,1	20,8	2,5	31,2	21,2	45,1	0,4	31,36	31,98
136089	F 1.40	2,11	40,0	20,49	2,6	31,9	20,5	45,0	0,34	31,28	31,34
136090	F 1.45	3,00	56,9	20,31	2,6	32,3	20,0	45,1	0,30	31,19	30,79
136091	F 1.50	3,35	63,6	20,07	2,5	33,0	19,9	44,6	0,45	31,12	30,83
136092	F 1.55	3,94	74,8	19,43	2,5	34,6	19,3	43,6	0,41	30,91	30,71
136093	F 1.60	4,57	86,7	18,31	2,5	37,3	18,6	41,6	0,58	30,40	30,90
136094	F 1.65	4,57	86,7	18,31	2,5	37,3	18,6	41,6	0,58		
136095	F 1.70	4,57	86,7	18,31	2,5	37,3	18,6	41,6	0,58		
136096	F 1.75	4,57	86,7	18,31	2,5	37,3	18,6	41,6	0,58		
136097	F 1.80	4,57	86,7	18,31	2,5	37,3	18,6	41,6	0,58		
136098	S 1.80	5,27	100,0	16,84	2,4	40,7	17,9	39,0	0,53	29,57	31,47
										0,00	0,00



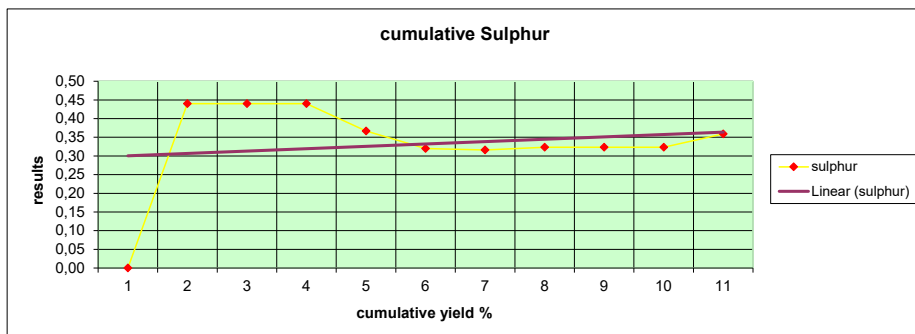
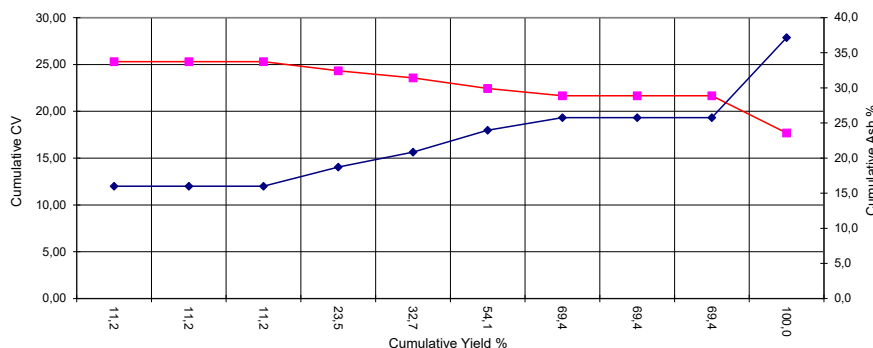
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To	ZANDILE
MINE	AEMFC
SAMPLE	VLKP
Description	321 S4U
Date	25-Oct-13

Mass as Rec.	1,50
Thickness	
Rel.Dens.	
Total Mass	0,98
Raw Rel.Dens	1,70

Fractional Analysis										DAF Results	
Sample Number	Dens.	Mass	Yield	CV	Inh H2O	Ash	Volatile	F.Carb.	T.S.	CV	Volatile
				SWP 020	SWP 025	SWP 024	SWP 023		SWP 021		
				Based on	Based on	Based on	Based on		Based on		
				ISO	SABS	ISO	ISO		ASTM		
				1928	5925	1997	562		D4239		
Number	2.8	kg	%	MJ/kg	% <sup>m/m</sup>	% <sup>m/m</sup>	% <sup>m/m</sup>	% <sup>m/m</sup>	% <sup>m/m</sup>	MJ/kg	% <sup>m/m</sup>
136 449	F 1.35	0,00									
136 450	F 1.40	0,11	11,2	25,30	2,80	16,0	27,8	53,4	0,44	31,16	34,24
136 451	F 1.45	0,00									
136 452	F 1.50	0,00									
136 453	F 1.55	0,12	12,2	23,43	3,10	21,2	23,8	51,9	0,30	30,95	31,44
136 454	F 1.60	0,09	9,2	21,62	2,90	26,3	23,7	47,1	0,20	30,54	33,47
136 455	F 1.65	0,21	21,4	20,71	2,70	28,7	20,6	48,0	0,31	30,19	30,03
136 456	F 1.70	0,15	15,3	18,93	2,90	32,1	18,8	46,2	0,35	29,12	28,92
136 457	F 1.75	0,00									
136 458	F 1.80	0,00									
136 459	S 1.80	0,30	30,6	8,66	2,00	63,0	13,6	21,4	0,44	24,74	38,86
136460	RAW	0,35	100,0	17,92	1,5	37,4	18,2	42,9	0,13	29,33	29,79
136461	-0.5MM	0,10	100,0	14,60	3,1	45,9	12,4	38,6	0,47	28,63	24,31
136449	F 1.35	0,00	0,0	0,00	0,0	0,0	0,0	0,0	0,00		
136450	F 1.40	0,11	11,2	25,30	2,8	16,0	27,8	53,4	0,44	31,16	34,24
136451	F 1.45	0,11	11,2	25,30	2,8	16,0	27,8	53,4	0,44		
136452	F 1.50	0,11	11,2	25,30	2,8	16,0	27,8	53,4	0,44		
136453	F 1.55	0,23	23,5	24,32	3,0	18,7	25,7	52,6	0,37	31,05	32,83
136454	F 1.60	0,32	32,7	23,56	2,9	20,8	25,1	51,1	0,32	30,92	33,00
136455	F 1.65	0,53	54,1	22,43	2,8	24,0	23,3	49,9	0,32	30,65	31,89
136456	F 1.70	0,68	69,4	21,66	2,9	25,8	22,3	49,0	0,32	30,34	31,30
136457	F 1.75	0,68	69,4	21,66	2,9	25,8	22,3	49,0	0,32		
136458	F 1.80	0,68	69,4	21,66	2,9	25,8	22,3	49,0	0,32		
136459	S 1.80	0,98	100,0	17,68	2,6	37,2	19,7	40,6	0,36	29,35	32,64
										0,00	0,00



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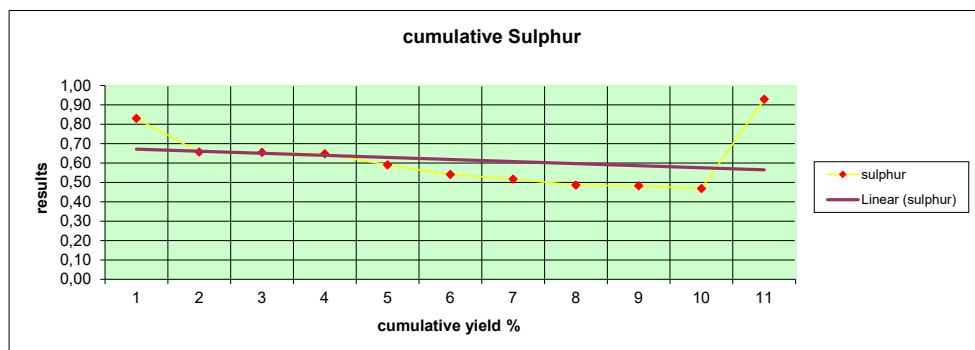
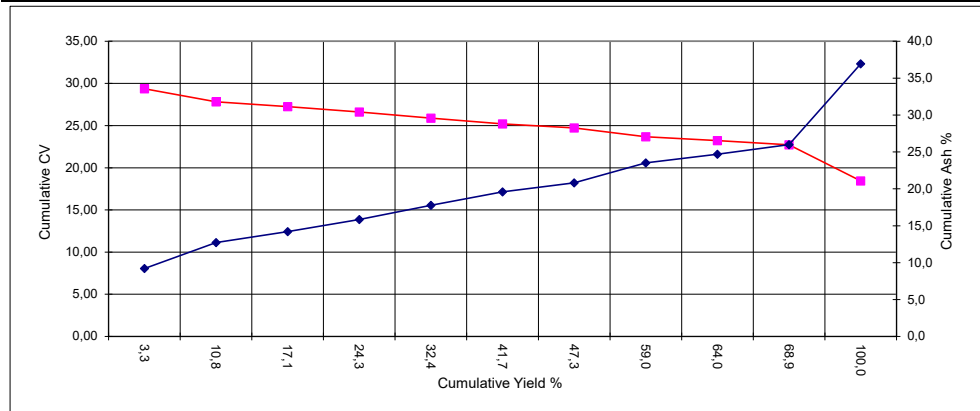
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To	ZANDILE
MINE	AEMFC
SAMPLE	VLK
Description	332 S4L
Date	18-Oct-13

Mass as Rec.	26,20
Thickness	
Rel.Dens.	
Total Mass	6,02
Raw Rel.Dens	1,70

Fractional Analysis										DAF Results	
Sample Number	Dens. 2.8	Mass kg	Yield %	CV	Inh H2O	Ash	Volatile	F.Carb. %	T.S. %	CV %	Volatile %
27877	F 1.35	0,20	3,3	29,37	3,0	9,2	32,4	55,4	0,83	33,45	36,90
27878	F 1.40	0,45	7,5	27,14	3,1	14,3	27,5	55,1	0,58	32,86	33,29
27879	F 1.45	0,38	6,3	26,25	3,3	16,7	26,1	53,9	0,65	32,81	32,63
27880	F 1.50	0,43	7,1	25,14	2,9	19,8	24,5	52,8	0,63	32,52	31,69
27881	F 1.55	0,49	8,1	23,70	3,3	23,5	22,6	50,6	0,42	32,38	30,87
27882	F 1.60	0,56	9,3	22,77	3,2	25,9	21,1	49,8	0,37	32,12	29,76
27883	F 1.65	0,34	5,6	21,24	3,1	29,9	20,1	46,9	0,34	31,70	30,00
27884	F 1.70	0,70	11,6	19,46	2,9	34,5	19,4	43,2	0,36	31,09	30,99
27885	F 1.75	0,30	5,0	17,78	2,9	38,6	17,8	40,7	0,43	30,39	30,43
27886	F 1.80	0,30	5,0	16,23	2,7	42,9	17,2	37,2	0,30	29,83	31,62
27887	S.1.80	1,87	31,1	8,96	2,2	61,2	14,4	22,2	1,95	24,48	39,34
27875	RAW	3,06	100,0	18,69	2,7	36,7	21,0	39,6	0,69	30,84	34,65
27876	-0.5MM	0,12	100,0	18,97	2,8	35,4	21,9	39,9	0,74	30,70	35,44
Cumulative Calculation											
27877	F 1.35	0,20	3,3	29,37	3,0	9,2	32,4	55,4	0,83	33,45	36,90
27878	F 1.40	0,65	10,8	27,83	3,1	12,7	29,0	55,2	0,66	33,05	34,45
27879	F 1.45	1,03	17,1	27,24	3,2	14,2	27,9	54,7	0,65	32,96	33,80
27880	F 1.50	1,46	24,3	26,62	3,1	15,8	26,9	54,2	0,65	32,84	33,21
27881	F 1.55	1,95	32,4	25,89	3,1	17,8	25,8	60,6	0,59	32,73	32,67
27882	F 1.60	2,51	41,7	25,19	3,1	19,6	24,8	58,2	0,54	32,61	32,07
27883	F 1.65	2,85	47,3	24,72	3,1	20,8	24,2	56,8	0,52	32,51	31,85
27884	F 1.70	3,55	59,0	23,68	3,1	23,5	23,3	54,2	0,49	32,27	31,71
27885	F 1.75	3,85	64,0	23,22	3,1	24,7	22,8	53,1	0,48	32,15	31,63
27886	F 1.80	4,15	68,9	22,72	3,1	26,0	22,4	52,0	0,47	32,02	31,63
27887	S.1.80	6,02	100,0	18,44	2,8	36,9	19,9	42,7	0,93	30,60	33,08
										0,00	0,00



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WASHABILITY DATA WEST BLOCK



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[zach.makwakwa@vodamail.co.za](mailto:zach.makwakwa@vodamail.co.za)

Borehole	VLKWE-20
Sample Number	S2U-A
Reference No.	348/24-1
Date Reported	29-Apr-2024
Attention	Zach Makwakwa

Project	VLKWE
Date Received	24/04/2024

## FRACTIONAL ANALYSIS ON AN AIR DRY BASIS

[illegible]

### CALCULATED CUMULATIVE ANALYSIS ON AN AIR DRY BASIS

	Wash Density	Mass Gram	Yield %	CV MJ/kg	IM %	ASH %	VM %	FC %	TS %	
	Fl 1.60	122	6.42	22.22	3.9	24.4	23.6	48.1	0.48	
	Fl 1.70	490	25.79	20.43	3.7	30.0	20.3	46.1	0.34	
	Fl 1.80	795	41.84	19.58	3.6	32.6	18.9	44.8	0.32	
	Fl 1.90	1245	65.52	18.27	3.6	35.4	18.0	43.1	0.24	
	Si 1.90	1900	100.00	15.39	3.3	43.5	16.2	37.0	0.58	
	C Raw	1928	100.00	15.41	3.3	43.5	16.2	37.0	0.58	

COMPILED BY: Chana Sithole  
Geology Manager

APPROVED BY: Morne Van Zyl  
Area Manager: (Technical Signatory)

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Borehole	VLKWE-20
Sample Number	S2U-B
Reference No.	348/24-1
Date Reported	29-Apr-2024
Attention	Zach Makwakwa

Project	VLKWE
Date Received	24/04/2024

## FRACTIONAL ANALYSIS ON AN AIR DRY BASIS

[illegible]

## CALCULATED CUMULATIVE ANALYSIS ON AN AIR DRY BASIS

	Wash Density	Mass Gram	Yield %	CV MJ/kg	IM %	ASH %	VM %	FC %	TS %	
	Fl 1.60	606	10.90	23.83	4.3	21.1	20.8	53.8	0.19	
	Fl 1.70	1576	28.35	21.24	4.2	25.6	20.1	50.1	0.18	
	Fl 1.80	3119	56.10	19.62	4.1	30.0	19.0	46.8	0.15	
	Fl 1.90	4654	83.71	18.11	3.9	34.8	18.3	42.9	0.15	
	Si 1.90	5560	100.00	16.61	3.8	38.6	17.7	40.0	1.14	
	C Raw	5643	100.00	16.63	3.7	38.5	17.7	40.0	1.12	

COMPILED BY: Chana Sithole  
Geology Manager

APPROVED BY: Morne Van Zyl  
Area Manager: (Technical Signatory)

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Borehole	VLKWE-20
Sample Number	S2U-C
Reference No.	348/24-1
Date Reported	29-Apr-2024
Attention	Zach Makwakwa

Project	VLKWE
Date Received	24/04/2024

### FRACTIONAL ANALYSIS ON AN AIR DRY BASIS

[illegible]

### CALCULATED CUMULATIVE ANALYSIS ON AN AIR DRY BASIS

	Wash Density	Mass Gram	Yield %	CV MJ/kg	IM %	ASH %	VM %	FC %	TS %	
	Fl 1.60	2539	39.62	25.63	4.0	18.3	23.5	54.2	0.17	
	Fl 1.70	3780	58.98	24.16	3.8	22.0	22.7	51.5	0.19	
	Fl 1.80	4743	74.00	22.88	3.7	24.9	22.7	48.8	0.30	
	Fl 1.90	5108	79.69	22.27	3.6	26.3	22.5	47.5	0.34	
	Si 1.90	6410	100.00	18.80	3.2	35.9	20.3	40.6	0.99	
	C Raw	6525	100.00	18.79	3.2	35.9	20.4	40.6	0.99	

COMPILED BY: Chana Sithole  
Geology Manager

APPROVED BY: Morne Van Zyl  
Area Manager: (Technical Signatory)

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Borehole	VLKWE-20
Sample Number	S2-L
Reference No.	348/24-1
Date Reported	29-Apr-2024
Attention	Zach Makwakwa

Project	VLKWE
Date Received	24/04/2024

[illegible]

APPROVED BY: Morne Van Zyl  
Area Manager: (Technical Signatory)



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Borehole	VLKWE-20
Sample Number	S4L-A
Reference No.	348/24-1
Date Reported	29-Apr-2024
Attention	Zach Makwakwa

Project	VLKWE
Date Received	24/04/2024

## FRACTIONAL ANALYSIS ON AN AIR DRY BASIS

[illegible]

### CALCULATED CUMULATIVE ANALYSIS ON AN AIR DRY BASIS

	Wash Density	Mass Gram	Yield %	CV MJ/kg	IM %	ASH %	VM %	FC %	TS %	
	Fl 1.60	5940	73.16	25.82	3.3	17.0	25.1	54.6	1.13	
	Fl 1.70	6856	84.44	24.96	3.3	19.1	24.6	53.0	1.15	
	Fl 1.80	7150	88.06	24.68	3.2	19.8	24.4	52.6	1.18	
	Fl 1.90	7385	90.95	24.35	3.2	20.7	24.2	51.9	1.18	
	Si 1.90	8120	100.00	23.10	3.1	23.8	23.9	49.2	1.42	
	C Raw	8195	100.00	23.09	3.1	23.8	23.9	49.2	1.41	

COMPILED BY: Chana Sithole  
Geology Manager

APPROVED BY: Morne Van Zyl  
Area Manager: (Technical Signatory)

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Borehole	VLKWE-20
Sample Number	S4L-B
Reference No.	348/24-1
Date Reported	29-Apr-2024
Attention	Zach Makwakwa

Project	VLKWE
Date Received	24/04/2024

## FRACTIONAL ANALYSIS ON AN AIR DRY BASIS

[illegible]

### CALCULATED CUMULATIVE ANALYSIS ON AN AIR DRY BASIS

	Wash Density	Mass Gram	Yield %	CV MJ/kg	IM %	ASH %	VM %	FC %	TS %	
	Fl 1.60	2067	27.20	23.79	3.8	22.4	23.7	50.1	0.65	
	Fl 1.70	2713	35.70	22.99	3.7	24.8	22.9	48.6	0.60	
	Fl 1.80	4668	61.42	20.77	3.5	31.1	20.9	44.6	0.46	
	Fl 1.90	5434	71.50	19.81	3.4	33.5	20.3	42.9	0.50	
	Si 1.90	7600	100.00	15.98	3.0	44.1	18.3	34.6	0.54	
	C Raw	7712	100.00	16.00	3.0	44.0	18.3	34.7	0.54	

COMPILED BY: Chana Sithole  
Geology Manager

APPROVED BY: Morne Van Zyl  
Area Manager: (Technical Signatory)

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Borehole	VLKWE-20
Sample Number	S4U
Reference No.	348/24-1
Date Reported	29-Apr-2024
Attention	Zach Makwakwa

Project	VLKWE
Date Received	24/04/2024

## FRACTIONAL ANALYSIS ON AN AIR DRY BASIS

[illegible]

CALCULATED CUMULATIVE ANALYSIS ON AN AIR DRY BASIS

	Wash Density	Mass Gram	Yield %	CV MJ/kg	IM %	ASH %	VM %	FC %	TS %	
	Fl 1.60	1048	41.42	24.83	2.8	21.7	26.0	49.5	0.87	
	Fl 1.70	1641	64.86	22.95	2.7	25.9	24.4	47.0	0.79	
	Fl 1.80	1797	71.03	22.40	2.7	27.2	24.0	46.1	0.75	
	Fl 1.90	2153	85.10	21.15	2.6	30.2	23.3	43.9	1.34	
	Si 1.90	2530	100.00	19.62	2.5	34.0	22.1	41.4	1.26	
	C Raw	2578	100.00	19.62	2.5	33.9	22.1	41.4	1.24	

COMPILED BY: Chana Sithole  
Geology Manager

APPROVED BY: Morne Van Zyl  
Area Manager: (Technical Signatory)

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Borehole	VLKWE-20
Sample Number	S5
Reference No.	348/24-1
Date Reported	29-Apr-2024
Attention	Zach Makwakwa

Project	VLKWE
Date Received	24/04/2024

## FRACTIONAL ANALYSIS ON AN AIR DRY BASIS

[illegible]

### CALCULATED CUMULATIVE ANALYSIS ON AN AIR DRY BASIS

	Wash Density	Mass Gram	Yield %	CV MJ/kg	IM %	ASH %	VM %	FC %	TS %	
	Fl 1.60	1176	84.61	26.82	3.7	14.7	23.2	58.4	0.44	
	Fl 1.70	1230	88.49	26.52	3.7	15.4	23.1	57.9	0.44	
	Fl 1.80	1271	91.44	26.30	3.7	15.9	23.0	57.5	0.45	
	Fl 1.90	1271	91.44	26.30	3.7	15.9	23.0	57.5	0.45	
	Si 1.90	1390	100.00	25.26	3.6	18.4	22.4	55.7	0.46	
	C Raw	1432	100.00	25.13	3.6	18.7	22.4	55.3	0.49	

COMPILED BY: Chana Sithole  
Geology Manager

APPROVED BY: Morne Van Zyl  
Area Manager: (Technical Signatory)

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Reference No.	348/24-1
Date Reported	29/04/2024
Attention	Zach Makwakwa
Project	

## Analysis reported on an Air-Dry Basis

[illegible]

COMPILED BY: Chana Sithole  
Geology Manager

APPROVED BY: Morne Van Zyl  
Area Manager; ( Technical Signatory)

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Borehole	VLKWE023
Sample Number	S4U
Reference No.	285/24-1
Date Reported	19-Apr-2024
Attention	Zach Makwakwa

Project	VLKWE
Date Received	12/04/2024

## FRACTIONAL ANALYSIS ON AN AIR DRY BASIS

[illegible]

### CALCULATED CUMULATIVE ANALYSIS ON AN AIR DRY BASIS

	Wash Density	Mass Gram	Yield %	CV MJ/kg	IM %	ASH %	VM %	FC %	TS %	
	Fl 1.60	895	45.45	24.62	2.3	21.6	24.5	51.6	1.19	
	Fl 1.70	1301	66.07	23.37	2.3	24.5	23.2	50.0	1.20	
	Fl 1.75	1475	74.91	22.80	2.3	25.9	22.7	49.1	1.10	
	Fl 1.80	1535	77.96	22.52	2.3	26.5	22.5	48.7	1.07	
	Si 1.80	1969	100.00	19.52	2.1	34.2	20.9	42.8	2.20	
	C Raw	1989	100.00	19.53	2.1	34.2	20.9	42.8	2.20	

COMPILED BY: Chana Sithole  
Geology Manager

APPROVED BY: Morne Van Zyl  
Area Manager: (Technical Signatory)

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Borehole	VLKWE023
Sample Number	S4L-B
Reference No.	285/24-1
Date Reported	19-Apr-2024
Attention	Zach Makwakwa

Project	VLKWE
Date Received	12/04/2024

### FRACTIONAL ANALYSIS ON AN AIR DRY BASIS

[illegible]

CALCULATED CUMULATIVE ANALYSIS ON AN AIR DRY BASIS

	Wash Density	Mass Gram	Yield %	CV MJ/kg	IM %	ASH %	VM %	FC %	TS %	
	Fl 1.60	1644	30.02	20.05	3.2	31.2	21.0	44.6	0.60	
	Fl 1.70	3102	56.65	19.08	2.9	34.2	20.5	42.4	0.48	
	Fl 1.75	3744	68.38	18.69	2.8	35.3	20.1	41.8	0.44	
	Fl 1.80	4195	76.62	18.14	2.7	36.7	19.7	40.9	0.41	
	Si 1.80	5475	100.00	15.61	2.5	43.3	18.4	35.9	1.28	
	C Raw	5923	100.00	15.75	2.5	42.8	18.5	36.1	1.21	

COMPILED BY: Chana Sithole  
Geology Manager

APPROVED BY: Morne Van Zyl  
Area Manager: (Technical Signatory)

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# TEST REPORT

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30 Tuscan Village  
2 Piet Joubert street, Secunda  
[zach.makwakwa@vodamail.co.za](mailto:zach.makwakwa@vodamail.co.za)

Borehole	VLKWE023
Sample Number	S4L-A
Reference No.	285/24-1
Date Reported	19-Apr-2024
Attention	Zach Makwakwa

Project	VLKWE
Date Received	12/04/2024

## FRACTIONAL ANALYSIS ON AN AIR DRY BASIS

[illegible]

### CALCULATED CUMULATIVE ANALYSIS ON AN AIR DRY BASIS

	Wash Density	Mass Gram	Yield %	CV MJ/kg	IM %	ASH %	VM %	FC %	TS %	
	Fl 1.60	6581	66.78	25.24	3.7	18.1	25.4	52.8	0.62	
	Fl 1.70	7922	80.39	24.28	3.5	20.7	24.2	51.5	0.56	
	Fl 1.75	8356	84.79	23.93	3.5	21.7	23.9	50.9	0.56	
	Fl 1.80	8529	86.55	23.75	3.4	22.1	23.8	50.6	0.57	
	Si 1.80	9854	100.00	22.11	3.2	26.5	22.9	47.5	1.25	
	C Raw	10114	100.00	22.09	3.2	26.5	22.9	47.4	1.23	

COMPILED BY: Chana Sithole  
Geology Manager

APPROVED BY: Morne Van Zyl  
Area Manager: (Technical Signatory)

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Borehole	VLKWE023
Sample Number	S2U-A
Reference No.	285/24-1
Date Reported	19-Apr-2024
Attention	Zach Makwakwa

Project	VLKWE
Date Received	12/04/2024

## FRACTIONAL ANALYSIS ON AN AIR DRY BASIS

[illegible]

CALCULATED CUMULATIVE ANALYSIS ON AN AIR DRY BASIS

	Wash Density	Mass Gram	Yield %	CV MJ/kg	IM %	ASH %	VM %	FC %	TS %	
	Fl 1.60	231	6.94	20.43	2.6	32.2	21.6	43.6	0.64	
	Fl 1.70	654	19.65	19.43	2.4	34.6	21.0	42.0	0.82	
	Fl 1.75	1226	36.84	18.58	2.3	36.2	20.8	40.7	0.60	
	Fl 1.80	1747	52.50	17.40	2.2	39.2	19.2	39.4	0.46	
	Si 1.80	3328	100.00	14.18	1.9	48.3	16.9	32.9	2.04	
	C Raw	3453	100.00	14.23	1.9	48.1	17.0	33.0	1.98	

COMPILED BY: Chana Sithole  
Geology Manager

APPROVED BY: Morne Van Zyl  
Area Manager: (Technical Signatory)

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Borehole	VLKWE023
Sample Number	S2U-B
Reference No.	285/24-1
Date Reported	19-Apr-2024
Attention	Zach Makwakwa

Project	VLKWE
Date Received	12/04/2024

## FRACTIONAL ANALYSIS ON AN AIR DRY BASIS

[illegible]

### CALCULATED CUMULATIVE ANALYSIS ON AN AIR DRY BASIS

	Wash Density	Mass Gram	Yield %	CV MJ/kg	IM %	ASH %	VM %	FC %	TS %	
	Fl 1.60	2878	42.04	24.92	3.0	19.5	22.7	54.8	0.22	
	Fl 1.70	4486	65.54	23.31	2.9	23.4	22.7	51.0	0.31	
	Fl 1.75	5103	74.56	22.66	2.8	25.1	22.7	49.5	0.31	
	Fl 1.80	5409	79.03	22.23	2.8	26.2	22.6	48.5	0.33	
	Si 1.80	6844	100.00	20.04	2.6	31.7	22.1	43.7	1.66	
	C Raw	7264	100.00	20.13	2.6	31.6	22.0	43.8	1.62	

COMPILED BY: Chana Sithole  
Geology Manager

APPROVED BY: Morne Van Zyl  
Area Manager: (Technical Signatory)

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Borehole	VLKWE023
Sample Number	S2U-C
Reference No.	285/24-1
Date Reported	19-Apr-2024
Attention	Zach Makwakwa

Project	VLKWE
Date Received	12/04/2024

## FRACTIONAL ANALYSIS ON AN AIR DRY BASIS

[illegible]

### CALCULATED CUMULATIVE ANALYSIS ON AN AIR DRY BASIS

	Wash Density	Mass Gram	Yield %	CV MJ/kg	IM %	ASH %	VM %	FC %	TS %	
	FI 1.60	901	39.90	24.82	3.5	20.2	29.5	46.8	0.34	
	FI 1.70	1483	65.68	23.00	3.3	24.7	25.7	46.3	0.26	
	FI 1.75	1839	81.45	22.05	3.2	27.5	24.1	45.2	0.23	
	FI 1.80	1987	88.00	21.73	3.2	28.4	23.7	44.8	0.22	
	Si 1.80	2258	100.00	20.66	3.0	31.1	22.9	43.0	0.23	
	C Raw	2400	100.00	20.62	3.0	31.1	22.9	43.0	0.23	

COMPILED BY: Chana Sithole  
Geology Manager

APPROVED BY: Morne Van Zyl  
Area Manager: (Technical Signatory)

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Borehole	VLKWE023
Sample Number	S2L
Reference No.	285/24-1
Date Reported	19-Apr-2024
Attention	Zach Makwakwa

Project	VLKWE
Date Received	12/04/2024

## FRACTIONAL ANALYSIS ON AN AIR DRY BASIS

[illegible]

### CALCULATED CUMULATIVE ANALYSIS ON AN AIR DRY BASIS

	Wash Density	Mass Gram	Yield %	CV MJ/kg	IM %	ASH %	VM %	FC %	TS %	
	Fl 1.60	724	25.98	24.42	2.7	23.7	28.5	45.1	0.23	
	Fl 1.70	1701	61.04	21.78	2.6	29.2	23.5	44.7	0.21	
	Fl 1.75	2101	75.39	21.02	2.5	31.0	22.2	44.3	0.20	
	Fl 1.80	2356	84.54	20.50	2.5	32.3	21.6	43.6	0.20	
	Si 1.80	2787	100.00	18.78	2.4	36.6	20.4	40.6	0.22	
	C Raw	2879	100.00	18.80	2.4	36.6	20.4	40.6	0.23	

COMPILED BY: Chana Sithole  
Geology Manager

APPROVED BY: Morne Van Zyl  
Area Manager: (Technical Signatory)

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Borehole	VLKWE-33
Sample Number	S2U-A
Reference No.	349/24-1
Date Reported	29-Apr-2024
Attention	Zach Makwakwa

Project	VLKWE
Date Received	24/04/2024

## FRACTIONAL ANALYSIS ON AN AIR DRY BASIS

[illegible]

### CALCULATED CUMULATIVE ANALYSIS ON AN AIR DRY BASIS

	Wash Density	Mass Gram	Yield %	CV MJ/kg	IM %	ASH %	VM %	FC %	TS %	
	Fl 1.60	0	0.00							
	Fl 1.70	0	0.00							
	Fl 1.80	331	11.74	17.56	3.1	36.9	18.6	41.4	0.20	
	Fl 1.90	1833	65.02	16.24	3.0	40.7	17.8	38.5	0.15	
	Si 1.90	2819	100.00	13.55	2.9	47.4	16.2	33.5	0.48	
	C Raw	2863	100.00	13.60	2.9	47.3	16.2	33.6	0.48	

COMPILED BY: Chana Sithole  
Geology Manager

APPROVED BY: Morne Van Zyl  
Area Manager: (Technical Signatory)

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Borehole	VLKWE-33
Sample Number	S2U-B
Reference No.	349/24-1
Date Reported	29-Apr-2024
Attention	Zach Makwakwa

Project	VLKWE
Date Received	24/04/2024

## FRACTIONAL ANALYSIS ON AN AIR DRY BASIS

[illegible]

### CALCULATED CUMULATIVE ANALYSIS ON AN AIR DRY BASIS

	Wash Density	Mass Gram	Yield %	CV MJ/kg	IM %	ASH %	VM %	FC %	TS %	
	Fl 1.60	1482	33.91	24.22	3.1	20.3	23.4	53.2	0.20	
	Fl 1.70	2973	68.03	22.91	3.0	23.5	23.2	50.3	0.19	
	Fl 1.80	3645	83.41	22.04	3.0	25.6	22.8	48.6	0.20	
	Fl 1.90	3967	90.78	21.50	3.0	26.9	22.6	47.5	0.21	
	Si 1.90	4370	100.00	20.75	3.0	29.0	22.5	45.6	1.14	
	C Raw	4448	100.00	20.76	3.0	29.0	22.5	45.5	1.14	

COMPILED BY: Chana Sithole  
Geology Manager

APPROVED BY: Morne Van Zyl  
Area Manager: (Technical Signatory)

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Borehole	VLKWE-33
Sample Number	S2U-C
Reference No.	349/24-1
Date Reported	29-Apr-2024
Attention	Zach Makwakwa

Project	VLKWE
Date Received	24/04/2024

## FRACTIONAL ANALYSIS ON AN AIR DRY BASIS

[illegible]

### CALCULATED CUMULATIVE ANALYSIS ON AN AIR DRY BASIS

	Wash Density	Mass Gram	Yield %	CV MJ/kg	IM %	ASH %	VM %	FC %	TS %	
	Fl 1.60	1931	44.50	25.64	3.2	17.5	26.1	53.2	0.37	
	Fl 1.70	2832	65.26	23.76	3.1	22.1	24.4	50.3	0.32	
	Fl 1.80	3467	79.89	22.73	3.0	24.6	23.9	48.5	0.34	
	Fl 1.90	3639	83.85	22.42	3.0	25.4	23.7	47.9	0.47	
	Si 1.90	4340	100.00	20.72	2.9	29.7	22.9	44.5	0.94	
	C Raw	4430	100.00	20.72	2.9	29.7	22.9	44.5	0.94	

COMPILED BY: Chana Sithole  
Geology Manager

APPROVED BY: Morne Van Zyl  
Area Manager: (Technical Signatory)

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Borehole	VLKWE-33
Sample Number	S2L
Reference No.	349/24-1
Date Reported	29-Apr-2024
Attention	Zach Makwakwa

Project	VLKWE
Date Received	24/04/2024

## FRACTIONAL ANALYSIS ON AN AIR DRY BASIS

[illegible]

## CALCULATED CUMULATIVE ANALYSIS ON AN AIR DRY BASIS

	Wash Density	Mass Gram	Yield %	CV MJ/kg	IM %	ASH %	VM %	FC %	TS %	
	FI 1.60	220	11.06	22.52	3.1	25.7	31.1	40.1	0.86	
	FI 1.70	701	35.23	19.86	2.9	31.7	24.2	41.3	0.43	
	FI 1.80	1467	73.71	18.65	2.7	35.3	20.2	41.8	0.28	
	FI 1.90	1727	86.78	18.01	2.7	37.0	19.5	40.8	0.40	
	Si 1.90	1990	100.00	17.50	2.6	38.4	19.1	39.9	0.64	
	C Raw	2025	100.00	17.50	2.6	38.4	19.1	39.9	0.65	

COMPILED BY: Chana Sithole  
Geology Manager

APPROVED BY: Morne Van Zyl  
Area Manager: (Technical Signatory)

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# TEST REPORT

SGS Trichardt Laboratory  
4 Paul Kruger Street, Trichardt, 2311  
Tel: 017-638 0438 / 0871

Nathan and Lidah Consulting  
30 Tuscan Village  
2 Piet Joubert street, Secunda  
[zach.makwakwa@vodamail.co.za](mailto:zach.makwakwa@vodamail.co.za)

Borehole	VLKWE-33
Sample Number	S4L-A
Reference No.	349/24-1
Date Reported	29-Apr-2024
Attention	Zach Makwakwa

Project	VLKWE
Date Received	24/04/2024

## FRACTIONAL ANALYSIS ON AN AIR DRY BASIS

[illegible]

### CALCULATED CUMULATIVE ANALYSIS ON AN AIR DRY BASIS

	Wash Density	Mass Gram	Yield %	CV MJ/kg	IM %	ASH %	VM %	FC %	TS %	
	Fl 1.60	5820	63.47	25.12	3.5	17.7	24.9	53.9	0.35	
	Fl 1.70	6871	74.93	24.39	3.5	19.4	24.1	53.0	0.32	
	Fl 1.80	7592	82.79	23.72	3.4	21.1	23.6	51.9	0.35	
	Fl 1.90	7867	85.79	23.37	3.4	22.0	23.4	51.3	0.36	
	Si 1.90	9170	100.00	21.58	3.2	26.8	22.5	47.5	0.89	
	C Raw	9317	100.00	21.59	3.2	26.7	22.5	47.5	0.88	

COMPILED BY: Chana Sithole  
Geology Manager

APPROVED BY: Morne Van Zyl  
Area Manager: (Technical Signatory)

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Borehole	VLKWE-33
Sample Number	S4L-B
Reference No.	349/24-1
Date Reported	29-Apr-2024
Attention	Zach Makwakwa

Project	VLKWE
Date Received	24/04/2024

## FRACTIONAL ANALYSIS ON AN AIR DRY BASIS

[illegible]

### CALCULATED CUMULATIVE ANALYSIS ON AN AIR DRY BASIS

	Wash Density	Mass Gram	Yield %	CV MJ/kg	IM %	ASH %	VM %	FC %	TS %	
	Fl 1.60	1245	21.04	23.53	3.0	22.0	24.6	50.4	0.38	
	Fl 1.70	2351	39.74	21.89	3.0	26.0	22.7	48.3	0.33	
	Fl 1.80	3151	53.26	20.94	2.9	28.4	22.0	46.8	0.30	
	Fl 1.90	3960	66.93	19.25	2.9	32.6	20.8	43.7	0.27	
	Si 1.90	5916	100.00	15.64	2.7	42.8	18.6	35.9	0.54	
	C Raw	6025	100.00	15.67	2.7	42.7	18.7	35.9	0.54	

COMPILED BY: Chana Sithole  
Geology Manager

APPROVED BY: Morne Van Zyl  
Area Manager: (Technical Signatory)

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Borehole	VLKWE-33
Sample Number	S4U
Reference No.	349/24-1
Date Reported	29-Apr-2024
Attention	Zach Makwakwa

Project	VLKWE
Date Received	24/04/2024

## FRACTIONAL ANALYSIS ON AN AIR DRY BASIS

[illegible]

CALCULATED CUMULATIVE ANALYSIS ON AN AIR DRY BASIS

	Wash Density	Mass Gram	Yield %	CV MJ/kg	IM %	ASH %	VM %	FC %	TS %	
	Fl 1.60	882	66.26	26.22	3.6	17.8	25.5	53.1	1.18	
	Fl 1.70	1112	83.54	25.23	3.5	20.1	24.4	51.9	1.10	
	Fl 1.80	1174	88.20	24.93	3.5	20.9	24.2	51.5	1.07	
	Fl 1.90	1254	94.21	24.55	3.4	21.8	23.9	50.9	1.11	
	Si 1.90	1331	100.00	24.16	3.4	22.8	23.7	50.1	1.46	
	C Raw	1357	100.00	24.12	3.4	22.9	23.7	50.0	1.45	

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