

THE ELKO PROJECT

TARGETING 3 COKING COAL SEAMS

FSI ranging from 7-8

HIGH QUALITY COKING COAL PRODUCT

Low sulphur and ash

BENCH MARK COAL QUALITIES

Coal compares favourably with benchmark coals

COAL TESTED AND BLENDED

Coal seams 6 & 7 have been tested extensively by six Japanese steel mills

COAL SEAMS OUTCROPPING

Coal seams have been previously mapped

BC Coal Adit Quality							
Adit	Seam	Sample thickness	Clean				
			Ash	VM	FC	S	FSI
F-6	7 Seam	5.9m	3.9	21.9	74.3	0.5	7.5
F-5	6 Seam	3.0m	6.3	21.3	72.4	0.6	8.0
F-4	5 Seam	11.2m	7.4	21.5	71.1	0.5	6.0
F-3	4 Seam	6.7m	8.4	19.6	72.0	0.4	5.0
F-2	3 Seam	12.2m	11.3	17.7	71.0	0.7	2.5
F-1	1 Seam	14.0m	10.4	18.0	71.6	0.8	1.0

Coal Quality Parameter (adb unless otherwise stated)	Indicative Elko HCC Specification	Indicative Elko PCI Specification
Total Moisture (%) (ar)	9.5	8.0
Inherent Moisture (%)	1.8	1.5
Ash (%)	7-8	7.9
Volatile Matter (%)	22-24	17-19
CSN	7.5-9	1-2
Total Sulphur (%)	0.5	0.5
Phosphorous (%)	0.08	0.08
Vitrinite Content (%)	70	35
RO Max (%)	1.2-1.3	1.49-1.62
Fluidity ddpm	<50	
CSR (estimated range)	64-70	



Product	Operator	VM%	Ash%	TS%	CSN	RoMax%	Fluidity ddpm	Phos%	CSR	Vitrinite
Elko (project)	PAK	23	7-8	0.50	7-9	1.20-1.30	<30	0.060	-	70
Elko Valley premium HCC	Teck	25	8.7	0.55	7-9	1.12	200	0.051	71	58
Elko Valley Standard	Teck	23	9.5	0.5	6-8	-	150	0.070	72	
Elko Valley Grizzly Creek	Teck	24.5	9.5	0.55	6-8	1.16	150	0.050	69	55
Elk Valley Mind vol	Teck	27	9.2	0.35	6-8	1.06	500	0.040	53	55
Elkview	Teck	21	9.5	0.30	6-8	1.35	40	0.053	72	54
Canadian NEBC*	Typical	23-24	8.3-8.6	0.50	7-8	1.15-1.25	150-300	0.008-0.040	58-60	-
Canadian SEBC*	Typical	21-27	8.5-9.6	0.50	6-8	1.10-1.35	40-300	0.010-0.065	68-72	-
Central Alberta*	Typical	17-27	8.5-9.5	0.45-0.5	5-7	1.10-1.60	15-700	0.016-0.050	58-60	-
Crown Mountain N/E(Project)*	JAL	21	9	0.60	7-8	1.45	30	0.060	75	-
Crown Mountain South (Project)*	JAL	18	9	0.60	4-5	1.59	5	0.100	67	-

*Source http://www.resoucesrisingstars.com.au/files/asx_announcements/JAL_110814.pdf