



## **Investment Highlights**

## POSITIONED IN WORLD CLASS COKING COAL FIELDS

Jameson is a pure coking coal Company with its flagship project, Crown Mountain, located within Canada's prolific Elk Valley coal field, home to five operating mines.

## PROXIMAL TO INFRASTRUCTURE

Crown Mountain is located in a mature mining region, proximal to a road network and an extensive rail system linking to three well established deep water coal ports.

## KEY PROJECT MOVING FORWARD IN 2017

PFS Update shows robust economics at lower OPEX, CAPEX. FOB cash cost US\$75/t. Crown Mountain is completing the formal phase of the EA pre-application process.

## SIGNIFICANT DEVELOPMENT EXPERTISE ON BOARD

Jameson's Board has broad expertise in successfully developing and managing coal mines and processing facilities.

#### **INDUSTRY RECOVERY**

Crown Mountain is being positioned to take advantage of the recovery in coking coal prices and improved investor sentiment, with a targeted start of construction in 2019.



## **Crown Mountain PFS Update**

- Original study performed in 2014
- Since 2014, Jameson identified opportunities in:
  - Lower OPEX leading to reduced FOB cash cost
  - Lower CAPEX
  - Shifting macroeconomic trends
- PFS Update Participants:
  - Norwest Corporation: Lead and QP
  - Kiewit: US-based miner and contractor
  - Sedgman: Processing and infrastructure
  - Koornhof: Coal market expert
- Design Basis:
  - 1.7 mtpa clean coal sales
  - 16 year mine life
  - Open pit mining
  - Company owned and operated mine
- Product/Market:
  - Hard coking coal (84%) and PCI
  - Steel makers
  - Export (Asia, Europe, S America)





# **Crown Mountain PFS Update Highlights**

- FOB cash cost of US\$75/t life-of-mine (US\$66/t first four years)
- Hard Coking Coal (HCC) comprises 84% of total clean coal production (balance is PCI)
- After-tax Payback Period of 2.3 years
- IRR is 40% pre-tax (31% after tax)

	IRR %	NPV <sub>10</sub> US\$M	NPV <sub>10</sub> A\$M
Pre-Tax	40	440	587
After-Tax	31	267	356

- NPV10 US\$440 million pre-tax (US\$267 million after tax)
- Start-up capital US\$281 million (pre-contingency)
- Life of mine clean coal strip ratio of 9.8:1 BCM:t (7.5:1 BCM:t in first four years) supports low cost open pit production
- Coal sales prices assumed (below) are significantly lower than the 2014 PFS and current market. (PFS Update used the average price of each range below)

PERIOD	COAL TYPE	NORTH	SOUTH
Life-of-mine	Hard Coking	\$140 - \$170	\$126 - \$153
	PCI	\$92 - \$112	\$92 - \$112



# **Crown Mountain Operating Costs**

Cost Category	Cash Cost Per Clean Tonne Initial Four Years US\$	Cash Cost Per Clean Tonne Life-Of-Mine US\$
Waste Removal	21.51	26.47
Coal Mining	3.32	4.35
Plant	6.25	7.76
Clean Coal Handling	2.24	2.24
Reclamation	1.01	1.01
Minor equipment	0.65	0.77
Marketing/Corporate	1.01	1.01
Administration	4.54	5.51
Total Costs – Site	40.53	49.13
Rail and Port Costs	25.50	25.50
Total Costs - FOB (pre-tax and royalty)	66.03	74.63

- Waste removal and coal mining costs based on Kiewit experience and comparables from other mines.
- Plant processing costs by Sedgman considering experience with similar facilities.
- Clean coal handling includes overland conveyor, trucking, and loading into rail cars.
- Administration costs include salaried staff at mine and plant.
- · Rail and Port Costs based on publicly available data.
- Sustaining capital of US\$4.18/t excluded from table.



## **Crown Mountain Start-up Capital**

Pre-Production Capital	US\$M
Major Mobile Equipment	99.1
Minor Mobile Equipment	9.7
Wash Plant	63.7
Infrastructure (rail load-out, roads, power, offices, shop etc) and permitting	93.2
Pre-Strip	15.6
SUBTOTAL – CAPITAL	281.3
Contingency @ 10%	28.1
TOTAL CAPITAL	309.5

The capital cost represents the total investment required for the development and construction of the mine, including:

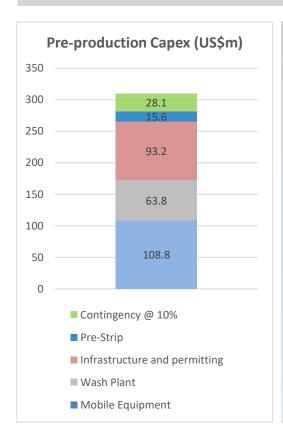
- All estimated permitting, bankable feasibility, and design engineering expenses.
- · Assumes all equipment is purchased new.
- · Pre-stripping and initial pit haul roads are capitalized.
- Mining fleet includes Hitachi model EX-2600, EX-3600 and EX-5600 diesel powered excavators paired with CAT 793 haul trucks.
- Wash plant located near mining pits, with clean coal conveyed down mountain to truck haul and rail loadout.

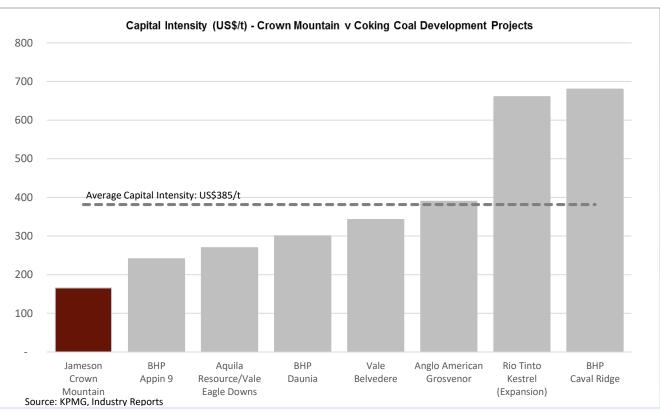


# **Crown Mountain Capital Intensity**

### Crown Mountain's low capital intensity is attributable to:

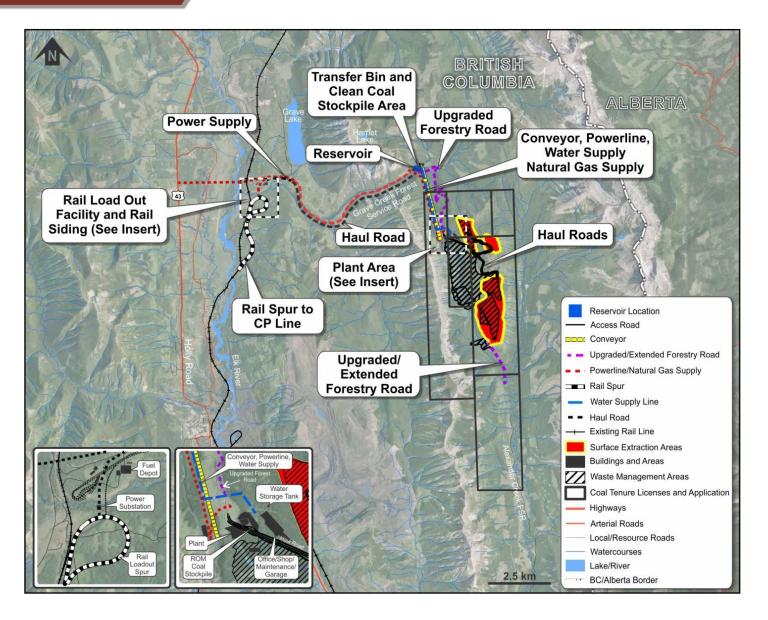
- the topography of the project
- low initial development costs due to favourable pre-stripping ratio
- proximity to established infrastructure (power, rail and port)
- the impact of exchange rate variations







## **Proposed Project Facilities**





## Crown Mountain Infrastructure – Rail and Port Capacity

## No capacity constraints on rail networks and ports currently undergoing expansion

#### **RAIL**

- Common user railway linking South East BC to deep water ports in Vancouver
- Rail is located 16km from the proposed washplant
- Canadian Pacific currently services the south-east BC coal fields

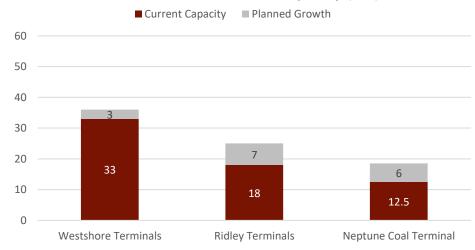
#### **PORTS**

- Western Canada has three available ports Westshore, Ridley and Neptune
- Existing port capacity comfortably meets current export requirements
- · Expansion is planned at all three ports
- The PFS update assumes all coal is moved through Westshore terminal

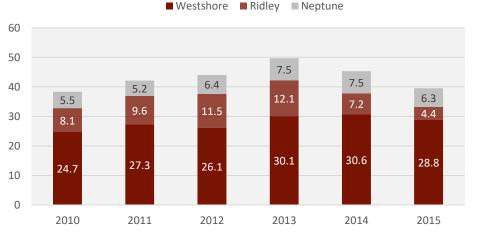


Westshore terminal

### Canada - West Coast Port Capacity (Mt)



### Annual Export Shipments (Mt) - West Coast Ports





## **Crown Mountain Metallurgical Coal**

#### METALLURGICAL COAL

- Metallurgical coal is predominantly sold in three forms – Hard Coking Coal (HCC), Semi-Soft Coking Coal and Pulverised Coal Injection
- HCC is the most valuable form of coal as there are no substitutes and it must be used in the production of steel by blast furnace method. The Crown Mountain coals are 84% HCC.
- Met Coal is converted to coke, a critical input in the steel production process
- Coke is used as a fuel and reducing agent in steel blast furnaces to convert iron ore into iron, and ultimately steel
- The majority of steel is produced by Basic Oxygen Furnace, which requires coking coal.

#### **BASIC OXYGEN FURNACE**

- Optimal operation of the blast furnace demands the highest quality raw materials, including high CSR coals such as those from Crown Mountain.
- The carbon content of coke plays a crucial role in terms of its effect in the furnace and on the hot metal quality
- A blast furnace fed with higher quality coke requires less coke input, and results in higher quality hot metal and better productivity
- Approximately 600-750kg of metallurgical coal is used in the process to produce 1 tonne of steel



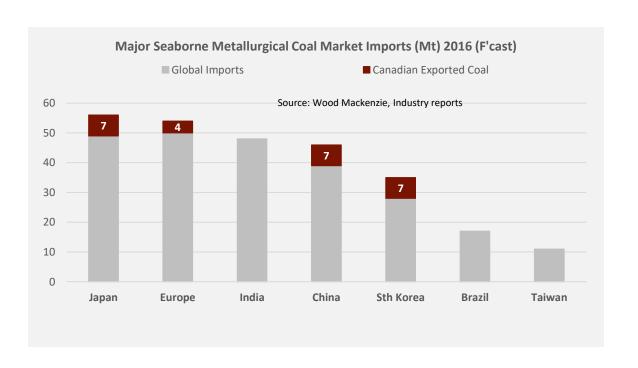
Source: World Coal Association



# Crown Mountain Seaborne Metallurgical Coal Market

#### METALLURGICAL COAL MARKET

- The Global Seaborne Met Coal market is approximately 290mt
- The Global Seaborne HCC market is approximately 171mt
- Canada is the third largest Metallurgical coal exporter behind Australia and the United States
- Canada currently exports approximately 25mt of metallurgical coal annually
- Canada exports its metallurgical coal to Japan, Europe, China and South Korea for blending







	Crown Mo Coking		Canadian	Canadian	Central	
	North and East Blocks	South Block	NEBC HCC <sup>2</sup>	SEBC HCC <sup>2</sup>	Alberta <sup>2</sup>	
Total Moisture (% as received)	8 - 9	8 - 9	8 - 9	8 - 9	8 - 9	
Volatile Matter (% dry)	20.5	18	23 - 24.5	21 - 27	17 - 27	
Ash Content (% dry)	9	9	8.3 - 8.6	8.5 - 9.6	8.5 – 9.5	
Sulphur Content (% dry)	0.6	0.6	0.45 - 0.55	0.35 - 0.75	0.45 - 0.5	
Free Swelling Index (FSI)	7 - 8	4 - 5	7 - 8	6 - 8	5 - 7	
Vitrinite Reflectance R <sub>o</sub> Max (%)	1.45	1.59	1.15 - 1.25	1.10 - 1.35	1.10 – 1.60	
Maximum Fluidity (ddpm)	30	5	150 - 300	40 - 300	15 - 700	
Phosphorus in Coal (% dry)	0.060	0.100	0.008 - 0.040	0.010 - 0.065	0.016 - 0.050	
Base/Acid Ratio of Ash	0.07	0.05	0.12 - 0.18	0.07 - 0.10	0.11	
CSR (Coke Strength after Reaction)	75	67	58 - 60	68 - 72	58 - 60	

Quality Comparison of Crown Mountain Coal with Other Canadian Export Coking Coals Notes:

Data source: Kobie Koornhof Associates

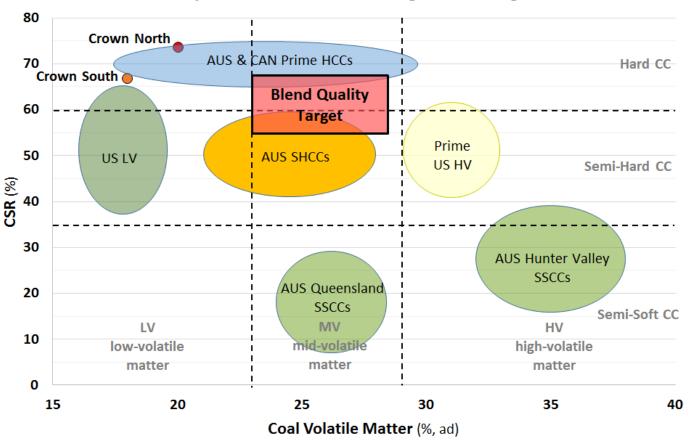
<sup>&</sup>lt;sup>1</sup> Results are based on laboratory scale washing and testing of exploration samples.

<sup>&</sup>lt;sup>2</sup> Results are based on full washing plant under operating conditions.



## **Crown Mountain Coal Quality Comparison**

### **Simplified Met Coal Positioning for Blending**



Source: Norwest

To attain the "blend quality target" it is necessary to include high CSR "Prime HCCs" to offset lower quality coals. As depicted above, the Crown Mountain coal products have higher CSR relative to most other coals.



### **Environmental Studies**

- In addition to having successfully completed the PFS
   Update, the company has been progressing the pre application stage of environmental permitting
   process over the past two years.
- Extensive environmental baseline studies are required prior to submitting an Environmental Assessment ('EA') Application, including:
  - Surface water
  - Hydrology
  - Groundwater
  - Geochemistry
  - Meteorology
  - Terrestrial Habitat (wildlife, TEM, plants)
  - Fish and Fish Habitat
- Studies on many of these topics were initiated early
  in project life concurrent with exploration as a result
  of consultation with First Nations and other entities.
  As a result a <u>large amount of environmental work</u>
  <u>has already been completed</u>, with the balance to be
  determined by a gap analysis once the formal preapplication phase is completed.

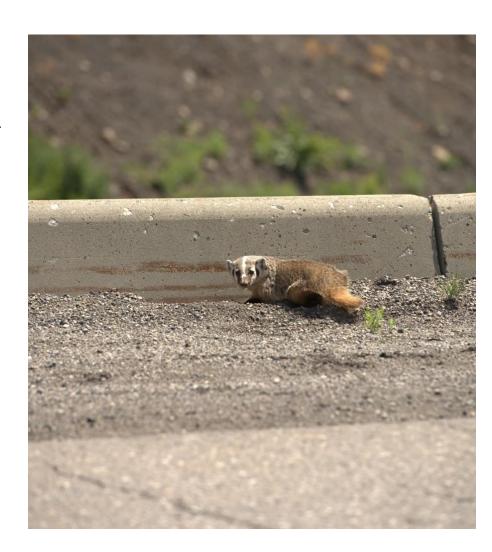






## **EA Progress To-Date and Timing**

- The company has continued to progress the preapplication stage of the EA process, with the Application Information Requirements ('AIR') expected to be completed and accepted in Q2/Q3-17.
- The AIR is essentially <u>the blueprint for preparing the</u>
   Application for an EA Certificate.
- This is a significant milestone for the company.
- Once the <u>AIR is approved it has a three year life</u>, during which time the EA application must be lodged.
- The EA Certificate is a <u>pre-requisite</u> for all other minerelated permits.
- Once granted, the <u>EA certificate is valid for five years</u>, with the allowance for one renewal
- The <u>mine permit</u> application can be submitted concurrent with the EA application, or subsequent to it.





### **Crown Mountain - Timeline**

ACTIVITY		20	16			20	17			20	18			20	19			20	20	
	Q1	Q2	Q3	Q4																
Environmental Baseline	✓	✓	✓	✓	✓															
EA Pre-application Consultations	✓	✓																		
EA Pre-application VCD		✓	✓	✓																
EA Pre-application AIR				✓	✓															
PFS Update				✓	✓	✓														
EA / Permitting Preparation, Submittal & Approval																				
Feasibility including Drilling & Detailed Engineering																				
Mine Permit Preparation, Submittal & Approval																				
Construction																				
Production Commences																				

Above timing assumes all critical path items are executed on schedule and funding is available as required.



## **Company Snapshot**

### Art Palm - Chief Executive Officer and Chairman

- Mining engineer with over 40 years of experience
- Engineering, Operations & Executive positions at major US coal producers
- Extensive experience designing and managing mines (surface and underground) and coal preparation plants

#### Steve van Barneveld – Non-Executive Director

- Process engineer with over 28 years experience
- Majority of years spent with Sedgman Limited, ultimately as COO
- Extensive experience in asset development, design, construction, and operations management

#### Joel Nicholls - Non-Executive Director

- Over 8 years financial and technical experience in resources industry.
- Chartered Accountant; graduate degree in Mineral Exploration Geoscience.

### **Suzie Foreman - Company Secretary**

 Chartered Accountant with over 18 years of financial and corporate governance experience specialising in mining and exploration.

Share Capital	
Recent Share Price	A\$0.08
Shares Outstanding	223m
Market Capitalisation	A\$18m
Trading Range (6 month)	A\$0.08 to A\$0.12
Cash Reserves*	
Cash on Hand (31-MAR-2017)	A\$2.0m
Options	
Options (A\$0.105 exercise price)	7.1m
Ownership	
Top 20 Shareholders	61.8%
JP Morgan Nominees Australia Limited	13.6%
Hillboi Nominees	5.5%
Resources and Reserves	
Reserves	56m tonnes
Resources - Measured & Indicated	75m tonnes**
Resources - Total	99m tonnes**

<sup>\*</sup> Jameson Resources is debt-free

<sup>\*\*</sup> Measured and Indicated Resources include noted Reserves



### **Competent Persons Statements**

### **Competent Person Statements**

#### **Mineral Reserves and Pre Feasibility Study Results**

The information in this presentation relating to the Mineral Reserve Estimate and Pre Feasibility Study Results of the Company's Crown Mountain Coal Project are extracted from the ASX Release entitled "PFS Update Yields Lower CAPEX and OPEX and Outstanding Financials, Demonstrating the Significant Potential of Crown Mountain" announced on 26 April 2017 and is available to view on the ASX website (ASX:JAL), and the Company's website. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and, that all material assumptions and technical parameters underpinning the reserve estimates and pre feasibility study results in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

#### **Mineral Resource**

The information in this presentation relating to the Mineral Resource estimate on the Company's Crown Mountain Coal Project is extracted from the ASX Release entitled "Positive Property-Wide Coal Quality, Crown Mountain Coking Coal Project" announced on 14 March 2014 and is available to view on the ASX website (ASX:JAL), and the Company's website. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and, that all material assumptions and technical parameters underpinning the resource estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.



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## **APPENDIX 1**

## **SENSITIVITY & FINANCING**



# **Crown Mountain PFS Update Results – SENSITIVITY**

NPV10 (US\$M)								
			-Тах	After Tax				
	Sensitivity Range	+	-	+	-			
Base Case		44	0.6	26	7.2			
Selling Price	+/-10%	590.0	291.4	364.4	169.8			
Selling Price	+/-20%	739.4	141.7	461.6	70.6			
Ridley Terminal	+US\$12/tonne	313.4		184.3				
Operating Cost	+/-10%	391.0	490.1	235.0	299.3			
Operating Cost	+/-20%	302.2	539.7	182.2	331.5			
Capital Cost	+/-10%	411.5	469.6	245.9	288.4			
		IRR %						
		Pre-	-Тах	Afte	r Tax			
	Sensitivity Range	+	-	+	-			
Base Case		39.	6%	31.	.3%			
Selling Price	+/-10%	47.6%	31.1%	37.7%	24.5%			
Selling Price	+/-20%	55.0%	21.4%	43.7%	16.5%			
Ridley Terminal	+US\$12/tonne	32.5%		25.6%				
Operating Cost	+/-10%	37.2%	42.0%	29.3%	33.3%			
Operating Cost	+/-20%	34.6%	44.3%	27.2%	35.1%			
Capital Cost	+/-10%	35.6%	44.4%	28.2%	35.1%			



# Crown Mountain Procurement/Financing Considerations

#### • The used equipment market provides an opportunity to achieve significant reductions in CAPEX:

- Low-hour equipment is often available for a fraction of original cost
- OPEX would increase versus new equipment
- In the right market, this can be an attractive option
- The used equipment mark is cyclical, and any decision to explore this option can only be made during project procurement

#### · Leasing equipment is another avenue to reducing capital:

- In a low interest rate environment leases are an attractive alternative
- The health of the OEM equipment market also determines the competitiveness of leasing
- Leasing is another decision best made concurrent with the procurement process

#### · The financial estimates below are based on:

- Leasing new or buying low-hour used Major Mining equipment
- Currently prevailing used equipment and leasing rate markets
- 10% contingency on capital

Scenario	Start-Up Capital	LOM FOB	IRR %		NPV <sub>10</sub> US\$M		
	US\$M	US\$/tonne	PreTax	After Tax	PreTax	After Tax	
All Capital	309	74.63	40	31	440	267	
With used equipment	272	76.81	44	35	456	280	
With leased equipment	227	80.11	47	38	457	284	



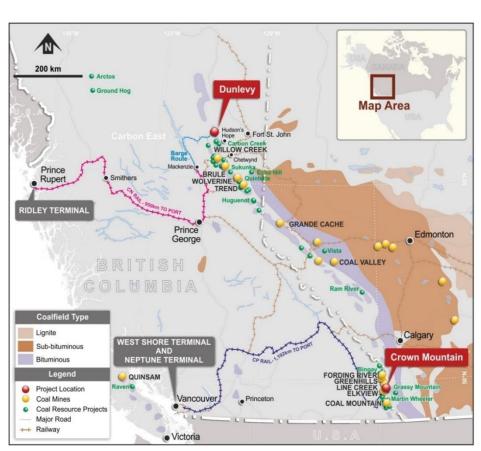
## **APPENDIX 2**

## **LOCATION & GEOLOGY**



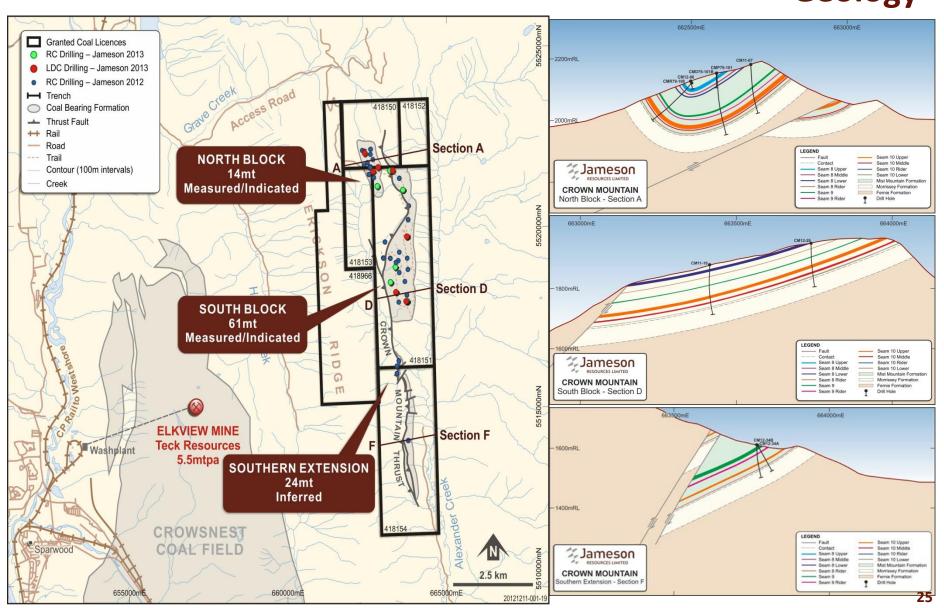
# Crown Mountain Flagship Canadian Coking Coal Asset

- The Crown Mountain Coking Coal Project is located in southeast British Columbia
- The high quality nature of the North and East Block coking coal is <u>comparable to the best Hard Coking</u> <u>Coal produced in British Columbia</u>
- <u>British Columbia is a first class mining jurisdiction</u>
   with significant history, numerous producing mines,
   established workforces and local communities that
   support mining
- Crown Mountain is <u>proximal to existing</u> infrastructure
- Crown Mountain is situated in the heart of the Elk Valley and Crowsnest coal fields <u>amongst Teck's</u> <u>existing Coking Coal operations</u>
- Teck is the world's second largest seaborne exporter of coking coal from its Elk Valley and Crowsnest coal field mines
- Crown Mountain represents a compelling opportunity for development of a coking coal project with an <u>attractive operating cost structure</u>





# Crown Mountain Geology





### **Resources and Reserves**

- The PFS Update confirmed a total reserve base at Crown Mountain of 56 million tonnes.
- Confidence in the geologic interpretation is high, as nearly 90% of the reserves are in the Proven category.
- Plant yields were estimated based on the summer 2013 exploration program. Average LOM plant yield is 53%. Early years (North Block) plant yield is 61%.
- The <u>clean coal strip ratio</u> for the first 4 years averages a low 7.5:1 BCM:t, and 9.8:1 LOM

RESOURCE AREA	Measured (Mt)	Indicated (Mt)	Measured & Indicated (Mt)	Inferred (Mt)	Measured, Indicated & Inferred (Mt)
North Block	8.0	6.0	14.0	0	14.0
South Block	60.9	0	60.9	0	60.9
Southern Extension	0	0	0	23.7	23.7
TOTAL	68.9Mt	6.0Mt	74.9Mt	23.7Mt	98.6Mt

Crown Mountain Resource 2014 (Effective March 11, 2014)

RESOURCE AREA		Run of Mine Coal Reserves (Mt)					
	ASTM Group	Prov	ven .	Probable			
		COKING	PCI	COKING	PCI		
North Pit		7.3	0.7	4.9	1.2		
East Pit	Bituminous	3.6	0.5	0	0		
South Pit		31.7	5.9	0	0		
Sub-Total		42.6	7.1	4.9	1.2		
Total Proven & Probable		49.7Mt 6.1Mt			Mt		
Total			55.8	BMt			

Run of mine surface mineable reserve summary (Effective April 1, 2017)



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