

# Pacific American Coal Limited Annual General Meeting

ASX : PAK 30 May 2017

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#### **Competent Person Statement**

The information in this document that relates to JORC 2012 Resources based on information compiled by Mr. Dwight Kinnes, B.Sc Colorado State University, Geology, who is a Member of a Recognised Overseas Professional Organisation (ROPO) included in a list promulgated by the ASX from time to time, being the Society for Mining, Metallurgy, and Exploration and American Institute of Professional Geologists – Cert. No. 10244.

Mr Kinnes is Principal Consultant/President of Highland GeoComputing, LLC and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration by them and to the activity which they are undertaking to qualify as a 'Competent Person' as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012). Mr Kinnes consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

### **Business Overview**

#### PAK team has experience developing coal projects



Corporate				
Market Cap (as at 26/05/17)	A\$8.8M			
Shares on Offer	165.31M			
Options on Offer	64.89M			
	Gregorach Pty Ltd	10.2%		
	IPS Ltd	7.5%		
Top 5 Shareholders	J Wardman & Associates	4.9%		
	Rigi Investments Pty Ltd	3.0%		
	Mr R. Pearce	2.9%		

Financials			
Cash Position	A\$2.56M (31 March 2017)		
GCI Debt Note	Outstanding – A\$725K (US\$542K)  Received – A\$325K (USD243K)  Monthly Payments – A\$38K (USD29K)		
Imagine Intelligent Materials	PAK Holding Worth – A\$2.50M		
PAK Monthly Spend	AUD 100K per month Q1-Q2 2017		

Team				
Geoff Hill	Chairman			
Mark Lochtenberg	Managing Director			
Simon Bird	Director			
Paul Chappell	Director			
lan Morgan	Company Secretary			
Mark Sykes	Chief Executive Officer			
Dom Hill	Business Development Manager			
Stephen Lau	Financial Controller			

Businesses			
PAK Canada	Elko Exploration Coal Project		
PAR Callaud	Hazell Exploration Coal Project		
	GCI Operating Mine – Debt Note		
TOCC USA	Oklahoma Exploration Projects		
	Colorado Exploration Project		
Imagine IM	Functionalised Graphene Projects		



### A Year in Review

#### **Creating shareholder value**



#### 2016 Summary

#### **Elko Coking Coal Project**

Accelerated development of Elko Coking Coal

Engaged Hatch Ltd to undertake 3D mine site modelling

Engaged Palaris to prepare preliminary assessment report

Appointment of key project personnel

Commenced planning for 2017 Exploration Program

#### **Acquired 40% of Imagine Intelligent Materials**

20% via a \$1.25M cash acquisition 20% via a share offer

#### **Corporate**

- Completed fund raising \$2.3M oversubscribed
- Appointed Managing Director
- Established new office and support staff

#### **Repositioned Coal Portfolio**

Finalised agreement to recover 100% of investment in GCI







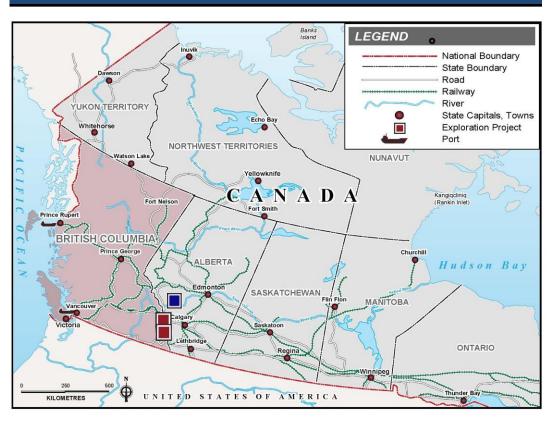


# **Elko Coking Coal Project**

#### Significant foot print of metallurgical coal project



#### **Strategic Location**



#### Legend

Elko

Hazell Exploration Project

Elko JORC 2012 Resources (Mt)				
Measured	19.2			
Indicated	57.0			
Inferred	181.3			
Total Resource	257.5			

Exploration Team			
Highland Geo Computing	Geological Consultant		
Silenus Resources	Project Manager		
Nupqu Development Corp	Environmental & Construction		
Catana Consulting	First Nations Consultants		
Archaeological	Tipi Mountain		

#### **Elko Project location Highlights**

Established infrastructure

Export ports with capacity

Transparent mining process

Large scale operating mines

Known metallurgical coal products

Skilled local communities

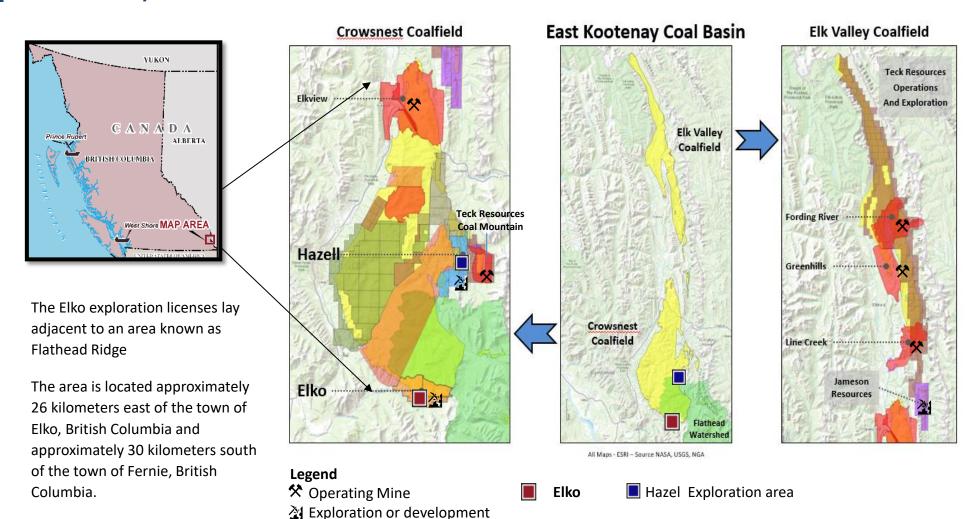




### **Strategic Location**



#### East Kootenay Coal Basin has annual coal sales of over 27Mt





# **Targeting High Value Coal**

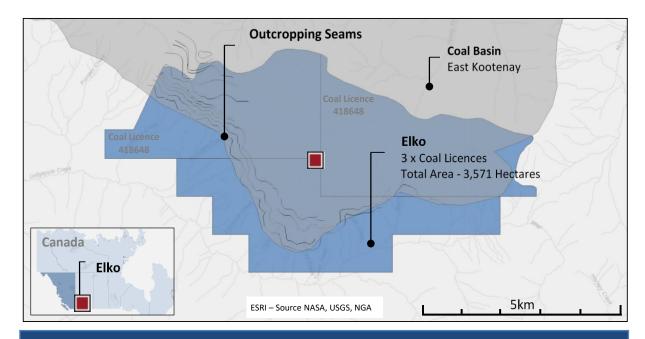
**Target** 

**Seams** 

# Pacific American Coal

#### High quality coking coal

- 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
  - Six coal seams with thickness ranging between 2.6m and 5.0m



	BC Coal Adit Quality							
	Adit	Seam	Sample			Clean		
	Auit	Seam	thickness	Ash	VM	FC	S	FSI
-	F-5	7 Seam	5.9 m	3.9	21.9	74.3	0.5	7.5
	F-6	6 Seam	3.0 m	6.3	21.3	72.4	0.6	8.0
_	F-4	5 Seam	11.2 m	7.4	21.5	71.1	0.5	6.0
	F-3	4 Seam	6.7 m	8.4	19.6	72.0	0.4	5.0
	F-2	3 Seam	12.2 m	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





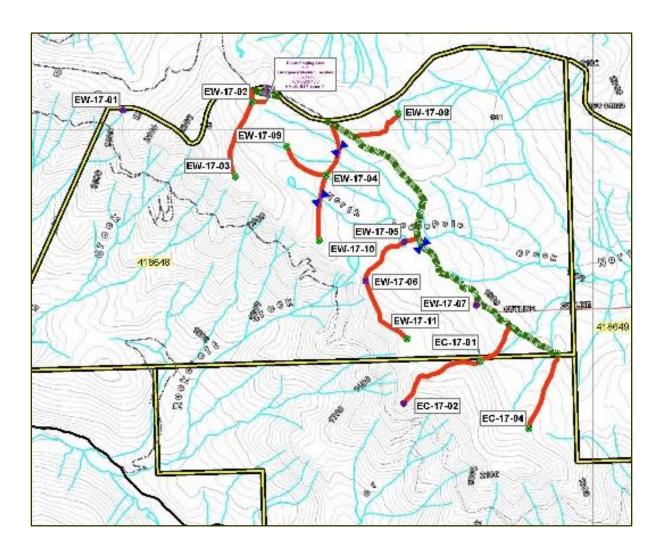
# **Elko Exploration Program**



Allocating funds for in-ground expenditure

#### **Objectives**

- Targeting 15 drill holes (RC and core)
- Upgrade JORC Resource Statement
- Increase in ground knowledge of coal seams
- Map central and eastern coal blocks
- Analysis of coal quality and marketing potential





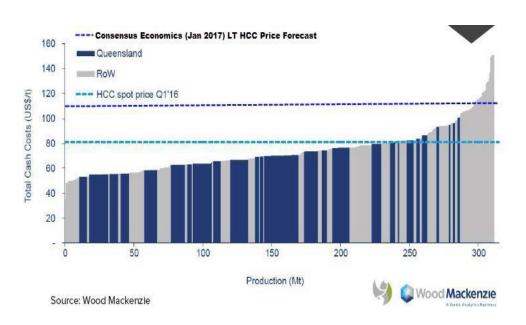
### Compares favourably to peers



PAK team has experience developing coal projects

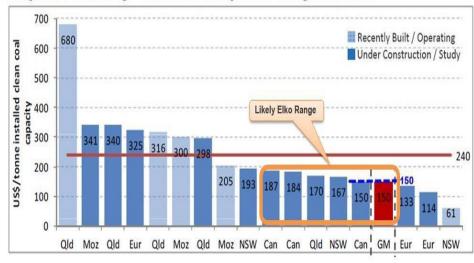
#### **Overview**

- Elko compares favorably with other Canadian projects
  - **Coal Quality and Operating Costs**
- Large coal resource with high quality metallurgical coal
- Open cut and underground mining flexibility
- Favourable capital intensity vs global peers





#### Capital Intensity - Recent/Proposed Project Basis



Graphs taken from the Palaris Preliminary Assessment Report of the Elko Coking Coal Project





### **Canadian Coal Products**

#### PAK team has experience developing coal projects



#### **Overview**

- Low ash, sulphur and phosphorous coals
- Canadian Coking coal used by global steel makers
- Premium Hard coking coal and PCI coal
- Coals compare favourably against global peers
- Known metallurgical coal products

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
Elk Valley premium HCC	Teck	25	8.7	0.55	7 - 9	1.12	200	0.051	71	58
Elk Valley Standard	Teck	23	9.5	0.5	6 - 8	-	150	0.070	72	
Elk Valley Grizzly Creek	Teck	24.5	9.5	0.55	6 - 8	1.16	150	0.050	69	55
Elk Valley mid 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	2
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	÷

U.S.A. 80 **Canada Other** Australia Teck HCC (hard coking) Australia and Canada 70 **Teck HCC** South Africa 60 Japan J.S.A (Yubarl) 50 CSR Australia 40 (soft coking) 30 Japan (Sorachl) 20 South Africa 90 50 70 100 Source: Yasuschi, Masashi et al, 1983 Drum Strength DI 30 (%)

<sup>:</sup> http://www.teck.com/media/2017-Whistler-Institutional-Investor-Conference-Jan-26.pdf





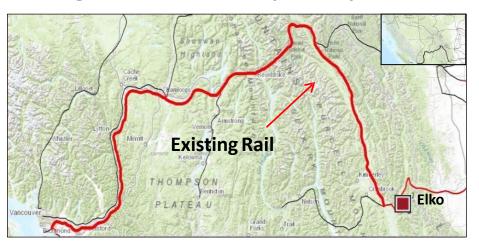


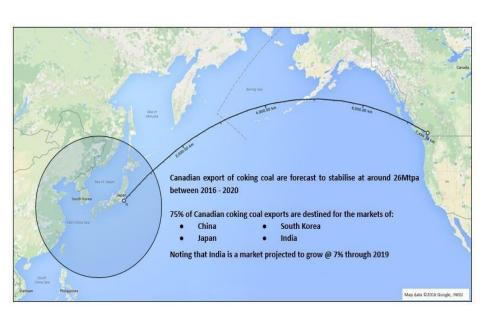
<sup>\*</sup>Source http://www.resourcesrisingstars.com.au/files/asx\_announcements/JAL\_110814.pdf

# **Target Markets and Infrastructure**



#### **Existing infrastructure with optionality**





LOGISTICS RAIL	
Road transport to rail head	20 km
Rail to Port of Vancouver	1,000 km
Alternative Route to Prince Rupert	2,000 km

#### **Rail Freight Providers**

- Eastbound bulk haulage agreements are available
- Bulk rail provider to Vancouver

Logistics Port			
Vancouver Ports	Capacity		
Westshore	33Mt		
Neptune Terminals	12.5Mt Expanding to 18.5Mt		
Fraser Surry Docks	Planned Capacity 4Mt		

Destination	Days Shipping Vancouver	Days Shipping Haypoint
Kobe, Japan	13	11.4
Pusan, Korea	13	11.9
Shanghai, PRC	14	11.9



### **Imagine Intelligent Materials**





#### **Overview**

#### **PAK holds 30% of Imagine Intelligent Materials**

- \$2.5M cost to acquire
  - Raised \$1.25M
  - Share swap \$1.25M
- Board representation Simon Bird

#### Imagine Q1 \$2m fund raising @\$1.50 per share

Capital used to accelerate pilot plant optimization

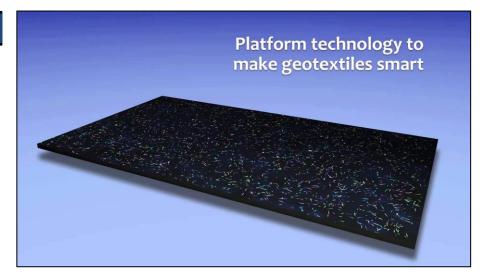
#### Imagine Signed MOU's with off take partners

Geofabrics

First installation of conductive geotextile technology at mine site

Duromer

MOU signed to develop smart screens for the mining industry







### **USA Portfolio**

#### A portfolio of USA Assets – Operating and Application



#### **Summary of Operating Asset**

#### GCI Debt Note serviced

- Received A\$325K (US\$243K)
- Outstanding A\$725K (US\$542K)
- Monthly Payments A\$38K (US\$29K)

#### GCI Operations

- New contract miner on board
- Cost and production efficiencies
- Producing more tonnes
- Opened up new panels



Property Name	Location	Status	Coal Type	JORC Exploration Target (MT)
Hartford	Oklahoma	Application	Metallurgical	87 – 117
Lafayette	Oklahoma	Application	Metallurgical	41 – 54
Howe	Oklahoma	Application	Metallurgical	59 – 94
Bokoshe	Oklahoma	Application	Metallurgical	93 – 140
Left Fork	Colorado	Application	Metallurgical	136 – 204



# **Conclusion and summary**

#### **Moving forward**



#### Overview

- British Columbia coal projects
  - Complete exploration program
  - Update Scoping study with new data
- Ongoing review of investment opportunities
  - Continue to review opportunities that add value
  - Focus on coking coal project
- Positioned to create long term shareholder value
  - Elko offers value through targeted exploration program
  - Imagine offers diversification into graphene and related markets







### **Partners**

#### Partnered with recognised consultants



#### **TECHNICAL**











**LEGAL** 





#### **ACCOUNTING**





#### **EXPLORATION AND GEOLOGICAL**

Highland GeoComputing, LLC

#### **FIRST NATIONS CONSULTANTS**



