

#### **INVESTMENT HIGHLIGHTS**

- Developing a major coking coal province:
  - Amaam 412Mt total Resource:
     349Mt Inferred<sup>B</sup> and 63Mt Indicated<sup>C</sup>
  - Amaam North: 27 Mt total Resource. 30-430Mt Exploration Target<sup>E</sup>
  - Combined Resources and Exploration
     Target of over 1Bt

#### Amaam:

- Project 25km from planned port site and only 8 days shipping to China, Korea and Japan
- High vitrinite content (>90%) coking coal with excellent coking properties
- PFS completed

#### Amaam North:

- Initial Resource defined at Deposit F
- Project 35km from existing Beringovsky coal port
- PFS on a low capital and operating cost, open pit mine due for completion Q3 2013
- First production targeted for 2015/2016

#### **BOARD OF DIRECTORS & CEO**

Antony Manini Non-Executive Cha<u>irman</u>

Craig Parry
Managing Director & CEO

Brian Jamieson Independent Non-executive Director

Owen Hegarty Non-executive Director

Craig Wiggill
Non-executive Director

Tigers Realm Coal Limited ACN 146 752 561 ASX code: "TIG"

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# **Quarterly Activities Report**

Quarter ended 30 June 2013

#### **Amaam North:**

- An initial JORC compliant Resource of 26.8Mt has been defined for Amaam North comprising 7.2Mt Measured<sup>D</sup>,
   4.6Mt Indicated<sup>C</sup> and 15.0Mt Inferred<sup>B</sup>
- This initial Resource at Project F represents a small part of the Amaam North Licence where thick, near surface, shallow dipping coking coal was delineated in a 40 hole drilling program completed in April 2013
- Resource provides an excellent foundation for the development of initial mining operations. Ongoing field mapping and drilling programs will test the broader potential of this highly prospective licence where TIG has outlined an Exploration Target<sup>E</sup> of 30-430Mt
- Work continues at pace on the Project F Pre-feasibility Study (PFS) to be completed in Q3 2013, and Definitive Feasibility Study (DFS) to be completed in Q1 2014
- Preparation and mobilization for the summer exploration program continued

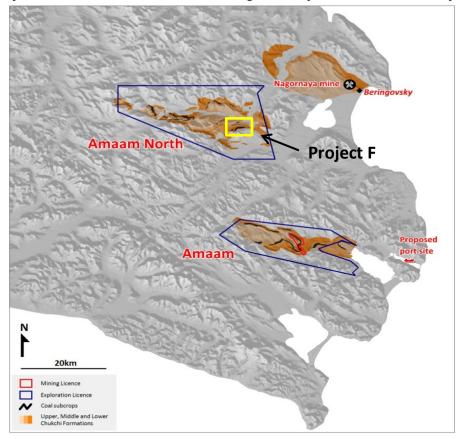
### Amaam:

- 6,967m of drilling was completed in Area 3 to upgrade Resource confidence in the initial production area, and to provide data for converting the remainder of Area 3 to a Mining Licence
- Coal Quality and Washability assessment work continued using coal from the 2012/13 drilling program
- Bulk sample auger drilling commenced and will be completed in Q3 2013
- A site visit by global leading shipping consultants Aker Arctic confirmed TIG's proposed Arinay lagoon site as suitable for year round shipping.

## AMAAM COKING COAL PROJECT

Tigers Realm Coal is earning up to 80% in the Amaam Coking Coal Project which is located in the Chukotka Province of far eastern Russia. The Amaam Coking Coal Project consists of two tenements: Amaam (TIG owns 60%, and will move to 80% on completion of a BFS) and Amaam North (TIG owns 80%).

Location map of the Amaam and Amaam North Coking Coal Projects and the location of Project F



## **Initial Resource at Amaam North**

On July 4 2013 TIG announced to the ASX an initial Resource of 26.8Mt at Project F, the first of several areas to be tested on the highly prospective Amaam North licence block (see map above). Full detail may be found in the ASX release at our website <a href="https://www.tigersrealmcoal.com">www.tigersrealmcoal.com</a>.

The Project F area was the target of the first major drilling campaign at Amaam North due to the presence of outcropping, thick, shallow dipping coking coal seams only 18km from an existing road and 35 km from the operating coal port at Beringovsky, on the Pacific coast.

Resource consultant, Resolve Coal Pty Ltd, has estimated 26.8 Mt of Coal Resources at Deposit F in the Amaam North licence block. This includes Measured Resources of 7.2 Mt, Indicated Resources of 4.6 Mt and Inferred Resources of 15.0 Mt.

20.9 Mt of the total Coal Resource is in the open pit domain less than 150m from surface. Below 150m, the Resource totals 5.9 Mt, providing significant potential upside from future underground operations.

The Resource estimate is based on 40 drill holes (totalling 3,087m) completed in April 2013, outcrop mapping and sampling, and structural interpretations of satellite photography and Landsat imagery.

The following tables detail the Deposit F Resource Estimate. Totals below may not sum due to rounding.

# Coal Resources for the Amaam North - Project F (100% basis)

Resource Category	Open Pit <sup>1</sup> (Mt)	Underground <sup>2</sup> (Mt)	Total (Mt)
Measured - Coking	7.16	0	7.16
Indicated- Coking	3.29	1.27	4.56
Inferred - Coking	8.69	4.58	13.27
Inferred - Thermal	1.79	0	1.79
Total	20.93	5.85	26.78

By Depth	Coking (Mt)	Thermal (Mt)	Total (Mt)
Surface to 50m	5.46	1.76	7.22
50 to 100m	7.46	-	7.46
100 to 150m	6.22	-	6.22
Greater than 150m	5.85	-	5.85
Total	24.99	1.76	26.75

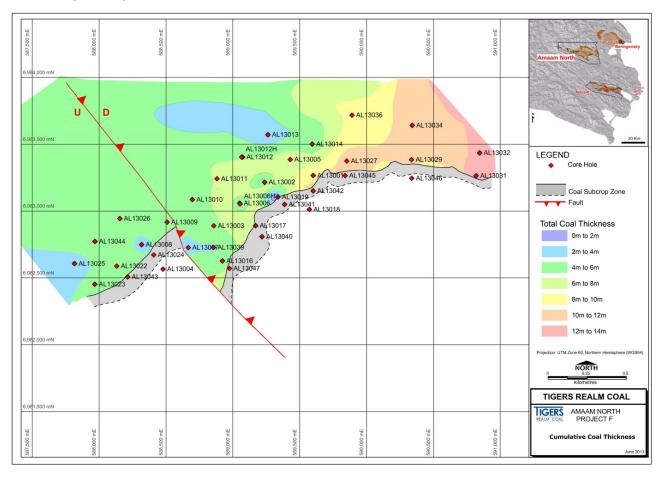
# **Coal Quality by Depth (air dried basis)**

	Open Pit <sup>1</sup>	Underground <sup>2</sup>	Total
In Situ Tonnes (Mt)	20.93	5.85	26.78
In-Situ Relative Density (ISD)			
g/cm3	1.4	1.33	1.38
Air dried moisture (ADM) %ad	1.1	1.17	1.12
Ash %ad	16.8	10.92	15.5
Volatile Matter (VM) %ad	25.19	26.49	25.47
Fixed Carbon(FC) %ad	56.93	61.5	57.93
Sulphur (S) %ad	0.31	0.26	0.30
Calorific value (CV) kcal/kg ad	6819	7359	6937

# Coal Quality by Ply (air dried basis)

DI.	B.4+	ISD	ADM	Ash	VM	FC	S	CV
Ply Mt	g/cm3	%	%	%	%	%	kcal/kg	
422	1.33	1.33	1.01	10.64	28.03	60.31	1.22	7444
421	2.04	1.34	1.1	11.07	27.87	59.96	0.32	7353
402	0.15	1.47	1.26	27.34	22.63	48.76	0.25	5802
41	7.56	1.32	1.19	8.2	26.86	63.8	0.26	7608
35	1.8	1.49	1.14	27.38	23.35	48.1	0.23	5835
34	1.05	1.46	1.1	25.86	24.66	48.4	0.24	5976
33	0.6	1.57	1.18	34.7	24.44	39.68	0.14	4947
32	0.48	1.48	1.01	24.72	24.21	50.1	0.2	6107
31	0.48	1.43	1.03	20.69	24.58	53.75	0.21	6460
22	0.85	1.46	1	22.67	23.69	52.64	0.23	6307
21	1.49	1.43	1.08	18.62	23.29	56.99	0.24	6597
12	2.07	1.45	0.98	18.13	22.73	58.16	0.27	6701
11	1.01	1.59	0.96	34.07	20.41	44.59	0.21	5363
WS4 <sup>3</sup>	5.85	1.34	1.17	10.92	26.49	61.5	0.26	7359
Total	26.76	1.39	1.12	15.56	25.46	57.89	0.3	6932

- 1. Assumes coal seams greater 0.3m to a depth of 150m
- $2. \quad \text{Assumes coal seams greater than 1.2m deeper than 150m} \\$
- 3. Underground working section for "4" Group seams



Plan showing subcrop zone, drill hole locations and cumulative coal thicknesses

The deposit at Project F is a mid to high-volatile bituminous coking coal deposit. The upper coal seams (Plies 422, 421, 41 and WS4) comprise approximately 63% of the deposit and have an average ash content of 9.3%. These seams will provide the majority of the raw, low ash coking coal product (i.e. direct shipping coal) that will be targeted in the first phase of operations. The lower seams have an average ash of 19.3% and will require washing to produce a coking coal product. Clean coal test work is not complete. Early results indicate Project F coals will have a Rank (RoMax) of approximately 1.0 and a Free Swelling Index (FSI) between 5 and 8 (average FSI of 7).

The near surface coals in the deposit are oxidised to the extent that their FSI values are low (less than 1), but they retain their high calorific values. These coals have a modelled ash of 15.2% (air dried) and a modelled calorific value of approximately 6,900 kcal/kg. These coals make up a minor component of the Project F Resource, however TIG will examine the viability of marketing this material as part of a thermal coal blend, for the domestic (Far East Russian) and Asian energy markets.

Upper coal seams comprise approximately 63% of the deposit and have average ash content of 9.3%

Ply	Mt	Ash	VM	FC	S	CV
		%	%	%	%	kcal/kg
422	1.33	10.64	28.03	60.31	1.22	7444
421	2.04	11.07	27.87	59.96	0.32	7353
41	7.56	8.2	26.86	63.8	0.26	7608
WS4	5.85	10.92	26.49	61.5	0.26	7359
Total	16.78	9.3	26.95	62.25	0.34	7477

# **Exploration Upside at Amaam North**

The Amaam North Exploration Target of 30 to 430 Mt was released in TIG's ASX announcement dated 27 November 2012.

	Lower Chukchi Coal (Mt)	Middle Chukchi Coal (Mt)	Total (Mt)
Open Pit <sup>1</sup>	5 to 80	20 to 220	25 to 300
Underground <sup>2</sup>	5 to 65	0 to 65	5 to 130
Total	10 to 145	20 to 285	30 to 430

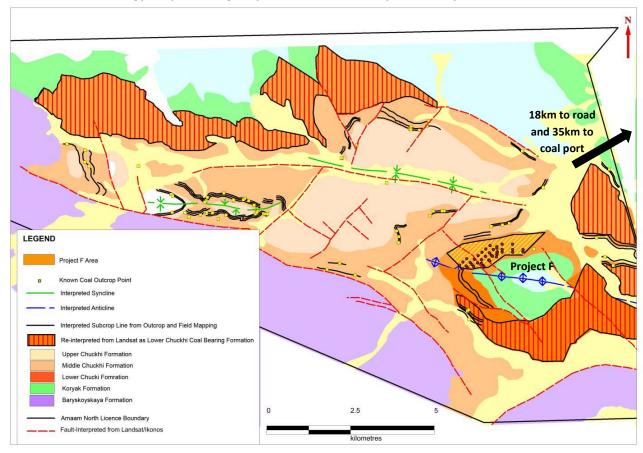
- 1. Assumes coal seams greater 0.3m to a depth of 250m
- 2. Assumes coal seams greater than 1.2m from 250m to 400m depth

The Project F deposit has not been closed off by drilling along strike, nor down dip to the north. TIG considers it probable that drilling along these axes at Project F will lead to the delineation of further coal resources and additional drilling is planned to test this.

Additionally TIG will follow up on prospective areas to the south and east of Project F (see the figure below). A re-interpretation of surface geology undertaken by TIG and specialist consultants, based on recently acquired Ikonos satellite photography and LandSat imagery, has indicated the potential for a much larger area of the Lower Chukchi formation (the Project F Coal Bearing Sediments) than previously thought.

To test this potential TIG will be undertaking field mapping programs during August and September this year, ahead of further drilling planned to commence in November.

Amaam North Geology Map showing Project F and latest interpretation of Lower Chukchi Formation



# Project F Pre-Feasibility Study - Early Production Potential at Amaam North

In Q2, 2013 TIG appointed a study team including external consultants to undertake the Project F PFS. Work is proceeding well and the results are anticipated in Q3 2013. The PFS is focused on the open pit potential from the thick Lower Chukchi coal seams at Project F. Work to date continues to indicate potential for the development of a low capital cost, low operating cost, open pit, coking coal mine.

Key parameters highlighting the potential development at Amaam North are:

- 1. Thick, near surface seams, which allow Resources to be defined with low metreage, low cost drilling programs.
- 2. Near surface Indicated and Measured Resources of over 10 Mt, much of which TIG will aim convert to Reserves during its Feasibility Study Phase.
- 3. Likely low stripping ratios for open pit development.
- 4. Thick, low ash coal seams, which will provide a saleable, raw coal product.
- 5. Close proximity (18 km) to an existing road and 35km from the existing Beringovsky coal port. Low capital transport by truck to the port on winter roads is readily achievable.
- 6. The Beringovsky port, which is currently operating for the nearby Nagornaya mine, is underutilised, loading only 52,000 tonnes of coal in 2012. It has historically shipped up to 750,000 tonnes of coal per summer shipping season.

TIG expects that the Project F PFS will demonstrate the viability of this project as a starter coking coal mine development for the company. Subject to completion of the DFS in Q1 2014 and obtaining all necessary approvals, development of Project F is expected to commence in 2014. The company is targeting production of between 500,000 and 1,000,000 Mtpa of coking coal from the project.

#### **Amaam**

Tigers Realm Coal (ASX: TIG)

Following the completion of the Amaam PFS in the March quarter (ASX release April 15, 2013) work continued on the Bankable Feasibility study. Ongoing work programs are aimed at assessing options to further enhance Project value, including increasing open pit resources from further drilling at Amaam, extending the underground mine life beyond the initial 20 year LOM and improving coking coal yields by further processing of coarse middlings.

Specific work programs include:

- 1. Moving the Amaam Project through the Bankable Feasibility Stage.
  - a. A 6,967m drilling program was completed in the quarter, focussed on Area 3 to provide an upgrade to the Resources in the initial production area, and to provide data for the conversion of the remaining part of Area 3 to a Mining Licence. The drill program comprised 24 exploration holes totalling 6,027.5m; 6 hydrogeology holes totalling 762.2m and; bulk sample target drilling totalling 177.3m.
  - Undertaking a bulk sample for pilot plant processing, and further clean coal and coke test work. Bulk sampling commenced in the quarter with four holes drilled totalling 34.8m. Drilling will recommence in August.
  - c. Undertaking field work, data collection and ongoing optimisation studies (based on the PFS) to fully define the BFS scope of works.
- 2. Continuing to expand the coal Resources across the two Licences through targeted exploration programs.

3. Continuing to progress permitting of the Projects to ensure milestones in the Project development schedule are met.

As sufficient additional drilling and study work is completed to convert Resources into Reserves for inclusion in the mine plan, TIG will apply for a Mining Licence(s) covering the remainder of the Amaam coking coal deposit. Total Amaam Resources currently comprise 412Mt of coking coal.

#### **Port**

After achieving the key milestone of having TIG's coal terminal proposal at Arinay lagoon included in the Russian Federal Government's most recent Scheme of Territorial Planning (STP) of the Russian Federation covering federal transport (railway, air, sea and inland water transport) and federal roads in the March quarter (ASX release April 3, 2013), TIG has commenced the detailed design and engineering phase of the Arinay coal terminal development. Work completed so far includes preparation of preliminary scopes of work and contracts for the marine studies to be undertaken in summer of 2013 and winter in early 2014. The scope covers:

- 1. Climate temperature, precipitation, wind etc.
- 2. Sea floor surveys
- 3. Coastal currents.
- 4. Shoreline and coastal sediment movement and loadings.
- 5. Wave height and tides.
- 6. A sonar geophysical survey.
- 7. Ice conditions.

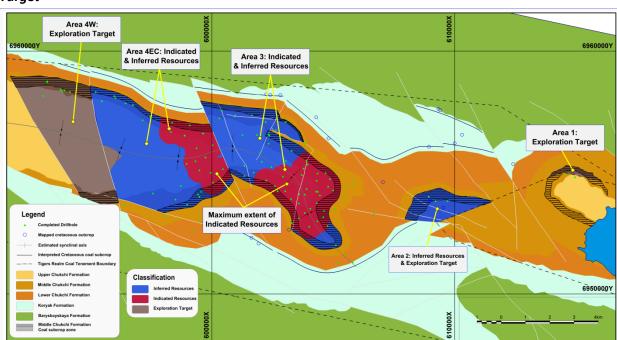
During the June quarter, Aker Arctic conducted a site visit to assess ice conditions and submitted their report to management. The report confirms the Arinay lagoon site as a year round port for shipping.

# **Amaam Resource Estimate**

During the quarter work continued on evaluation of the results from the 2012/13 drill program. This analysis is progressing well and a Resource upgrade is expected to be completed by Q3 2013.

The drilling program continues to confirm TIG's geological interpretation of the deposit as a large scale, high quality, coking coal resource. While the average cumulative thickness of the deposit is estimated to be between 10-11m, drill holes have intersected cumulative coal thicknesses up to 25m.

A plan of the Amaam deposit illustrating the surface geology and extent of the Resources and Exploration Target<sup>E</sup> is shown in the following figure.



# Amaam geological plan showing distribution of Indicated<sup>c</sup>, Inferred Resources<sup>B</sup> and Exploration Target<sup>E</sup>

# **Health, Safety, Environment & Community**

HSEC activities for the site focussed on a review of the successful completion of the winter drilling program. HSEC planning continued for the 2013 summer exploration program and Amaam North environmental baseline studies programs. During the quarter a key component of the Project's social baseline studies program was completed. This involved an experienced Social Scientist from leading consultants Golder Associates and the Company's Community Liaison Officer visiting settlements nearest to the Project to gather baseline data through a series of interviews, focus groups and meetings. These meetings will be reflected in the final Stakeholder Engagement report, which will form part of the Project's Environment and Social Impact Assessment (ESIA) report. In addition to meeting Russian legislation, the Project's ESIA is being developed to meet the Equator Principles and IFC Standards.

A formal agreement on social investment was signed between TIG's Russian subsidiary joint venture company, Beringpromugol and the Anadyr Municipality (Chukotka Provincial Government) during the quarter.

## **Outcropping coal at Amaam North**



# **CORPORATE**

# **Capital Structure (as at 30 June 2013)**

Ordinary shares on issue: 382,228,028

Escrowed ordinary shares: 141,994,989

Total shares on issue 524,223,017

Options on issue: 50,147,100

Further details about Tigers Realm Coal can be found at <a href="www.tigersrealmcoal.com">www.tigersrealmcoal.com</a>

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#### About Tigers Realm Coal Limited (ASX: TIG)

Tigers Realm Coal Limited ("TIG", "Tigers Realm Coal" or "the Company") is an Australian based resources company. The Company's vision is to build a global coking coal company by rapidly advancing its projects through resource delineation, feasibility studies and mine development to establish profitable operations.

#### **Competent Persons Statement**

The information compiled in this announcement relating to Exploration Results or Coal Resources at Amaam North is based on information provided by TIG and compiled by Neil Biggs, who is a member of the Australasian Institute of Mining and Metallurgy and who is employed by Resolve Coal Pty Ltd, and has sufficient experience which is relevant to the style of mineralization and type of deposit under consideration and to the activity he is undertaking to qualify as a Competent Person as defined in the JORC Code. Neil Biggs consents to the inclusion in the announcement of the matters based on his information in the form and context which it appears

#### Note A - Tigers Realm Coal's interests in the Amaam Coking Coal Project

Amaam tenement: TIG's current beneficial ownership is 60% as a mining licence has been granted. TIG moves to 80% upon completion of a bankable feasibility study and cancellation of all loans made by TIG and its subsidiaries to Eastshore Coal Holding Limited (TIG is funding exploration and development by way of loans to Eastshore), the 100% parent of the license holder.

Amaam North tenement: TIG has now moved to 80% beneficial ownership of the Russian company which owns the Amaam North exploration license, Beringpromugol LLC, by acquiring 80% of Cyprus company Rosmiro Investments Limited from its current owner BS Chukchi Investments LLC ("BSCI"). In consideration for the acquisition, TIG has made a cash payment to BSCI of US\$400,000. TIG has also agreed to fund all project expenditure until the completion of a bankable feasibility study. After completion of a bankable feasibility study each joint venture party is required to contribute to further project expenditure on a pro-rata basis. BSCI is also entitled to receive a royalty of 3% gross sales revenue from coal produced from within the Amaam North license.

#### Note B - Inferred Resources

According to the commentary accompanying the JORC Code an 'Inferred Mineral Resource' is that part of a Mineral Resource for which quantity and grade (or quality) are estimated on the basis of limited geological evidence and sampling. Geological evidence is sufficient to imply but not verify geological and grade (or quality) continuity. It is based on exploration, sampling and testing information gathered through appropriate techniques from locations such as outcrops, trenches, pits, workings and drill holes. An Inferred Mineral Resource has a lower level of confidence than that applying to an Indicated Mineral Resource and must not be converted to an Ore Reserve. It is reasonably expected that the majority of Inferred Mineral Resources could be upgraded to Indicated Mineral Resources with continued exploration

#### Note C - Indicated Resources

According to the commentary accompanying the JORC Code an 'Indicated Mineral Resource' is that part of a Mineral Resource for which quantity, grade (or quality), densities, shape and physical characteristics are estimated with sufficient confidence to allow the application of Modifying Factors in sufficient detail to support mine planning and evaluation of the economic viability of the deposit. Geological evidence is derived from adequately detailed and reliable exploration, sampling and testing gathered through appropriate techniques from locations such as outcrops, trenches, pits, workings and drill holes, and is sufficient to assume geological and grade (or quality) continuity between points of observation where data and samples are gathered.

#### Note D - Measured Resources

According to the commentary accompanying the JORC Code a 'Measured Mineral Resource' is that part of a Mineral Resource for which quantity, grade (or quality), densities, shape, and physical characteristics are estimated with confidence sufficient to allow the application of Modifying Factors to support detailed mine planning and final evaluation of the economic viability of the deposit. Geological evidence is derived from detailed and reliable exploration, sampling and testing gathered through appropriate techniques from locations such as outcrops, trenches, pits, workings and drill holes, and is sufficient to confirm geological and grade (or quality) continuity between points of observation where data and samples are gathered. A Measured Mineral Resource has a higher level of confidence than that applying to either an Indicated Mineral Resource or an Inferred Mineral Resource. It may be converted to a Proved Ore Reserve or under certain circumstances to a Probable Ore Reserve.

#### Note E - Exploration Target

According to the commentary accompanying the JORC Code An Exploration Target is a statement or estimate of the exploration potential of a mineral deposit in a defined geological setting where the statement or estimate, quoted as a range of tonnes and a range of grade (or quality), relates to mineralisation for which there has been insufficient exploration to estimate a Mineral Resource. Any such information relating to an Exploration Target must be expressed so that it cannot be misrepresented or misconstrued as an estimate of a Mineral Resource or Ore Reserve. The terms Resource or Reserve must not be used in this context.