



NORTHERN STAR
RESOURCES LIMITED

Paulsens set for higher cash margins and longer life on back of ~14gpt extension zone

Resource upgrade on flagship Voyager 1 lode to reflect sharp increase in head grade from ~8gpt currently

Revised estimate will underpin new mine plan and cashflow forecasts for 2012-2013

Highlights

- ▶ Outstanding high-grade drilling results extend Paulsens' Voyager 1 lode a further 150m down plunge from current resource model
- ▶ Results of infill drilling show grade of existing extension zone is set to average 14gpt v's life to date Voyager 1 head grade of ~8gpt
- ▶ First ore from Voyager 1 extension zone expected in December Quarter, 2012
- ▶ Paulsens on track to start increasing production from ~80,000 to ~100,000ozpa by end of 2012
- ▶ Voyager 1 extension zone remains open at depth
- ▶ Latest result from Voyager 1 of 2m at 101.1gpt is the deepest intersection ever recorded at Paulsens
- ▶ Latest results from Voyager 1 and all results released to date from Voyager 2 are excluded from the current 318,000oz² resource estimate
- ▶ Increased resource estimate will underpin upgraded mine plan, production and cashflow projections
- ▶ Significant results from Voyager 1 include (uncut);

33.0 m @ 24.8 g/t gold	(true width 4.0m) 455mRL UZ
2.0 m @ 101.1 g/t gold	(true width 2.0m) 380mRL LZ
0.7 m @ 121.0 g/t gold	(true width 0.7m) 411mRL UZ2
1.0 m @ 43.7 g/t gold	(true width 0.6m) 440mRL UZ2
6.3 m @ 40.4 g/t gold	(true width 1.5m) 431mRL
2.6 m @ 13.7 g/t gold	(true width 1.4m) 460mRL UZ2
7.0 m @ 12.8 g/t gold	(true width 4.0m) 475mRL UZ
6.7 m @ 11.2 g/t gold	(true width 4.0m) 463mRL UZ2
10.6 m @ 11.1 g/t gold	(true width 5.5m, 475mRL UZ
7.0 m @ 11.2 g/t gold	(true width 1.5m) 431mRL
12.8 m @ 8.2 g/t gold	(true width 2.4m) 401mRL UZ2
- ▶ Further assays pending for Voyager 1 and 2



ASX ANNOUNCEMENT
07 JUNE 2012

Australian Securities Exchange
Code: NST

Board of Directors

Mr Chris Rowe
Non-Executive Chairman

Mr Bill Beament
Managing Director

Mr Michael Fotios
Non-Executive Director

Mr Peter Farris
Non-Executive Director

Mr Peter O'Connor
Non-Executive Director

Ms Karen Brown
Company Secretary

Issued Capital

Shares
402 M

Options 25M

Current Share Price
\$0.785

Market Capitalisation
\$315 million

Cash/Bullion in Bank: 31 Mar 2012
\$84.1 million

Projects

Paulsens
Ashburton
Range
Emull

Commodities

gold
gold
gold, silver
Zn, Cu, gold

Investments

Venturex (13%)

Commodities

Cu, Zn, Ag & gold

Northern Star Resources (ASX: NST) is pleased to announce that it is set to enjoy a significant increase in margins and mine life at its Paulsens Gold Mine in WA, with drilling at the flagship Voyager 1 lode returning outstanding results.

Significant infill drilling results show that the extension zone in the current Voyager 1 Resource is set to run at an average grade of about 14gpt compared with Voyager 1's life to date head grade of about 8gpt.

Northern Star expects mining to intersect this extension zone in the December Quarter, 2012, meaning the sharply higher-grade ore will boost the project's cash margins substantially.

The Voyager 1 extension zone, which has now been extended a further 150m down plunge from the existing resource model at Paulsens and remains open at depth and down plunge (see Figure 1), will also add substantial mine life to Paulsens.

As a result of the significant intersections received since December's resource estimate, Northern Star is planning a mid-year resource upgrade which will take into account the in-fill and resource definition drilling in the high-grade Voyager 1 extension zone.

The revised resource estimate, which will also include the results released to date from the Voyager 2 lode at Paulsens, will in turn underpin a revised mine plan and updated cashflow forecasts for the project.

Northern Star is in the throes of increasing production at Paulsens from ~80,000ozpa to ~100,000ozpa, with the higher rate expected to kick-in at the end of 2012.

The Voyager 1 lode is currently the main ore source at Paulsens and has produced 150,000 ounces over the past two years. This is the fourth time in three years that the down plunge extent of this lode has been extended significantly.

The Voyager 1 lode continues to be open down plunge and the Company believes this lode will continue to grow and be the mainstay for production for a number of years.

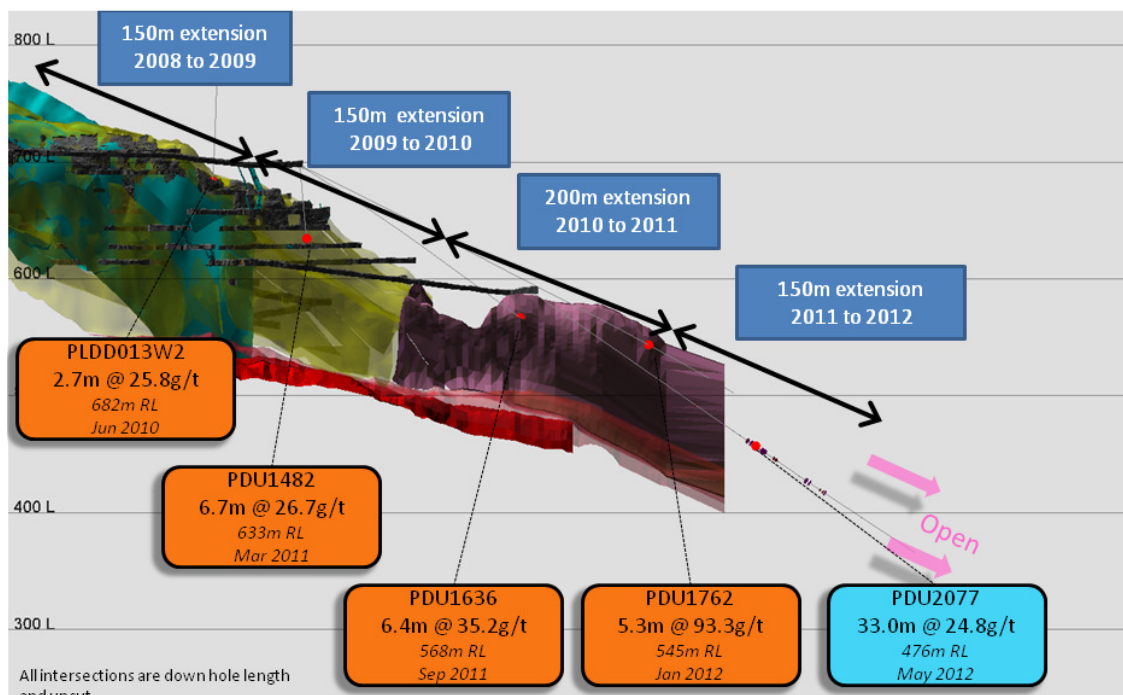


Figure 1 - Voyager One Extension to Current Resource Shape

These results provide more evidence that the grade at the key Voyager 1 lode continues to increase with depth (see Figure 2). The figure is a long section view of all the Voyager 1 ore blocks modelled to date and shows that the Extension zone has a significantly higher percentage of magenta, +10gpt ore blocks.

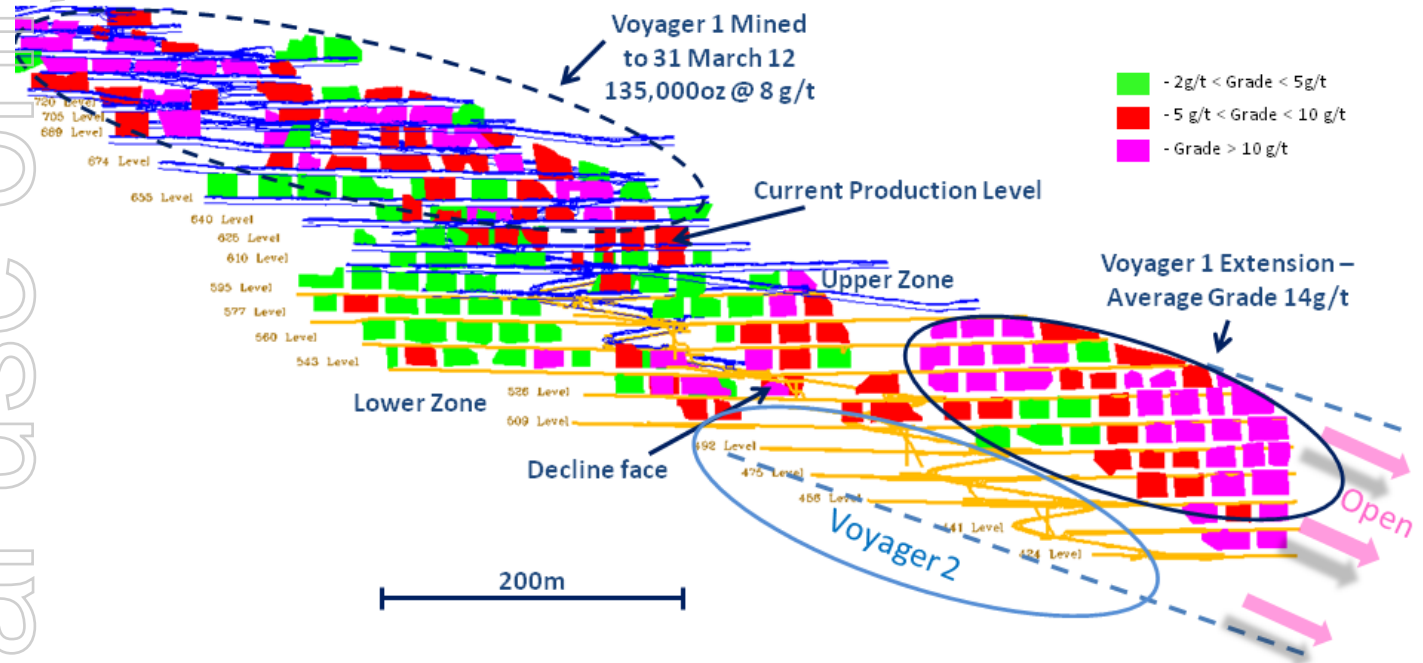


Figure 2 - Long Section View of Voyager One Lode with the Extension zone, predicted 14gpt production grades importantly, the new high-grade Voyager 1 intersection of 2m at 101.1gpt is now the deepest intercept in the history of the mine and is 275m vertically below the current production level (see Figure 3). This is considered significant because for the past 18 months the deepest intercepts have been from the Voyager 2 lode.

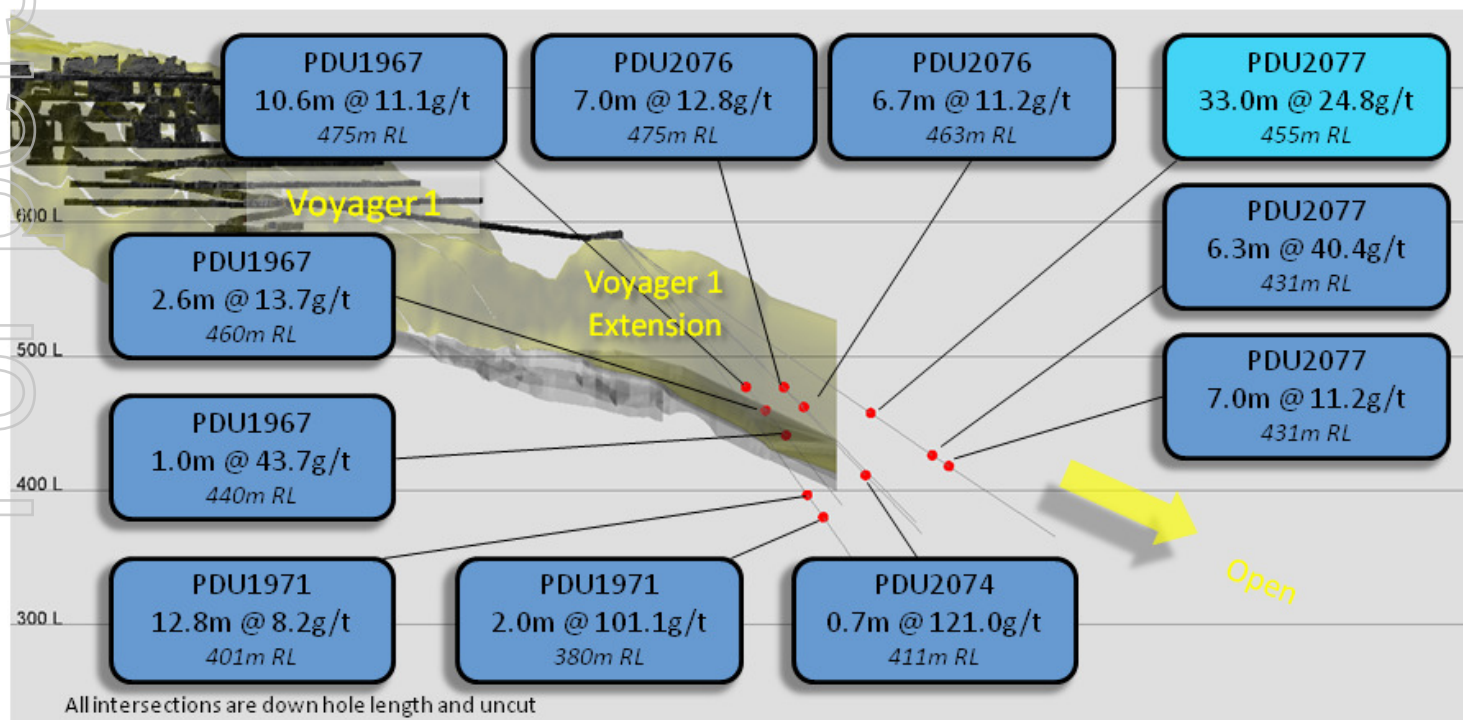


Figure 3 - Long Section View of Significant drill results for Voyager One Extension

None of the latest results from Voyager 1 or any of the results released to date from Voyager 2 are included in the current 318,000-ounce² resource estimate at Paulsens.

"These high-grade results will translate directly to increased cash margins, cashflow and mine life," Northern Star Managing Director Bill Beament said.

"It means we are set to make more money from Paulsens due to the production increase to 100,000ozpa and the rise in the head grade on the back of the Voyager 1 extension zone. In the process, we will increase the mine life and will continue to drill the extension zone at depth and down plunge."

Further announcements will be released regarding the ongoing underground diamond drilling as results become available.

Assay results from underground diamond drilling completed on Voyager 1 since the last release on 29th May 2012 are listed in the attached tables.

Yours faithfully,



Bill Beament
Managing Director
Northern Star Resources Ltd

Competent Persons Statements

The information in this announcement that relates to Paulsens Project and Ashburton mineral resource estimation, exploration results, data quality, geological interpretations, potential for eventual economic extraction and estimates of exploration potential, is based on information compiled by or under the supervision of Brook Ekers, (Member AIG), who is a full-time employee of Northern Star Resources Ltd. Mr. Ekers has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Ekers consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

1 Exploration Potential

The information in this announcement that relates to exploration and production targets refers to targets that are conceptual in nature, where there has been insufficient exploration to define a Mineral Resource and it is uncertain if further exploration will result in the determination of a Mineral Resource. The information on exploration targets in this presentation are based on a conceptual range of targets as follows:

Tonnage range: 350,000 to 600,000 tonnes

Grade range: 9 g/t Au to 13 g/t Au

Ounces: 100,000 to 250,000

Forward Looking Statements

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VOYAGER ONE RESOURCE DRILLING							
Hole #	Downhole Intersection (m)	Est. True Thickness (m)	Uncut Grade (g/t)	Grade (g/t) cut to (150g/t)	Gram/mts (cut)	Ore zone and comments	RL of intersection
PDU1967	10.6	5.5	11.1	11.1	61.3	VOY1 UZ	475mRL
PDU1967	2.6	1.4	13.7	13.7	19.2	VOY1 UZ2	460mRL
PDU1967	2.0	1.2	8.9	8.9	10.7	VOY1 UZ2	449mRL
PDU1967	1.0	0.6	43.7	43.7	26.2	VOY1 UZ2	440mRL
PDU1967	0.9	0.9	13.0	13.0	11.5	VOY1 LZ	408mRL
PDU1971	12.8	2.4	8.2	8.2	19.8	VOY1 UZ2	401mRL
PDU1971	2.0	2.0	101.1	75.6	151.2	VOY1 LZ	380mRL
PDU2030	5.5	5.5	1.8	1.8	9.8	Veins in Dolerite	470mRL
PDU2034	0.4	0.4	6.1	6.1	2.5	Veins in Gabbro	466mRL
PDU2034	1.0	1.0	18.4	18.4	18.4	Stylolites in quartz	427mRL
PDU2074	2.0	2.0	4.0	4.0	7.9	VOY1 UZ	437mRL
PDU2074	0.7	0.7	6.4	6.4	4.7	VOY1_UZ2	427mRL
PDU2074	0.7	0.7	121.0	121.0	84.7	VOY1_UZ2	411mRL
PDU2074	2.0	2.0	4.0	4.0	7.9	VOY1 UZ	437mRL
PDU2076	7.0	4.0	12.8	12.8	51.0	VOY1 UZ	475mRL
PDU2076	6.7	4.0	11.2	11.2	44.8	VOY1 UZ2	463mRL
PDU2077	4.1	1.6	4.5	4.5	7.2	VOY1 UZ	476mRL
PDU2077	33.0	4.0	24.8	19.6	78.2	VOY1 UZ	455mRL
PDU2077	6.3	1.5	40.4	40.4	60.5	Veins in gabbro	437mRL
PDU2077	7.0	1.5	9.6	11.2	16.8	Veins in gabbro	431mRL
PDU2077	1.2	1.2	6.8	6.8	8.3	Veins in gabbro	396mRL

VOYAGER ONE GRADE CONTROL DRILLING

Hole #	Downhole Intersection (m)	Est. True Thickness (m)	Uncut Grade (g/t)	Grade (g/t) cut to (150g/t)	Gram/mts (cut)	Ore zone and comments	RL of intersection
PDU2007	2.0	1.8	3.7	3.7	6.7	VOY1 LZ	574mRL
PDU2012	1.1	1.1	13.9	13.9	15.2	Veins in Gabbro	558mRL
PDU2013	0.7	0.7	9.2	9.2	6.4	VOY2 LZ	528mRL
PDU2013	0.8	0.5	4.4	4.4	2.2	VOY1 LZ	571mRL
PDU2013	1.2	1.2	3.5	3.5	4.4	Veins in Gabbro	568mRL
PDU2022	2.0	2.0	1.8	1.8	3.5	Apollo Shear	534mRL

At a nominal 3g/t lower cut off and a 150g/t upper cut off

NSR means no significant result

Quality Control – Paulsens, All core is logged and whole core samples (if LTK60 size, NQ2 sized core is cut and half cored) are marked and prepared for shipping at the Paulsens Mine Property and sent to an independent Laboratory for assay. The remaining half core is stored on site. All samples from which information in this document is derived were received by ALS Chemex – Australian Laboratory Services Pty (‘ALS’) Limited in Perth, Western Australia. Samples are weighed and crushed to 70% passing -6mm mesh. The crushed material is split and a portion is pulverised. A 100-gram pulp is sent to ALS Perth, Western Australia for assay. A 30-gram portion of the pulp is treated by fire assay method with atomic absorption finish (Au-AA25). Sample rejects are discarded after 90 days. Limit samples (>100 grams per tonne gold) are re-analysed using ALS’ dilution method (Au-DIL). Northern Star Resources inserts one standard in each hole, and one blank is now inserted in each ore zone. Laboratory standards and blanks are inserted by ALS and several pulp duplicates are also assayed as a determinant of mineralisation variability. ALS has AS/NZS ISO 9001:2000 certification in Perth.

31 December 2011	Measured		Indicated		Inferred		Total		
	Tonnes (.000)	Grade (g/t)	Tonnes (.000)	Grade (g/t)	Tonnes (.000)	Grade (g/t)	Tonnes (.000)	Grade (g/t)	Oz Au (.000)
Open Pit			573	2.5	169	2.5	742	2.5	61
Paulsens Upper Levels			136	7.1	32	5.0	168	6.7	36
Voyager 1	57	11.1	318	8.9	101	15.5	476	10.5	161
Paulsens Stockpiles									5
Belvedere			45	2.8	123	3.5	168	3.3	18
Merlin					523	1.4	523	1.4	24
Mt Clement JV					226	1.8	226	1.8	13
Total	57	11.1	1073	5.0	1174	3.2	2304	4.3	318

²Table 1 - Paulsens Resources @ 2.5g/t Au Lower Cut-Off Underground and 1.0g/t Au Lower Cut-Off Open Pit