

MANITOBA

Mining Review

2013

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2012 MINERAL RESOURCES TRAINING PROGRAM | GOSSAN | HUSBAY | CARLISLE | SAN GOLD

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DAVID J. BUSCH MPDA PRESIDENT

This being one of my last acts as President of the MPDA, I had hoped to impart some deep words of wisdom. Alas, it does not appear to be the case. With the exploration industry on a decidedly downward course there is one thought I can impart: mineral exploration is a highly cyclical endeavour. It always has been and likely always will be. Each up or down is not a new paradigm but a continuation of the cycle.

The issues of regulations, permits, duty to consult and establishment of parks have not really been dealt with in spite of previous assertions (by myself) that they had. A new twist

to the permit issue appears to have arisen and given the lofty term Project Participation Framework. Apparently work permits can be bought through some convoluted grant-share purchase-redistributed funding process that in most banana republics would be given a different name. This might be workable in a "one off" situation but it creates a terrible precedent for the small junior or individual prospector. They are effectively being priced out of the work permit market here in Manitoba.

Establishing new parks is another matter that is not going away. The current legislature and their regulators

saw fit to abandon the Mining Exploration Liaison Committee (MELC) process six or seven years ago in favour of fast tracking park designations. The MELC process included: Mining Association of Manitoba, the Manitoba Prospecting Association and the Man-Sask Prospecting Association; the Government of Manitoba, Parks and Natural Areas Branch of the Department of Conservation, Geological Survey and Mines Branch; and representatives from the Canadian Nature Federation and the World Wildlife Fund. The establishment and success of the MELC process was recognized internationally as a model of responsible environmental stewardship. The MELC process could readily have been amended to include very real First Nations interests.

The inclusive MELC process has given way to announcement of new parks in a new *faite accompli* process. Timing of new parks or park proposals is strongly linked to election timing or new leadership conventions. The "fast tracking" approach has led to large tracts of Manitoba being set aside with no concern for the potential mineral endowment and loss of natural wealth to which Manitobans are entitled.

The conclusion I have come to is that the resources of Manitoba are not being managed in a responsible manner. As a citizen, taxpayer and explorationist, this is very disheartening. Manitoba is being condemned to being a have-not province in perpetuity by the short-sighted actions of politicians and regulators. ☐

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MANITOBA 2012 EXPLORATION AND DEVELOPMENT HIGHLIGHTS

Base and precious metals by Chris Beaumont-Smith, Minerals Policy and Business Development; specialty/industrial minerals by Jim Bamburak, Manitoba Geological Survey, Manitoba Innovation, Energy and Mines – Current as of October 1, 2012

The present state of Manitoba's mining sector reflects robust production growth and advanced exploration tempered by declines in grassroots exploration due to challenges associated with difficult equity markets. The sector's modest recovery in 2011 is being undermined by recent global economic uncertainty and a more challenging investment climate. The resulting weakness in commodity prices coupled with difficulty securing venture capital is forcing many companies to revise their operational plans. Exploration and deposit appraisal expenditures totalled \$110.5 million for 2011, a 32 per cent increase from 2010, and were projected to increase again in 2012 to \$125.6 million before the mid-year change in the global economic outlook.

In spite of difficulties in grassroots exploration, capital investment in mine development is at an all-time high. This reflects the considerable exploration successes of Manitoba explorers through the past commodity cycle as well as continued strength in precious metals commodity prices.

BASE METALS

Base-metal brownfields exploration and development activity remains strong in Manitoba, driven by HudBay Minerals, Inc.'s (Hudbay) significant capital investments in the Flin Flon–Snow Lake greenstone belt and continued strength in copper pricing.

Hudbay continues its historic level of capital investment in their 777 North, Lalor and Reed mine development projects. Hudbay's board of directors previously approved \$20 million for the 777 North expansion, \$704 million to

construct its wholly-owned Lalor project near Snow Lake, and \$71 million for the Reed copper project. These projects coincide with closures of the Trout Lake mine in June and the Chisel North mine, which is transitioning to processing Lalor ore.

The company has spent approximately \$277 million on the Lalor project to June 30, 2012 and has committed an additional \$91.4 million for the project. The completion of the main ventilation shaft allowed initial production to start in August and is enabling Hudbay to hoist up to 1500 tonnes of ore and waste per day. The Lalor ore replaces production from the adjacent Chisel North mine and is being processed at the nearby Snow Lake concentrator until completion of the production shaft and new concentrator expected in late 2014. The installation of a new copper circuit at the Snow Lake concentrator to facilitate processing of Lalor ore is currently underway and commissioning was planned for September 2012. The production shaft is currently sunk to the 300 metre level and is 30% complete relative to its planned depth of 985 metres. All other surface infrastructure is essentially complete and underground development is well advanced. The first full year of production from the production shaft is expected in 2015.

Planning for the new 4500 tonne-per-day concentrator at their Lalor site is progressing on schedule. Basic engineering is nearly complete and Hudbay has placed orders for major components required for the mill. Site geotechnical work is complete, and the company is finalizing the final site levelling required for the concentrator footprint.

The Indicated base-metal Lalor resource stands at 13.3 million tonnes grading 8.87% zinc with an Inferred resource of 4.8 million tonnes grading 9.25% zinc. The Gold Zone Inferred resource is 5.4 million tonnes grading 4.7 grams per tonne gold. Conceptual estimates indicate the potential for an additional 5.1 to 6.1 million tonnes grading between 4.3 and 5.1 grams per tonne for the Gold Zone and an additional 1.8 to 2.2 million tonnes grading 5.8 to 7.0 grams per tonne gold and 3.2% to 4.0% copper for the Copper-Gold Zone. Hudbay anticipates additional gold resources will be delineated with further exploration to be conducted from underground, with the Copper-Gold Zone holding the greatest potential to add significant resources to the project.

During the second quarter of 2012, Hudbay's focus for its 70% owned Reed copper project was preparation of the site for portal development. The project is on schedule as Hudbay commenced the trench excavation in June 2012. Hudbay has also completed the site levelling for the mechanical shop and warehouse office, changehouse and parking lot pads, as well as camp expansions to accommodate the workforce for the development stage of the project. Materials and equipment from the recently closed Trout Lake mine have begun arriving at site, and Hudbay has ordered new mobile equipment and compressors for delivery in the third quarter of 2012. Hudbay has also issued tenders for the mechanical shop and warehouse. The company expects initial production at the Reed copper project by the fourth quarter of 2013 and

anticipate ramp-up to full production of approximately 1300 tonnes per day by the first quarter of 2014. The Reed Lake deposit contains a National Instrument (NI) 43-101-compliant Indicated resource estimate of 2.5 million tonnes grading 4.55% copper.

HudBay also partnered with Halo Resources Ltd. on the Lost Lake joint-venture project in the Sherridon area. HudBay continues to explore the deposit and has started pre-feasibility engineering work.

Weakness in nickel prices is having a significant negative effect on production in the province. Vale's Thompson operations are undergoing a revision of all aspects of the operations including potential capital investments as they transition to a mining and milling facility with the impending closure of the smelter and refinery in 2015.

Low nickel prices have resulted in CaNickel Mining Ltd. (previously Crowflight Minerals Inc.) temporarily suspending mining operations at the Bucko Lake mine in Wabowden. The mine was placed on care and maintenance in June, but exploration activities continue on their large portfolio of properties in the region. CaNickel has successfully increased the Proven and Probable reserves at Bucko to 3.71 million tonnes of 1.45% and company is also having considerable exploration success on the nearby M11A deposit.

Uncertainty in equity markets and weak nickel prices are also presenting challenges to Victory Nickel Inc. Having received an Environment Act licence in 2011, authorizing the construction and operation of the Minago project north of Grand Rapids, Victory has been unsuccessful in securing financing for the initial stages of development for the \$600 million nickel and frac sand mine.

The difficulties presented by weak base-metal commodity prices are not preventing a number of junior explorers from conducting aggressive base-metal exploration programs.

Rockcliff Resources Inc. continues to post impressive drill results at their Tower VMS property north of Grand

Rapids. The joint-venture project with partner Pure Nickel has outlined two zones of copper-gold mineralization within rocks of the Thompson Nickel Belt. Initial drilling targeted the T1 zone and returned intercepts grading up to 6.1% copper over 4.9 metres. A deep-penetrating electromagnetic (DPEM) geophysical survey outlined a large down-plunge continuation of the T1 zone and identified two other untested anomalies (T2 and T3). The first follow-up drillhole testing the T2 anomaly returned 2.77% copper over 4.0 metres. The relationship between the two mineralized zones is not yet well understood, although the T1 zone is characterized by mineral textures consistent with remobilization and a lack of associated hostrock alteration, whereas the T2 zone is hosted within a well developed alteration envelope. Diamond-drill testing of the T1 and T2 zones is planned for the winter drill season.

Rockcliff was also successful testing geophysical anomalies at the past-producing Dickstone mine west of Snow Lake. Initial diamond-drilling testing potential deep mineralization returned 2.7% copper over 2.5 metres and follow-up downhole geophysics suggest the mineralization is associated with a large untested anomaly below the existing mine workings.

Low nickel prices did not prevent Mustang Minerals Corp. from completing a feasibility study of the Makwa deposit near Lac du Bonnet and exploration work at the nearby Mayville property. The Makwa deposit comprises a NI 43-101-compliant resource of 9.855 million tonnes in the Probable category containing 0.541% nickel, 0.113% copper and 0.433 grams per tonne platinum group metals (PGM). The company purchased the Bouchard Herbert mill near Rouyn-Noranda, Quebec which will be relocated to the Makwa site. The associated reduction in capital costs are being incorporated in the feasibility study expected to be completed in 2012.

The Mayville deposit contains a NI 43-101 Indicated resource of 9.227

million tonnes containing 0.61% copper, 0.23% nickel and 0.174 grams per tonne palladium. Mustang believes the Mayville deposit has the potential to host a significant PGM resource.

Other nickel exploration projects include Prophecy Resources Corp. and Corazon Mining Ltd. exploring past-producing nickel mines originally operated by Sherritt Gordon Mines in Lynn Lake. Employing advanced exploration techniques and technology, the companies have been successful discovering new mineralization and expanding the remaining resources at the Lynn Lake and El mines.

PRECIOUS METALS

Precious metals exploration and development activities continue to gain momentum, driven by the continued strength in gold and silver commodity prices and improving long-term price outlooks. Gold remains the focus, with a considerable increase in exploration and deposit appraisal expenditures, both in the re-evaluation of past-producing gold deposits and increasing greenfield and brownfield exploration.

The re-evaluation of past-producers started in the Rice Lake greenstone belt with San Gold Corporation's purchase of the Rice Lake mine in Bissett from Harmony Gold Inc. San Gold brought the mine back to producer status in 2007 and continues to improve their operational performance. This trend now applies to all past-producing regions of the province.

San Gold's Rice Lake mine provides a sound model for the redevelopment of a past-producing gold mine. San Gold has taken an uneconomic mine with existing infrastructure, but a limited reserve base, and transformed the operation into a profitable gold producer with significantly improved economics due to aggressive exploration and resultant reserve-base expansion.

San Gold's improved operational performance is the result of the exploration success at its Rice Lake and Hinge mines in Bissett. The development of high-grade, near-surface deposits has

allowed San Gold to achieve record production in successive quarters, which has led to a corresponding increase in operational profit. San Gold has reported record operating margins resulting from a significant decrease in operating expenses in successive quarters and is currently in the midst of a multiyear program to increase production. San Gold produced 85,000 ounces of gold in 2011 and is on pace to produce 100,000 ounces of gold in 2012.

The Rice Lake belt remains Manitoba's pre-eminent gold exploration camp, where efforts are dominated by junior explorers. Although financing remains problematic, a number of exploration companies are active in the region. This includes Bison Gold Resources Inc. on their past-producing Central Manitoba property southeast of Bissett, Wildcat Exploration Ltd, Strikepoint Gold, and Harvest Gold.

The re-evaluation of past-producing gold mines in the Trans-Hudson Orogen has gained significant momentum in recent years. This region's large number of past-producing mines and their largely intact infrastructure represent attractive targets for junior gold explorers.

The most advanced project in the region is Auriga Gold Corp.'s Maverick gold project south of Sherridon. The cornerstone of the project, the past-producing Puffy Lake underground mine, comprises largely intact surface infrastructure and a NI 43-101-compliant optimized in-pit and underground Indicated resource totalling 174,000 ounces gold and Inferred resource totalling 558,000 ounces. Auriga plans to initiate gold production through a series of shallow open pits and transition to underground mining. This will limit the start-up capital requirement and allow Auriga to redevelop the underground mine from cash flow. Auriga is currently refurbishing the surface infrastructure in anticipation of initial production early in 2013. The Puffy Lake mine produced 28,000 ounces of gold in 1988 and 1989.

In the Snow Lake area, QMX Gold (formerly Alexis Minerals Corp) continues to advance the re-opening of

the former New Britannia mine. QMX has secured a significant portion of the required capital to re-open the renamed Snow Lake mine. A December 2009 feasibility study forecast production of 80,000 to 90,000 ounces of gold per year for a minimum of six years. QMX has conducted an aggressive exploration program since the feasibility study to add additional reserves to the mine with the goal of increasing the mine life and project economics. The New Britannia mine produced 858,000 ounces of gold between 1995 and 2005 and 760,000 ounces of gold between 1949 and 1958 as the Nor Acme mine.

The re-evaluation of past-producing gold mines includes a number of mines in the Lynn Lake greenstone belt in the northern Trans-Hudson Orogen. Carlisle Goldfields Limited continues to evaluate a number of deposits that will conceptually feed a regional mill. The centrepiece is the MacLellan Gold mine that contains a NI 43-101-compliant open pit and underground Measured and Indicated resource estimate of 1,035,200 ounces of gold and 9,344,000 ounces of silver. Carlisle holds a significant land position in the Lynn Lake greenstone belt and exploration drilling at the BT mine, which operated between 1994 and 1996, the Farley Lake mine, which operated between 1997 and 2000, the Lashope deposit, and a number of other deposits along strike from the past-producers are expected to return sufficient resources to proceed to a feasibility study.

The evaluation of other past-producing gold mines in the Trans-Hudson Orogen includes Satori Resources' Tartan mine east of Flin Flon and Callinex Mines' Gossan Hill project near Cranberry Portage, which hosts the past-producing Gurney mine.

Gold exploration activity is not limited to past-producing deposits located in established greenstone belts, but also includes a number of advanced and grassroots exploration projects located in more frontier regions of the province. The highest profile project is Mega Precious Metals Inc.'s Monument

Bay gold project near Red Sucker Lake in northeastern Manitoba.

The Monument Bay project includes the Twin Lakes gold deposit within a large regional exploration property. Mega continues with an aggressive infill and exploration drill program at Twin Lakes and outlined an open pit and underground NI 43-101-compliant Measured and Indicated resource of 1,046,010 ounces of gold grading 2.5 grams per tonne and an Inferred resource of 1,726,674 ounces of gold at 3.78 grams per tonne. Regional exploration on the 6,692 hectare Monument Bay property is generating additional resources. The project is scheduled to go to feasibility study in 2014.

The success of the Monument Bay project points to the favourable geology of the Archean northern Superior Province southeast of Thompson. This has attracted a number of junior gold explorers, including Gossan Resources Limited, Alto Ventures Ltd., Callinex Mines, Canada Bay Resources and QMC Quantum Minerals Corp. This under-explored accretionary terrane represents the western strike-extension of proven gold-producing geology in Ontario and is viewed by explorers as having the potential to host a number of gold deposits forming a regional camp.

SPECIALTY/INDUSTRIAL MINERALS

In March 2012, Westcore Energy Ltd. reported that it had completed 20 additional vertical holes on its 2012 drilling program at its wholly owned Black Diamond and FNR JV Cretaceous Swan River Formation coal properties, located south of The Pas. A total of 2175 m of delineation and exploratory drilling was done on five previous known deposits and on two new geophysical targets, respectively. A NI 43-101 resource report on the results of the delineation drilling was anticipated to be completed in the second quarter of 2012.

In early 2012, Saturn Minerals Inc. completed a Fugro airborne gravity survey at its Overflowing property south of The Pas, and immediately to the east of the Westcore Energy properties

described above. Seven additional vertical holes were drilled early in 2012, of which 3 intersected the Saturn coal seam in the company's Karolina Coal Basin. The company's third new coal discovery (Thunder Discovery) was drilled in one hole along its 8 km long north-south "Overflowing" geophysical trend. The trend connects several strong anomalies, two of which are the Thunder and Karolina discoveries lying 2 kilometres apart. The Thunder Discovery comprises three thick (3.1–8.6 m) and three thin (1.7–3.0 m) coal seams between the 15.0–45.05 m depths in the discovery hole, which was stopped at the 50 m depth due to technical difficulties. Samples were shipped to Loring Laboratories in Calgary for proximate coal analysis, sulphur content and calorific value. The results from the tests showed that the shallow Upper Thunder Coal Seam, situated 15.3–24.3 m below surface, is likely one of the best ranking coals discovered in western Manitoba to date, with significantly low sulphur values, relatively low ash content and moderate to high calorific values.

In April 2010, Gossan Resources Limited announced completion of Phase II of its Inwood Magnesium project, which comprised three phases of bench-scale testing of high-purity Silurian Fisher Branch Formation dolomite, utilizing the Gossan-Zuliani (high-efficiency magnesium) process. Watts, Griffis and McOuat Limited independently calculated a NI 43-101-compliant Measured resource based on the results from a 2006 drill program and 25 holes previously drilled on the 80 hectare property (from surface to a depth of 12–15 m) to be 28,819,000 tonnes averaging 21.15% MgO and 30.91% CaO. The tests confirmed that the Gossan-Zuliani Process produces magnesium metal, under atmospheric conditions, at exceptionally high raw material efficiencies. In April 2012, the company announced that the magnesium produced by the process has been shown (in an independent study conducted by Process Research ORTECH) to substantially reduce midsize car emissions by almost 7% over a car's life expectancy (200 000 km). Planned Phase III will involve

large-scale batch and process testing; and Phase IV will require pilot plant-testing to demonstrate commercial viability.

In September 2009, Victory Nickel Inc. announced it had drilled a (NI 43-101-compliant) Indicated resource of 15 million tonnes of Ordovician Winnipeg Formation silica sand (containing 84% marketable frac sand) above its Minago Nose nickel deposit, located south of Thompson. The sand, which forms part of the overburden, must be removed before the nickel can be open-pit mined. In September 2011, Victory Nickel received an Environmental Act licence for the Minago mine; and the development (including a frac sand component) was approved by its board of directors. In June 2012, Victory Nickel Inc. announced the creation of a subsidiary, Victory Silica Ltd., to oversee production and sales of up to 1.14 million tonnes per year of premium frac sand. Minago frac sand lab analysis of its potential 20/40 sand product indicates that it has a sphericity of 0.72; roundness of 0.78; acid solubility of 0.92%; silt test (turbidity) of 24 Formazine Turbidity Units (ftu); and crush resistance of 11.5%. □



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MANITOBA MINERAL SECTOR PROFILE

(Current as of October 1, 2012)

SECTOR PROFILE

Size:

The mining and petroleum industries make up the second-largest primary resource industry of Manitoba's economy. The 2011 value of mining and petroleum production totalled over \$3.2 billion, comprising:

- Metallic minerals (\$1.65 billion or 51.4% with Nickel accounting for 36.8%, Copper 30.9%, Gold 15.6%, Zinc 10.0%, Silver 2.5% and Other Metals 4.2% of total value of metals)
- Industrial Minerals (\$188 million or 5.9%), and
- Petroleum (\$1.36 billion or 42.7%).

In 2011, employment averaged 5,800; capital expenditures on mining and petroleum development totalled an estimated \$1.3 billion, and the industries accounted for approximately 7% of provincial GDP and about 13% of total exports.

In 2011, Manitoba produced*:

- 12.7% of Canada's zinc
- 11.9% of Canada's nickel
- 10.2% of Canada's copper
- 5.4% of Canada's gold
- 6.8% of Canada's silver
- 100% of Canada's cesium

*Silver, cobalt and platinum group metals are by-products of other mined metals or minerals; values are not available for cobalt and platinum group metals.

Dominant Activities:

- Mining, smelting, refining of base & precious metals
- Mining/quarrying of industrial minerals
- Crude oil extraction

Structure & Concentration:

- There are approximately 40 companies active in mineral exploration and mining in Manitoba. Two mining companies employ approximately half of the workforce in this sector. Manitoba has seven producing mines, two new mines in development, one operating smelter and two refineries.
- There are about 20 major producers active in the industrial minerals sector in Manitoba.
- There are 46 companies that produce oil in Manitoba, ranging from large multinationals to small locally based producers. 578 new wells were drilled in 2011. At December 2011, Manitoba had 3,360 producing oil wells. Crude oil produced in Manitoba is shipped through the Enbridge pipeline system or Canadian National Railway to refiners in

eastern Canada and the northeast and north-central areas of the United States.

Exploration and development highlights:

- In 2011, the value of production increased 12% for metals and 53% for petroleum, and decreased 6% for industrial minerals; total production value was \$3.2 billion, a 25% increase from 2010.
- Exploration expenditures totalled \$110.5 million for 2011, a 32 per cent increase from 2010, and were projected to increase again in 2012 to \$125.6 million. However, continuing instability in global economies and financial markets has created uncertainty in mineral investment, resulting in a reappraisal of exploration programs, and accordingly, is expected to negatively impact exploration spending intentions.
- Oil production in Manitoba has grown rapidly, nearly quadrupling since 2004, and setting a new annual production record of 15.1 million barrels in 2011, valued at \$1.36 billion, a 53 per cent increase from 2010. Oil companies invested a record-breaking \$1.2 billion in combined capital and operating expenditures.

Advanced exploration projects:

- Lalor Project (zinc-copper-gold) 100% HudBay Minerals, Inc.: Initial production at Lalor, Hudbay's \$704 million mine development project, began in August 2012. The first full-year of production from the production shaft is expected in 2015. Completion of the production shaft and new concentrator are scheduled in late 2014. The Indicated base-metal resource stands at 13.3 million tonnes grading 8.87% zinc with an Inferred resource of 4.8 million tonnes grading 9.25% zinc. The Gold Zone Inferred resource is 5.4 million tonnes grading 4.7 grams per tonne gold. Conceptual estimates indicate the potential for an additional 5.1 to 6.1 million tonnes grading between 4.3 and 5.1 grams per tonne for the Gold Zone and an additional 1.8 to 2.2 million tonnes grading 5.8 to 7.0 grams per tonne gold and 3.2% to 4.0% copper for the Copper-Gold Zone.
- Reed Copper Project (copper-zinc) 70% HudBay Minerals, Inc. / 30% VMS Ventures Inc.: Initial production at the joint-venture project is expected by the fourth quarter of 2013, with ramp-up to full production of approximately 1,300 tonnes per day anticipated by the first quarter of 2014. The deposit contains a NI 43-101-compliant Indicated resource estimate of 2.5 million tonnes grading 4.55% copper.

- Snow Lake mine (gold) 100% QMX Gold Corporation (formerly Alexis Minerals Corporation): Feasibility study results show positive economics for reopening the Main mine and the No. 3 zone with a combined 2,000-tonne-per-day production rate. Measured and Indicated Mineral Resources were calculated at over 720,000 ounces gold. Production is expected at 80,000 ounces per year over a minimum of five years. The company continues to work at defining the resource and securing financing to move the project forward.
- Monument Bay Project (gold) 100% Mega Precious Metals Inc.: Mega continues to discover additional gold mineralization through its ongoing old core assay program (OCAP). The company expects the results from OCAP, which are not included in the NI 43-101 resource released in February 2012, will increase the resource estimate significantly. Mega plans to continue with the program in 2012 and 2013 followed by an updated NI 43-101 report. Mega and Red Sucker Lake First Nation signed a memorandum of understanding to cover certain portions of the project that lie within the traditional lands of the First Nation.
- Minago Project (nickel) 100% Victory Nickel Inc.: In August 2011, Victory Nickel was granted an Environmental Act Licence for a 10,000-tonne-per-day nickel mine. The Minago open pit will produce approximately 26 million pounds of nickel in concentrate and 1.14 million tonnes of by-product frac sand per year for 9 years. The company's current focus on the project is to secure financing for mine construction.
- Makwa Project (nickel-PGE) 100% Mustang Minerals Corp.: A National Instrument 43-101-compliant reserve estimate in 2010 outlined a 10 million tonne open pit. Mustang continues work on a feasibility study and has purchased a mill facility to reduce the capital costs outlined in the study. Mustang and Sagkeeng First Nation signed a memorandum of understanding as the first step in a community engagement process to benefit both parties.

Mining operations:

- As Vale transitions its Thompson operations to phase out smelting and refining by 2015, the company projects mining and milling to continue well beyond 2020, and is reviewing new mine development opportunities, specifically, the Thompson 1-D project which represents a potential investment of more than \$1 billion.
- HudBay committed \$187 million in capital expenditures for their Manitoba operations in 2012 and estimates capital costs for the Lalor mine to full production in 2014 at \$704 million and \$71 million for construction of their Reed copper project. The 777 North expansion project, scheduled for completion in 2012, will provide additional feed to Hudbay's Flin Flon concentrator and zinc plant and

additional exploration opportunities. The company's Trout Lake mine closed in June 2012 due to depleted ore reserves.

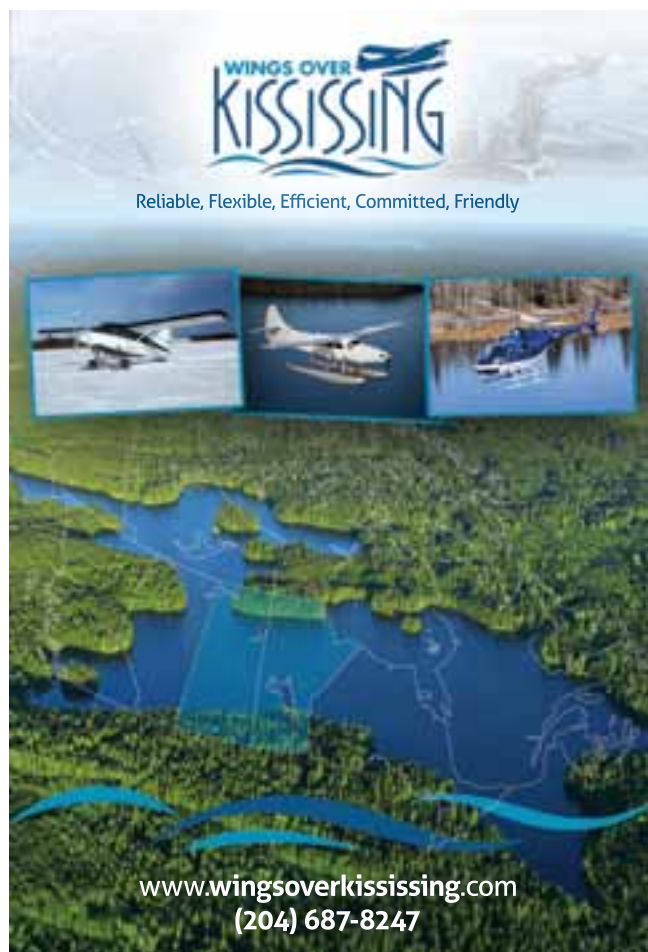
- During the first half of 2012, San Gold Corporation spent \$39.2 million on capital improvements at their Rice Lake mining complex. San Gold continues to expand their mining operation at Bissett with ongoing exploration successes that will help the company attain their 2012 production target of between 95,000 and 105,000 ounces.
- CaNickel Mining Limited (formerly Crowflight Minerals Inc.) CaNickel put their Bucko Lake Nickel Project near Wabowden on care and maintenance in July 2012 due to weak nickel prices. The company continues to undertake exploration programs in the Thompson Nickel Belt, including a feasibility study on their M11A project.

Sector Capabilities:

- Base and precious metals: copper, nickel, zinc, gold
- Industrial minerals: cesium, dolomite, gypsum, sodium chlorate, dimension stone, lime, crushed rock, sand and gravel aggregate
- Crude oil extraction

Key Players:

- HudBay Minerals Inc.
- Vale
- San Gold Corporation



- CaNickel Mining Limited
- Tantalum Mining Corporation of Canada
- Tundra Oil & Gas Partnership.
- EOG Resources Canada Inc.
- Enerplus ECT Resources Ltd.
- Penn West Exploration
- Canadian Natural Resources Limited
- Gillis Quarries Ltd.
- Cold Spring Granite (Canada) Ltd.
- ERCO Worldwide
- Certain Teed Gypsum Canada Inc.
- Graymont Western Canada Inc.
- Lafarge Canada Inc.
- Lehigh Inland Cement Limited

COMPETITIVE STRENGTHS

Mineral Endowment:

- Metal deposits in Manitoba's Precambrian Shield have been mined for decades. Ongoing development at Flin Flon will extend operations there until 2020 and at Snow Lake, the Lalor deposit is expected to support mining to 2030 and beyond. These developments will see mining activity in the Flin Flon-Snow Lake region extend over 100 years since the first mines were opened. Similarly, Vale's new development projects are expected to extend mining operations there beyond 2020, more than 60 years after initial production. In 2006, San Gold Corporation reopened the gold mine at Bissett, where the mining history of the region's mineral-rich Rice Lake gold belt dates back to 1911, and where ongoing exploration successes have enabled San Gold to expand production every year.
- Large areas of high mineral potential in remote regions of the province remain under explored when compared

with similar regions elsewhere in Canada. This represents a potential avenue for considerable growth in Manitoba's mineral sector and may provide significant employment opportunities for northern and Aboriginal communities near new mineral exploration and development projects.

- Manitoba mineral resources with potential for future economic development include platinum-group elements (platinum, palladium and rhodium), rare earth elements, uranium, titanium, vanadium, chromite, silica, diamonds and potash.
- Although oil has been produced in Manitoba for over 60 years, the province is still relatively underexplored. Production has been obtained from only a small part of the total sedimentary sequence present in the province. Due to the relatively shallow depth of sedimentary rocks in Manitoba and the generally flat terrain, drilling costs are relatively low.

Business Strengths:

- In addition to the province's rich mineral resources, Manitoba offers a number of business advantages that support mining and petroleum exploration and development including: a comprehensive geoscience knowledge-base, financial incentives, a transparent land-tenure system, competitive business costs, skilled labour, environmental stewardship balanced with industry needs, a high-quality transportation infrastructure, access to a sea port, and low-cost, reliable electricity.
- Recent initiatives to support mineral and petroleum exploration and development include:
 - Renewal of the Mineral Exploration Assistance Program in April 2011 for another three years. The program provides funding of \$1.5 million through one offering per year for a total of \$4.5 million over the

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three-year period. Since 1995, Manitoba has invested a total of \$28.9 million through its Mineral Exploration Assistance Program to support 755 exploration projects. These projects have generated \$252.3 million in company spending for exploration in the province.

- The Manitoba Geoscience Advantage Program, which provides \$400,000 a year for three years to provide new geoscience information supporting mineral exploration in the province.
- The Manitoba Drilling Incentive Program, which provides incentives to explore and develop petroleum resources in the province, was extended at the end of 2008 through to January 1, 2014.
- A progressive mining tax rate of 10, 15 or 17 per cent based on profits and other mining tax incentives making Manitoba among the most competitive mining tax regimes in Canada.
- An increased Mineral Exploration Tax Credit to 30 per cent in 2010 offers Manitoba tax payers the most generous mineral exploration tax credit in the country.
- The new online Integrated Mining and Quarrying System (iMaQs) streamlines the administration processes under Manitoba's mining legislation and allows companies to manage their mineral dispositions from anywhere in the world at any time.
- Online access to geoscientific and mineral tenure information on Manitoba's mineral and petroleum resources has been enhanced through the new GIS Map Gallery which has been completely redesigned to improve the quality and the stability of the service.
- On September 28, 2012, the new Northern Manitoba Mining Academy located in Flin Flon and Thompson officially opened. The academy, established by the Manitoba government in collaboration with industry, educational institutions, and municipal and federal governments, includes state-of-the-art mining simulators, and will provide a regional hub for the development and administration of mining and geoscience training across the North.
- Through the Northern Essential-Skills Training Initiative, Manitoba continues to work with the Northern Manitoba Sector Council to deliver training initiatives to address skill shortages in the mining sector.
- More than \$84 million spent to date on the ongoing rehabilitation of orphaned and abandoned mine sites across the province.
- Manitoba has been recognized nationally and globally as one of the best places for mining and petroleum investment:
 - Manitoba's effective mining tax rate is ranked lowest or second lowest in Canada over a range of mine profitability levels according to a federal study published in the Natural Resources Canada Information Bulletin: Taxation of Mineral Income 2012 – How Canada Compares (June 2011)
 - In 2012, Manitoba was reinstated as the best jurisdiction in Canada to invest in petroleum exploration and development, as rated by oil industry executives in the Fraser Institute's *Global Petroleum Survey*. For the previous three years, Manitoba ranked as the best (2009 & 2010) or second-best (2011) nationally. □

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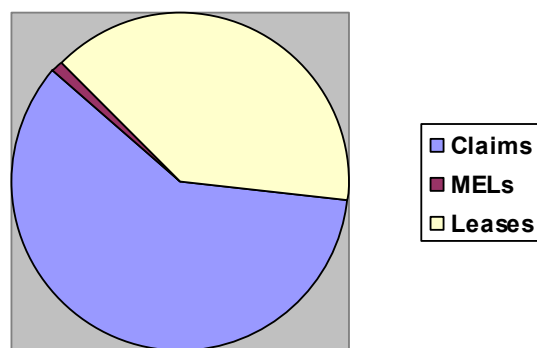
MINING DISPOSITION STATISTICS AS OF SEPTEMBER 31, 2012

Dispositions	Totals	Area in ha
Mining claims (active & pending)	5,948	938,309
Mineral Exploration Licences (active & **pending)	93	1,278,614
*Leases	3,908	145,700

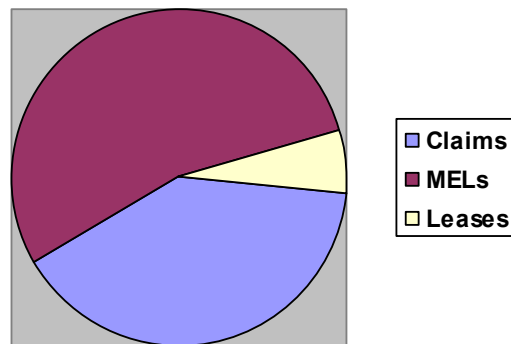
*Leases include mineral leases and leases grouped under Order in Council.

**Area is approximate for pending Licences

of Dispositions

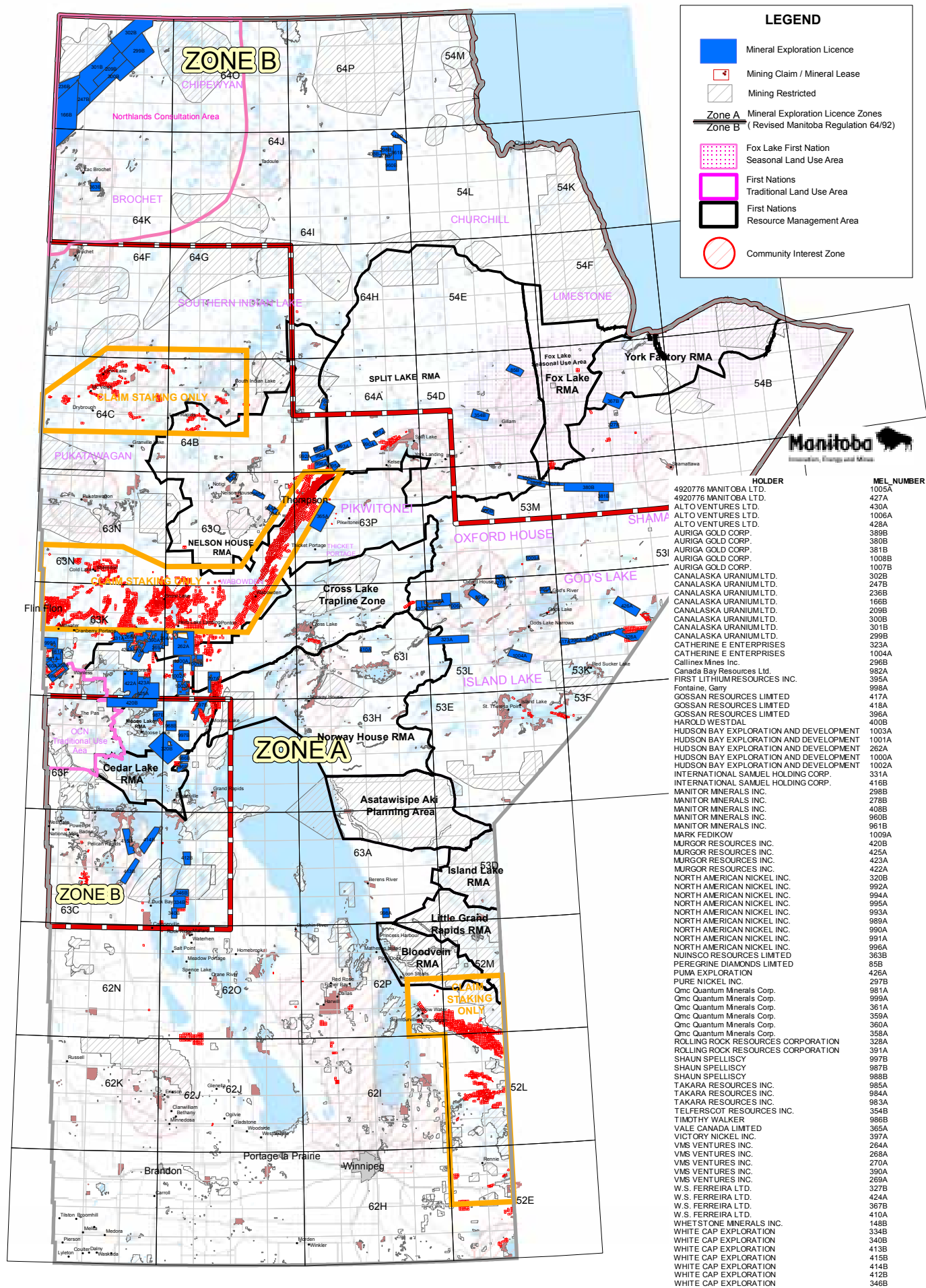


Area in hectares



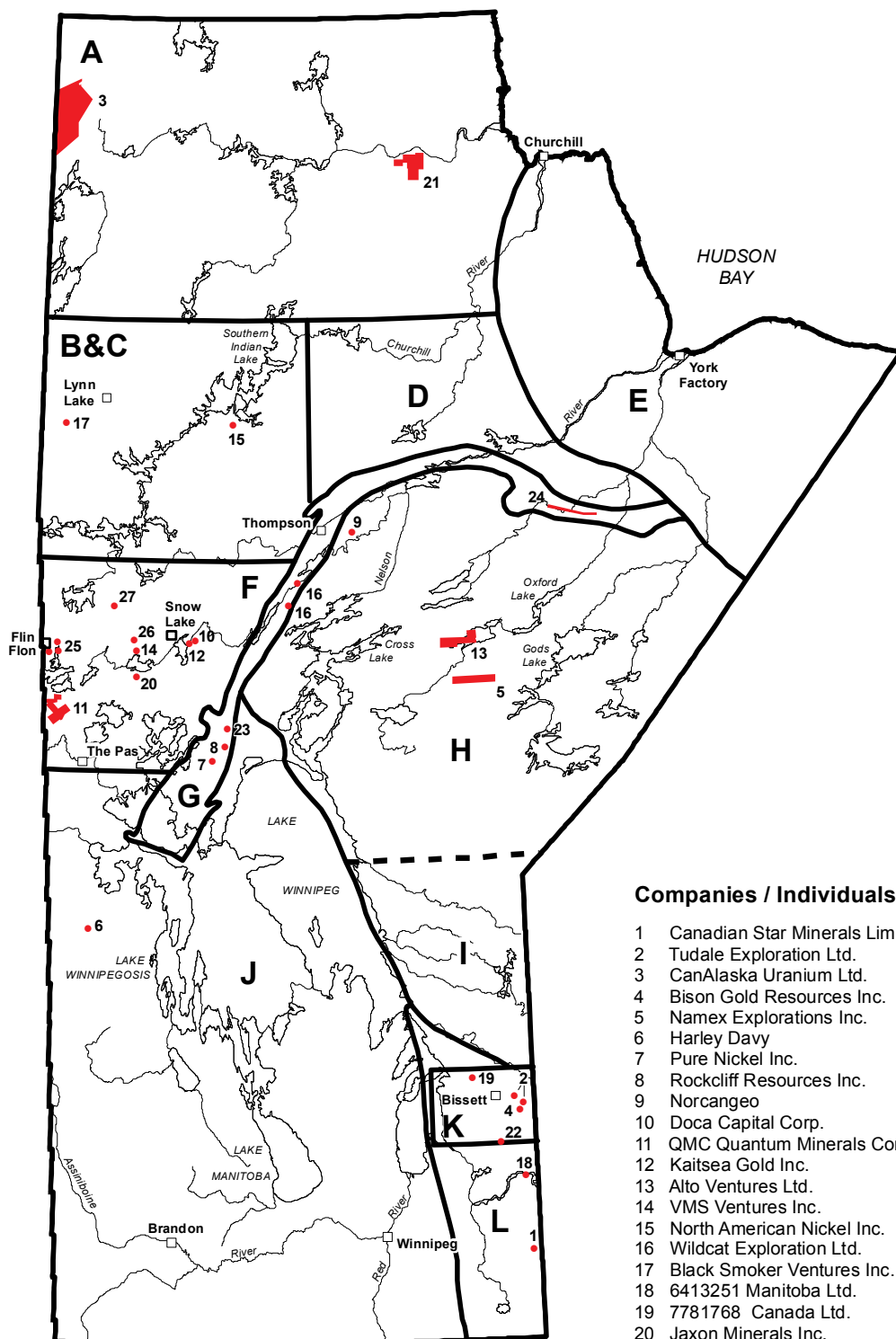
Courtesy of

Gerald Teichrib
Acting Mining Recorder



APPROVED MEAP PROJECTS

April 2012 MEAP Offering



Regions

- A** Far North
- B&C** Lynn Lake/Leaf Rapids
- D** SE Trans-Hudson Orogen
- E** Hudson Bay Lowland
- F** Flin Flon/Snow Lake
- G** Thompson Nickel Belt
- Superior Boundary Zone
- H&I** Northern Superior
- J** South Central Manitoba
- K** Bissett
- L** Southeastern Manitoba

Companies / Individuals

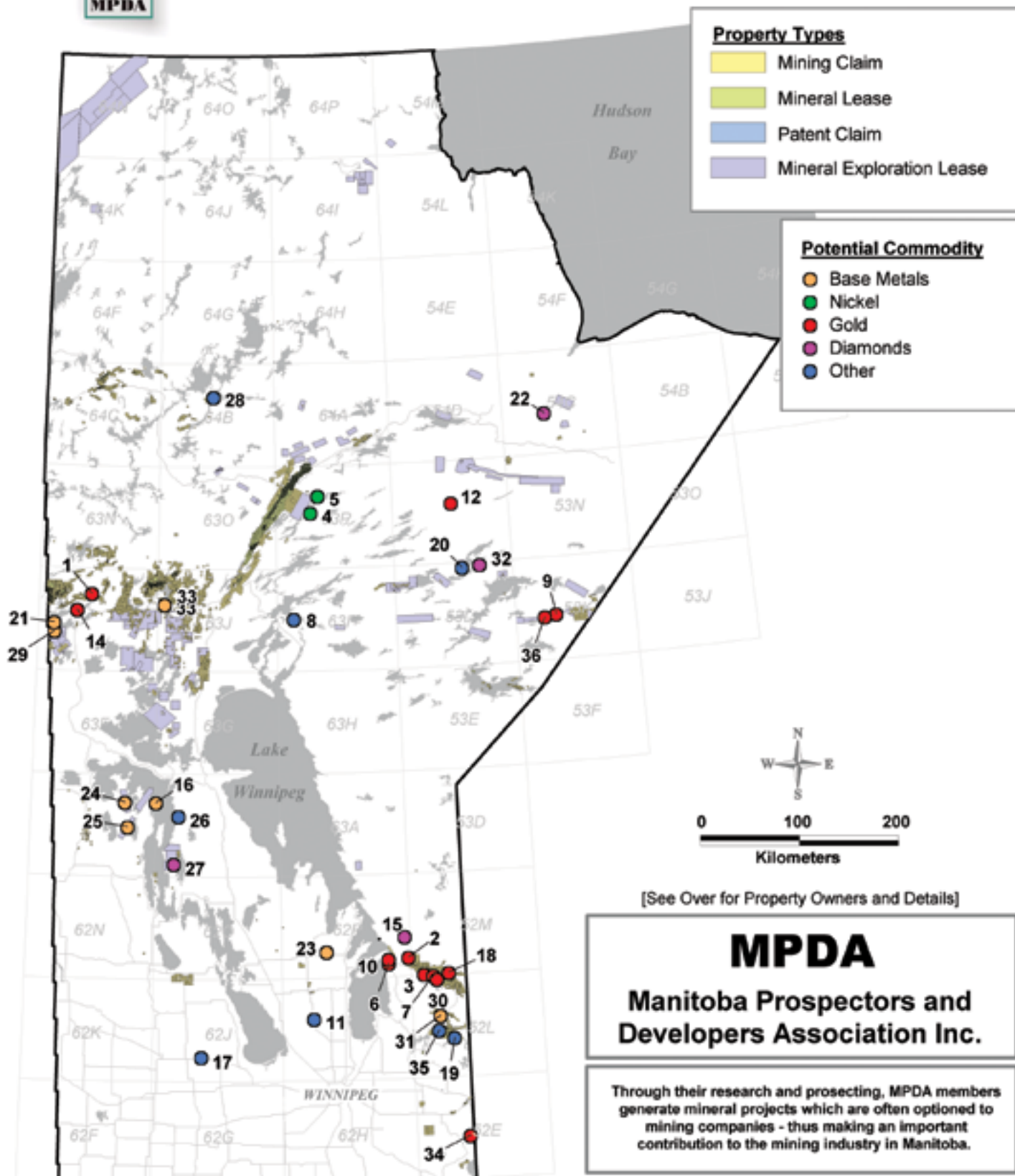
- 1 Canadian Star Minerals Limited
- 2 Tudale Exploration Ltd.
- 3 CanAlaska Uranium Ltd.
- 4 Bison Gold Resources Inc.
- 5 Namex Explorations Inc.
- 6 Harley Davy
- 7 Pure Nickel Inc.
- 8 Rockcliff Resources Inc.
- 9 Norcangeo
- 10 Doca Capital Corp.
- 11 QMC Quantum Minerals Corp.
- 12 Kaitsea Gold Inc.
- 13 Alto Ventures Ltd.
- 14 VMS Ventures Inc.
- 15 North American Nickel Inc.
- 16 Wildcat Exploration Ltd.
- 17 Black Smoker Ventures Inc.
- 18 6413251 Manitoba Ltd.
- 19 7781768 Canada Ltd.
- 20 Jaxon Minerals Inc.
- 21 Manitor Minerals Inc.
- 22 Mustang Minerals Corp.
- 23 Victory Nickel Inc.
- 24 Auriga Gold Corp.
- 25 Callinex Mines Inc.
- 26 Copper Reef Mining Corporation
- 27 Halo Resources Ltd.

Project name

- West Hawk Lake
- Bissett Area Gold
- NW Manitoba 2012
- Central Manitoba
- MacVicar
- Burning Mountain
- William Lake
- Tower Property
- Bryce Bay
- Wekusko Project
- Rocky Namew Drilling
- Jean Lake
- Oxford Lake
- Snow Lake
- South Bay
- Burntwood
- Fox Lake Mine Revival
- Silverleaf
- Hannes Gold
- Snow Lake 54088
- Hearne Project
- Mayville
- Minago
- Fox River/Gowan Stupart River
- Flin Flon Project
- Northstar/Gold Rock Project
- Sherridon VMS



2012 Manitoba Mineral Properties Owned by MPDA Members





2012 Manitoba Mineral Properties Owned by MPDA Members

Property Owners and Details

Number	Owner	Potential	Contact
1	Callinex Mines Inc	Gossan-Au	info@callinex.ca
2	DLM Gold Ventures	Au	manitobagold@gmail.com
3	DLM Gold Ventures	Au	manitobagold@gmail.com
4	Garry Thorne	Ni, Cu, PGE, Au	norcangeo@shaw.ca
5	Garry Thorne	Ni, Cu, PGE	norcangeo@shaw.ca
6	Golden Pocket Resources	Au	info@goldenpocketresources.com
7	Golden Pocket Resources	Au	info@goldenpocketresources.com
8	Gossan Resources Limited	V, Ti	info@gossan.ca
9	Gossan Resources Limited	Au	info@gossan.ca
10	Gossan Resources Limited	Silica	info@gossan.ca
11	Gossan Resources Limited	Mg	info@gossan.ca
12	Harold Westdal	Au	hwestdal@mts.net
14	Kismet Minerals	Au	maryann@corporate-relations-services.com
15	Klyne Exploration	Diamonds	i_zinc@hotmail.com
16	Klyne Exploration	Ni, MVT	i_zinc@hotmail.com
17	Stephen J. Lesavage	Fe	stevelesavage@mts.net
18	Stephen J. Lesavage	Au	stevelesavage@mts.net
19	W. D. Fogwil	Li, Ta, Ce	fogwill@mts.net
20	W. D. Fogwil	REE	fogwill@mts.net
21	W. D. Fogwil	Cu, Zn	fogwill@mts.net
22	W. S. Ferreira Ltd	Diamonds	wsferreira@shaw.ca
23	W. S. Ferreira Ltd	Cu, Zn	wsferreira@shaw.ca
24	White Cap Exploration	Ni, Cu, PGE, Zn	whitecapexplor@shaw.ca
25	White Cap Exploration	Ni, Cu, PGE, Zn	whitecapexplor@shaw.ca
26	White Cap Exploration	REE, Ni, Cu	whitecapexplor@shaw.ca
27	White Cap Exploration	Diamonds, REE, Zn	whitecapexplor@shaw.ca
28	Wildwood Geological Services	Li, Cs, Ta, Nb	rbezys@shaw.ca
29	William C. Hood	Cu, Zn	bhood@mts.net
30	William C. Hood	Au	bhood@mts.net
31	William C. Hood	Cu, Au	bhood@mts.net
32	William C. Hood	Diamonds	bhood@mts.net
33	William C. Hood	Cu, Zn, Diamonds	bhood@mts.net
34	William C. Hood	Au	bhood@mts.net
35	Gossan Resources Limited	PGM, Ni, Cu	info@gossan.ca
36	W. D. Fogwil	Au	fogwill@mts.net

PROPERTY PROFILE: KLYNE EXPLORATION – PEMMICAN ISLAND NI/MVT PROJECT

Manitoba has been investigated for over 30 years by government and mining company geologists interested in finding Mississippi Valley-type (MVT) Pb-Zn mineralization. A joint study by Klyne Exploration and the Manitoba Geological Survey, underway since 2001, has focused on the MVT potential of the north basin of Lake Winnipegosis, near the northeast end of Pemmican Island. Drilling in 2004 intersected 15 cm of sulphide-bearing dolomite, grading 4.59% Zn, 0.41% Pb, 0.014% Cu, 10.4% Fe and 14.05% S, at a depth of about 15 m below lake level. The mineralization is situated:

- within dolomite of the Cedar Lake Formation (Silurian Interlake Group);
- below the argillaceous Devonian Ashern Formation and the pre-Middle Devonian unconformity, with associated karst development;
- adjacent to the faulted eastern margin of the buried Precambrian Superior Boundary Zone;
- on the southwest flank of the Precambrian Severn Arch;
- near the edge of the composite Elk Point-Williston sedimentary basin; and
- on the southeast limb of the Moose Lake Syncline.

Bamburak et al. (2002) described the results of geochemical sampling of rounded Fe-sulphide concretions and angular Fe-sulphide slabs (with dolomite clasts), found along the waterline of Pemmican Island in 2001 and 2002.

Maximum analytical values from all samples were 62.2% Fe, 36.4% S, 1.18% Ni, 0.76% Zn, 3670 ppm As, 1100 ppm Pb and 813 ppm Co. It was also noted that the sample containing 1100 ppm Pb also had 1700 ppm Zn. A Thompson-type nickel anomaly in the Precambrian basement was believed to account for the high Ni value.



EAST BEACH OF PEMMICAN ISLAND, WITH SUPHIDES VISIBLE AS THE DARK IN THE FOREGROUND.

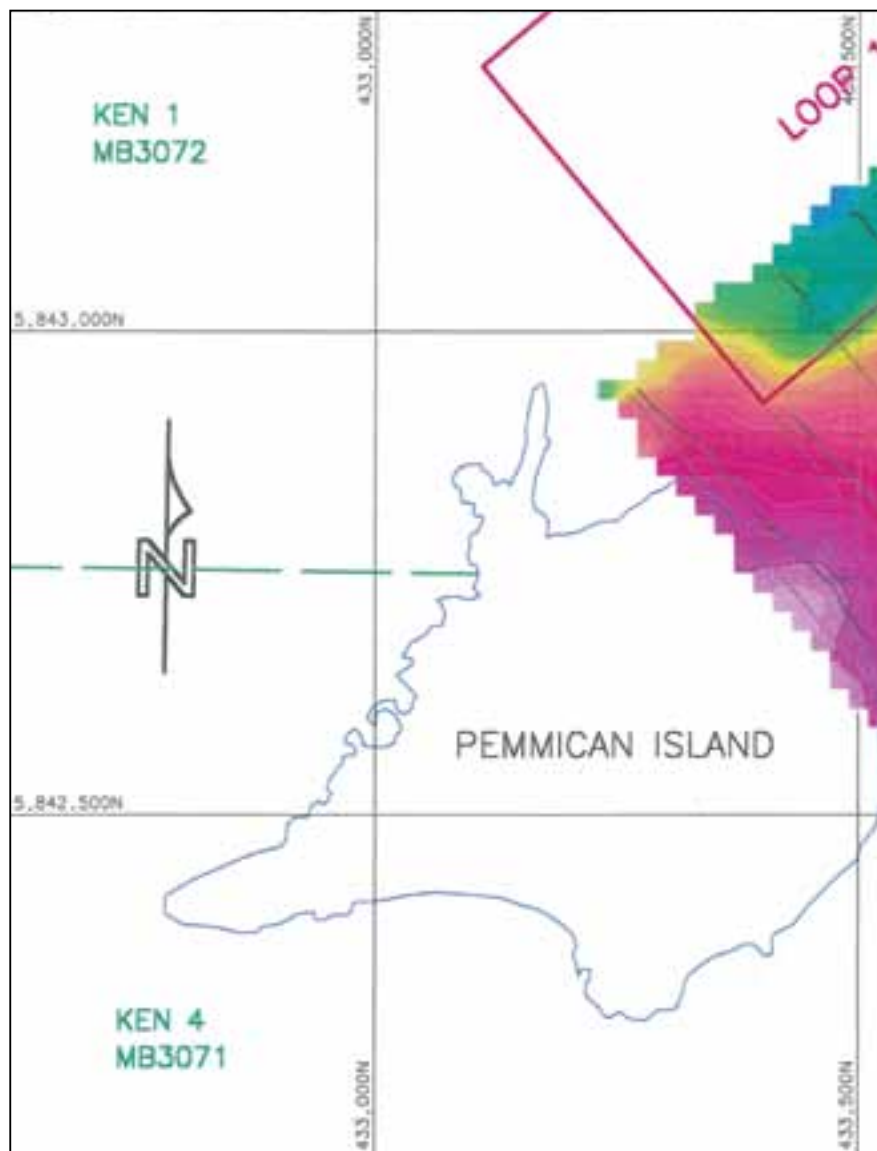


LEFT TO RIGHT: IFTI HOSAIN (RETIRED) AND JAMES BAMBURAK FROM THE MANITOBA GEOLOGICAL SURVEY WITH KEN KLYNE ON BEACH EAST OF PEMMICAN ISLAND.

The most positive outcome from the magnetic and large-loop transient EM surveys at the Pemmican Island property is that there appears to be an anomalous magnetic and conductive formation coincident with the inferred sulphide zone trending northeast under Lake Winnipegosis from the island. Further details of the interpretation should be considered tentative at this point due to the limited amount of data; however, it is possible to infer a few specifics:

1. the anomalous magnetic zone appears to be deep-seated.
2. the conductive formation appears to be shallower, broader and flat-lying
3. it is possible, though felt unlikely, that the magnetic zone is also shallow and broad and hence caused by the same formation as the conductor
4. the conductor is high-conductive and could only be due to near-massive sulphides, graphite or an extremely conductive clay and/or saline sedimentary formation (kaolin clay has been previously noted in the same general area)
5. if the anomalous magnetic and conductive formations are the same, then the anomalous responses are more likely due to sulphides.

Although more survey work would help to resolve some of the questions outlined above and may even detect more significant anomalies, it is felt there is sufficient information to warrant drill testing the presently mapped anomalous zone. A hole should be located at about 100N on line 200E and drilled steeply to the southeast to a total depth of about 200 m or until a conductive formation is intersected. The hole should be surveyed with borehole transient EM to confirm the presence, and determine the exact location and depth, of the conductor. Additional ground magnetic and large-loop TEM surveys should extend along strike to the northeast. The magnetic and TEM surveys should be carried out on longer lines so that more definitive interpretations can be made. Also, additional transmitter loop locations should be employed to the southeast of the anomalous zone to help determine the precise geometry and positioning of the conductor. □



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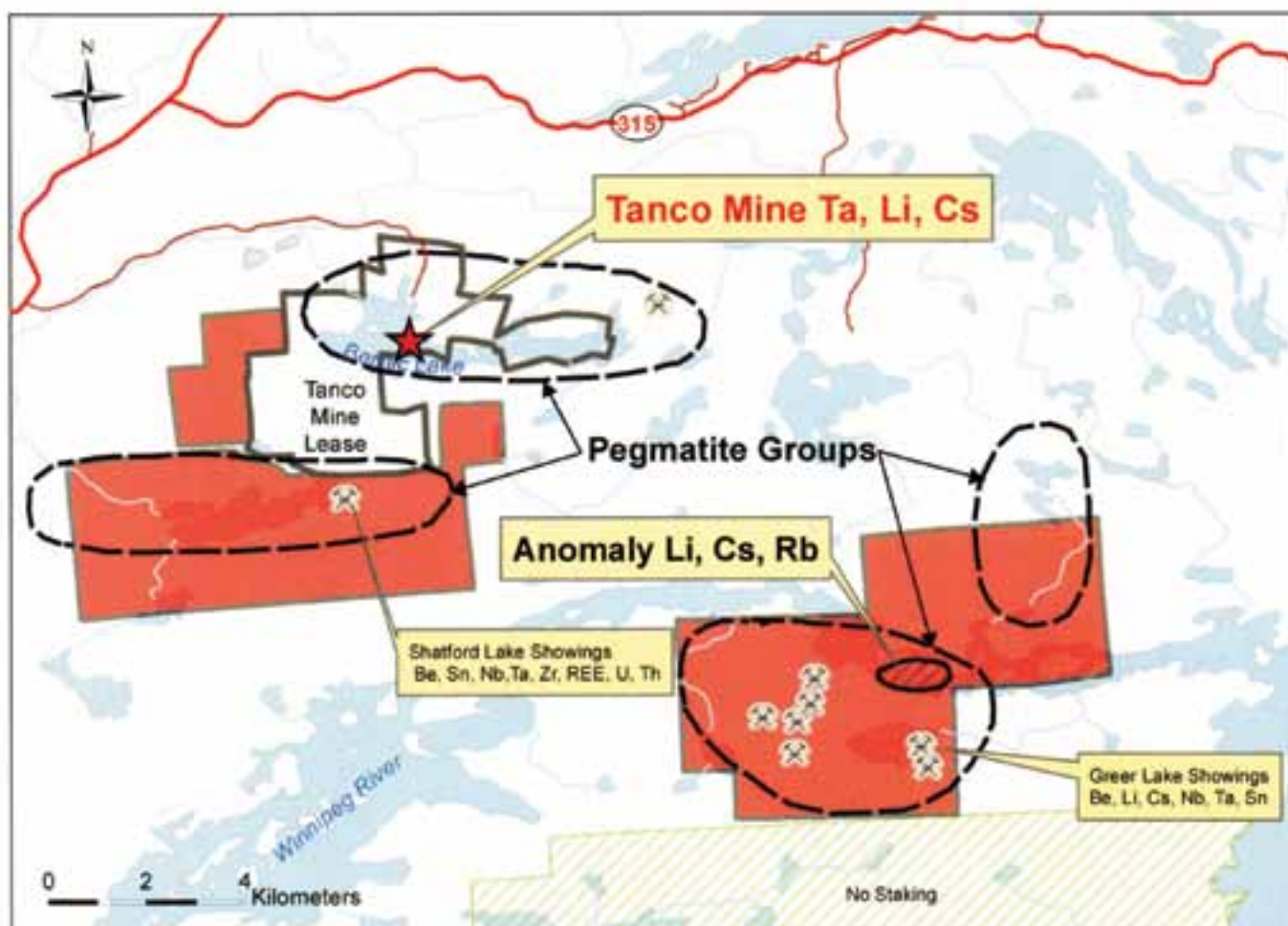
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Visitors talked with professional geologists outdoors at a Rock Doc tent, visited a professional drill rig from Rodren Drilling, panned for gold with champion gold-panner, "Yukon" Dan Moore, and explored new interactive displays at Shaw Centre. Yukon Dan also brought a mini-tour of Manitoba Rocks! to patients at Winnipeg's Children's Hospital.

"Hey! Real gold!" shouted one happy seven-year-old as he showed off a vial of water with flecks of gold to one of the Manitoba Rocks! team. The boy's father explained he had come across Manitoba Rocks! activities while touring The Forks for his son's birthday. More than 400 students from grades 4 to 7 attended Manitoba Rocks! as part of a scheduled, school tours program.

"Students often tell us it's their best field trip, so we always hope to include more schools, but we often have a waiting list," said Kelly Proutt, school tour co-ordinator of the Manitoba Rocks! planning committee.

Participants enjoyed many geoscience displays including a museum-quality, life-size, dinosaur replica, and a fossil dig from the Canadian Fossil Discovery Centre (Morden, Manitoba) and a University of Manitoba Geology Department seismic demonstration. A rock polishing depot and black light "rare rocks" displays and rock collection activities, sponsored by the Mineral Society of Manitoba, and a high-tech mineral analysis display, sponsored by the Manitoba Prospectors and Developers Association, drew steady crowds.

Hudbay, Vale and San Gold Corporation contributed activities and prizes. A national Mining Matters educational booth, sponsored by the Prospectors and Developers Association



Photo courtesy of Agnico-Eagle Mines Ltd.

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Manitoba Rocks! has welcomed over 30,000 visitors since 1999.



of Canada, brought rave reviews for its hands-on activities, including a sand box demo for kids about exploring, developing and reclaiming a mine. Engineers were on hand to share information on the rehabilitation of Manitoba's orphaned and abandoned mines. Petroleum geologists gave a demonstration of a model-sized oil field pump jack. A Women in Mining – Manitoba Chapter presentation introduced visitors to Kate Rice, a pioneer Manitoba prospector, as part of their nomination to have her inducted into the Canadian Mining Hall of Fame.

"We give Manitoba Rocks! a 10," said Susan Bryant, a teacher from Isaac Brock School in Winnipeg. "Activities far exceeded expectations and helped students learn the everyday use and value of mining and minerals. As one exuberant grade 4 student told a Manitoba Rocks! volunteer, "It was the best day of my whole life!"

Manitoba Rocks! graciously acknowledges its mining industry and community partners and many volunteers for their generous support, and extends special thanks to Oak Hammock Marsh, the Children's Museum, the Manitoba Museum, the Royal Canadian Mint, and the Souris Rock Shop for providing additional draw prizes.

Manitoba Rocks! will be part of the 2012 Manitoba Mining and Minerals Convention at the Winnipeg Convention Centre, November 15th to 17th, with pre-booked school tours. For more information, please call 204-945-6500 in Winnipeg or toll free 1-800-223-5215, or visit www.ManitobaRocks.info. □

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2012 MPDA SCHOLARSHIP RECIPIENT SHANNON HUEBERT



In March 2012, Shannon Huebert, B.Sc. Honours candidate at the University of Manitoba, was awarded a \$1,000 MPDA scholarship for studies in geosciences in the 2012-2013 academic year. Congratulations, Shannon!

I am currently completing my third year of the Geology Honours program at the University of Manitoba. Last summer, I gained experience as an exploration summer student working in the Rice Lake District at San Gold Corporation. It was exciting to have insight about how

mineral exploration is conducted and to be able to apply what I have learned in a post-secondary setting within a professional context.

As a former northerner who had the opportunity to live in the Klondike and Yellowknife exploration communities, I

found geology very appealing because of its practical application in industry in addition to the strong sense of camaraderie amongst an exploration team. For my upcoming thesis project, I will compare various generations of weakly mineralized and barren quartz veins in an outcrop which is a surface exposure of the 007 gold deposit in Bissett, Manitoba. The origin of the source fluid, as well as the alteration of the host rock, will also be examined. I hope to gain more knowledge about mineral deposits and mineral exploration techniques in both university and in work settings.

By the time I expect to graduate in 2013, I will have fulfilled the requirements in order to qualify as a professional geologist in training and look forward to working in mineral exploration with a focus on gold and base metal deposits. □



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W. BRUCE DUNLOP – CHAMPION OF MANITOBA MINING

By Leonard Melman

When it comes to enjoying a lengthy, interesting and productive career within the world of Manitoba mining, one man in particular stands out: W. Bruce Dunlop.

Bruce was born in the Nova Scotia community of Windsor 88 years ago. After completing his early education, Bruce moved on to Acadia University, where he obtained a Masters degree in Geology and became a professional geologist. One of his earliest jobs was with the Geological Survey of Canada and his particular assignment was to provide a geologic map of the Island of Montreal.

He then travelled off to the “boonies” of Newfoundland and Labrador, where he did field work with several companies. That was followed by a long-term position with International Nickel in the Sudbury Mining Camp, where he performed geologic exploration and development studies, both underground and at surface. He began his long association with the Manitoba mining

industry after Inco transferred him to the province in 1956. Bruce was involved with exploration work in northern Manitoba in a region which later became the productive Thompson Mine.

One of the more interesting Manitoba areas he worked was in the primitive, remote region around Moak Lake, where he would spend as much as six months at a stretch. Unfortunately, those efforts never did result in a productive mine being established.

Bruce spent several years doing exploration work in widely varied regions, including the Northwest Territory area which later became designated as the territory of Nunavut. Bruce’s son Peter relates an interesting experience when Bruce was flying with a companion and the plane was damaged during takeoff from an uninhabited lake area near the village of Rankin Inlet in present-day Nunavut. Bruce and his companion considered



WILLIAM BRUCE DUNLOP MAPPING AT JOGGINS, NOVA SCOTIA FOR THE GEOLOGICAL SURVEY OF CANADA 1950.

attempting to land the plane near Rankin Inlet but finally made the decision to fly on to Churchill where better rescue facilities were available and they ultimately landed safely. Such are the hazards of the wilderness geologic exploration activities that Bruce spent many years engaged in.

In 1964, the firm of W. Bruce Dunlop Ltd. was formed in The Pas, Manitoba, offering an array of consultation services for geologic and geophysical surveys, handling clients in Ontario, the western provinces and the Arctic regions.

Bruce later opened an office in the provincial capital of Winnipeg and built a quality reputation as a mining expert. In fact, he was cited during a controversial debate in the Manitoba legislature regarding the closing of a Mining Recording Office in The Pas which had been in existence since 1930. A proposition was put forward in the legislature to consolidate the branch’s operations with Flin Flon and close The Pas site. Bruce was cited as an expert regarding the area’s mining



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BRUCE & PETER DUNLOP RUNNING DRILL PROGRAM REED LAKE SPRING 1994.



BRUCE DUNLOP AT A CLAIM POST OF CB9389.



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activities and spoke strongly in favour of maintaining the office. MLA Jim Penner of Steinbach read Bruce's opinion of the closing into the Manitoba legislature's "Hansard" record in June 2002, where he also noted, "...W. Bruce Dunlop has made many contributions to Manitoba mining, up to and including that ultimate creator of new wealth for all society to share in..."

During his career, Bruce has been instrumental in the development of several projects, the most important

being the "New Britannia Mine" at Snow Lake. To say he was highly regarded within the mining industry would be an understatement. Bruce is a Past President of CIM in Winnipeg and for many years was the Regional Representative for the Prospectors and Developers Association of Canada (PDAC). During the 2001 annual PDAC convention, he and colleague Duncan Crone were awarded the "Distinguished Service Award". His citation reads: "Bruce Dunlop's distinguished service

award recognizes his championing of the interests of Canadian prospectors and the outstanding work he has done on their behalf. The award is a tribute to the tireless efforts he has expended and the battles he has fought for the exploration industry in Manitoba and for a lifetime of loyalty, commitment and service to the PDAC."

According to Peter, Bruce has finally opted to at least semi-retire – although he still takes great interest in the entire realm of mining activities. ▣

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UPDATE ON MANITOBA'S ORPHANED AND ABANDONED MINE SITE REHABILITATION PROGRAM

By Caius Priscu, Ph.D, P.Eng, AMEC Environment and Infrastructure, Winnipeg, MB



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The Manitoba's Orphaned and Abandoned Mine Site Rehabilitation Program was established in 2000 in response to the Mine Closure Regulation adopted in 1999. The program received C\$2 million initial funding to address safety issues and identify environmental concerns at five pre-established high priority sites in Manitoba: Lynn Lake, Sherridon, Gods Lake, Snow Lake and Baker Patton. Subsequently, the Mines Branch has identified 148 inactive (orphaned and abandoned) mine sites, for which ownership has been reverted back to the Crown, as former mining companies no longer exist or do not have the financial capacity to carry out rehabilitation work.

A challenging program was initiated by the Mines Branch in 2001-2002 to identify location, ownership, previous inspections, availability of historical documents and site conditions. In dealing with such a large number of mine sites, it was necessary that a priority-based rehabilitation program was necessary. A hazard-based framework model was developed from 2005 to 2007 to rank the sites and prioritize work. As a result of the 2005 provincial audit on contaminated sites, Manitoba established an Environmental Liability Account for costs associated with rehabilitation of the five high-priority mine sites (Lynn Lake, Sherridon, Gods Lake, Snow Lake and Baker Patton) and all additional orphaned and abandoned mine sites that were subsequently identified. This account is presently at more than C\$200 million. An aggressive schedule was developed to remediate these high-priority and high-hazard sites by the end of 2012, and various consultants were retained to undertake the work within this tight schedule.

AMEC was at the forefront, and has championed, the establishment of a priority system to rehabilitate the 148 inactive mine sites, based on a hazard-based ranking system. In dealing with such a large number of mine sites as part of the Orphaned and Abandoned Mine Sites Program (OAMS), it was necessary that a priority-based rehabilitation program be established. A hazard-based framework model was developed, to rank the sites and prioritize work, around the principle of developing a tool that would be simple, easy to use and update, and which would encompass the all relevant characteristics of the Manitoba sites. This tool helped evaluate all Crown-owned inactive mine sites in a consistent way, eliminating biased rehabilitation decisions as much as practically possible.

The model was developed around a ranking methodology that included a total of ten criteria grouped under two major categories: (1) public safety, and (2) human health and environmental impacts. Each criterion needed a well

defined evaluation structure and scale, which were common for all the sites in order to maintain consistency in the evaluations, and ultimately provide a ranking of the Manitoba sites. As a result of the evaluations, of the 148 sites reviewed:

- Only five sites were observed to have major or extensive negative environmental or ecological impacts. The remaining sites have rather small footprints, with no tailings dams or water retention structures at these sites, and it appears that there are no major structures with an imminent catastrophic consequence to the public safety or the environment;
- Public safety was confirmed as being a top priority for selecting the sites that need closure and rehabilitation. Most high-hazard-rated sites have open shafts, adits and trenches that pose a threat to public safety and increased liability for the Province;
- A total of 31 high-hazard sites were identified and were recommended for immediate action for their



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rehabilitation; in addition, a total of 53 moderate-hazard rated sites were also identified, with the remainder being of low-hazard level.

The hazard-based model approach prepared by AMEC is currently in use by the Manitoba Mines Branch. An aggressive schedule was developed to remediate these high-priority and high-hazard sites by 2012, and consultants were retained to undertake this work within this tight schedule.

To date, AMEC, in close collaboration with the Province of Manitoba and various

retained contractors, has completed or is in the process of completing site remediation at each of the 31 high-hazard sites. Rehabilitation work is in various stages of construction with the bulk of the remedial efforts completed before the end of 2012. Some additional re-vegetation work will be completed in the Spring of 2013.

The Province has now allocated funding for the rehabilitation of OAMS within the Whiteshell Provincial Park. AMEC has initiated assessment and rehabilitation design, with construction scheduled for 2013.

The hazard-based prioritization of small to medium-size orphaned and abandoned mine sites provided a consistent and structured approach to the rehabilitation program. It also allowed the Province to focus its efforts and prioritize resources and public funding to the mine site reclamation projects that needed it the most, the more critical sites that posed the largest liability. Sites attributed a high-hazard rating were prioritized and rehabilitation was immediately started in 2007 to minimize liabilities and reduce hazards to the public and the environment.

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ON THE PATH TO SUCCESS – MOSS LINE CUTTING HITS THE GROUND RUNNING

Moss Line Cutting is a northern Manitoba company located in the town of Cranberry Portage. Based in the mineral rich Greenstone belt, "Moss" finds itself on the doorstep of many exploration companies' projects. From Flin Flon to Thompson to Lynn Lake, owner Todd McCracken and his crews consider northern Manitoba their backyard. Over the past three years demand has been growing for the services Moss provides and they have found themselves expanding into northern Ontario's "Ring of Fire", northern Saskatchewan and southeastern Manitoba.

Providing professional claim staking and exploration line cutting to the mining industry, this company is self-sufficient from start to finish. Given a project's GPS location, they will take care of all the logistics involved – from claim layout, access into remote locations, helicopter support, tent camps to snowmobiles and man power. They are typically the first to hit the ground on new projects and pride themselves on doing things efficiently.

The company's birth in 2008 followed nearly a decade of claim staking and line cutting by owner Todd McCracken and his then partner and still good friend Barry Jahn. The two-man partnership provided McCracken with a wealth of knowledge that Mr. Jahn possessed and was willing to share. With a small but strong client base and good reputations, Jahn was at a point in life where he was ready to back away just a little, and McCracken was poising himself for a future in exploration bush work. After hiring and training a few men and servicing the companies they had previously worked for, things started growing. New mining exploration companies were moving into the province and the need for larger crews became evident. To effectively handle

larger grids to cut and more claims to stake, McCracken was able to bring several experienced linecutters on board, giving Moss Line Cutting the ability to handle any size exploration job a mining company would offer. Todd credits and thanks Barry Jahn for all he shared, knowing that without that knowledge his company would not be where it is today. "There is so much old-school thinking and wit needed to be successful and productive in the bush; they can't teach the physical and mental endurance to work in such harsh conditions in school."

What does the future look like? When it comes to exploration, who truly knows? But looking at the past few years and what is currently developing, things are very positive in the Moss camp. Things may move up and down in the mining industry but the services provided by McCracken's crews are the very grass roots basis for exploration, even on the smallest scale. "I have been sitting having coffee in the morning after a job with no work lined up for the men and by noon I am thinking I may have to hire more. Things happen quickly in exploration – and that is what makes it exciting." As things change, such as going to paper staking, so does the thinking of the company. There will always be a need for experienced, knowledgeable bush workers. Whether it's line cutting, staking, sampling, breaking trails or setting up remote camps, mining companies will always need men on the ground to find minerals, and Moss Line Cutting Inc. enjoys being a small part of their success.

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Perhaps of even greater note is that Mega's low burn rate continues to convert mineralized targets, expanding the company's regional footprint. This not only significantly accelerates growth but delivers sustained shareholder value as well, expected to build considerably over the next 12-18 months. The combined experience of the company's board, management, and technical teams further en-

hances this value, with backgrounds and proven execution experience in developing advanced stage projects that are highly attractive to larger mining companies.

Mega's 100 per cent-owned Monument Bay property is both the company's most advanced project and one of the top most active exploration projects in the region, with over 140,000 metres of drilling completed since 2000. Located 570 kilometres northeast of Winnipeg and 340 kilometres southeast of Thompson, Manitoba, Monument Bay has developed at a steady clip over the past year, building a considerable regional potential.

The project has been significantly de-risked over the years through historical work conducted by Amax, Noranda, Wolfden, Bema and Rolling Rock. Mega has outlined greater than 2.8 million ounces within a four-kilometre footprint out of the total 318 square-kilometre land package.

In late 2011, Mega partnered with the University of Manitoba, together outlining a structural geological framework that outlines the key mineralization controls both at a macro and micro scale. This combined effort determined numerous mineralized zones across the property. Mineralization is shown to start at surface, is repetitious, and has long extensions within multiple structural corridors that are open along strike and depth. Each mineralized zone has a strong correlation of economic gold mineralization with tungsten. The repetitious nature of this mineralization has converted initial waste areas to economic mineralization which deepens and widens open pit mineralization, augmenting the value and potential of the project as a whole.

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core, has added significant ounces to the resource base, improving the conversion rate of mineralized targets by 500% and reducing "wait time" for assay results by four to six weeks due to the addition of an onsite lab. The determined combination of geological, structural and geochemical controls created a geological model that closely resembles the Hollinger Mine in Timmins, Ontario, which has produced more than 19 million ounces.

The company's advancements at Monument Bay over the past 18 months have been swift and significant, marked first by the announcement of a 47 per cent increase in gold resources at the project in June 2011. Early and ongoing work indicated positive economics not only for underground mining operations but for open pit mining as well, with multiple open-pit regional potential. The company anticipates a targeted production model of over 300,000 ounces per year from open pits and underground mining, emphasizing Monument Bay's position as an impending key player in the region.

Regional exploration has been critical in developing the project into a potentially substantial gold camp, with two new parallel mineralized zones encountered in the footwall of the current resources during 2011 exploration. The first of these zones, located approximately 80 metres in the footwall of the Burn Zone

and open along strike and dip, returned drill intersections including 4.43 g/t gold over 7.0 metres and 1.84 g/t gold over 1.0 metres. Mapping and rock chip sampling of the AZ zone, located approximately 600 metres in the footwall of the Twin Lake Shear zone, suggested strong potential for additional high-grade gold vein and bulk disseminated gold mineralization.

An updated calculation of mineral resources released in February 2012 further built upon this position, reporting 1.05 million ounces Measured and Indicated at a grade of 2.5 g/t and 1.73 million Inferred ounces at a grade of 3.78 g/t. Representing the second substantial increase in the overall Monument Bay resource in less than a year, this estimate was followed closely by ongoing exploration programs aimed at further expanding and optimizing the project by targeting plunging high-grade trends, drilling gaps, and filling in assay gaps by assaying previously un-sampled material between veins from available drill core.

A 2012 winter step-out drill program comprised 30 holes totaling 9,162 metres, successfully expanding current near-surface open-pit mineralization and outlining a new satellite gold deposit within 2.2 kilometres of the current resource. Notable intersections include 26.0 metres at 1.60 g/t gold within the Burn zone and 6.0 metres at 1.70 g/t gold in the newly delineated Mid East zone. Over 25 near-surface targets with enriched gold/tungsten anomalies were outlined, the conversion of which is expected to substantially increase overall resource inventory and potentially prolong mine life. Multiple holes intersected significant gold mineralization directly below the current open pit, each returning higher grades that were estimated for the current block model for the given area. Drilling on eastern zones outside of the existing pit-resource boundary intersected broad mineralization and remain open at depth.

CURRENT GOLD RESOURCES				
Project	Tonnes (000)	Grade g/t	Au Outcrop	Category
Monument Bay (Open Pit & Underground)	1,428	3.3	143,785	Measured
	11,561	2.43	902,225	Indicated
	12,990	2.60	1,046,010	M + I
	14,221	3.78	1,726,674	Inferred
North Madsen (Red Lake)	19,638	1.27	803,886	Measured
	3,838	1.68	133,281	Indicated
	23,476	1.24	837,167	M + I
	11,480	1.03	370,026	Inferred
Headway (Red Lake)	Deep High-grade Target in Hanging wall of Red Lake Gold Mines			
Satterly (Red Lake)	Early Stage Project Evaluation and Target Development (Adjacent GCU Discovery)			

FIGURE 1: NI 43-101 COMPLIANT RESOURCES

At the Mid East Zone, drilling expanded mineralization 200 metres to the east and intersected multiple near-surface vertical zones open to the east and south, where gold/tungsten soil anomalies have been identified. This target, coupled with open pit expansion, underscores Monument Bay's capacity for additional gold mineralization beyond the current resource boundary.

Notably, all of the current mineralization in the open pit resource has a strong proximal correlation between tungsten (scheelite) and gold mineralization, a quality shared by many of the largest Archean gold camps (comprising more than 10 million ounces). The satellite gold mineralization at Monument Bay is also enriched with scheelite, combining to support the strong potential for a large gold system and major new gold camp. Patterns determined by Mega's exploration programs could contribute to a multi-deposit, centralized mill-type production model.

Government-initiated key infrastructure continues to develop in the Monument Bay area, including upgradeable power lines and a regionally low electricity rate. Further, Mega's emphasis on building and sustaining value was highlighted by cash-preservation measures during the rougher markets of Summer 2012, assuring that capital was channeled into focused field work.

MAXIMUM OPTIMIZATION FOR INCREASED SHAREHOLDER VALUE

In addition to its most advanced project, Monument Bay Gold Camp, Mega also has projects in the Red Lake Gold Camp and a copper project in Nunavut. Mega remains considerably undervalued given its project portfolio and resource inventory, creating substantial opportunity as the company moves forward with focused, results-driven, cost-effective exploration and development.

The company trades on the TSX Venture Exchange under the symbol MGP. □



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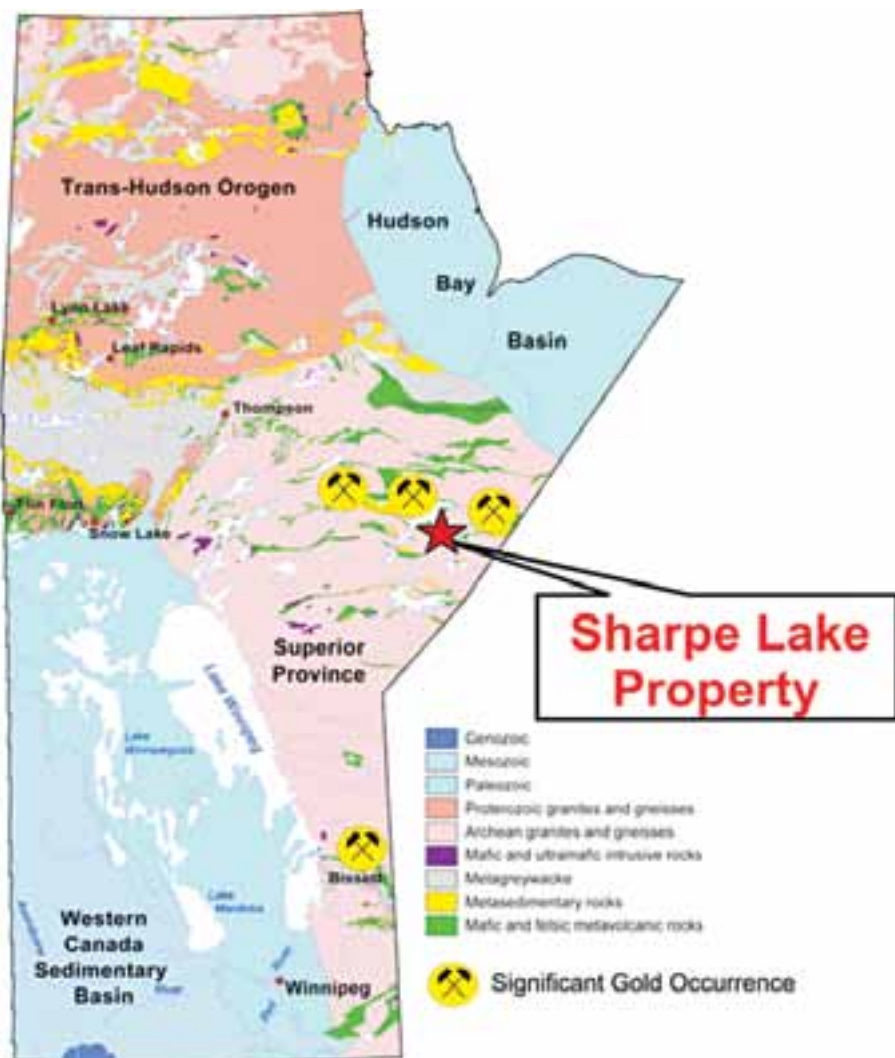
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SHARPE LAKE GOLD PROJECT



The 5,000-hectare Sharpe Lake Gold project is located 550 kilometres northeast of Winnipeg, Manitoba. The project is centred on a portion of the east-west trending Stull Lake-Wunnummin Fault Zone (SWFZ). The SWFZ is a major, first-order Deformation Zone that is host to several important gold deposits, including the Monument Bay Gold Zones which is located 30 kilometres east of Sharpe Lake.

The property is underlain by volcanic rocks of the Archean Superior Province. The Superior Province is the largest and most prolific gold producing Archean craton in the world and extends from northeast Quebec to northeast Manitoba. The Sharpe Lake property represents one of the few remaining gold-bearing greenstone belts in the Superior Province, which has never been drill tested.

The geologic setting at Sharpe Lake resembles other gold districts in the Superior Province. For example, the SWFZ is considered to be similar in style to the prolific Destor-Porcupine Fault Zone, which is host to the 60-million-ounce Timmins District.

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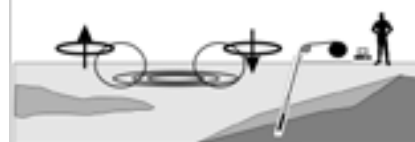
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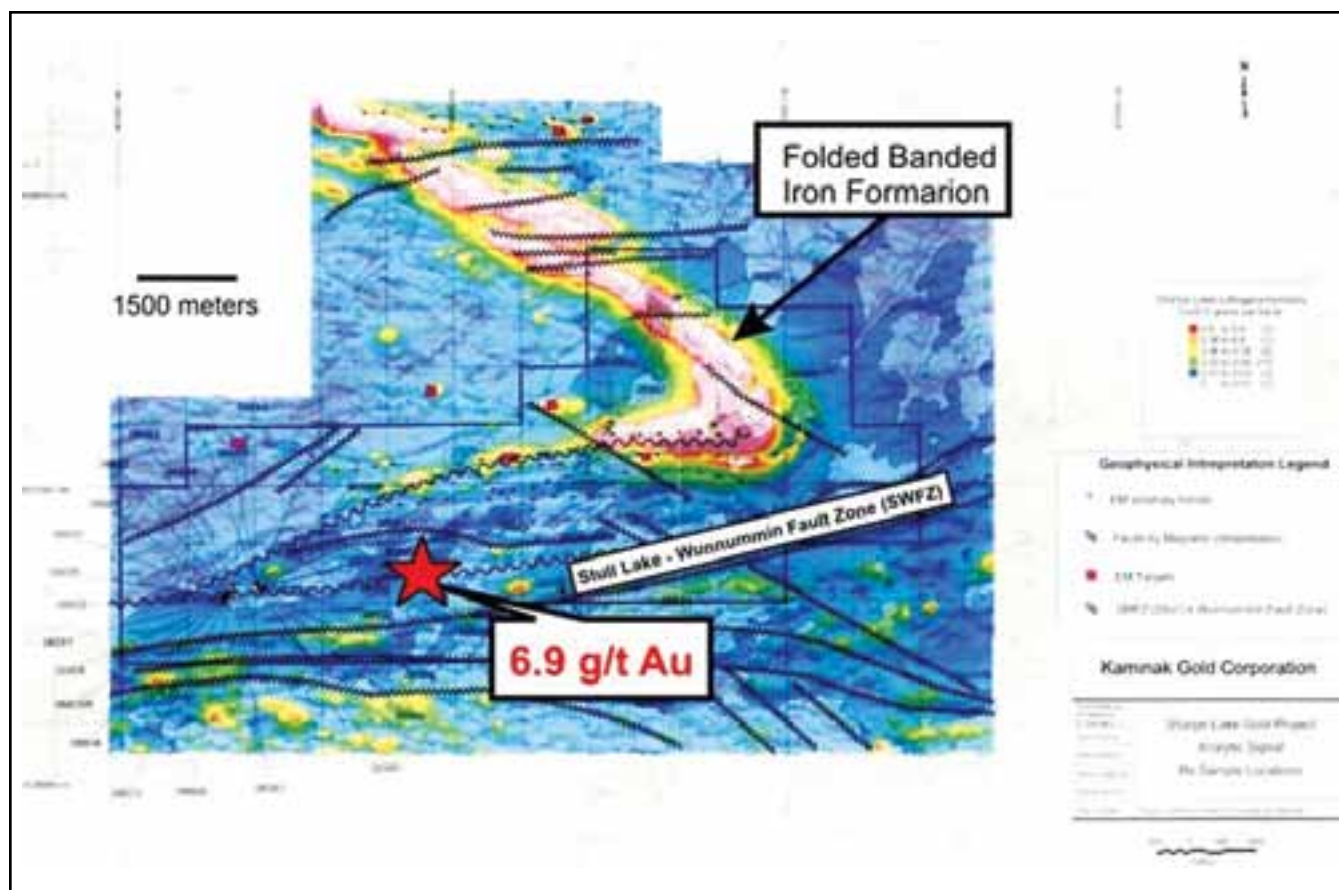


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Also, large and pervasive altered zones associated with these fault zones have been identified at Sharpe Lake.

Minor previous work at Sharpe Lake consisted of an airborne Magnetic/Electromagnetic survey and some ground prospecting and geochemistry. The airborne survey helped map the extent of the SWFZ and preliminary prospecting of very limited rock exposure revealed grab samples up to 6.9 g/t Au along the trace of the fault zone. The airborne survey also helped identify a prominent geophysical feature interpreted as a sequence of folded, conductive, banded iron formation, which appears to have many similarities to the nearby producing Musselwhite Mine (>1.5 million ounces).

The property can be brought very quickly to the drill-ready stage by refining existing airborne geophysical targets

and surface geochemical anomalies with follow-up ground geophysics. Drilling can be carried out very efficiently by taking advantage of winter access roads.

MONUMENT BAY GOLD DEPOSIT

Mega Precious Metals Inc. (just east of Sharpe Lake)
2.4 million tonnes @ 7.6 g/t Au (inferred 6.1 mill t @ 6.01 g/t)
(mine feasibility currently underway)

A Joint Venture partner is being sought for the Sharpe Lake gold property.

For more information please contact:

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BISSETT MINING - EMERGING INTO AN EXCITING FUTURE

By Leonard Melman

During the past year, we had occasion to write in *Manitoba Mining Review* about mining development in southeastern Manitoba, most particularly including the Rice Lake Mining Camp centered on the town of Bissett. The occasion at hand was the 100th anniversary of mining in the Bissett area, which necessitated that we take a thorough look backward in time. On this occasion, we will focus on current mining action and take a look into the future of this most fascinating region.

However, in order to properly set the stage for the present and future, it's important to take a brief look at Bissett's mining history. As noted, initial discoveries were made in region about one century ago and a burst of

productive activity took place from 1922 to 1951, including a dozen mines which had production ranging from just a few ounces to well over 100,000 ounces.

At the end of that period, only one mine remained in production, the San Antonio Rice lake Mine, and that property remains the most important single resource in the camp to this date. Initial production continued from 1932 to 1968 before longer-term production resumed under present owner San Gold in 2006.

Looking forward, exploration and development continues at a high level in the general southeastern Manitoba area, given the location of Rice Lake within the Canadian Shield Greenstone, host to many of Canada's major mining

operations. The Superior Province lies within the "Shield" and a sub-province within Superior is the Uchi Trend. Geologically, the entire region between Lake Winnipeg on the west and James Bay in the east contains a series of Archaen Greenstone, including famed mining regions such as Red Lake, Confederation Lake and Pickle Lake.

Given the level of renown in some of those regions, many geologists regard the Rice Lake Camp as relatively under-explored and, therefore, they believe it could be open for major future discoveries. While such discoveries would indeed be most exciting, San Gold, the Rice Lake Camp's major operator, has been working diligently over the past six years with two goals in



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mind: to expand resources at the site of the San Antonio Mine itself and discover new resources in the area with the present goal of annual gold production in a range of 95,000 to 105,000 ounces per year according to San Gold's 2012 guidance statement. The company also noted that by the end of June 2012 they had already completed 62,000 metres of exploration drilling within the Rice lake Greenstone Belt.

Looking forward, San Gold's goals include demonstrating the potential for the expansion of existing mineralized zones and the discovery of new zones. In the former category, among other goals the company will focus on definition and extension drilling in the San Antonio Mining Unit and in the latter category, San Gold's objective is to conduct exploration work in order to develop a larger mining complex which can be exploited through existing infrastructure.

During the past several years San Gold has published NI 43-101 Resource

Estimates for five different mining zones including the Rice Lake Mine, Hinge District, 007 Deposit, Hanging Wall Deposits (Cohiba, Cartwright, L13) and Normandy Shear (SG-1, SG-2, SG3).

Total Indicated resources for the five combined zones totals 2,395,000 tons grading 0.23 ounces per ton (opt) Au and containing 562,000 ounces plus Inferred resources of 15,402,000 tons grading 0.23 opt Au and containing 3,497,000 tons.

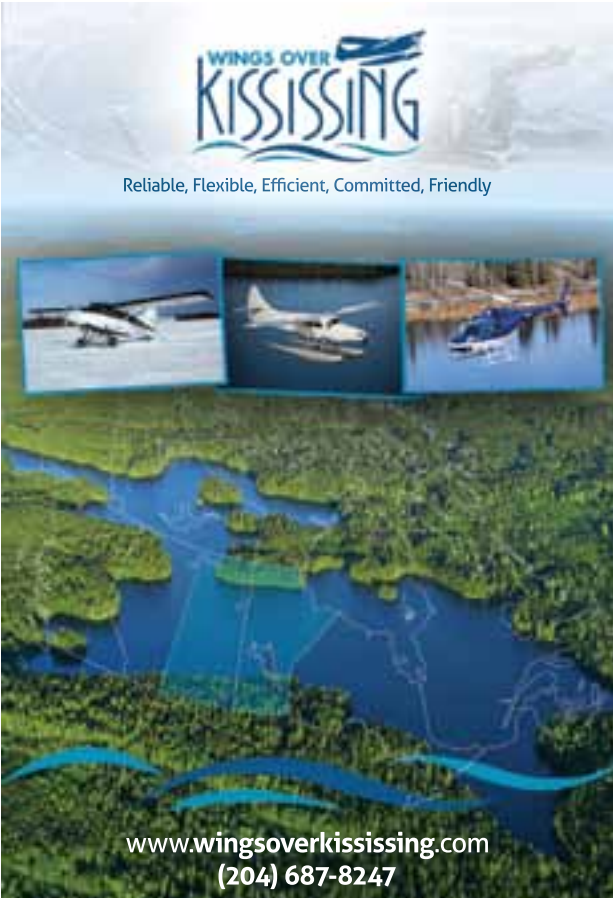
Total Proven and Probable reserves for the four zones excluding Normandy amount to 1,191,000 tons grading 0.18 opt Au and containing 209,000 ounces.

Other companies currently active in southeastern Manitoba would include Mustang Minerals Corp. with two southeastern Manitoba projects. The company has just resumed a minimum 2,000-metre drill program at their Mayville M2 copper-nickel deposit while also working to advance their other Manitoba holding, the Makwa nickel-copper property, where recent samples

have been sent to Australia for advanced metallurgical studies.

Strikepoint Gold has recently concluded a winter/spring 2012 drill program at their Angelina Project, located approximately 30 kilometres southeast of the San Antonio Mine. It covered eight holes over 1,005 metres and the company continues to investigate alternative targeting methods for a future exploration program at Angelina.

In addition, Bison Gold Resources is in the process of releasing drill results from a recent program conducted at their "Central Manitoba Project", also located in the Rice Lake Camp region. With many monetary analysts forecasting a coming major bull market for the precious metals, it appears likely that the search for quality gold resources will accelerate into the future - and based on sound geology and a welcoming regulatory environment, Manitoba's Bissett area should see more than its share of such activities. □



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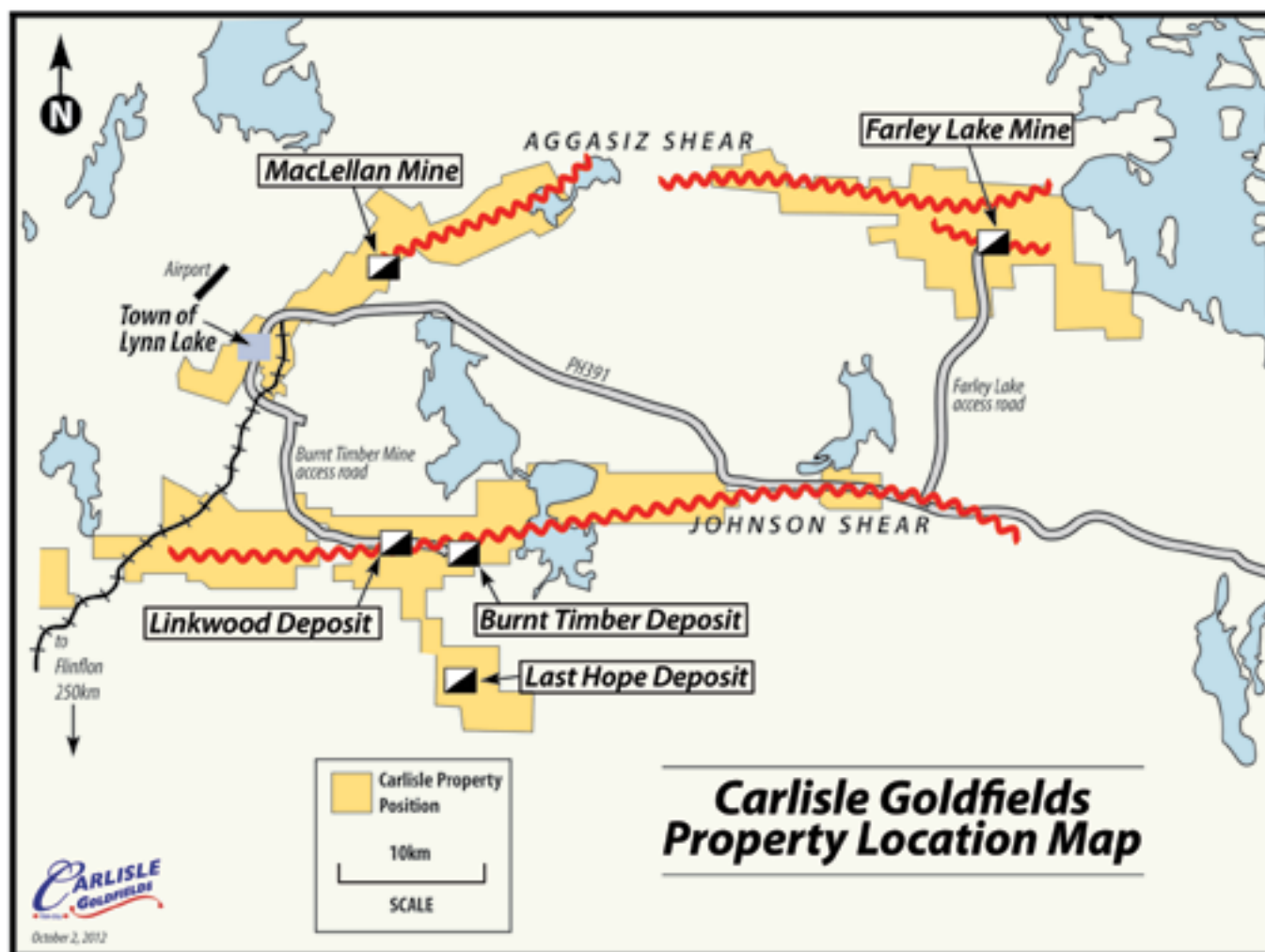
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CARLISLE GOLDFIELDS – A GOLD MINING CAMP IN THE MAKING



Carlisle Goldfields has a 100% interest in 20,000 hectares of Greenstone Belt in Lynn Lake Manitoba, which hosts at least 29 historically identified gold showings including three former gold producers. The company is currently working on five deposits within this land package: MacLellan, Burnt Timber, Linkwood, Last Hope and Farley Lake. Carlisle is targeting a 4- to 5-million-ounce-compliant gold resource by the end of December 2012 and over six million ounces by end of Q1 2013.

The land surrounding the past-producing MacLellan Mine – which produced 144,000 ounces of gold between 1986 and 1989 – has been the initial focus within Carlisle's property package. A NI-43-101 compliant resource

on MacLellan was released in March 2012 citing 2.2 million ounces of gold with an average grade of 1.9 g/t gold equivalent. Over 1.7 million ounces of the total resource are in the measured and indicated category, located in a potential open pit.

Carlisle's second target in 2012 was directed toward the Burnt Timber property, where a September 2012 resource estimate reported 826,000 ounces of gold at an average grade of 1.05 g/t. Historically, Burnt Timber produced approximately 78,000 ounces of gold at a grade of 2.8 g/t from an open pit in 1998.

The combination of the MacLellan and Burnt Timber initial resource estimates leaves Carlisle currently

with an approximate 3-million-ounce-compliant gold resource base.

With a goal of growing its resources, the company completed over 70,000 metres of expansion drilling in 2012. This drilling will allow Carlisle to produce three additional resource estimates between Q4, 2012 and end of Q1, 2013.

The first of the three additional resource estimates will come from the Linkwood Deposit and is expected in early Q4 of 2012. This will be followed by the Last Hope Resource in the latter part of Q4, 2012 and a resource update on the Farley Lake property, expected to be released toward the end of Q1, 2013.

The Linkwood Project, located four kilometres west of the Burnt Timber

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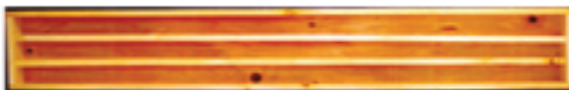
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property, is a completely new discovery made in the fall of 2011. After initially using a geophysical survey to identify the target, Carlisle completed a total of 25 drill holes in 2011 and 2012. Positive results have been returned from the assaying, including hole number 7 showing 18 metres grading 3.34 g/t Au and 3.57 g/t Ag. This information was press released by the company on September 19, 2012.

The Last Hope Project, located approximately eight kilometres south, had a historical resource prepared in 1992 which was estimated at 888,000 tonnes of 9.4g/t for 270,000 ounces of gold. The majority of the historic drill core is intact, and a number of strategic holes have been re-assayed and then used in the preparation of the forthcoming resource estimate. A September 12, 2012 press release reported on nine holes, including hole number 11, which intersected 6.5 metres grading 8.1 g/t Au.

The combination of the Linkwood and Last Hope resource estimates,

coupled with the company's current resource, are predicted to provide a compliant resource in the range of 4 to 5 million ounces of gold by the end of 2012.

The last of the three new resource estimates will come from the company's Farley Lake Project. Farley produced approximately 210,000 ounces of gold at average grades of 4.2 g/t from an open pit from 1997 to 1999. A non-43-101 compliant historical resource of 290,000 ounces of gold grading 7g/t was completed in the 1980s. Carlisle drilled an initial three holes during the summer of 2012. A press release dated October 3, 2012 highlights hole number 2 with a 10-metre-long intersection grading 5.9 g/t Au. The NI-43-101-compliant resource report for the Farley Lake Deposit is expected towards the end of Q1, 2013.

Carlisle is of the opinion that with the addition of the Farley resource estimate the company will be able to boast a global resource of over 6 million ounces of gold.

These impressive resources are highly complimented by an accommodating infrastructure. The Town of Lynn Lake is a full-service mining town, with schools, a hospital, three restaurants, two hotels, paved roads and internet. A commercial airport with a 5,000 foot runway is within two kilometres of the town. There is a functioning railroad into the town. The MacLellan site is within 10 kilometres of Lynn Lake with good paved and gravel road access. Grid power at \$0.03/kwh is the lowest in the country with a direct power line to the site. A head frame is in place along with a hoist house and shaft to 448 metres with five developed levels, a core shack, a vent raise and mine-water settling ponds. The low-lying topography of the land package, with the likelihood of future open pit mining, will not impact local lakes and suggests that the permitting risk for the project is quite low.

As the company moves forward it has engaged Tetra Tech (Wardrop) to undertake a preliminary economic assessment with a completion date targeted for early Q2, 2013.

A memorandum of understanding with the Marcel Colomb First Nations Band has been signed and the working relationships are excellent. The two parties have committed to consult and maintain a cooperative relationship. In particular, the First Nation community agrees to recognize and respect Carlisle's right to develop the properties and the company in turn agrees to recognize and respect the community's Aboriginal Treaty rights in the area.

With a forecasted 6-million-plus ounce resource in early 2013, significant infrastructure and an excellent First Nations relationship, all within a mining-friendly jurisdiction, Carlisle Goldfields should be on everyone's radar screen.

This company is energetic, dedicated and with all the tools to make its Lynn Lake land package into a successful world-class gold mining camp. □

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SAN GOLD: A DREAM COMES OF AGE



PHOTO CREDIT: SCOTT MCPHERSON

The story behind Manitoba's only operating gold mine is a really a story of two people who had the wisdom and fortitude to pursue an opportunity when others were walking away.

Today that opportunity has attracted more than \$300 million in new investment, employs approximately 600 employees and contractors, and sits poised at the heart of one of Canada's most prospective and underexplored Archean greenstone belts.

San Gold was founded in 2004 by Dale Ginn and Hugh Wynne, who picked up the pieces after South African-based Harmony Gold decided to close its Bissett operations. At the time, Ginn was the company's head of Harmony's Canadian operations while Wynne, a long-time drilling contractor, had extensive mineral claims in the region. Together they overhauled the property, transforming it from a struggling producer into an aggressive exploration company with a unique land position at the heart of an emerging gold belt.

Since then, San Gold has experienced considerable exploration success. By 2009, the company had already

discovered Manitoba's largest single gold zone – known as the 007 deposit – and soon after realized that this deposit was part of a larger mining trend known as the Shoreline Basalt.

"We always knew there was a lot more to find here. We just never had the opportunity to execute a proper drill program until we were able to take control of the property ourselves," says Ginn, who lives in Kenora and continues to maintain a home in Bissett. Ginn is currently Vice Chair of the company after spending about six years as its president and CEO. Wynne has remained Executive Chairman since the company was formed and has lived in Bissett all his life.

San Gold continues to drill aggressively across the region, testing the numerous additional potential trends that have already been identified within the company's claims area. The company anticipates continued success as this program improves its understanding of the region's geologic structure.

San Gold recently increased its milling capacity from 1,250 to 2,500

tons per day, producing almost 75,000 ounces of gold in 2011. In 2012, San Gold is well underway to achieving another large increase in production which in turn is expected to reduce its total cash cost per ounce. Global economic conditions appear to support strong ongoing gold prices, leaving San Gold well-positioned to produce healthy margins well into the foreseeable future.

"It really is rewarding to believe in something so strongly, and after seven years of perseverance to see that dream become reality," says Ginn.

Production currently takes place from three distinct mining regions: the 007 deposit, the Hinge district and the Rice Lake mine. The bulk of the company's ore is mined from the 007 deposit, which continues to be developed quickly from the company's ramp portal. The Hinge district is comprised of a collection of lenses accessed from the same portal as the 007 deposit and is also experiencing rapid development from surface. In the Rice Lake mine, the company is using the extensive infrastructure built up



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San Gold recently increased its milling capacity from 1,250 to 2,500 tons per day, producing almost 75,000 ounces of gold in 2011.

over the past 80 years to develop the 007 deposit and Hinge district at depths of 720 and 1,200 metres below surface. This development will vastly increase the ore potential of the Rice Lake shaft and dramatically increase the overall production potential of the Rice Lake Mining Complex.

Gold mining first occurred at the Rice Lake Mining Complex in 1931. Today, the deepest workings reach about 1,600 metres below surface. While the bulk of San Gold's recent production increases have occurred near surface from zones accessed through the Hinge/007 portal, the company believes that the structural

nature of these deposits means that many will extend well below the project's deepest workings.

The Rice Lake Mining Complex is a three-hour drive from Winnipeg, is connected to the Manitoba power grid system by two transmission lines and has telephone and high-speed

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PHOTO CREDIT JAYME GORDON.

internet service. It is located about 35 kilometres from the Ontario border, within the same geologic sub-province as the prolific Red Lake gold camp, which is located another 65 kilometres to the east. San Gold currently owns or

has joint-venture agreements on 392 square kilometres of claims located in the heart of the Rice Lake greenstone belt, features modern surface infrastructure including a licensed tailings management facility. The

company is committed to the highest standards of safety and environmental stewardship and is on the Toronto Stock Exchange under the symbol "SGR" and on the OTCQX under the symbol "SGRCF". □

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CENTREPORT CANADA OFFERS UNIQUE ADVANTAGES

By Diane Gray, president and CEO of CentrePort Canada Inc.



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THE DEVELOPMENT OF MANITOBA'S INLAND PORT INCLUDES THE CONSTRUCTION OF A \$212.4 MILLION DIVIDED EXPRESSWAY, CENTREPORT CANADA WAY (CCW), THE LARGEST HIGHWAY CAPITAL PROJECT IN THE HISTORY OF THE PROVINCE.

A tour around CentrePort Canada's 20,000-acre footprint reveals that there is a whole lot of building and bulldozing going on.

Backhoes and building cranes dot the horizon as work continues full-steam ahead on CentrePort Canada Way, the new high-speed expressway that is now more than 70 per cent complete. The \$212.4-million highway, funded by the governments of Canada and Manitoba, will provide business with a better, faster connection to our national and international highway system while also opening up CentrePort lands for further development.

The new CentrePort expressway is a massive undertaking – the largest highway

capital project in Manitoba history – and is projected to save truckers and motorists as much as \$450 million over 25 years by reducing fuel costs, travel time and traffic accidents. Efficiencies created by the new highway are also expected to lower greenhouse gas emissions (GHGs) by 500,000 tonnes, decrease the number of accident fatalities, and reduce truck traffic on nearby feeder streets.

With the new CentrePort expressway taking shape, investor interest has been very strong in two adjacent industrial parks: Brookside Business Park (CBRE) and Brookside Industrial Park West (DTZ Barnicke). The two industrial parks have direct access to the new expressway and CentrePort has been joint marketing



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the land with global real estate partners CBRE and DTZ. To date, more than 120 acres have been sold to 23 different companies providing new and expanded operations in the areas of manufacturing, warehousing, transportation and logistics.

These early developments at CentrePort underscore its unique advantages in a province whose economy depends heavily on transportation and trade. CentrePort is the only inland port in the country that provides business with access to tri-modal transportation (truck, rail and air cargo) as well as single-window access to foreign trade zone benefits such as sales tax and duty deferrals and custom-bonded warehouse status.



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Plans are also underway to develop a common-use rail facility within the CentrePort footprint to increase rail options for business. CentrePort is uniquely connected to three continental, Class I railways (Canadian National, Canadian Pacific and Burlington Northern Santa Fe), is a major international trucking hub, and is home to Winnipeg's James Armstrong Richardson International Airport, a 24/7 operation and one of the country's top cargo airports.

CentrePort is also partnering with a number of companies, including

CN, on a railway containerization and cargo security project which involves using radio frequency identification technology (RFID) to safeguard and track cargo being shipped from Manitoba to China. The project was launched earlier this year with a shipment of Manitoba soybeans and the corporation is working with companies to add other products to the new supply platform that is now available to importers and exporters.

Located in the heart of North America, one-hour north of the Canada-United States border, CentrePort's strategic location puts it at the hub of key gateways and trade corridors heading in all directions – west to Asia and the Pacific Rim; south to the United States, Mexico and Latin America; east to Europe, the Middle East and India; and north to Canada's Arctic and over the pole to Europe, Russia and Asia.

CentrePort is already a natural staging area for increased trade to and from the Canadian north – including northern Manitoba, Nunavut and



DIANE GRAY.

north western Ontario's "Ring of Fire" region – however, there is a need to further improve trade routes and transportation infrastructure servicing these areas.

CentrePort is keenly aware of growing economic opportunities in the resource-rich north, including new investments in mining and other resource-based activities, and will continue to work in partnership with northern communities and businesses. □

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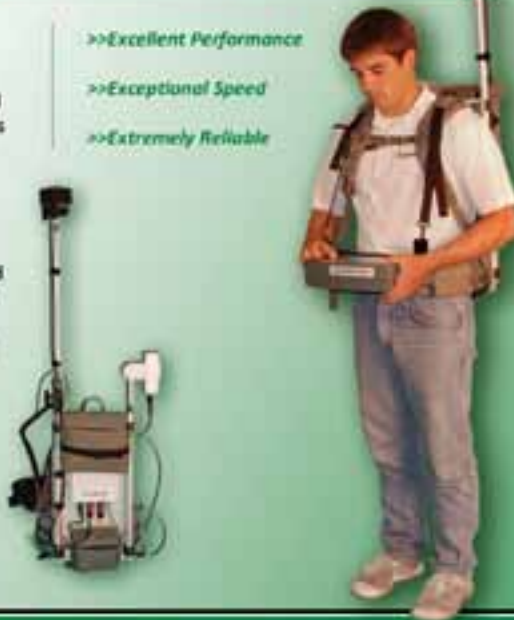
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OPPORTUNITIES ABOUND WITH THE 2012 MINERAL RESOURCES TRAINING PROGRAM

By Lyndon McLean



Building on its past success, the 2012 Mineral Resources Training Program, aimed at developing career awareness and employability training in the mineral sector, continues to prepare young northern and aboriginal people for careers in prospecting, exploration, mining, environmental sciences and conservation.

Established in 2009, the four-week program combines employability training with introductory work experience in an instructional atmosphere. Educational and industry leaders share their expertise in various areas, and direct work experience is gained through Resource Rangers programming, where students learn the importance of upgrading their education and gaining a post-secondary education.

The 2012 program saw 25 graduates participate in the training and work experience from July 14th to August 10th at two locations, Egg Lake Base (on Highway 10 between The Pas and Flin Flon) and the Liz Lake Base (37 kilometres south of Thompson). The field camp setting fostered close working relationships, and the program's structure gave students a taste of the working world, with the help of an experienced team.



VALUABLE SKILLS

The goal of the Mineral Resources Training Program is to provide an awareness of the mineral and mining sector through expert mentorship and practical experience. The comprehensive program provides trainees with a "tool kit" of essential marketable career skills: line cutting, flagging, chaining, prospecting, orienteering (GPS and compass), first aid, emergency firefighting, expediting, and brush saw, navigation, Drivers Education, camp set up, boat safety, claim staking, and more. The trainees plan and prepare in a various ways to pursue careers in the mineral resource natural resource industries common to northern Manitoba.

Along with increasing awareness of training in prospecting, geology, mineral exploration and mining and of employment opportunities available in the industry, the program aims to increase the number of northern and Aboriginal people employed in the minerals sector and advance the number of northern and Aboriginal people moving upward within the training ladder and/or work place. On a more personal level,

it encourages youth to develop personal goals and career aspirations through a commitment to the program and builds self-confidence, individuality and understanding through cross-cultural relationships with students from other northern communities. Trainees also learn the economic and social benefits their personal career growth can bring to their communities, all within a safe, friendly, supervised work environment.

AN EYE ON THE FUTURE

In 2012, the program focused solely on the mineral resource sector. Participants were chosen based on career goals, and training took place at two locations rather than one, as in previous years. A partnership with Frontier School Division provided high school credits for successful completion of the program, and Manitoba Public Insurance customized their Drivers Ed program to the program, with MPI instructors providing 32 hours of classroom material and 16 hours in-car training.

Trainees – sponsored by their Band or another organization – concentrated on the nine essential skills and acquired transferable skills in a number of mineral sector areas, and career development training aimed at preparing them to explore future studies and to be aware of job readiness requirements for industry. Students also engaged in a range of hands-on science-based training.

Four program “themes” provided a training framework: prospecting and mineral business, exploration, mining, milling, refining and smelting and reclamation and environmental sciences. Students also enjoyed meaningful cultural and cooperative components of program.

Fourteen of the 25 graduates expressed an interest in a career in the mineral sector, with the greatest interest being shown in geophysics and underground equipment operation. Trainees reported having gained new confidence through the training and work experience offered and have become empowered for the future. And as a direct result of the training, five trainees were offered employment.

The 2012 program involved government, the home communities of participating youth, and educational partners, including Frontier School Division, School Division of Mystery Lake, Northern Mining Academy and UCN. It also further developed positive partnerships between MKO and key industry

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employers, including Hudbay and Vale, both of which have been major supporters since the program started. Recently, Vale joined with MKO and committed to contributing \$25,000 for each of the next three years to support the program.

For industry, the program is very beneficial, as it fosters relationships with Aboriginal Youth and their communities and helps create a skilled workforce.

“This was an opportunity for Vale to increase our support to an already successful program, while working with long-time partners, dedicated organizations and passionate people,” says Ryan Land, Vale’s Manager of Corporate Affairs. “This year, the program was able to further raise awareness about the many opportunities in the resource sector, while expanding to Vale’s immediate region.”

According to Land, the program enhances the supply of highly skilled, highly talented workforce Vale needs to operate in a safe and sustainable fashion in the future, aligning nicely with the company’s Northern Employment Strategy. “It was encouraging to see the level of engagement and spirited energy demonstrated by Aboriginal youth from across our region—the future looks very bright.” □

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VALUABLE TRAINING AND RESEARCH UNDERWAY AT THE NORTHERN MANITOBA MINING ACADEMY

by Jim Scott, Director, Department of Communications, UCN

FLIN FLON REGIONAL CENTRE AND
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In June, 2009, University College of the North responded to a nationwide call for proposals for funding being made available through the federal government's Community Adjustment Fund. In partnership with the Northern Manitoba Sector Council, HudBay Minerals, City of Flin Flon, University

of Manitoba, and Province of Manitoba, UCN submitted a proposal for geoscience and wet lab equipment for a new entity to be known as the Northern Manitoba Mining Academy (NMMA), which would develop and deliver educational and training programming supporting Manitoba's mining sector, from exploration to final reclamation. As a result of this partnership, and through the generous contributions of HudBay Minerals, City of Flin Flon, Manitoba's provincial government, and the Canadian federal government, the NMMA is now functioning as a full-feature education and research centre situated in a region of intense mineral extraction activity in northern Manitoba.

With a mandate to provide access to mining-related training specifically for Northern Manitoba residents, and with the objective of creating a knowledgeable, skilled, and sustainable workforce, the NMMA develops and implements readily accessible strategic training initiatives for new hires, and skill



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enhancement for those currently employed. The NMMA also develops teaching, research and educational linkages with other institutions affiliated with mining and related disciplines such as environmental mitigation and remediation.

Construction (site preparation) of the NMMA building started in late 2009 and was substantially completed by the end of 2011. Occupancy took place in January 2012. Final equipment installation and commissioning followed as the ThoroughTec Cybermine underground mining simulator and other technical equipment were certified and launched.

Today, the NMMA is a fully functioning 3,500-square-foot facility housing a multi-purpose classroom, microscopy room, wet laboratory, mineral preparation laboratory and simulator room. The physical proximity of the NMMA to UCN's Flin Flon Regional Centre enables the NMMA and Regional Centre to function in an integrated fashion thereby providing the NMMA with access to additional classroom space while the Regional Centre has access to the laboratory facilities and equipment of the NMMA.

The NMMA is a board-governed institution with a Board of Directors established by the Vice-President, Academic, at UCN. Membership on the board consists of representatives of HudBay, Vale, UCN, Northern Manitoba Sector Council, Province of Manitoba, City of Flin Flon, University of Manitoba, Brandon University, University of Winnipeg, Red River College, and a variety of community stakeholders including the Regional Health Authority, Chamber of



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Commerce, Aboriginal Friendship Centre, Manitoba Metis Federation, Flin Flon School Division, and others. Envisioning themselves as much more than just an advisory committee, the Board of Directors has taken an active role in operationalizing the NMMA. The Board has been engaged in the acquisition of the Executive Director, establishing preliminary budgets, monitoring progress of the building construction and commissioning, and entertaining inquiries regarding the academy and its functions. They, like many others in the community, recognize the NMMA as a conduit to establishing Flin Flon as an acknowledged centre for high quality training and research related to mineral resources. □



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HUDBAY'S LALOR PROJECT: HUDBAY'S NEXT MAJOR UNDERGROUND MINE

By John Vincic



After the first hole was drilled at Lalor in 2007, few people would have predicted the Lalor project would begin first production a short five years later. Yet in August 2012, the Lalor project began

hoisting first ore up the ventilation shaft, a milestone that was on track from a plan Hudbay outlined two years earlier. In August 2010, Hudbay made a full commitment to the development of the

Lalor project by authorizing the \$560 million capital expenditure necessary to put the project into full production. The decision was based on the resource identified to that date and estimates of

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First Production Begins

The Lalor project is on track to become Hudbay's next major underground mine.



- > Lalor's development and site construction are proceeding on schedule. In August 2012, we marked first ore production at Lalor, and the project is now poised to reach early production of 1,200 tonnes per day using the ventilation shaft. The progress we have made at Lalor is truly remarkable considering the deposit was discovered only five years ago.

Hudbay is a Canadian base and precious metals producer with high-quality operations and a pipeline of exciting growth projects throughout the Americas.

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The construction of the new 4,500-tonne-per-day concentrator is expected to begin in early 2013 and is scheduled for completion in late 2014 to coincide with the completion of the production shaft.

potential grades and quantities of the gold zone and copper-gold zone, along with other available information such as cost estimates and portions of the engineering design.

After making a decision to proceed with construction at Lalor, Hudbay also began trade-off studies to determine whether to refurbish the existing Snow Lake concentrator or whether to construct a new concentrator at the mine site. Those studies, which were completed last year, supported an enhanced production rate of 4,500 tonnes per day made possible by the construction of a new concentrator and paste backfill plant.

The construction of the new 4,500-tonne-per-day concentrator is expected to begin in early 2013 and is scheduled for completion in late 2014 to coincide with the completion of the production shaft. The concentrator is expected to reduce operating costs and improve economies of scale and efficiencies – as opposed to upgrading the current snow Lake concentrator – and pave the way for other optimization opportunities including a precious metals circuit. Further production optimization from Lalor is expected as Hudbay explores the possibility of using more of the production shaft, which will have a total capacity of 6,000 tonnes per day.

The Lalor project is located in the Chisel Basin of the Flin Flon Greenstone Belt (FFGB), a prolific zinc-copper-gold region

in northern Manitoba where several other mines have been developed. Intense exploration has identified separate and distinct zinc, gold and copper-gold zones since Lalor was first discovered. Based on current data, Lalor is estimated to hold the second-largest metal deposit ever discovered in the FFGB.

Since Hudbay has operated in the FFGB for over 85 years, many often wonder how it is possible for Hudbay to make significant new discoveries in the region. The answer is Hudbay's extensive geophysics expertise. Geophysics has made tremendous technological in-roads over the past 20 years. The use of geophysics enables Hudbay to identify drilling targets as low as 800 metres below the surface of the Flin Flon Greenstone belt and was used to discover Lalor.

Lalor also has the strategic advantage of being only three kilometres from Hudbay's existing Chisel North mine. In 2011, Hudbay completed a three-kilometre underground ramp from the Chisel North mine to Lalor. Completion of the ramp was a major accomplishment because it allowed Hudbay to begin underground diamond drilling from the 810-metre level. This in turn helped delineate the first ore production zone in the base metal lens number 10. This drilling has helped confirm the location of the orebody, which allows for the development of the detailed mine plan and sequencing.

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And this underground drilling program at Lalor will continue going forward as Hudbay advances Lalor toward full production. We are exploring for new occurrences of gold and copper-gold mineralization and testing geophysical targets peripheral to the deposit. All of our exploration drilling to date at Lalor has been from surface platforms. However, since the completion of the ramp from the Chisel North mine, we have outlined a multi-year underground drilling program for Lalor that we believe will add additional resources to this already large and growing deposit.

The development of Lalor is a key component of Hudbay's growth strategy, which is focused on low-cost and long-life assets in politically stable jurisdictions. Lalor, together with Hudbay's wholly-owned Constancia project in Peru and 70% owned Reed project – just 120 kilometres away from Flin Flon – comprise one of the best growth profiles in the mid-tier base metals sector. Copper production is expected to grow 420% by 2015. Precious metals production is expected to grow by 125% over the same period, with zinc production expected to grow by 35%.

The high quality of the Lalor deposit, combined with its advantageous location, Hudbay's mine development expertise and exploration success, enabled Lalor to be put on the fast track toward production. As we gain access from underground, Lalor is expected to have additional production upside still to be defined from exploration and precious metal recovery optimization. These attributes make Lalor an extremely attractive development project and the reason Hudbay is reinvesting \$704 million in Manitoba to make Lalor Hudbay's next major underground mine. □

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NEW FOR 2013: THE ARGO 8X8 TITAN SETS A NEW BENCHMARK FOR HANDLING EXTREME TERRAIN

Classical mechanics, founded by the brilliant Sir Isaac Newton, captures the essence of "power" with a simple definition: the rate at which work is done over time. The engineers at ARGO distilled simplicity and power into this innovative off-road vehicle when they developed the all-new ARGO 8x8 TITAN. The ARGO TITAN gives mining, utility, oil & gas companies, as well as serious outdoorsmen, the power to excel and produce in extreme terrain with very low maintenance. The all new ARGO TITAN is an amphibious utility vehicle with seating for up to four people on land and in water, and a flexible cargo platform option that can be customized to work like no other ARGO before.

Fancy design features may make for catchy brochures, but the ARGO TITAN features performance and extreme versatility where it is needed the most for commercial applications. The proven, direct-drive triple differential ADMIRAL transmission steers smoothly through challenging terrain and allows for turns within the vehicle's own length with minimal effort.

With a 1,300 lbs./590 kg cargo rating and a 1,150 lbs./520 kg drawbar pull, it is built to handle tougher chores than the standard ARGO lineup but still remains very cost-effective compared to the heavy duty ARGO 8x8 Centaur. An optional rugged Roll-Over Protective Structure (ROPS) frame for two or four passengers can be installed when required. The ARGO TITAN's custom tire tread is shaped for propulsion over small bodies of water as well as traction and flotation on deep mud, over obstacles, and through flooded areas. As an industry first, the steering column can also be moved quickly from left to right so the operator can position himself comfortably on the bench seat as required for various scenarios.

Work is the accomplishment of tasks. The versatile and flexible cargo compartment is already proving itself as mission-capable, whether the task is to carry equipment and supplies across Northern Ontario muskeg for mineral exploration, work hard in Malaysian plantations to optimize palm fruit harvesting, or maintain power lines and cellular towers in the



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Colorado Rockies. The TITAN's eight-wheeled layout not only provides incredible traction and stability, but the field-tested accessories, including heavy-duty 15" or 18" mud or snow track solutions, make the ARGO TITAN a workhorse 12 months of the year, thus maximizing utilization and ROI. At full payload, a ground pressure of low as 1 psi is achieved. The optional flatbed allows for the mounting of standard and customized cargo boxes, as well as third-party spraying equipment for insect and weed control, or fire fighting systems, thus meeting the expectations of the most serious users when it comes to versatility. Other accessories include a 4,000 lb power winch, brush guard, dual bilge pump, rear bench seat and a helicopter lift kit.

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As proven by Sir Newton, work must be done over time to demonstrate true power. In the utility vehicle world, this requires reliability that translates into a low cost of ownership. The mobility advantage for an energy company crew or natural resource exploration team vaporizes when a vehicle gets stuck in the bush or in the repair shop. ARGO's 45 years of unmatched experience in the toughest places on Earth back each and every ARGO TITAN. Every step in the design is a step forward in dependability and durability, providing excellent value. All eight drive axles feature tapered roller bearings contained in an oil bath axle housing. Heavy-duty, auto-lubed, single-roller drive chains ride on self-tensioned nylon slider blocks, resulting in longer service life and very low maintenance. The ARGO TITAN's rock solid 31hp fuel-injected Kohler power plant has proven itself around the globe in many other ARGO platforms. A best-in-class highly functional instrumentation package keeps the driver informed of critical vehicle conditions such as fuel level, charging system output and engine temperature. From smooth skid-steering to the impact-resistant waterproof hull, this is a serious utility platform that will overcome the forces of nature even after years of rugged use. In addition, ARGO vehicles are backed by application engineering, technical support and fast parts turnaround.

Just as men have marveled at Newton's intellectual brilliance throughout the years, ARGO has built a time-tested track record of achieving what no other fleet solution on Earth can do when the going gets tough. ARGO has once more raised the bar in the utility vehicle class with the ARGO TITAN, giving the unsung geniuses in the working world more power to produce in extreme terrain than ever before. Make the next smart move for your business by visiting your local ARGO TITAN dealer or researching online at www.argoutv.com/TITAN ☐



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NORDEVCO/CORE BOXES NORTH ANNOUNCES EXPANSION OF SERVICES TO THE NORTH

Over the past 25-plus years, Nordevco and their Core Boxes North division have strived to provide innovative and quality services to its mining and exploration customers. Core Boxes North's focus on quality means they only use screws and ring nails in our core boxes constructed of dimensional lumber (#2 and better) and plywood; they use screws in their core tray end cleats (that also allows water to drain from the trays); and their E-Z Assemble steel core racks require no tools for assembly (they also supply traditional wood racks).

Nordevco's Core Boxes North's focus on quality services means that they stock a broad range of commonly used core boxes and trays for quick shipment. Their high volume production facility in Winnipegosis also means they can fill large orders quickly and efficiently ensuring on-time delivery always.

To better serve their clients from central Ontario west meant opening depots in Winnipeg and Saskatoon to facilitate shipment of orders to their clients and allow clients to pick-up their orders.

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Saskatchewan, Nunavut and the Northwest Territories, Nordevco/Core Boxes North has taken two new steps. It has opened a depot in Flin Flon and has come to an understanding with Gardewine Group that will allow them to use Gardewine's extensive network of terminals and transportation infrastructure to both deliver and store core boxes and core trays closer to their clients. To that end, Nordevco/Core Boxes North is also investigating opening depots in Thompson, and the Yukon. Nordevco would also use the Thompson depot to better serve clients in Nunavut.

Nordevco/Core Boxes North is committed to providing superior service all its clients. That is reflected in the company's commitment to on-time delivery and its willingness and ability to provide custom core boxes and racks to meet specific customer needs. Their E-Z Assemble steel core racks were the direct result of a consultation process with a client who wanted a more durable core rack that could be easily assembled in isolated and cold weather areas without the need to use any tools.

As a result of building partnerships with its clients, Nordevco/Core Boxes North's custom work has included the manufacture of shorter boxes and trays for use in underground exploration and boxes meant to hold less core, making them lighter and easier for exploration crews to haul and manage.

Visit the Nordevco/Core Boxes North website at www.nordevco.net, e-mail info@nordevco.net or call them at 1-204-261-1801 to see how they can help you meet all your core box, core tray and core rack requirements. □

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GOSSAN RESOURCES LIMITED REMAINS WELL POSITIONED FOR THE DEVELOPMENT OF THE GREEN ECONOMY

Gossan is developing the Zuliani Process, a world-class technology for the production of primary magnesium. A recently completed independent Green House Gas ("GHG") Emission Study of the Zuliani Process concludes that midsize car emissions could be reduced by almost 7% over the car's life expectancy (200,000 kilometres) by light-weighting using magnesium produced by this innovative production method. The study also determined that this technology is a new breakthrough process for production of primary magnesium.

Light-weighting of vehicles is essential for auto makers to achieve both the improvement in fuel efficiency and the reductions in carbon emissions required by ever more stringent government mandated requirements. Magnesium is the lightest structural metal and typically provides weight savings of between ~50-75% over conventional steel, ~40-60% over high-strength "light steel" and ~20-35% over aluminum.

Currently ~80% of the world's magnesium is produced in China using the labour intensive and highly pollutive pidgeon method that was originally developed in the 1940s in Canada. Although the use of Chinese magnesium in the auto sector can produce the same fuel savings, it provides little or no reduction in GHG emissions in a Life Cycle Analysis. A car recovers all of the emissions generated during the production of auto parts made of Zuliani magnesium after 69,500 kilometres, resulting in a material net reduction in GHG emissions over its expected life of 200,000 kilometres. However emissions from the production of Chinese

magnesium use up and offset all of the gross reductions in emissions in vehicles until they have travelled 171-275,000 kilometres, resulting in little or no net reduction in GHGs. Also importantly, auto makers do not like to be dependent on a single source of supply.

Recently, the US auto industry conducted a component-by-component study which indicated that the current use of magnesium at about 10 lbs per automobile could be increased substantially to about 350 pounds per vehicle. Substitution at this level would result in a 7% reduction in GHG auto emissions and an even greater improvement in fuel efficiency.

The dramatic reduction in carbon emissions using the Zuliani Process

is achieved by the high raw material utilization efficiency of the production process and the use of hydro-electricity, natural gas and high-purity dolomite. The Zuliani Process uses less dolomite, ferro-silicon and energy in the production process. Subject to confirmation of the process on a commercial scale, the direct cost of magnesium ingot produced with the Zuliani Process is expected to be about 25-30% less than the direct cost of Chinese magnesium ingot landed in western markets.

Gossan has already established a substantial resource of high-purity dolomite (NI 43-101 compliant) at its Inwood Magnesium Project. Currently, the company is focused on sourcing specialized equipment and facilities for Stage III testing of the Zuliani Process that will materially increase the scale of testing to optimize the efficiencies of the process. These tests will investigate various segments of the process, including the movement of slag and the condensation of liquid magnesium and lead to the design and engineering for a pilot plant – the first production module.

Gossan also holds a broadly diversified portfolio of properties hosting gold, platinum group and base metals, as well as the specialty and minor metals – vanadium, titanium, tantalum, lithium, and chromium – and a high-purity silica frac sand deposit with ISO 8K-9K Proppant ratings. All of the properties are located in Manitoba and northwestern Ontario.

Various new electronic storage technologies for batteries in electric vehicles to large-scale grid storage of renewable energy – wind, solar and



hydro – will likely dramatically increase the demand for various metals including lithium, vanadium and magnesium.

Gossan holds a 50% interest in a large low-grade vanadium and titanium deposit at Pipestone Lake with its equal partner, the Cross Lake First Nation. Gossan is active in ongoing engagement with its partner. Vanadium in various forms has a number of unique attributes pertaining to an electrical charge. Redox batteries, which have the capacity to accept and release an electrical charge at great speed, allow for large-scale grid storage of electricity. Commercial adoption of this technology would provide a new use for vanadium and provide a steady and large increase in demand which would allow for new entrants of primary vanadium producers into the market. Vanadium is also likely to see a substantial increase in demand for use in lithium-based batteries, including batteries for the e-vehicle market.

At the Bird River Project, adjacent to Mustang Minerals' Makwa Deposit, Gossan holds two deposits, the Page and Ore Fault, with initial low-grade in-situ NI-43-101 resources containing nickel, copper, zinc, silver, gold and PGEs. Gossan trades on the TSX Venture Exchange under the symbol GSS and on the Frankfurt-Freiverkehr & the Xetra Exchanges. As of September 30, 2012, there were 33.2 million common shares outstanding.

Gossan is developing a world-class, breakthrough technology for the production of primary magnesium. This process has the potential to transform Manitoba's abundantly available hydro-electricity into a value-added exportable product that has the potential of materially reducing global GHG emissions. Gossan also holds a commodity-diverse property portfolio well positioned to meet the increasing demand for high technology and environmentally beneficial applications including electric vehicles and battery storage. Gossan remains focused on and committed to Manitoba - the land of the Golden Boy. □



COMMODITY DIVERSE EXPLORATION | GREEN ENERGY DEMAND

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GOSSAN IS FOCUSED ON THE DEVELOPMENT OF THE GREEN HIGH-EFFICIENCY ZULIANI PROCESS FOR THE PRODUCTION OF PRIMARY MAGNESIUM

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LARGE SCALE – CEMENTATION CANADA FURTHERS PARTNERSHIPS ACROSS MANITOBA, CANADA AND THE WORLD



Cementation's introduction to the Manitoba mining community began in 2000, thanks to a joint venture with Aurora Quarrying at the 777 mine near Flin Flon, Manitoba. Aurora Quarrying was a well-respected mine contracting company that had been carrying out mine development in the region since 1973. The companies' shared focus on safety and approach to mine development delivery was a good fit, and in 2002 the companies became one with the acquisition of Aurora Quarrying by Cementation. The company has continued to provide mine development services to both Hudbay Minerals'

777 mine, and Trout Mine in the areas of lateral and ramp development, mechanized and conventional raising, as well as some underground construction. Cementation's commitment to the Manitoba mining community has remained strong and further supported with shop facilities in Thompson, responsible for carrying out maintenance on the company's entire Canadian fleet of mobile equipment.

In 2009, Cementation commenced work at San Gold's Rice Lake Mine with the excavation of ventilation and manway raises using raise climbers. The scope of work was expanded and now

includes ramp and drift development in the Hinge and 007 zones while mechanized and conventional raising and some development work continues at the Rice Lake Mine. Reaming of a 305-metre-long, 5.5-metre-diameter FAR by one of the company's raise boring crew has just finished, and the 123R drill machine has moved on to another project. Cementation introduced large diameter raise boring into Canada in 2004 at Goldcorp's Red Lake mine in Northern Ontario.

At AuRico Gold's Young-Davidson gold mine in Northern Ontario, another raise boring crew is currently excavating a 5.5-metre-diameter production shaft using borehole hoisting technology. While raise boring production shafts is not a new concept, two main factors have allowed for this process to be applied on a larger scale: large-diameter raise boring capacity and vertically true drilling. This alternative provides several advantages over blind sinking when certain ground and mine infrastructure conditions are met. These conditions include pre-existing access at shaft bottom, ground that allows the bored shaft to be self supporting and manageable ground water and waste removal. The advantages to raise bored shafts are greater safety with the removal of personnel from the excavation area, and cost and scheduling savings.

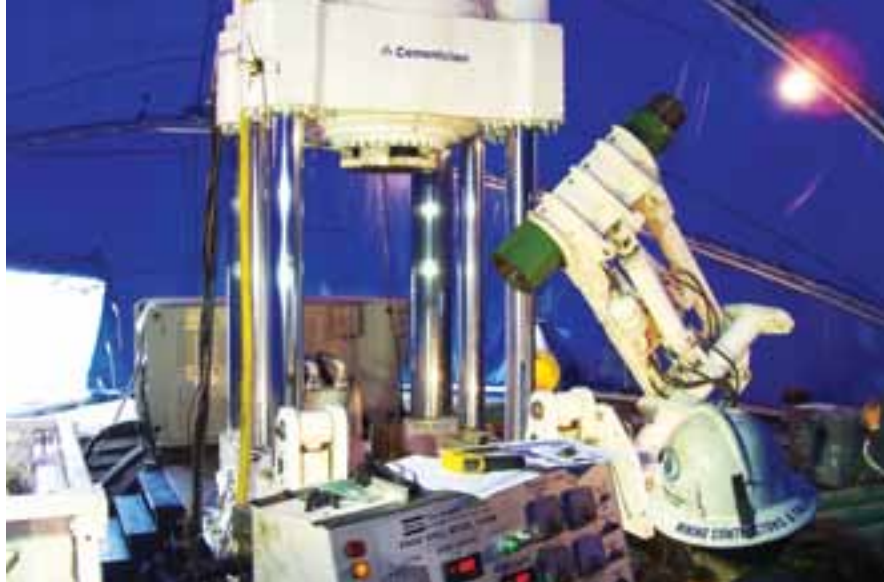
Travelling still further east, Cementation is currently wrapping up at PotashCorp's Picadilly project near Sussex, New Brunswick. An Engineer-Procurement-Construct (EPC) project for Cementation, the company has

completed the sinking of two shafts to depths just over 900 metres from collar. Both shafts required pre-grouting and grouting during the sinking process. Cementation's involvement in this project commenced with capital cost estimates, as well as design work carried out by the company's engineering team. Cementation was also involved with the procurement of materials and the securing of sub-contractors for construction of the headframes and shaft surface facilities. This project has benefited from an excellent safety record and a strong collaborative working relationship with the client, PotashCorp and the subcontractors.

Cementation's Engineer-Procure-Construct (EPC) approach is based on direct hire from engineering to underground construction. The company does the engineering, the procurement and the construction. This means one-point accountability, overall project schedule opportunities, better constructability through constructor involvement in design, and integration of temporary and permanent installations to streamline changeovers and startups.

Cementation Canada is part of the global Cementation group with companies in North and South America, South Africa and Australia. The Cementation group works together sharing global best practices and providing support with specialist personnel and equipment. Several joint venture projects are currently underway. The Venetia Project is a collaboration between Murray & Roberts Cementation and Cementation Canada and is a major shaft sinking project in South Africa for DeBeers. The PT Freeport Indonesia – Grasberg Block Cave Service Shaft is a joint venture with Australian sister company RUC Cementation. Cementation Canada also has another joint venture with RUC Cementation in Mongolia to design and build the Oyu Tolgoi #4 Ventilation Shaft.

For more information, please visit us online at www.cementation.ca or email busdev@cementation.ca. ☐



Cementation is proud to be a long time member of the Manitoba mining community.

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Located 740 kilometres north of Winnipeg, Thompson is a modern and progressive city active in its own development. Thompson offers strategic competitive advantages to regional and more northern businesses needing to access local mining supply and service businesses and stakeholders engaged with transporting goods and/or services throughout Manitoba's North and Nunavut. Thompson offers an entrepreneur-friendly environment for those looking to set up their own business and/or expand to serve the needs of mining and mineral exploration.

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Manitoba Provincial Highway #6 between Thompson and Winnipeg provides affordable and reliable year-round ground transportation. This key north-south ground transportation corridor links to an extensive network of winter roads that link the region during winter months. Thompson is the key hub for intermodal movements of passengers, bulk, perishable and time-sensitive freight through Manitoba's second busiest airport: the Thompson Regional Airport. Regularly scheduled and charter flights involving a variety of aircraft and helicopter are centered here. Convenient, direct air service to Winnipeg and regional communities and air service to Nunavut are available. The national rail link includes the Thompson train station to the Port of Churchill, where sealifts from the

Port to the Kivalliq Region of Nunavut is additional evidence of the strategic transportation advantages. Serviced and unserviced industrial lots, as well as some airside and rail station lots, are available for development. Visit www.thompson.ca for more information.

Local mining supply and services businesses have grown and prospered over decades of local mining production. This business cluster continues to grow through expansion and new business opportunities, such as the lack of an assay lab. The mining industry understands that time costs money. Products and/or services are needed now, not later because a broken part can result in downtime costing thousands of dollars. Access to and transportation of needed supplies and services to support operations running optimally



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are essential for successful mining operations and mineral exploration. From custom wood products and a CNC router to bulk industrial electrical supplies, Thompson-based businesses can provide or source needed parts/services. A listing of local mine service and supply companies is available at <http://www.thompsonunlimited.ca/wp/development-resources>.

As of October, 2011, The Province of Manitoba reported approximately 45 companies active in mineral exploration and mining in resource rich Manitoba. Vale and HudBay directly employ approximately half of the total mine labour force in Manitoba in mines they own and operate in northern Manitoba. A bright future is at hand with exploration and deposit appraisal expenditures that totalled \$97.8 million in 2010. As the City's economic development corporation, Thompson Unlimited is a resource to facilitate commerce and act as a catalyst in the development of new businesses. □

Regularly scheduled and charter flights involving a variety of aircraft and helicopters are centered at the Thompson Regional Airport.



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DON'T MISS THE 81ST ANNUAL PDAC INTERNATIONAL CONVENTION, TRADE SHOW AND INVESTOR EXCHANGE

By Lisa Fattori



Preparations for the 2013 PDAC International Convention, Trade Show and Investors Exchange are well underway, with exciting venues and activities planned for this year's event. Held from March 3rd to 6th, 2013 at the Metro Toronto Convention Centre, the PDAC is a must see, providing the world's mineral industry with the opportunity to meet over 1,000 exhibitors, as well as more than 30,000 attendees from 125 countries. Show visitors can also attend

technical sessions and short courses and have the opportunity to socialize and network at several events.

For the 81st annual PDAC, attendees have access to 400 trade show and 600 investors exchange exhibitors that include exploration and mining companies, drilling equipment and services companies, consultants, law firms, stock exchanges and more. Visitors can learn about the latest in satellite communications, software products

and remote sensing and mapping technologies. The Show and Convention appeals to a wide range of people, including exploration and development professionals, geoscientists, mining service sector representatives, sales and marketing professionals, and students.

Organized by the Canadian Association of Mining Equipment and Services for Export (CAMESE), the Innovation Forum gives trade show exhibitors the opportunity to showcase



their innovations. Presentations provide information about new products and services, exploration developments, discoveries, legislation changes, and recent technical or commercial successes. There is no charge for this opportunity and eligible presentations are promoted through advertising, signage and listing in guides and programs that are distributed to convention attendees.

The Core Shack is another popular PDAC venue, which gives participants the opportunity to share with fellow explorers and developers exciting drilling, trenching and outcrop samples. Attendees can see potentially economic grades and widths associated with an emerging or potential resource from active mines, as well as re-activated mines and extensions or satellites to existing operations. There are two sessions planned for the Core Shack company displays, on March 3rd–4th and March 5th–6th.

Other highlights of PDAC 2013 include the Corporate Presentation Forum for Investors and the presentation of policy and technical papers at the Convention's Open Session. From

Monday March 4th to Wednesday March 6th, there are special lunchtime events planned that include the Mineral Outlook Luncheon, International Panel Luncheon and the Student-Industry Networking Luncheon. At Wednesday's Innovation Luncheon, Perrin Beatty, President and CEO of the Canadian Chamber of Commerce, will be the guest speaker. Mr. Beatty's presentation "How Canada Has Transformed Its Resources Endowment into a Global Competitive Advantage" will focus on Canada's innovation and competitiveness in the global market.

Evening functions include a Welcome Reception on Sunday, March 3rd in the Canadian Room at the Fairmont Royal York Hotel. An Awards Evening, Mining Night and Gala event, all at the Fairmont Royal York Hotel, give attendees the opportunity to mix and mingle at fun-filled events. PDAC 2013 will also include the 6th Annual PDAC-Caracle Cup Hockey Tournament at Canlan Ice Sports on Saturday, March 2nd. Throughout the day, spectators can cheer on sixteen sponsored teams, each vying for the prestigious Caracle Cup.

Those interested in learning more about PDAC 2013 can visit www.pdac.ca. Find out about the latest news, show highlights and registration information. The website provides a wealth of information for show exhibitors and attendees, including shuttle service and a listing of available accommodations at local hotels. □

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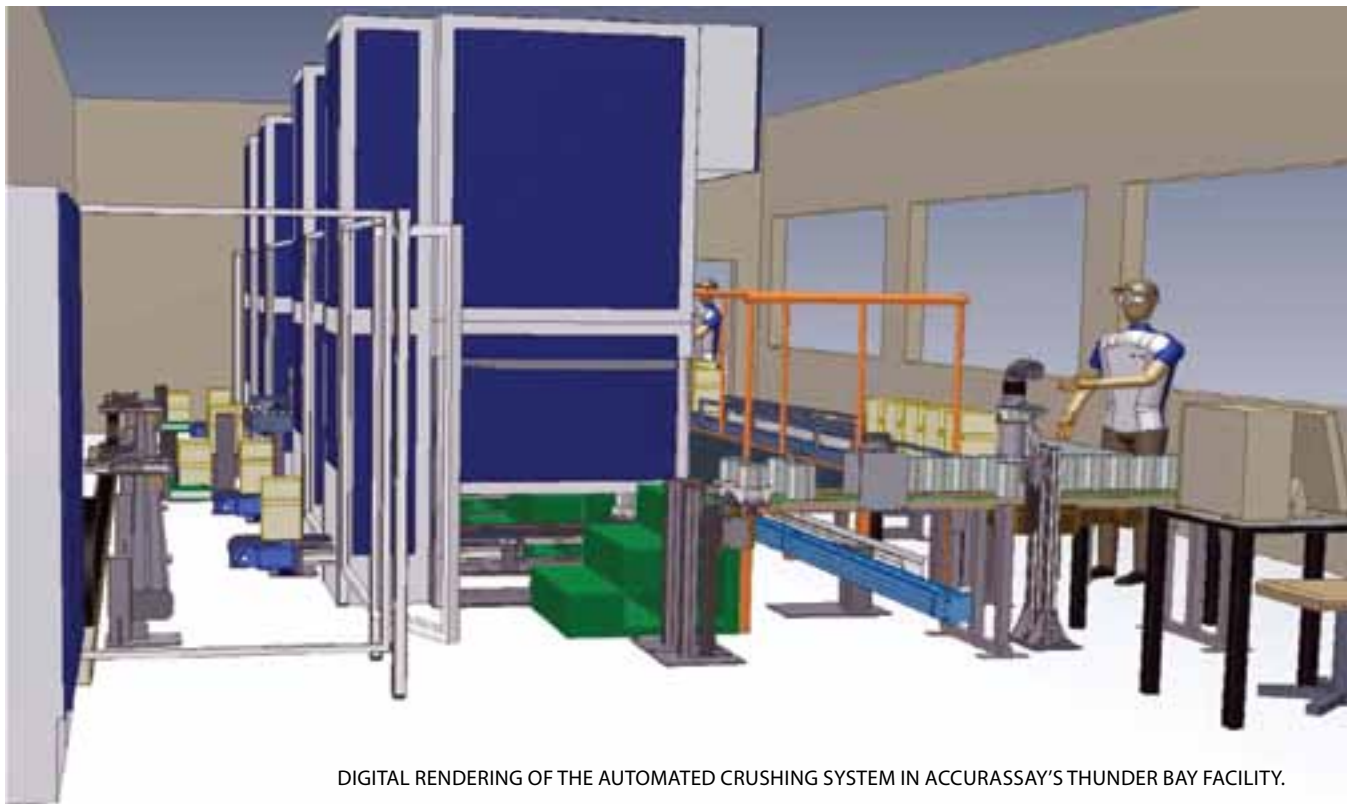
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ACCURASSAY LABORATORIES: MORE LOCATIONS, EXPANDED CAPACITY FOR 2013



DIGITAL RENDERING OF THE AUTOMATED CRUSHING SYSTEM IN ACCURASSAY'S THUNDER BAY FACILITY.

Accurassay Laboratories, one of Canada's largest privately-held analytical service companies, has continued to grow and develop in response to the needs of its clients and the exploration industry. The new and expanded locations will provide greater accessibility and improved turnaround time for the regional geologists and mining companies.

Thunder Bay Expansion: The addition of another furnace line, a larger XRF system and the new automated crushing system brings additional capacity and technical advancements to what is already one of the premier assay laboratories in the country. Accurassay is looking to provide a broader, faster range of services to the Manitoba market and welcomes all inquiries from those looking to improve their turnaround time while managing a cost-effective program.

Rouyn-Noranda: Accurassay is completing a move of its current sample prep operations to a new, larger, facility nearby that will include gold fire assay capability in early 2013. It will feature the best of our process equipment expertise and technical procedures gained in our Thunder Bay operations over decades of service. The current planned capacity for fire assay upon opening is 1,500 samples/day and will be expanded once again toward the end of 2013.

Colombia: Our first foray into South America is now open for sample reception, with sample prep to follow by December 2012. Accurassay's lab supervisor is a local Colombian with gold lab experience gained from previous mine lab employment. Our company will deliver a combination of local expertise with our SCC accredited Thunder Bay analyses to provide a better alternative to exploration companies in that country.

TATA Steel Minerals On-Site Laboratory, Labrador: With the awarding of the TATA Steel on-site lab services contract, Accurassay has already placed a temporary facility on-site for sample prep. The sub-samples are then further processed and analyzed for iron and other oxides in Accurassay's Thunder Bay laboratory within five business days of reception. If you are looking for improved turn-around time for your XRF-based program, contact Accurassay to learn more.

The growth history of Accurassay is a Canadian success story. Accurassay entered the mineral testing services business almost 30 years ago upon start-up of its main environmental laboratory in Kirkland Lake, Ontario. In 1987, company founder Dr. George Duncan parlayed his expertise in the science of gold analyses into a reliable assay services lab based in Thunder Bay. In 2001, George's son, Rob Duncan, left a senior management role with

Accurassay processes over 3,000 samples per day through the efforts of over 100 staff across the company, including satellite operations in Sudbury (ON), Timmins (ON), Rouyn-Noranda (QC) and Gambo (NF).

a manufacturing company to become the Accurassay president. Rob's aim was the development of Accurassay into more than a local lab; through the introduction of new best practices and a continuous investment in new process equipment, the company steadily developed its position as a service-focused, process-driven organization. It has been truly significant growth for the company over the years since. As a result, the company today is a significant mid-tier player in the assay services industry across Canada.

Accurassay has been at the forefront of the market by leading all providers in service delivery and in meeting the promised outcomes of operational efficiency. Today, Accurassay processes over 3,000 samples per day through the efforts of over 100 staff across the company, including satellite operations in Sudbury (ON), Timmins (ON), Rouyn-Noranda (QC) and Gambo (NF).

Technology: Our key technology partner is IMP Automation Canada, a division of IMP Group International. This is a high-technology engineering and automation company that holds extensive experience in the field of on-site laboratory development and design. With dozens of equipment and process installations in the gold, copper and iron ore exploration and mining industry, including Rio Tinto and BHP, IMP provides a

backbone of experience and expertise to support a high-quality, efficient Accurassay operation.

New Automation Systems: In line with its focus on the benefits of automation, Accurassay has installed an automated crushing system for its Thunder Bay operations. This system will be fully commissioned as of November 2012 and will complement the existing automated pulverizing units. Featuring four Herzog HP-WCSA crusher/splitter units and a linear conveyor system, it will produce a state-of-the-art sample preparation process unequalled in any commercial lab in North America. The benefit to clients will include even tighter precision as well as gains in the reliability and predictability of turnaround time.

The past, present and future of Accurassay is underlined with positive growth and development. The benefits to be gained by its clients are significant, and the company will continue to provide client-focused services as it moves into 2013.

For more information about Accurassay, please contact:
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EXPEDITORSPLUS INC. – ASK US ABOUT THE PLUS!

Around the globe there is an increasing awareness of the importance of positive relationships between mining companies and the communities they engage. Best practices are being promoted for the interaction between mining companies and the First Nations and Aboriginal communities here in Canada, and indigenous communities abroad.

These best practices include recommendations for clear communication, integrated community engagement, understanding the values, culture, social, economic and political nature of the communities, and building genuine relationships with the community and its leaders.

Expeditorsplus Inc. (EP) is intimately familiar with Canada's north and the communities that live there and is well informed on the best practices and corporate social responsibility that are so important to the resource extraction industries. Rather than being an "unknown" factor in achieving your best practices objectives, EP provides valuable insight to working with northern communities and will be a valuable asset for your next mining camp project. Members of the EP team have lived in the north, worked in the north, and have completed dozens

of projects with First Nations communities across Canada in a variety of capacities.

Nicole Rebeck, President of Expeditorsplus Inc., adds, "At EP we pride ourselves on our ability to work effectively in this environment. We understand the needs of the mining industry, and we understand the nature of the communities they work with. It gives us a real advantage."

Back in 1999, EP focused its efforts on providing expediting services to Manitoba's remote fishing lodges. The company would charter planes to get the anglers and their equipment from Winnipeg to the camps and would also assist with purchasing and shipping supplies and equipment to the camps. As these services grew and EP's capabilities expanded, the decision was made to explore new opportunities in the mining industry.

"We realized that our expertise in expediting guests, supplies, gear, and staff to remote fishing camps was a good fit for remote mining and exploration camps; it made sense to actively start promoting our capabilities to the mining industry," Nicole says. "We've been in operation for 14 years now, and we continue to enhance both the quality and diversity of our services."



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EP provides full camp management services. Based on your needs, EP can source and ship sleeping, kitchen and washroom trailers; arrange to have them installed and operational; and provide you with professional management, catering, and housekeeping staff. EP also arranges for the camp's consumables, from food for the workers to fuel for the vehicles.

A clear environmental plan ensures a clean camp that is "up to code", and the inclusion of a health & safety policy manual and employee handbook on-site ensures that the staff are operating according to the highest standards.

"I really believe we offer a unique service to the mining industry," Nicole continues. "We're small enough to maintain a personal 'first-name basis' relationship with our clients, yet capable of offering comprehensive one-stop-shop services for small and medium-sized camps. Our familiarity with the north and experience working with First Nations communities is what really sets us apart. We genuinely believe in giving something back to the communities where we work, and making every project beneficial for all parties involved."

To learn more about Expeditorsplus Inc. and how they can meet your expediting and remote camp management needs, please call (204) 488-4038, toll-free at (866) 471-6035, email info@explus.ca, or visit their website at www.expeditorsplus.com - and don't forget to ask about the "plus"! ☐



EXPEDITORSPLUS INC. PRESIDENT NICOLE REBECK.

 The advertisement features a background image of a forest at sunset. In the top left corner is a logo consisting of a compass rose over a globe. The company name "Expeditorsplus" is written in a large, white, serif font, with "INCORPORATED" in a smaller, white, sans-serif font below it. To the right of the company name, a list of services is provided under the heading "MINING CAMP SERVICES".

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Usually, the selection of the pumps needs to be made quickly for the customer, and an incorrect decision can cost the mine time, production down time and money.

And then, once you are finally done with your pump selection, the mine supervisors have to deal with another problem known as out-of-stock and delivery delays due to companies' just-in-time inventory policy.

Technosub understands that when you contact them, you want to talk to someone who really knows about pumping applications but also knows and understands the actual needs of a mine. The company has made its name by providing the fastest engineering dewatering solutions and equipment delivery in the Canadian mining industry and always focuses to improve its product durability to last longer under extreme mining conditions.

With over 30 years of expertise in mining dewatering solution, Technosub operates eight branches across Canada, distributing many lines and manufacturing its own products and pump components. Over the years, more than 70% of all the mines in Canada like Vale, Agnico-Eagle, Iamgold and Xstrata have put their trust in Technosub because they know they can rely on its expertise to cope with the challenges that arise from dewatering.

All products and solutions are developed and tailored to adapt to its customers'

limitations, be they environmental, operational, technical, financial or more.

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The Technojet multistage submersible pumps, suction, discharge and stage casings are made of ductile iron. All internal components are made of duplex stainless steel in order to withstand the hard conditions of mine dewatering.

Because Technosub specializes in manufacturing custom-made pumps – hence meeting the specific needs of its customers – the company has an impressive portfolio of solutions and achievements in mine dewatering across Canada.

For more information, visit www.technosub.net or www.tsurumicanada.com or call 1-866-797-3300. □



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SPIRIT STAFFING & CONSULTING BRANDON INC. – FAR BEYOND YOUR TYPICAL HR AGENCY!

By Charlotte Larocque, Executive Director

Have you heard there is a shortage of skilled workers? Are you familiar with how this shortage will increase by 2020? I am sure you have thought about how this will impact your bottom line if you didn't take action now. Imagine how nice it would be if you were positioned correctly; this is something that is on the minds of many people. You may be comfortable at the moment—but will you be in eight years?

Many companies are experiencing an aging workforce. How effectively are you using the people you currently have to pass on information to the up-and-coming generation of workers? The most valuable asset a company has is their people; by providing them with the tools to accurately and effectively pass on their knowledge and present their expertise to others, you will be one step ahead.

When some people hear the word "recruiter" different things come to mind. I have often heard, "How am I supposed to find the right person (or the right job) when I am so busy trying to do my job?" Ask yourself, what is your time worth? What could you be doing if this was taken care of? It is all about building the right team and getting to that next level. Creating success does not happen overnight; it takes time. The time to start is now!

It would be nice if we could stay comfy, cozy, content and happy forever, but reality usually alters that state for us. Think back to a time when you were truly "happy" and "stress-free", a time when life seemed perfect. Remember that!

Imagine a time like that when you were you at work! If you were to close your eyes right now, you can see, hear, feel and be in that moment! What was it that made that moment so wonderful? Was it a sense of accomplishment; empowerment; knowledge; your surroundings; or perhaps just the culture around you? If the thought of it doesn't make you laugh, you at least smiled. I bet your energy and productivity was up. Everyone around you enjoyed what they were doing. You looked forward to each day. Life was good!

Now, I know you have never witnessed this type of work environment take a turn for the worse. If this were to ever happen, would production go down, morale drop, and the environment leave a bad taste in your mouth? Would stress levels rise and more people start calling in sick? Good people start looking for other jobs.

Retention is a key element in managing training and other costs. What will happen to salary increases or bonuses if the company's overhead goes up...especially if production is down?

Relax! That is why Spirit Staffing & Consulting Brandon Inc. is "Your Right Fit Expert!" You deserve success. It is fair to say that good companies want to keep their employees happy. After all, it is in their best interest. Corporate values and personal values need to be met.

The reason I started Spirit Staffing & Consulting Brandon Inc. was to fill a need for strong individuals to gain happiness at work and to provide the resources for companies to succeed in

maximizing their potential. A positive work environment can make the difference between profit and loss.

How did get to this point in my life? Several years ago, I enjoyed my job and the people around me. Through the company's commitment to giving back to the community, I was involved in organizing non-work-related functions. I enjoyed spending time outside of my work day to go above and beyond in order to do some social good. I took pride in my work and felt a sense of loyalty and connection to the company. I thrived in growing and envisioned myself spending many years on their payroll. That was until a new person was introduced to our team and I noticed that there was a shift; morale diminished, production decreased, laughs disappeared, stress levels increased, pettiness ignited and I began hating my job. Obviously others felt the same, as our staff turnover rate shot through the roof. The only thing that changed was that one person. It was no fault of the individual, but I questioned the dynamics of it all. I came to realize that my values were not in line with the values of that one person. What was important to me was not what he found important at all. He did not recognize that I took pride in doing those extra things that helped others. It was at no cost to the company, fulfilled my personal need and took no time away from my job. In fact, small tasks like this increased my loyalty, production and morale. The lack of this small commitment left a void in me.



Sure, Spirit Staffing & Consulting is an award-winning leader in workforce diversity solutions and Charlotte Larocque may be a Certified Human Resource Professional (CHRP), but that is only the surface – she digs deeper, extracts and offers more in order to help you!

I was at a crossroads. I had never quit a job before. I still enjoyed all the other people around me. I still felt attached to the company. Why did I let it affect me? It was not worth going home every night “stressed-out”, angry and feeling so negative. The company raised my salary, so I stayed, but I still felt the same and the atmosphere did not get better. They gave me another raise, so I tried to hang on longer.

Finally, I realized that happiness is worth more than a salary to me, personally! My family deserved for me to be happy when I was at home. I recalled a phrase that a wise person once told me: “Focus your energy where you excel and on what makes you happy. The rest can be delegated to others. Asking for help is a sign of strength! If you do this, you will surpass your goals.” After exploring the answers to a simple question – what would happen if I did versus what would happen if I didn’t? – I eliminated my fears and decided to move forward.

I believe there is a reason for everything! I found myself in a position where I could go back to school and take my human resources and management training. I wanted to prove to myself that I could overcome any obstacle, that I could make a difference. So I did! Then what?

I wanted to lend a hand to others, so I helped children learn about different careers. It was an amazing job; yet I still felt a void. Something was still missing and I needed a change; I wanted to live up to my potential. If I had those thoughts and feelings, others must too.

Thus, at Spirit Staffing & Consulting Brandon Inc., I realize we all have an abundance of knowledge and skills to offer, we all have goals, dreams and visions. Companies have specific goals, needs and priorities that have been created through their vision as well. Does it not make sense to offer your knowledge and skills to the right employer in return for what is important to you? What if people and

companies have similar goals and visions? Hmmm...I wonder if there is a way to look past the exterior and find out what is truly important. Just a thought!

So what do I do? I help companies focus on their core competencies through various HR functions, including training and recruitment of quality, qualified individuals with the skill set and values to become a part of my clients’ teams. I find the true values, goals and visions and align them. I offer them tools that will retain these key employees long-term. I facilitate workshops within companies that draw out the leadership and mentorship skills and knowledge of their existing employees. I create win-win circumstances for both the employers and the employees.

More than a recruiter? Yes. Now you know why I am more than a leader in workforce diversity solutions! I am “Your Right Fit Expert”.

Taking action now will avoid 20/20 hindsight! ☐

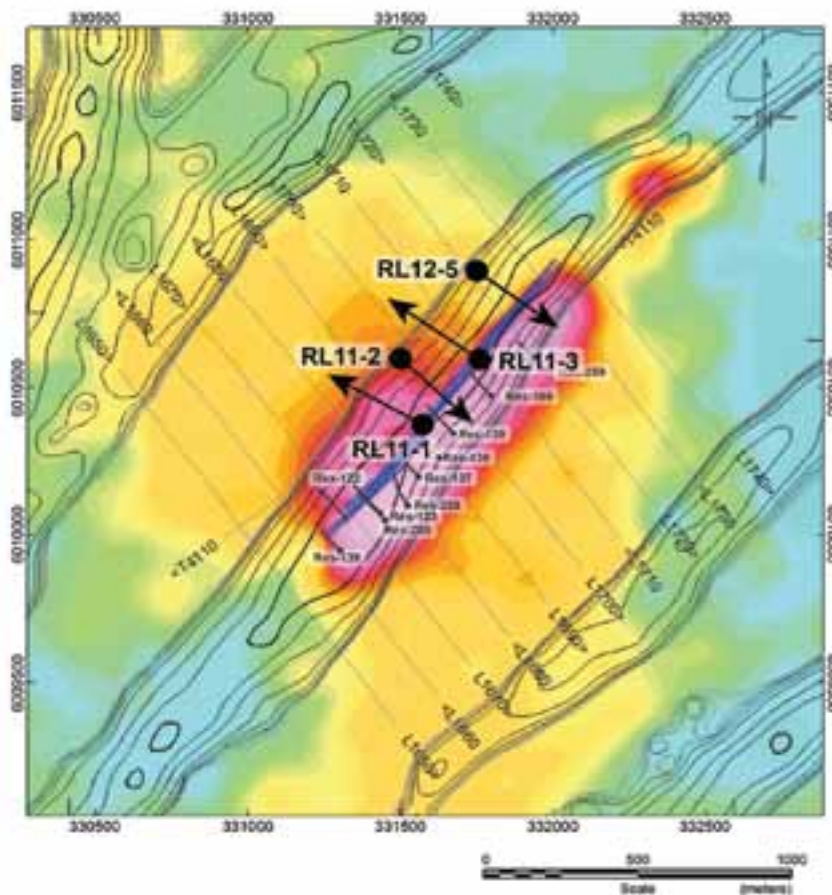
ROCKY LAKE PROJECT ADVANCED BY QMC MINERALS

For Quantum Minerals Corp. [TSX.V: QMC], the true potential for its Manitoba properties began from the examination of historical drill hole data, a follow-up of a Crone Geophysics Pulse EM (PEM) survey and the recent air-borne VTEM plus Time Domain EM system survey. The VTEM survey identified 21 additional targets on its copper-gold massive sulphide Rocky Lake projects (Rocky Lake and Rocky-Namew projects) in the world-renowned Flin Flon-Snow Lake mining district. Out of the 21 targets identified, 15 would go on to be classified as first-priority targets.

The VTEM survey covered all of the project licenses and claims for a total of 2142 line kilometres with 160-metre line spacing over an area of 316 square kilometres. Performed by Geotech, the air-borne VTEM plus Time Domain EM system has been shown to locate discrete conductive anomalies as well as mapping lateral and vertical variations in resistivity. These conductors could represent hidden volcanogenic massive sulphide mineralized bodies at depth.

"Geotech's VTEM survey shows very large targets on our project which are worth exploring given the location and proximity," says Balraj Mann, President and CEO of Quantum Minerals. "This is in addition to the large Crone Pulse EM target identified on License 219A, which confirms that the target areas are much bigger than we expected. I am eagerly looking forward to our next stage exploration drilling program."

No previous work program had been carried out in the target areas aside from the QMC's Rocky Lake Crone Geophysics Pulse EM survey Targets and historical drilling by the Hudson Bay Company (later renamed HudBay Minerals - HBM) on the main Rocky Lake Mineral Exploration License 219A. The mineralization on License



219A was discovered in 1987 by HBM after airborne surveys identified a 5-kilometre conductor and ground EM outlined 1,500-kilometre conductor.

HBM had diamond drilled 10 NQ and BQ holes totaling 2,292 metres in three programs: five in 1987, three in 1990 and two in 1991. QMC has cut a new grid over the HBM anomaly and completed the Crone PEM survey. The PEM survey delineated a very prominent conductor anomaly shown in the attached figure. QMC Quantum Minerals [TSX.V: QMC] received the necessary permits to drill the PEM conductor anomaly with total drilling anticipated to be 2,500 metres.

"As suggested by the PEM survey anomaly, perhaps some of the strongest portions of the original Hudson

Bay electromagnetic anomaly were not adequately tested," says Mohan Vulmuri, Geologist and Director of QMC Quantum Minerals [TSX.V: QMC]. "By carrying out the drilling on the footwall side of the potential mineralized body, it appears that HBM originally missed the main target of a massive sulphide mineralized body. This theory is further evidenced by copper mineralization intersected in the HBM drilling that presented as stringers and could represent footwall stringer mineralization."

QMC Quantum Minerals [TSX.V: QMC] has not only its own data to process but can look over the previous work done in the area by HBM and Inco, which included airborne surveys, ground geophysics and drilling, leading to the 1984 discovery of the Namew

Lake Ni-Cu mine, approximately 10 kilometres to the northwest of the Rocky Lake massive sulphide target. The Rocky Lake projects share the same Namew Gneiss Complex host rocks as the Namew Lake mine, which produced 2.57 million tonnes grading 0.63% copper and 1.79% nickel. The Namew Gneiss Complex is composed of highly metamorphosed rocks believed to be derived from Amisk Group volcanic rocks, the host rocks of the Flin Flon-Snow Lake mining district.

With the flurry of historic and ongoing mining activity in and around Flin Flon, only 65 km to the north, and Snow Lake, 100 kilometres to the northeast, it's no wonder that the mining community still favourably looks at this region as a hub for Central Canadian mining activity.

For QMC Quantum Minerals [TSX.V: QMC], the fact that the legacy of the Flin Flon-Snow Lake mining district goes back 84 years is to be respected, as the region is still a powerhouse in the Canadian mining world. From the founding of Hudson Bay Mining and Smelting's mining infrastructure that brought power, rail and workers to the region through to today, its successor, HudBay Minerals, is still a chief player in the region. Recent joint venture deals like that of the HBM partnership with VMS Resources on the nearby Snow Lake property make the area friendly for junior explorers. Thanks to data provided by previous work from HBM, as well as favourable infrastructure in the region credited to work done by HBM over the years, QMC Quantum Minerals [TSX.V: QMC] is poised to help continue within the region's mineral legacy through its exploration and development. Today's copper prices are also providing what could be an enhanced economic environment for this region, and encouraging junior explorers like QMC Quantum Minerals [TSX.V: QMC] to develop and attract the partners it needs to continue moving forward.

QMC Quantum Minerals [TSX.V: QMC] is also active in other jurisdictions

of Manitoba. They recently acquired the Cinder Lake Rare Earths (REE) project in northeastern Manitoba. Extensive research was carried out on the Cinder Lake Complex by the Department of Geological Sciences, University of Manitoba and QMC Quantum Minerals [TSX.V: QMC] believes that this project has great potential. REE mineralization is associated with the Cinder Lake alkaline intrusive complex, and this is the only known occurrence of feldspathoid rocks in Manitoba. □



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NEED A LIFT? PRAIRIE HELICOPTERS INC. CAN TAKE YOU THERE

By Jillian Mitchell

At Prairie Helicopters Inc., "service and safety" is not some casual slogan. Ever since they opened their doors in 2000, it's been a pledge, a promise and a way of life.

Through the skies and across the prairies, Prairie Helicopters has set the standard for service and safety in Manitoba for 12 years, as the province's leading custom charter helicopter service and only turbine helicopter flight school. An emerging leader in their field, Prairie continues to provide first-class air charter services and helicopter flight training in Canada.

The company, located along the western shores of Lake Winnipeg in Gimli, Manitoba, has specifically grown their fleet of helicopters to match the diverse needs of our clientele in Manitoba, Saskatchewan, Northwest Ontario and

Nunavut. Today, equipped with a fleet of Bell 407, Bell 206L3 and Bell 206B helicopters, Prairie Helicopters offers a versatile array of solutions and services.

Low air-traffic volume at the Gimli Airport provides ideal conditions for students to comfortably acquire flight training. At the newly built Transport Canada-approved flight training facility, small class sizes allow for maximum learning opportunity. Students complete their training on the turbine powered Bell 206B Jet Ranger, which boasts the best safety record in the industry.

Because of its dependable reputation, the same aircraft is also used for Prairies' full-range commercial charter services. These services include, but are not limited to: aerial construction, photography, inspection, and spraying;

film production; agricultural surveys; forest fire suppression; scenic aerial helicopter tours; heli-skiing services; aircraft recovery; mineral exploration; diamond drill support; power line maintenance; wildlife telemetry surveys; and live animal capture.

One thing that has characterized the helicopter since its invention in the 1930s has been the unusual design of the machine. The versatility of a helicopter's shape allows for precision and accuracy, specifically in tasks such as aerial spraying that requires vehicles to fly at lower altitudes. Similarly, during wildlife telemetry surveys and live animal capture, the helicopter is the ideal machine. For over 10 years, Prairie Helicopters has worked extensively with Manitoba Conservation (Wildlife Branch) assisting

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Over 29 years experience in the Mining Industry

For over 10 years, Prairie Helicopters has worked extensively with Manitoba Conservation (Wildlife Branch) assisting with Wildlife Tracking and Capture and Release programs, putting in extensive hours in both Animal Count and Recruitment surveys in both accessible and remote areas.

with Wildlife Tracking and Capture and Release programs, putting in extensive hours in both Animal Count and Recruitment surveys in both accessible and remote areas.

At the end of the day, safety is continues to be the number one priority for Prairie Helicopters Inc. As founders Derek Longley and Mike Persoage insist, safety must come first—not only in manuals, documents and audit reports but in a tangible program that involves every member of the team, every single day. The Prairie team is confident that they have the systems and infrastructure in place to satisfy the standards of any individual or organization requiring their services.

For more information please visit:
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TOXINS PRESENT IN WASTEWATER

BIODISK were having problems with an RBC in Northern Canada trying to meet effluent requirements. The RBC was shipped to site, where the owner did the initial start-up. The plant was designed to accommodate 100 people and the average population of the camp was 67 people based on the following characteristics:

Description	Influent Data
Average Daily Flow	3600 GPD
Peak Hour Flow	4 x Design
Influent BOD5	250 mg/L
TSS	250 mg/L
Ammonia Nitrate	35 mg/L
Outdoor Temperature	-400 C to 400 C
Indoor Temperature	100 to 250 c

The Designed Effluent Characteristics

Parameter	Average Monthly mean Concentration not to exceed
BOD5	15 mg/L
TSS	15 mg/L
NO3-N	23 mg/L
Fecal Coliforms	200 per 100 ml
Temperature of Effluent	100 C



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BIODISK Corporation specializes in the design, manufacture, installation and operation of wastewater treatment units, utilizing the process of rotating biological contactors (RBCs).

BIODISK went to site to inspect the plant, which had been running for six months. The test data from the RBC showed the unit was not operating near the designed parameters, and BIODISK staff suspected that cleaning chemicals were entering the plant and harming biological activity in the plant. Samples taken from the primary clarifier the RBC 4th stage and the final clarifier were sent to an independent third party for analysis.

Table 1: Analytical Results

Sample ID	BOD5 (mg/l)	TSS (mg/l)	NH3-N (mg/l)	PO4-P (mg/l)	Chlorine (mg/l)
1-Primary Clarifier	81	74	58	17.2	0.06
2-RBC 4th Stage	129	126	52	16.3	0.05
3-Final Clarifier	106	63	54	18.8	0.09

The results confirmed our suspicions the test data is showing chlorine in the system which is destructive to the microbial growth in all wastewater treatment plants. Normal wastewater does not contain any levels let alone high levels of chlorine. The chlorine levels were increasing in strength through the RBC which suggests that a strong dose of chlorine was entering the RBC. Chlorine present in any biological process will kill the biology and render the process ineffective. The source of this must be found in order for the treatment process to function properly.

It was determined that the floor cleaning chemicals were entering the RBC on a daily basis and keeping the RBC in a perpetual state of shock. □



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TELSTAR TAKES ON THE CHALLENGES OF THE INDUSTRY

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GREAT NORTHERN GOLD EXPLORATION CORPORATION FOCUSES ON POTENTIAL

Great Northern Gold (GGE, TSX Venture) has joined a number of successful exploration and mining companies in the search for economic mineral resources in the prolific Flin Flon-Snow Lake mining belt in northern Manitoba, through the optioning of the historic Ferro Gold Mine and the adjoining Wekusko gold exploration property. These properties are situated 20 kilometres southeast of Snow Lake. The area contains a number of epigenetic, mesothermal and shear-zone-hosted gold deposits and is highly prospective for additional gold deposits.

Over the past 24 years since Dan Ziehlke, P.Geo, Vice President of Exploration for Great Northern Gold Exploration Corp, staked the Ferro Gold Mine, cumulative exploration by a number of companies has greatly increased the number of known gold occurrences in the area.

To date, three gold deposits have been discovered on the optioned property. The Ferro option includes the Ferro Gold Mine and Gold Dust Zone and the McCafferty gold deposit occurs within the Wekusko option. All listed gold resource estimates are pre-43-101 implementation and are thus not 43-101 compliant. The Ferro Gold Mine is developed to the 525-foot level (160 metre), with 4,100 feet of underground development, on four levels. The deposit has never been mined. The deposit contains a non 43-101 compliant estimate of 87,741 tons grading .422 oz. T/Au (14.5 grams) for 34,321 oz. Au to the 150-metre level (Ash, 1992) and is open to depth. The Gold Dust zone, discovered in 1989, occurs 300 metres southeast of the Ferro and contains a non-43-101 compliant estimate of 115,817 tons of .297 oz./T/Au (10 grams Au) for 34,397 ounces, open to depth.

The McCafferty gold deposit occurs on the Laguna gold trend, a structural zone that extends for at least 12 kilometres and has scattered gold occurrences over

its strike length. Grab samples from the surface occurrences contain up to 17 grams Au. The historic Rex-Laguna mine (not part of the option) is located at the west end of the trend. The McCafferty gold zone was discovered in the 1930s and is located 2.5 miles (4 kilometres) north of the Ferro mine and has been traced for over 1,600 feet (480 metres) on surface. The non compliant 43-101 estimate is 16,761 tonnes grading .47 oz. T/Au (13.89 grams Au). The Laguna trend is the present focus

of detailed multidisciplinary exploration techniques, including geology, geophysics and geochemical soil sampling. A number of promising gold targets have been identified.

The focus of Great Northern Gold is to significantly expand the Wekusko property total gold resource through drilling of multidisciplinary exploration targets in the vicinity of known gold occurrences. In the past two years, over 1,700 geochemical samples have been collected and analyzed.



GREAT NORTHERN GOLD EXPLORATION CORP.

October 2012

(TSXV: GGE)

- High potential gold properties covering over 22,000 acres, with over \$7 million of previous work identifying extensive gold mineralization and high priority targets*
- Located in Flin Flon greenstone belt (FFB) in Northern Manitoba, Canada, with historical production of over 131.9 million tonnes of sulphide ore (Cu-Zn-Au) from 27 deposits, including 1.5 million ounces of gold produced at New Britannia Mine*
- Mining friendly region, Huby is major operator in the FFB with two operating mines, a smelter and over \$700 million committed to new production at Lalor Lake**
- Low cost exploration with properties 20 km from mining town of Snow Lake and close to Flin Flon with infrastructure and human resources
- Management team and directors have strong track record in exploration and capital markets and extensive knowledge of Northern Manitoba geology and mine policy

* NI43-101 Technical Report: Geology, Mineralization and Exploration of the Wekusko Gold Project, Snow Lake Area, Manitoba (NTS63/13), Canada

** <http://www.hudbayminerals.com/> accessed Sep. 5, 2012



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Daniel Ziehlke - Vice President Exploration
Adam Kniec - Chief Financial Officer

Email Contact:

Andrew Cook, VP Operations: arcook@eastlink.ca
Kim Oishi, CEO & Chairman: koishi@grandrockcapital.com

How does MMI apply to DOCA and the Wekusko Gold Property (WGP)?

(Please refer to our 43-101 report filed on SEDAR for full analysis and description)

- the WGP hosts historic and recent discoveries of moderate to high grade gold mineralization in near surface quartz veins
- prospecting and geo-chemical work north of the high grade Ferro and Rex-Laguna trending belts indicate potential for Snow Lake/Britannia type larger tonnage, lower grade deposits
- one of the problems in the past exploration has been that heavy overburden or glacial till covers the high priority areas, reducing the effectiveness of traditional geochemistry.

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Results from this sampling have better defined structures and significant drill targets in this heavily overburdened area, which contains numerous recessive lineaments. Many of these lineaments are believed to be shear zones with high potential for gold mineralization.

Prior to the winter drilling season, the company has commissioned a Lidar survey to be flown over the property in October, which will highlight faulting, recessive zones and old workings.

The main focus the first drill campaign is expected to be a 3-kilometre length of the 12-kilometre-long Laguna gold trend, near the McCafferty gold zone.

Mr. Kim Oishi, President and CEO, commented: "We are fortunate to have the benefit of the previous work done on the Wekusko property and to have Dan Ziehlke – who has been

successfully prospecting the property and region for almost three decades – lead our exploration program. Dan is applying new techniques such as MMI geochemistry to better identify drill targets through the glacial till. Another reason we are confident is that we are close to very well developed infrastructure in a mining friendly environment with the Wekusko property located just east of Wekusko Lake and the New Britannia Mine in Snow Lake that produced almost 1.5 million ounces. Our focus is to find an economic gold deposit leveraging known gold mineralization on the Wekusko property and the tremendous local infrastructure."

Great Northern Gold is well funded for its intended programs, with 20,220,867 shares outstanding. For more information on this exciting new gold play, please contact the company at (778) 997-6228. ☐

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Copper Reef Mining Corporation

Four Major Gold Projects

Located in the Flin Flon-Snow Lake Greenstone Belt

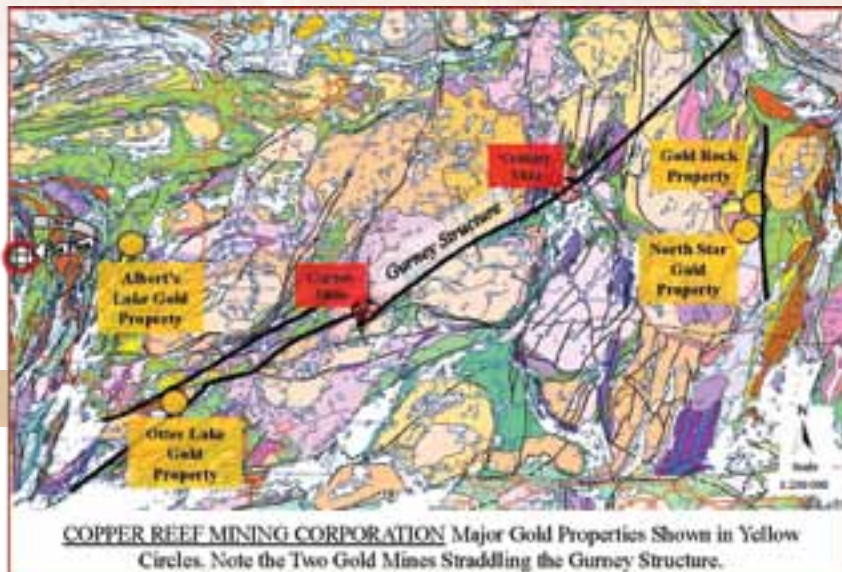


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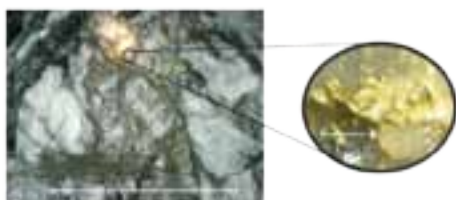
Copper Reef Mining Corporation headquartered in Flin Flon, Manitoba has four fully-owned gold projects. Among the gold projects one is currently being explored. All these four properties: the Albert's Lake, North Star, Gold Rock, and Otter Lake are located in the Flin Flon Greenstone Belt.



Otter Lake Gold Property

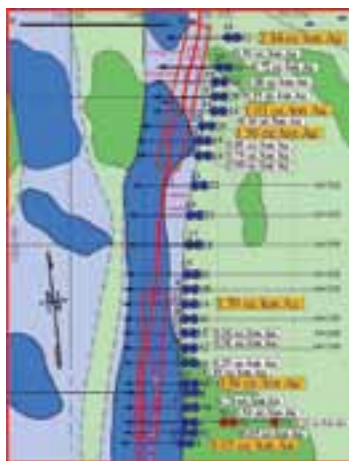
The Otter Lake Gold group of claims is located 6 km northwest of the town of Cranberry Portage and 20 km south of Flin Flon, Manitoba. It consists of three main quartz veins carrying up to 3.33 ounces of Au and 13.9 ounces of Ag.

North Star Gold Property



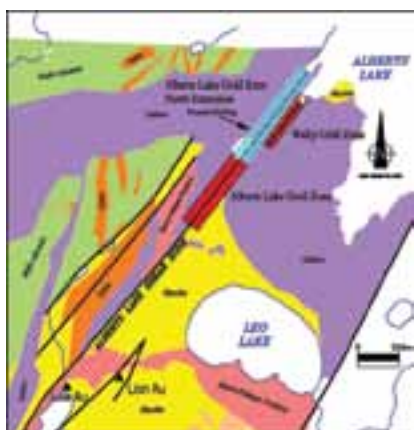
Gold Rock Property

Gold Rock Drillhole Map with Mineralized Intercepts 2010



Selected Drillholes from Gold Rock 2010 Winter Drilling				
Hole #	Au (g/t)	Length (m)	From (m)	To (m)
GR-10-114	14.41	3.3	23.0	26.3
GR-10-115	15.65	1.5	65.0	66.5
GR-10-119	7.79	2.1	114.3	116.4
	16.31	0.9	119.2	120.1
GR-10-122	2.94	3.65	249.05	249.45
GR-10-125	7.01	2.3	143.4	145.7

Albert's Lake Gold Property



Grab Samples from the Parres Vein

Sample #	Au (g/t)	Ag (g/t)	Pb (%)
539410	7.17	39.6	0.13
539401	0.83	6.8	0.11
539402	33.9	165.1	0.59
539403	33.89	179.3	1.86
539404	49.5	245.7	3
539405	114.2	477	0.64
539406	46.61	357.1	0.32
539407	24.61	140	0.65
539408	3.1	5.3	0.01
539409	<.03	1.5	0

Four twin holes from 2011 drilling program confirmed previous drill results on the Albert's Lake Gold Zone. (non 43-101 Resource of 400,000 tn. of 7 g/t Au). Results presented in the table below

		From (m)	To (m)	Interval	Au (g/t)	Ag (g/t)
AL-11-61BTW	Average	253.2	304.7	51.5	1.02	2.4
AL-11-40TW	Average	219.7	250.6	30.9	1.39	2.3
AL-11-57TW	Average	178.5	206.4	27.9	3.46	9.1
	Includes	193.03	205.4	12.37	6.74	18.1
AL-11-72TW	Average	198.1	224.5	26.4	1.14	2.2
	Includes	212.1	213.95	1.85	4.55	7.1

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