

Northern Mining News

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From the Executive Director ...

Great schedule of events planned for NWT Mining Week which gets started Saturday June 2 with the Chamber of Mines miner's picnic at the Yellowknife Multiplex. With the BBQ and children's activities, there's also the WSCC mine rescue competition where the Northwest Territories and Nunavut mines' emergency response teams will compete in various safety tasks. As well, the WSCC will be hosting a trade show at the site.

Several activities are scheduled and for details see the [Mining Week 2018 poster](#) and join us as we celebrate our industry's vital role in creating benefits for the North. Thanks to Chamber of Mines staff and all the volunteers who make this event happen! And all the events are free!

Very encouraging to see Peregrine's Chidliak phase one development assessment represents a "robust, high margin, open-pit mining project with very attractive economics."

On exploration, we're very pleased to see version one of the new interactive Nunavut Assessment Drill Database completed. This project, made possible with support of several partners, brings together hundreds of individual drill hole reports into an interactive tool. There's potential to expand it to include even more Nunavut data which will be valuable as we search for more mineral resources which help us turn rocks in wealth for northern residents, businesses, and governments.

Happy reading! ... Editor

Our Mission: To provide leadership on, and advocate for, responsible and sustainable mineral exploration and development in the NWT and Nunavut.

Mountain Province Diamonds recovers 95 carat gem diamond

Mountain Province Diamonds Inc. announced recovery of a 95-carat rough gem diamond from the Gahcho Kué mine in the Northwest Territories.

The diamond recovered is a white octahedron of top clarity. It is the largest gem quality stone and fourth largest stone recovered from the mine since production commenced just under two years ago.

The diamond was included in the fancies and specials parcel acquired by Mountain Province in the most recent Gahcho Kué production split. “The recovery of this diamond firmly establishes Mountain Province as a reliable producer of exceptional, high quality, Canadian diamonds in very large sizes and bodes well for the future discovery of similar gems,” said Reid Mackie, the company’s vice president diamond marketing,



95-carat stone is currently the largest gem-quality rough recovered from the Gahcho Kué mine. (Credit: Mountain Province)

The 95-carat diamond will be presented at Mountain Province’s upcoming rough diamond tender with viewings to be held from June 11 through 22 in Antwerp, Belgium. [View release](#)

Also, in May, [Mountain Province announced joining Canadamark™](#). Under an agreement with Dominion Diamond Mines, Mountain Province’s customers can certify their qualifying polished diamonds under the Canadamark™ certification program.

The Canadamark program is a strategic initiative of Dominion. Through its participation, Mountain Province joins Dominion in its efforts to assure the supply chain integrity of Canadian diamonds from mine to retail. The Canadamark program verifies that diamonds are natural and untreated, and mined in Canada under a regulatory regime which protects the sustainability of the natural environment and northern people. “We are excited that customers buying our share of the Gahcho Kué production can now apply for Canadamark™ certification. Once they are certified, our customers can confidently demonstrate the Canadian provenance of their goods and use this to enhance and support their individual branding programs,” said Reid Mackie, Mountain Province vice president diamond marketing.

“We are proud to partner with other diamond producers such as Mountain Province to promote the natural beauty of Canadian diamonds through the Canadamark program. Canadian diamonds are highly sought after by discerning buyers around the world who place special value on a product that has been responsibly mined, cut and polished,” said Dominion CEO Patrick Evans.

Baffinland covering Qikiqtani travel costs to Mary River Mine pickup points

Baffinland Iron Mines Corporation is committed to providing employment opportunities for Inuit across the Qikiqtani region. Over the last year, Baffinland worked closely with its partners, including the Qikiqtani Inuit Association (QIA), to improve Inuit involvement in the Mary River Project.

A key goal is to attract potential Baffinland employees from all communities within the Qikiqtani region. To achieve this, Baffinland is committed to covering all costs associated with flights, hotels, and meals related to travel for Baffinland employees from the Qikiqtani region to an existing pick-up point for the Mary River Mine. The existing pick-up locations include Arctic Bay, Clyde River, Hall Beach, Igloolik, Iqaluit, and Pond Inlet. Baffinland will arrange and cover all costs. There is no cost to the community resident.

“We want people across the Qikiqtani region to know that Baffinland is committed to increasing Inuit involvement at the Mary River mine,” says Brian Penney, president and chief executive officer. “We’re committed to covering all expenses related to travel to one of our pick-up points for all Baffinland employees across the Qikiqtani region.”

This program is also extended to Baffinland employees from the Qikiqtani region who may be studying and residing in the Kivalliq or Kitikmeot regions as part any current or future training and apprenticeship initiatives. Contractors working at the Mary River mine will continue to be compensated for travel to Baffinland pick-up points as per their contract arrangements with their respective employer. This re-confirms Baffinland’s commitments outlined in the Inuit Impact Benefit Agreement signed with the QIA under Article 7.6.2.

Baffinland encourages Inuit from across the Baffin region to apply for an exciting career at the Mary River mine. Current job openings can be found at www.Baffinland.com. Those interested in working at Baffinland are encouraged to speak with their local Baffinland or QIA community liaison officer for assistance in applying to positions, and to learn more about available training programs. [View release](#)



Baffinland has announced it will cover costs for Qikiqtani workers to travel to it's Mary River Mine pickup point communties. (Credit: Baffinland)

Dear Ottawa: looking for some traditional Federal vision

Editorial by Gary Vivian, President, NWT & Nunavut Chamber of Mines

“It is inconceivable that all lands north of the 60th parallel, representing 35% of Canada’s land area, which we believe contain a great resource potential, will remain as an undeveloped portion of Canada.”

Strong words indeed, and I wish they were mine. Rather they are the words of Liberal Minister of Northern Affairs and National Resources, the Right Honourable Arthur Laing in 1966, as he addressed Canadian Institute of Mining members in Edmonton. His visionary speech included a very key message: “Very often the discovery of one mine ... will lead to more, but as long as we continue to do nothing to replace that activity during the time allowed we will continue to experience the social upheavals and personal hardships that result when the resource comes to an end.” Wise words indeed!

Now here we are, 50 years later, apprehensively awaiting a new Federal government vision for the north and for our minerals industry. One might expect Federal support for the keystone of our northern economies should come easily. After all, mining continues to make huge strides in northern and Indigenous jobs and business, and in tax and royalty streams to public and Indigenous governments. Industry does this to high environmental standards under land claims based legislation and a co-management system.

Instead, we see announcements that Ottawa has denied funding for game changing road and port infrastructure projects. We see the Federal environment minister sticking to her guns that less than 10% of the north is protected, when we all know development is blocked on over 30% of the NWT alone. We see mineral exploration investment continuing to flat line for the tenth year in a row. And the latest Conference Board of Canada’s dire warnings and grim outlook for the NWT economy echoes the minister’s prophetic message that if we continue to do nothing, “we will continue to experience the social upheavals and personal hardships that result when the resource comes to an end.”

Mining doesn’t just happen. Even with attractive rocks and stable and certain legislation, it takes years and millions of dollars of risky exploration to get success. Risky because only 1 in 1,000 projects becomes a mine (the odds of winning at Bingo are better than that), and even when you’ve got a mine, a drop in the market price can shut you down. This has always been a risky business and that’s why we need governments’ support.

In a jurisdiction with great geology, and with a mining industry providing some of the greatest socio-economic performance in the country, one hopes the new Federal Arctic Policy might take another strong line from the esteemed former Liberal Minister Laing: “I say to you, we welcome those searching for the resource wealth of the North, and I mean this not only as a friendly gesture in the hope that your success will make my task easier. Canada must expand and grow and my government, through the Department of Northern Affairs and National Resources, is endeavouring in many ways to assist private industry on to the road to success.”

Over to you, Prime Minister Justin Trudeau.

See the [editorial](#) published by Northern News Services

Avalon re-activates Nechalacho on growing Neodymium demand

Avalon Advanced Materials announced it will re-activate its 100% owned Nechalacho rare earth elements project at Thor Lake, Northwest Territories, in 2018.

The move is due to strong demand for the ‘magnet rare earths’ neodymium and praseodymium, Avalon added.

Rare earth magnets remain vital to many clean technology applications requiring high efficiency, lightweight electric motors, and generators. This includes motors for electric vehicles, which can require 5-10kg of rare earth magnets per vehicle. The growing market for electric vehicles, especially in China, has created new demand for these high strength magnets, resulting in rising prices for neodymium and praseodymium, both now selling for over \$100/kg in oxide form. The world still largely relies on China for rare earth supply, yet China has reportedly become an importer of neodymium concentrates.

While Avalon’s 2013 feasibility study focused on the underground accessible, heavy rare earth-rich basal zone of the Nechalacho deposit, the property hosts several other easily accessible, near-surface, rare earth mineralized zones including high grade, neodymium-praseodymium rich resources.



Lithium materials supply chain (Credit: Avalon Advanced Materials)

Avalon plans to investigate the possibility of developing Nechalacho as a near-term, small-scale producer of Nd-Pr rich concentrates for export involving potentially a simple mining, crushing, and optical sorting operation. This has significant environmental advantages over the already-approved project plan.

The company is currently participating in an independent scoping study, supported in part by the territorial government, on the East Arm-Yellowknife Road and hydro infrastructure corridor in order to provide clean power, year-round access to site and greatly simplified project logistics.

It would also provide significant cost savings to Nechalacho and northern communities such as Lutsel K'e through improved access. This is driven in part by federal government initiatives to reduce greenhouse gas emissions that would result from replacing diesel power with clean hydro power. [View release](#)

NWT Mining Week underway!

NWT Mining Week, the cornerstone of the territory's economy and a rich and diverse part of its history, begins June 2 and continues through June 9.

The events get underway Saturday June 2 with the NWT & Nunavut Chamber of Mines Miner's Picnic from noon to 3 pm. at the Yellowknife Multiplex fieldhouse parking area. Join us for hamburgers and hotdogs, and activities for children. The picnic is sponsored by our three diamond mines, Ekati, Diavik, and Gahcho Kué. For details, see the [mining week poster](#).

The event coincides with the 61st annual WSCC mine rescue competition, also being held at the Multiplex. Click [here](#) for the WSCC mine rescue competition media release. Other mining week events include rock walks showcasing local geology, Yellowknife Farmers Market geology tent, Northwest Territories Geological Survey tour, and a Resources and Energy Development Information (REDI) event.



Agnico Eagle reports Nunavut projects progressing as planned

Meadowbank – production affected by adverse weather conditions and ore hardness

Agnico Eagle reports production costs per tonne in the first quarter of 2018 increased when compared to the prior-year period primarily due to lower throughput levels and the timing of unsold inventory. Production costs per ounce in the first quarter of 2018 increased when compared to the prior-year period due to reasons described above, the strengthening of the Canadian dollar relative to the U.S. dollar between periods and lower gold production.

Minesite costs per tonne in the first quarter of 2018 increased when compared to the prior-year period due to the reasons described above. Total cash costs per ounce in the first quarter of 2018 increased when compared to the prior-year period due to the reasons described above. Gold production in the first quarter of 2018 decreased when compared to the prior-year period due to harder ore and reduced access to the pits due to adverse winter weather conditions. Gold production guidance remains unchanged at 220,000 ounces for the full year 2018.

The 100% owned Meadowbank mine in Nunavut achieved commercial production in March 2010. The mine produced its two millionth ounce of gold in 2015.

Amaruq – permitting, development on budget and schedule for Q3 2019 start-up

Agnico Eagle has a 100% interest in the Amaruq satellite deposit, approximately 50 kilometres northwest of the Meadowbank mine. Amaruq is situated on a 99,878-hectare property, almost adjacent to the 68,735-hectare Meadowbank property. The initial mining plan at Amaruq contemplates production of approximately 2.1 million ounces of gold between 2019 and 2024, leaving approximately 60% of the current mineral reserve and mineral resource base uncovered by the mine plan. Pre-mining activities are expected to start in 2018 at the Whale Tail deposit, which is a satellite pit that will produce ore to feed the Meadowbank mill. The Amaruq project remains on budget with capital expenditures in 2018 forecast to be approximately \$175 million.

Meliadine - mine development and construction schedule progressing on plan and on budget

Located near Rankin Inlet, Nunavut, Canada, the Meliadine project was acquired in July 2010, and is Agnico Eagle's largest gold deposit in terms of mineral resources. The company owns 100% of the 111,757-hectare property. Meliadine project is expected to begin operations in the second quarter of 2019.

Recent exploration drill results from the Whale Tail deposit, Amaruq project

The Whale Tail deposit has been defined over at least 2.3 kilometres of strike length and extends from surface to 915 metres depth.

Hole AMQ18-1677 is a significant recent deep hole that had multiple intercepts, including some narrow, very high grades between 540 and 627 metres depth. The first three intercepts were in quartz veins in ultramafic host rocks, in a parallel structure approximately 50 metres north of the iron formation that hosts the main Whale Tail mineralized zone and included 23.1 g/t gold over 2.8 metres at 540 metres depth, 18.6 g/t gold over 2.9 metres at 580 metres depth and 16.6 g/t gold over 3.3 metres at 598 metres depth. A lower intercept from the same drill hole – 6.4 g/t gold over 7.2 metres at 627 metres depth – was in the main Whale Tail mineralized unit.

[See full release details, including first quarter financial results.](#)



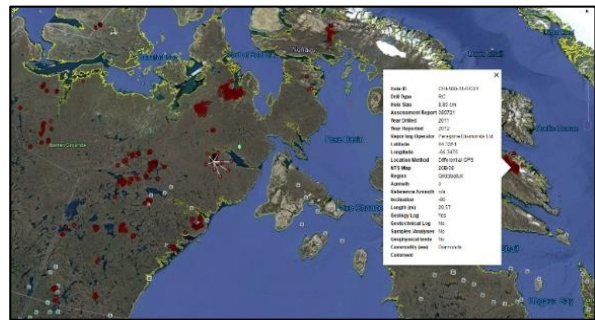
Agnico Eagle's Amaruq satellite deposit, located about 50 kms northwest of the company's Meadowbank mine, is scheduled to begin production in 2019. Pictured is Amaruq's core shack. (Credit: Agnico Eagle)

Nunavut drill hole data brought into one interactive location

For the first time ever, public geoscience data from several mineral exploration locations across Nunavut has been brought together into an interactive format, called the Nunavut Assessment Drill Database (NADD).

With the support of Natural Resources Canada, the Chamber of Mines completed and launched NADD v.1, a compilation of drill hole data from mineral assessment reports filed as representation work with Indigenous and Northern Affairs Canada (INAC) in Nunavut. NADD provides geoscientists and other users with data that is readily searchable and can be displayed in a geographic browser such as Google Earth. NADD's core products include an Excel spreadsheet and an interactive Google Earth file. A total of 1,584 drill holes were extracted from 400 mineral assessment reports filed from 2007 to 2015. The Excel spreadsheet is very simply imported into GIS software and the Google Earth KML file can be easily browsed.

“This elegantly simple and highly effective database will be a valuable resource for mineral explorationists, raising public awareness, community engagement, and land use planning,” said NWT & Nunavut Chamber of Mines President Gary Vivian. “We’re pleased to see this continued investment in northern geoscience which is key to unlocking our vast mineral resources wealth,” he added. NADD user files are posted on the Chamber of Mines web site in the [Resources](#) section under Geoscience.



NADD unites data from 1,584 drill holes from 400 reports (2007-2015). Data can be displayed in a geographic browser such as Google Earth.

“Nunavut mineral assessment reports contain over 75 years of valuable geological data which, until now, had never been assembled into a usable format. By providing a geographic browser and normalizing drill hole coordinates, the Chamber has produced a modern, effective, and impressive exploration tool for low cost. It’s especially gratifying that this project delivered exceptional value and was completed from start to finish in about 90 days,” said David Willis, Manager, Lands & Community, Peregrine Diamonds Ltd. [Peregrine Diamonds](#) assisted by providing a portion of the digital data for the NADD.

The NADD project was fully funded by the Geological Survey of Canada through a Natural Resources Canada [Geo-mapping for Energy and Minerals](#) (GEM) grant. “NADD significantly enhances accessibility of existing public information. This first version provides the foundation to add drilling data from all 4,000 assessment reports dating back to 1930, and any new information as it becomes available,” said Mr. Vivian. “We want to thank NRCan and their GEM team for their vision and support for this project.”

NADD data compiled includes drill hole identification name/number, type (core or chip), size, assessment report, year drilled/reported and by whom, map coordinates, geology log, geotechnical log, samples and analyses, geophysical tests, and commodities sought.

Click [here](#) to view this chamber of mines media release.

Chidliak has ‘attractive economics’, reports Peregrine Diamonds

Project’s preliminary economic assessment raises phase one production 44%

Peregrine Diamonds announced the positive outcome of an updated independent Preliminary Economic Assessment (PEA) for the Chidliak Phase One Diamond Development incorporating the 2018 expanded diamond resource at the CH-6 and CH-7 kimberlite pipes on the company’s 100%-owned Chidliak Diamond Project on Baffin Island, Nunavut, Canada.

The updated PEA highlights that the CP1D represents a robust, high margin, open-pit mining project with very attractive economics.

At Chidliak, the company has discovered 74 kimberlites to date, with eight having been identified as potentially economic through drilling and microdiamond analysis, while other kimberlite pipes require additional work to determine their economic potential. The company owns all of the diamond marketing and sales rights and there are no non-government royalties or other encumbrances on diamond production. The updated PEA utilizes the expanded Chidliak Inferred Mineral Resource that was announced on February 15, 2018. Highlights of this expanded resource include:

- CH-6 Inferred Mineral Resource of 17.96 million carats in 7.46 million tonnes to 525 metres below surface (“mbs”) at an average grade of 2.41 carats per tonne (“cpt”) or 241 carats per hundred tonnes (“cpht”)
- Inferred Mineral Resource tonnage at CH-6 increased 61% from 4.64 million to 7.46 million tonnes
- CH-6 contained carats increased by 58% from 11.39 million to 17.96 million carats;
- High-grade KIM-L domain with a grade of 4.49 cpt (449 cpht) now comprises 17% by volume of the updated CH-6 resource
- Total Phase One Diamond Development Inferred Mineral Resource at CH-6 and CH-7 now exceeds 22 million carats

The updated PEA envisages a mine life of approximately 13 years, producing from an open pit at the CH-6 kimberlite pipe for nine years, followed by production via an open pit at the CH-7 kimberlite. Highlights include:

- Pre-tax NPV(7.5) of \$1069 million and a pre-tax Internal Rate of Return (“IRR”) of 38.6%
- After-tax NPV(7.5) of \$679 million and an after-tax IRR of 31.1%
- Total Life of Mine (“LOM”) pre-tax Free Cash Flow of \$2,043 million
- After-tax payback period of 2.2 years; LOM of 13 years
- Pre-production capital requirement of approximately \$455 million, including \$95 million for the access road from Iqaluit and \$55 million in contingency
- Average LOM strip ratio of 6.6:1 (average across the combined CH-6 and CH-7 open pits); Mining to a depth of 300 mbs at CH-6

All dollar amounts are in Canadian dollars unless otherwise stated

[View release](#)

De Beers STEM scholarships expanded to University of Calgary

Six new HeForShe Engineering and Science entrance scholarships to be awarded

De Beers Canada announced, as a HeForShe Thematic Champion, six new STEM-related scholarships for female students are now available at the University of Calgary. HeForShe is the United Nations solidarity movement engaging male leaders as champions for gender equality.

These new scholarships are part of the De Beers' commitment to providing a total of USD\$504,000 in STEM scholarships across Canada by 2020 that are dedicated to female students with an interest in full-time studies in Science, Technology, Engineering and Mathematics (STEM).

Four scholarships will be awarded to undergraduate students entering the Schulich School of Engineering, while two scholarships will be awarded to undergraduate students entering the Faculty of Science. A unique component to the program is a commitment to identify potential female indigenous applicants from the Northwest Territories and northern Ontario.

De Beers Canada Chief Executive Officer Kim Truter said a Calgary-based opportunity for female applicants was important to the company. "Our goal at De Beers Canada is to make a meaningful difference where we operate or have a business presence, so growing our partnership with HeForShe and the University of Calgary made sense on so many levels as our Canadian Operational Support Centre was established in Calgary in 2016," said Truter. "Calgary is also a destination for many of the students from the areas where we operate our mines in the Northwest Territories and northern Ontario."

The first recipients will be drawn from the current round of female applicants hoping to enter first-year studies this September at the University of Calgary, with additional support available in future years for other incoming students. The STEM scholarships are just one component of the De Beers-UN Women partnership that will see a total of USD \$600,000 invested by De Beers in Canada through 2020, as additional activities and investments are planned across Canada over the next three years. [View release](#)



De Beers Canada has announced six new Science, Technology, Engineering and Mathematics (STEM) scholarships for female students. Credit: De Beers Canada)

Mountain Province announces new president and CEO

Mountain Province Diamonds announced Stuart Brown will be the company's new president and chief executive officer with effect from July 1, 2018.

Brown has over 25 years of experience in the diamond industry, where he has gained a wealth of experience across all aspects throughout the diamond pipeline from exploration, mine development and operations to the selling and marketing of diamonds. In 2006, after numerous roles within De Beers over a period of 14 years, Brown was appointed as the De Beers Group chief financial officer. He held that position for over five years, and in 2010 was appointed joint acting CEO to run De Beers' global activities in addition to his CFO duties. Since September 2013, he has been the CEO of publicly-listed Firestone Diamonds Plc, a diamond producer in Lesotho. Brown was responsible for securing the funding and building the team that delivered the successful construction and transition to production of Firestone's Lihobong diamond mine. Brown has an enviable track record of leading business transformation to develop lean, agile and high performing organizations. He holds a Bachelor of Accounting Science from the University of South Africa.

Jonathan Comerford, Mountain Province's non-executive chairman, commented, "We are very pleased to announce Stuart Brown as our new CEO. The board conducted an exhaustive search for the role, and Stuart was a stand out candidate for the depth of his background in the diamond sector. Stuart has incredible experience in the space, having held the highest positions in De Beers. He is also very familiar with the Gahcho Kué diamond mine and its team from his time with De Beers. Mountain Province is building a strong team to execute our strategy of exploration and mining extension, and we are confident that Stuart's experience, both in De Beers and with Firestone, and his standing in the diamond industry will add substantial value to the company." [View release](#)

Kennady North winter exploration program

Also, in May, the company announced details on its winter drilling program at their Kennady North Project. Kennady was recently acquired through a business combination with Kennady Diamonds Inc.

Three drill rigs have been active on the program, with one drill dedicated to delineation drilling on Faraday 2, a second drill dedicated to geotechnical drilling on the Faraday kimberlites, and the third drill testing exploration targets within the Kelvin-Faraday Corridor. A total of 38 drill holes were completed for a program total of 6,826 metres.

Delineation drilling on the northwest extension of the Faraday 2 kimberlite has been completed. The northwest extension, discovered in 2017, extends the Faraday 2 kimberlite by over 150 metres, with geologic units in the inferred resource continuing into the northwest extension (see Kennady Diamonds news releases dated September 11, 2017 and March 7, 2018). The completed drilling is expected to advance the Faraday 2 pipe shell model to an inferred level of confidence. [View release and tables](#)

Quarter results

Mountain Province also announced its [financial and operating results](#) for the quarter ended March 31, 2018. Earnings from mine operations of \$24.6 million and net income of \$0.7 million or \$0.00 per share for the first quarter of 2018 with adjusted EBITDA of \$33.2 million.

Total sales of \$67 million (US\$52 million) in the first quarter of 2018. Revenue was realized through the first two tender sales of the 2018 year. Average realization in the first quarter was \$126 Canadian dollars per carat sold (US\$99 per carat). The third sale of the year began at the end of the quarter and closed in early April, yielding \$33.3 million (US\$26.4 million) in tender sale proceeds.

Approximately 786,000 tonnes of ore were treated through the process plant and 1,641,000 carats recovered, on a 100% basis, for an average recovered grade of 2.09 carats per tonne (“cpt”), in line with budget. The company’s 49% attributable share of diamond production for the three months ended March 31, 2018 was approximately 804,000 carats.

Cash costs of production, including capitalized stripping costs¹, for the three months ended March 31, 2018 of \$76 per tonne of ore processed and \$37 per carat recovered.

Pioneering waste removal at Hearne continued throughout the quarter, and in April the first ore was mined from the Hearne pit. The plant will begin processing Hearne ore during this second quarter of 2018.

David Whittle, the company’s interim president and CEO, commented, “Mountain Province recorded a solid start to the year, generating \$33.2 million in adjusted EBITDA in a two sale quarter,” he said.

“We remain on pace to achieve our production guidance for the year. Rough diamond markets in general continued to firm notably through the quarter, with strong demand and price increases reported

across all product categories, supported by robust retail jewellery sales reported from both the US and Asian markets. Ending the quarter with \$113.5 million in net working capital, and with our US\$50 million revolver remaining undrawn, our balance sheet is strong and growing.”



Click on image for Mountain Province’s latest corporate presentation.

Canadian Zinc reports new president and CEO

Canadian Zinc announced R.J. (Don) MacDonald has been appointed as president of the company, effective May 16, 2018, and that on approval of the RCF financing by the shareholders, expected to occur at the AGM on June 27, 2018, MacDonald will also assume the role of CEO.

MacDonald is a CPA, CA, with bachelor and master's degrees in engineering, and has been involved in the financing, development and/or operation of over 20 mines in North and South America over his career. He served as chief financial officer of Quadra FNX (now KGHM International) from 2010 to 2017 and of NovaGold Resources Inc. from 2003 to 2010. Most recently, he was acting president and CEO of KGHM International.

John Kearney, Canadian Zinc's Chairman and CEO, commented, "We are delighted to have been able to recruit Don MacDonald as President, and to take over as CEO, as the company moves forward with the financing and development of the Prairie Creek Mine. Don has great experience with the financing and construction of mining projects, and his appointment represents the next step in enhancing the senior management team that will put the Prairie Creek Mine into production".

Q1 results and operations update

Canadian Zinc reported its interim financial results and development activities for the three-month period ended March 31, 2018.

- \$20M RCF equity financing at \$0.20/share
- Cash at March 31, 2018 \$10.5M
- Plan to pay off all US\$10M debt
- Loss for Q1 2018 \$1.8M

RCF provides \$20M equity financing

On May 15, 2018, the company announced it had entered into an equity financing agreement with Resource Capital Funds (RCF) pursuant to which RCF has agreed, subject to shareholder and regulatory approvals, to purchase \$20M in units, each unit consisting of one common share and a half share purchase warrant, at \$0.20 per unit, with each full warrant exercisable to purchase one share at \$0.25 per share on or before December 31, 2018. The use of proceeds of the equity financing will include repayment of the US\$10M bridge loan advanced by RCF in December 2017, the ongoing development of the Prairie Creek Project and general working capital. For more details, see the company's [first quarter release](#).

\$20M financing

Canadian Zinc also announced that it has entered into an [equity financing agreement](#) with RCF VI CAD LLC, a wholly owned subsidiary of Resource Capital Fund VI L.P, pursuant to which RCF VI LLC has agreed, subject to shareholder and regulatory approvals, to purchase 100 million shares of Canadian Zinc at \$0.20 per share, for gross proceeds of \$20 million.

Sabina Gold & Silver reports quarter results

\$86 million in cash and short-term investments, pre-development activities commenced

Sabina Gold & Silver reports [interim financial results](#) for the quarter ended March 31, 2018.

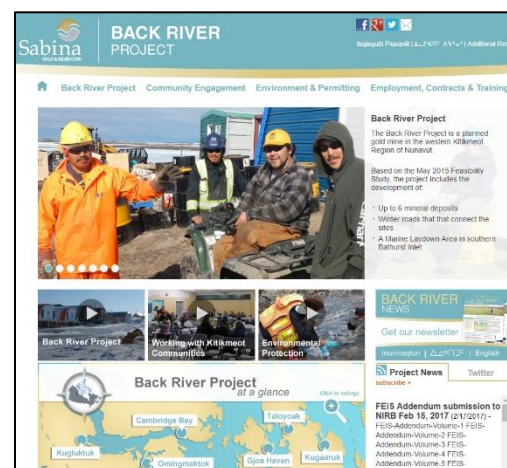
“The first quarter was a busy one for Sabina,” said Bruce McLeod, the company’s president and CEO.

“We welcomed a new significant shareholder in Zhaojin International Mining Co., Ltd., we received our type B water licence, the authorization required to do the pre-development infrastructure improvements, we launched our 2018 exploration drilling campaign and commenced pre-development activities. Pre-development work focused on the marine laydown area in Bathurst Inlet to prepare it for receiving equipment and supplies. Additionally, we continued to assess and advance project financing alternatives. And shortly after the quarter, negotiations were concluded with the Kitikmeot Inuit Association on land tenure and Inuit impact and benefits. We look forward to reporting further exploration results and providing a project update through the coming months.”

Highlights:

- The company had cash and cash equivalents and short-term investments of \$86.0 million at March 31, 2018
- On January 19, 2018, the company completed a financing of 24,930,000 common shares with Zhaojin International Mining Co., Ltd. at \$2.65 per share for gross proceeds of \$66.1 million
- In February, the company announced 2018 budget plans of \$83 million focusing on the commencement of pre-development infrastructure improvements at the Back River Project as well as exploration of potentially high value targets
- Drilling commenced in early March 2018 with a first phase 6,000-meter program at the Goose property
- The company received its Type B Water License from the Nunavut Water Board, a key authorization to complete work planned for the Back River project in 2018
- Subsequent to the quarter, on April 23, 2018, the company completed the definitive framework agreement with the Kitikmeot Inuit Association (the Nunavut Landowner) on terms consistent with the binding term sheet signed in October of 2017

For the quarter ended March 31, 2018, the company reported a net loss of \$2.6 million, compared to \$1.4 million in the same period of 2017. The difference was largely the result of higher share-based payments, professional fees, and deferred income taxes, partially offset by an increase in net finance income.



Exploration & development news briefs

(see [website](#) for more information)

Aston Bay Holdings Ltd. announced the results of 2018 drill target generation from its 2017 high-resolution airborne gravity gradiometry survey over the Seal Zinc deposit and prospect. The 2017 survey covered 15,327 line kilometres (km) over the >1,000,000 acre (4,145 km²) Aston Bay Property in the Polaris mining district, Somerset Island, Nunavut. Several significant untested anomalies were identified adjacent to and along strike from the Seal deposit, the subject of this release, and target refinement is ongoing in advance of the planned summer 2018 drill campaign. Significant gravity anomalies spatially associated with high-grade copper mineralization were also identified near the Storm Copper prospect and along a mineralized trend extending 80 km to the south.

Canadian Zinc Corporation announces that at its upcoming annual general and special meeting to be held on June 27, 2018, shareholders will be asked to approve a statutory Arrangement to reorganize the company into a separate publicly-listed holding corporation, to be named NorZinc Ltd., and a directly held, wholly-owned, operating subsidiary. Currently the company's flagship asset, the Prairie Creek Zinc-Lead-Silver project, is held directly by the public company Canadian Zinc Corporation. The objective of the arrangement is to structure the assets of the Company to facilitate future project financing of the Prairie Creek project. Discussions to date with financial institutions have confirmed that the opportunity of raising project debt financing to complete the development and construction of the Prairie Creek mine would require that the Prairie Creek project be held in a separate stand-alone entity, and that the public parent company be structured to act as project sponsor. [View release](#)

Dunnedin Ventures Inc. reports its ongoing 2018 drill program at its 100% owned Kahuna project, Nunavut. The company has drill-tested five of approximately 40 targets (13%), with potentially diamond-bearing kimberlite intercepted at two targets. Inclement weather limited drilling and confined operations to the vicinity of the company's newly constructed camp and the company's best kimberlite pipe-type targets with the highest associated diamond indicator minerals ("DIM") have not yet been tested. Dunnedin plans to return the property in six to eight weeks to drill the remaining high priority targets. Of the five targets drilled, two were high count DIM-in-till targets, both of which yielded significant extensions to the known high-grade diamond-bearing PST and O7KD-24 kimberlite dikes. [View release](#)

Nighthawk Gold Corp. summarized results from its ongoing preliminary metallurgical test work on the Colomac Gold Project ("Colomac"). Findings reveal: a relatively uniform hardness for material tested to-date; that the rock is amenable to all standard gold recovery technologies; and using a combination of gravity and

cyanide leach recovery processes, testing showed that gold recoveries range from 96.5% on the lower-grade material and up to 98.0% on the higher-grade rock (see press releases April 19, 2017 and February 21, 2018), representing a significant increase in recovery over historic production results of 88.1% (1994 to 1997). Two initial bottle roll leach tests were carried out to assess cyanide heap leach feasibility. [View release](#)

North Arrow Minerals Inc. announces that, pursuant to North Arrow's stock option plan and TSX Venture Exchange Policy 4.4, the company has amended 2,075,000 incentive stock options previously granted to Directors, Officers, and consultants to the company. The amendment is to extend the expiry date of the options from May 10, 2018 to May 10, 2023. Each incentive stock option is exercisable to acquire one common share of North Arrow at \$0.27 per share. [View release](#)

North Arrow Minerals Inc. has arranged a non-brokered private placement of flow-through common shares at a price of \$0.20 per Flow-Through Share and, concurrently, a non-brokered private placement of non-flow-through units at a price of \$0.17 per Non-Flow-Through Unit for combined total gross proceeds of approximately \$3,000,000. Each Non-Flow-Through Unit will consist of a single non-flow-through common share of the company and one transferable non-flow-through common share purchase warrant (each a "Warrant"). Each Warrant will entitle the holder to purchase one additional Non-Flow-Through Share at a price of \$0.30 for a period of 24 months following the closing of the private placement. Proceeds from the private placement will be used to advance North Arrow's Canadian diamond projects including: i) the first ever drilling program in July 2018 at the Mel Project, Nunavut, testing diamondiferous kimberlite discovered last year; ii) the Loki Project, Northwest Territories where North Arrow recently discovered the first new kimberlite in the Lac de Gras region in over five years; and iii) continuing evaluation of the Q1-4 diamondiferous kimberlite at the Naujaat Project, Nunavut. [View release](#)

Osisko Metals reports intersecting 5.47% zinc lead over 10.3 metres at Pine Point in its assay results from the first 16 shallow drill holes of the 129-hole winter drill program at the Pine Point Project. Drill hole EM-18-PP-016 intersected 4.86% Zn and 0.61% Pb over 10.30 metres within the East Mill Zone, a 7.6-kilometre trend of tabular-style, near-surface mineralization that extends to the east from the electrical substation (see Osisko Metals website for additional geological background). Additional highlights are listed below in Table 1 and details are provided in Tables 2 & 3. These initial results are reported from a portion of the L-36 deposit, located in the East Mill Zone, which hosts unclassified historical resources reported by Cominco Ltd. (1988) of 2.8 M tonnes grading 3.3% zinc and 1.5% Pb. Near-surface zinc and lead sulphides were

intersected in 14 of the 16 holes above 60 metre depths.

[View release](#)

Sabina Gold & Silver Corp announced results from an additional two drill holes, testing the Llama Extension Target at its 100%-owned Back River gold project in Nunavut, Canada. Two drill holes, 18GSE533 and 18GSE535 targeted the area of high grade mineralization that is located down plunge of the current Llama resource where previously reported intersections in drill hole 18GSE530 included 15.67g/t Au over 23.25m and 9.48g/t Au over 38.55m in drill hole 17GSE516B (interpreted to be the fold nose of the Llama synform). See news releases April 6th, 2018 and September 5th, 2017.

Drill hole 18GSE535 was completed approximately 60 meters up plunge of previously reported drill hole 18GSE530 and over 120 meters up plunge of drill hole 17GSE516B and intersected, 28.95g/t Au over 5.65m within a greater than 20m interval of strongly altered and mineralized host stratigraphy. Further high grade intercepts hosted within this same interval are highlighted as 24.72g/t over 2.20m, 25g/t over 1.00m and 15.75g/t over 0.60m, demonstrating the tremendous potential for additional high grade resource growth within the Llama trend. Drill hole 18GSE533, an overcut of drill hole 17GSE516B, intersected high grade gold values that included 47.04g/t Au over 0.55m and 15.43g/t Au over 3.15m including 34.48g/t Au over 1.25m, all within a total interval of greater than 22m of strongly altered silicate and oxide iron formation. The first phase drilling of over 6000m has been completed with on-site core processing to be finalized during the first week of May 2018. Targeted drilling was completed at the Llama Extension Target, the Umwelt Vault, the Goose Main Trend and additional targets. Results are pending and will be released upon receipt. Phase 2 drilling is planned for post ice break up and meterage will be based upon the allocation of funding to be determined in the coming weeks. [View release](#)

Sabina Gold & Silver Corp announce the closing of the previously announced non-brokered private placement (the "Financing"). The offering was comprised of 3,355,500 flow-through common shares (the "Flow-Through Common Shares") at a price of \$2.00 per share for gross proceeds of approximately \$6.7 million. "This financing enables us to use flow-through dollars rather than the hard dollars allocated for continued development activities at Back River," said Bruce McLeod, President & CEO. "This funding provides for an additional 10,000 meters at Back River to follow up on successes from this year's spring program as well as last year's program." [View release](#)

Seabridge Gold filed financial statements and Management's Discussion and Analysis for the three months ended March 31. During the three month period ended March 31, 2018 Seabridge posted a net loss of \$10.7 million (\$0.18 per share) compared to a loss of \$1.8 million (\$0.03 per share) for the same period in 2017. During the 1st quarter, Seabridge invested \$4.3 million in

mineral interests, primarily at Courageous Lake and KSM, compared to \$2.4 million during the same period last year. At March 31, 2018, net working capital was \$18.3 million compared to \$19.6 million at December 31, 2017.

Seabridge Gold announced winter drilling at its 100%-owned Courageous Lake Project has successfully identified two new gold zones, Olsen and Marsh Pond, with widths and grades suggesting they could make a contribution to project resources similar to the Walsh Lake Deposit discovered by Seabridge in 2012. This year's drill program also found two other target zones that, with additional work, could potentially contribute to the resource base at the Courageous Lake Project. Three targets did not return positive results. Walsh Lake has a near surface inferred resource of 482,000 ounces of gold (4.6 million tonnes grading 3.24 g/T). [View release](#), including assay results from the four most prospective targets [here](#).

Silver Range Resources Ltd. announced in April, in Nunavut, an exploration program is scheduled to begin in July covering prospective stratigraphy including Meso-Archean conglomerate-hosted, high grade gold occurrences similar in style to that found in Australia's Pilbara region by NOVO Resources Corp. A compilation of historical geological mapping and sampling by the Geological Survey of Canada, the NWT Geoscience Office and the Nunavut Geoscience Office has identified a 120 kilometre long favourable rock unit with gold occurrences similar in style to that found at Silver Range's Tree River project. [View release](#)

TerraX Minerals Inc announced assay results from the remaining 11 holes drilled at the Yellowknife City Gold project this winter. Four of these holes (1,170 m) were drilled on the high-grade Crestaurum gold bearing structure to test whether gold mineralization continued to depth. All four holes hit mineralized structure, with two holes containing visible gold. All holes intersected significant gold with selected intervals of:

- 8.84 g/t Au over 2.49 m and 5.38 g/t Au over 0.63 m in hole TCR18-076
- 3.08 g/t Au over 2.80m, and 5.57 g/t Au over 2.06 m, in hole TCR18-078
- 13.30 g/t Au over 1.24 m, and 4.41 g/t Au over 0.80 m, in hole TCR18-079
- 3.86 g/t Au over 0.56 m in hole TCR18-077

The upper portion of the Crestaurum structure has been previously drilled with 187 drill holes over 1.4 kilometers of strike length, from surface down to a depth of approximately 100-150 meters depth, outlining a lode style shear and vein deposit (including 5.00 m @ 62.90 g/t Au, news release October 2, 2013). Although the structure is very continuous the high grade lodes are more discrete and these initial widespread deeper holes were designed to intersect structure to determine whether there was probability of high grade lodes continuing at depth potentially doubling the size of the mineralized zones.

[View release](#)

Calendar of events

- **Mining Week is June 2-9.** Events include the NWT & Nunavut Chamber of Mines Miners Picnic which gets underway at the multiplex Saturday June 2 at noon. [Poster of events](#)
- **Resources for Future Generations (RFG2018)**, June 16-21, 2018, Vancouver Convention Centre. Organizers are calling for sessions and proposals at: www.RFG2018.org. Resources for Future Generations—RFG2018—will examine three critical resources—energy, minerals, and water—in the context of the earth, environment, education, society, and the needs and roles of future generations.
- **2nd Annual Arctic Indigenous Investment Conference 2018**, August 9&10, Yellowknife, NT. <http://yfncc.ca/aiic2018/>. This event will highlight and promote northern First Nation Aboriginal Development Corporations and Aboriginal businesses.
- **46th Annual Yellowknife Geoscience Forum**, the North's largest combined tradeshow and conference, November 20-22, 2018 in Yellowknife, NT. www.miningnorth.com

Welcome new members!

On behalf of our members, we would like to welcome the following new member to the Chamber of Mines. We encourage your support of their business. Please join us in a warm welcome to:

EMW Industrial Ltd. Based in Saltcoats, Saskatchewan, EMW is a construction company/structures supplier which also offers field and operational support. www.emw.ca

Isonor Inc. Based in Spencerville, Ontario, Isonor provides preinsulated pipe for potable water, heating, and cooling applications, and related technical, design, and training. www.isonor.ca


Charter Connexions. Based in Winnipeg, Manitoba, Charter Connexions is an air transportation service company providing charter options to mining clients. www.charterconnexions.com

Member news releases this past month

- 31 May 2018 [Baffinland covering Qikiqtani travel costs to Mary River Mine pickup points](#)
- 30 May 2018 [Mountain Province Diamonds recovers of 95 carat gem diamond](#)
- 29 May 2018 [Canadian Zinc corporate reorganisation](#)
- 29 May 2018 [Mountain Province Diamonds joins CanadamarkTM](#)
- 24 May 2018 [De Beers STEM scholarships expanded to University of Calgary](#)
- 24 May 2018 [Mountain Province Diamonds results of fourth diamond sale of 2018](#)
- 24 May 2018 [Member's corporate presentation: North Arrow Minerals, May 2018](#)
- 23 May 2018 [New preliminary economic assessment from Peregrine Diamonds for Chidliak](#)
- 23 May 2018 [Mountain Province completes Kennady North winter exploration program](#)
- 22 May 2018 [Silver Range provides spring exploration update and resignation of director](#)
- 22 May 2018 [Nighthawk provides update on latest Colomac metallurgical test work](#)
- 17 May 2018 [Sabina Gold & Silver closes non-brokered private placement for \\$6.7 million](#)
- 16 May 2018 [Stornoway announces results from annual general meeting](#)
- 16 May 2018 [Canadian Zinc reports Q1 results and operations update](#)
- 16 May 2018 [Seabridge Gold files first quarter financial statements and MD&A](#)
- 15 May 2018 [Avalon re-activates Nechalacho on growing demand for neodymium](#)
- 15 May 2018 [Stornoway Reports FY2018 first quarter financial results](#)
- 15 May 2018 [Canadian Zinc reports financing, new president](#)
- 15 May 2018 [Mountain Province announces Stuart Brown as incoming president and CEO](#)
- 15 May 2018 [Member's corporate presentation: TerraX Minerals, May 2018](#)
- 11 May 2018 [Agnico Eagle reports first results; Nunavut projects progressing as planned](#)
- 10 May 2018 [Member's corporate presentation: Mountain Province Diamonds, May 2018](#)
- 10 May 2018 [Mountain Province Diamonds announces March 31, 2018 quarter end results](#)
- 10 May 2018 [Dunedin updates drilling at Kahuna Project – first kimberlites drilled](#)
- 9 May 2018 [Crystal increases non-brokered unit offering](#)
- 9 May 2018 [Member's presentation: Avalon Advanced Materials' Fresh Look at Nechalacho](#)
- 9 May 2018 [Seabridge discovers new gold zones at Courageous Lake](#)
- 7 May 2018 [North Arrow amends stock options](#)

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Mines & promising Northwest Territories mine projects

The following table describes leading mineral development projects in the NWT.

Project Name	Owner(s)	Commodity	Description	Status
Ekati Mine	Dominion Diamond Mines , and Dr. Stewart Blusson.	Diamonds	Canada's first and largest diamond mine, 310 km. NE of Yellowknife. Open pit and underground. Mine life potentially to 2041. Workforce in 2017, 1,734. The Ekati mine consists of two joint ventures, the core zone joint venture and the buffer zone joint venture, in which the company has interests of 88.9% and 72.0%, respectively. Reserves at 31 January 2017 were 68.9 million tonnes at 1.5 carats per tonne for 105.4 million carats. Inferred mineral resources were 20.6 million tonnes at 1.0 carats per tonne for 19.8 million carats. Additionally, Fox Deep indicated and inferred resources of 51.0 million tonnes at 0.4 carats per tonne for 18.7 million carats.	Socio-economic report, April 2018, Dominion Diamond 2017 socio-economic report released News release, 1 November 2017, Dominion Diamond announces completion of plan of arrangement which saw the private corporation, The Washington Group of Companies, acquire Dominion Diamond Corporation and its interests in the Ekati and Diavik diamond mines.
Diavik Mine	Rio Tinto (operator) & Dominion Diamond Mines	Diamonds	Canada's largest producer of diamonds, 300 km NE of Yellowknife. Mine life to 2025. Became all underground mine in 2012. Workforce in 2017, 1,233. New A21 open pit development will cost US\$350m over 4 years. A21 commence ore production in the first half 2018. Reserves at Dec 31, 2017 were 15.1 million tonnes at 2.8 carats/tonne for total of 42.5 million carats.	Socio-economic report, April 2018, Diavik 2017 socio-economic report released News Release, 31 March 2017, Dominion Diamond files updated technical report for Diavik Diamond Mine
Gahcho Kué Mine	De Beers Canada (51% and operator) and Mountain Province (49%)	Diamonds	Located approximately 280 km NE of Yellowknife, NWT. Open pit mine with life of 12 years. Mine reached commercial operation in Q1 2017. Workforce in 2017, 483. Plan is for three open pits to mine 5034, Hearne and Tuzo ore bodies producing average of 4.5 million carats/year. Hearne began production in April 2018. Reserves at 31 March 2014 (production commenced Q3 2016) were 35.4 million tonnes at 1.6 carats per tonne for 55.5 million carats.	Media release, 30 May 2018 Mountain Province Diamonds recovers of 95 carat gem diamond Media release, 29 May 2018 Mountain Province Diamonds joins CanadamarkTM Media release, 24 May 2018 De Beers STEM scholarships expanded to University of Calgary Media release, 24 May 2018 Mountain Province Diamonds results of fourth diamond sale of 2018 Media release, 23 May 2018 Mountain Province completes Kennedy North winter exploration program Media release, 15 May 2018 Mountain Province announces Stuart Brown as incoming president and CEO Media release, 10 May 2018 Mountain Province Diamonds announces March 31, 2018 quarter end results
Prairie Creek	Canadian Zinc Corporation	Zinc-lead-silver	Proposed underground mine 120 km W of Ft. Simpson. Estimated mine jobs: 220	Media release, 29 May 2018 Canadian Zinc corporate reorganisation

			<p>All permits now in place to construct and operate the mine. Feasibility Study completed in 2017 supports 15-year mine life. Subject to completion of financing, and 2.5-year construction phase, production proposed for mid-2020.</p> <p>In 2017, the Mackenzie Valley Environmental Impact Review Board recommended approval of the proposed all season road.</p> <p>Over the past eight years Canadian Zinc has successfully completed numerous environmental assessments related to exploration and development of the Prairie Creek Mine. Canadian Zinc has obtained all the significant regulatory permits and social licences required to complete construction and development and undertake mining and milling at Prairie Creek, including construction and use of a winter access road to the minesite.</p>	<p>Media release, 16 May 2018 Canadian Zinc reports Q1 results and operations update</p> <p>Media release, 15 May 2018 Canadian Zinc reports financing, new president</p>
NICO	Fortune Minerals Ltd.	Cobalt-gold-bismuth-copper	<p>Proposed open pit and underground mine located 50 km NE of Wha Ti. Estimated mine jobs: 150.</p> <p>In March 2018, The Mackenzie Valley Environmental Impact Review Board has recommended that the Tlicho all-season road be approved. The approval is subject to measures designed to mitigate potential environmental, social, and cultural impacts.</p> <p>The Government of the Northwest Territories, Department of Transportation and Tlicho Government received this conditional approval on March 29, 2018, enabling construction of the 97-kilometre Tlicho Road to connect the community of Whati to the territorial highway system.</p>	<p>Media release, 19 April 2018, Fortune Minerals provides project finance update</p> <p>Media release, 4 April 2018, Public road clears environmental assessment process to enable NICO mine operations</p>
Kennady North	Mountain Province Diamonds	Diamonds	<p>Kennady North project comprises 13 leases and claims immediately to north and west of 4 leases controlled by the Gahcho Kué Joint Venture (see above). Project aims to identify a resource along the Kelvin – Faraday kimberlite corridor of between 12 and 15 million tonnes at a grade of between 2 and 2.5 carats per tonne and also to identify new kimberlites outside of the corridor. The Kelvin – Faraday corridor is a target for further exploration. The tonnage estimate is based on the drilling completed to date. Potential quantity is conceptual as there has been insufficient drilling to define a mineral resource and it is uncertain if further exploration will result in target being delineated as a mineral resource.</p>	<p>Media release, 13 April 2018, Mountain Province completes business combination with Kennady</p> <p>Media release, 20 March 2018, Update on the Kennady North winter drilling program</p> <p>Media release, 7 March 2018, Update on the Kennady North winter drilling program</p> <p>Media release, 6 March 2018, Kennady obtains interim order for plan of arrangement</p>

NWT & Nunavut Chamber of Mines – Northern Mining News

Indin Lake	Nighthawk Gold	Gold	Nighthawk controls over 90% of the prospective Indin Lake Greenstone Belt in this historic gold camp with a total ground position now comprising 930 sq km, approximately 220 km north of Yellowknife, NT. The Indin Lake Greenstone Belt is one of Canada's most underexplored gold camps. The property contains 14 known gold deposits and showings, 3 are historic mines (eg Colomac)	Media release, 12 April 2018, Nighthawk reports new gold discoveries within its Indin Lake Gold Property
Pine Point	Pine Point Mining (formerly Darnley Bay)	Lead-zinc	Proposed open pit mine east of Hay River, NT. 10 open pits mined sequentially with 321 jobs. Darnley Bay Resources acquired the project in 2017, and has begun active exploration to advance the project. Darnley Bay Resources is planning to start feasibility study in September, with results expected the following year. PEA quotes 13-year mine life.	Media release, 26 February 2018, Osisko Metals announces 50,000 metre drill program at Pine Point and outlines exploration and development program
Courageous Lake	Seabridge Gold Inc.	Gold	Proposed open pit mine 240 km NE of Yellowknife. 6.5 M oz proven and probable reserves in 91.0 million tonnes at 2 g/t (2016 Annual Report). Positive PFS July 2012. The FAT deposit is one of Canada's largest undeveloped gold projects. Seabridge is currently focusing on their KSM mine and other BC projects.	Media release, 16 May 2018 Seabridge Gold files first quarter financial statements and MD&A Media release, 9 May 2018 Seabridge discovers new gold zones at Courageous Lake
Selwyn (Howard's Pass Project)	Selwyn Chihong Mining Ltd.	Zinc, lead	Proposed base metal mine in Yukon on NWT border and access is through NWT. Agreements signed with NWT (Sahtu) Indigenous land corporations. The project will process multiple open pit mines over an approximate 10+ year mine life and includes a mineral processing plant, tailing management facility and the required on-site infrastructure. The mine is being designed to process 38,500 tonnes per day (tpd) of ore which, after processing, is expected to result in 2,500 tpd of zinc and 600 tpd of lead concentrate, which would be trucked to the Port of Stewart for export. Selwyn Chihong estimates the proposed mine will create approximately 1500 jobs during construction and approximately 750 during operation.	Selwyn Chihong Mining's proposed upgrade of a road to its lead-zinc mining project in Yukon's Selwyn Mountains will undergo an environmental assessment. Parks Canada has referred the 79km Howard's Pass Access Road (HPAR) to Environmental Assessment under the MVEIRB, which accepted the referral in July 2015. The HPAR was developed in the 1970s, and runs from the Nahanni Range Road to the NWT-Yukon border. Passing through 2 national parks. Yukon media reported in Feb 2016 that Selwyn Chihong has decided to slow their project down due to the current low zinc prices, and will not to take the project to the permitting stage this year. According to External Affairs VP Maurice Albert, SC has opted for a traditional drilling program and hopefully add another 10 years to the mine life.
Nechalacho	Avalon Advanced Materials Inc.	Rare earth metals	Proposed underground mine 100km SE of Yellowknife. Estimated mine jobs: 200. The company remains optimistic that rare earth demand will recover sufficiently to advance the project.	Media release, 15 May 2018 Avalon re-activates Nechalacho on growing demand for neodymium Media release, 9 May 2018 Member's presentation: Avalon Advanced Materials' Fresh Look at Nechalacho

Mines & promising Nunavut mine projects

The following table describes leading mineral development projects in Nunavut.

Project	Owner(s)	Commodity	Description	Status
Meadowbank Gold Mine	Agnico Eagle Mines	Gold	In operation since 2010. Open pit mine located in the Kivalliq Region, 300 km west of Hudson Bay and 70 km N of Baker Lake. Mine jobs: 775 AEM announced they will develop Amaruq satellite deposit, 50km from minesite and add 6 years to mine life, beginning in 2019. Construction of the Amaruq Exploration Access Road commenced in first quarter 2016. Road construction is ongoing with nine kms completed to date of expected total length of 64kms.	Media release, 11 May 2018 Agnico Eagle reports first results; Nunavut projects progressing as planned
Mary River Iron Mine	Baffinland Iron Mines Corporation	Iron	In operation since September 2014; Open pit mine 936 km N of Iqaluit. Mine jobs: 602 Production from Early Revenue Phase (ERP) began September 8, 2014. The company has proposed a Phase 2 project with increased production and shipping. AANDC Minister has approved application for exemption from NPC negative conformity determination, July 2015.	News release: 31 May 2018 Baffinland covering Qikiqtani travel costs to Mary River Mine pickup points
Hope Bay (Mine began commercial production May 15, 2017)	TMAC Resources Inc.	Gold	Gold mine 130 km S of Cambridge Bay. TMAC's property covers the majority of the Hope Bay Greenstone Belt. Workforce in 2016: 335 First gold poured in first quarter 2017 and achieved commercial production in second quarter 2017.	News release, 13 March 2018, TMAC appoints Maarten Theunissen as chief financial officer and Ron Gagel as executive vice president, corporate affairs
Meliadine	Agnico Eagle Mines Ltd.	Gold	Proposed open pit and underground gold mine, 25 km NE of Rankin Inlet. Estimated construction jobs: 1,000 Estimated mine jobs: 700 IIBA signed June 2015. Initial capital cost estimate \$911m; mine life 14 years. On February 15, 2017: Agnico Eagle approved Meliadine and Amaruq projects for development with production beginning in 2019. The high-grade Meliadine gold project has 3.4 million ounces of gold in proven and probable reserves* (14.5 million tonnes at 7.32 g/t) and a large mineral resource.	The Meliadine project was approved for development on February 16, 2017 and is now under construction. Media release, 26 April 2018: Agnico Eagle reports first quarter 2018 results; Nunavut development projects progressing on budget and on schedule; exploration drilling yields favourable results at multiple projects
Back River	Sabina Gold & Silver Corp.	Gold	Approximately 60KM from Hackett River; adjacent to the Wishbone Greenstone belt. Consists of George and Goose Lake deposits and holds significant gold resources. Estimated construction jobs: 1,600 Estimated mine jobs: 900	Media release, 18 May 2018, Sabina Gold & Silver closes non-brokered private placement flow through financing for \$6.7 million

			Sabina's Feasibility Study on its 100% owned Back River Gold Project presents a project designed on a fit-for purpose basis, with the potential to produce ~200,000 ounces a year for ~11 years with a rapid payback of 2.9 years (at a US\$1,150 gold price and a 0.80 exchange rate). Initial CAPEX of \$415 million. Environmental assessment complete	
Kiggavik	AREVA Resources Canada Inc.	Uranium	Proposed uranium mine 80 km W of Baker Lake. Estimated Construction jobs: 750 Estimated mine jobs: 600	25 July 2016, Federal Minister of Indigenous and Northern Affairs Canada, on behalf of responsible ministers for authorizing whether the Kiggavik Project should or should not proceed, accept NIRB's determination that the Project should not proceed at this time.
Izok Corridor Project (with High Lake & Hood River deposits)	MMG Ltd.	Copper, Zinc, Gold, Silver	High Lake is 1,710-hectare, copper-zinc-silver-gold property, 190 km ESE of Kugluktuk. Izok is high-grade zinc-copper-lead-silver deposit, 255 km SW of Kugluktuk. Estimated construction jobs: 1,140 Estimated mine jobs: 710	Nunavut Government announced that the Grays Bay Port and Road project did not qualify for federal Transport Corridor funding. Company stated publicly that project needs Grays Bay Road and Port project infrastructure to become a mine.
Chidliak	Peregrine Diamonds Ltd.	Diamonds	Located 120kms NE of Iqaluit, Nunavut, and 180 km S of Pangnirtung. 74 kimberlites discovered with 8 potentially economic on 317,213-hectare site. Positive Phase One PEA, updated May 2018 highlights: <ul style="list-style-type: none"> •After-tax payback of 2.2 years •Life of mine 13 years •Resource at CH-6 and CH-7 exceeds 22 million carats •Pre-production capital requirement ~\$455m, including \$95m for the access road from Iqaluit and \$55m in contingency •Pre-tax NPV(7.5) of \$1069 million and a pre-tax IRR of 38.6% •After-tax NPV(7.5) of \$679 million and an after-tax IRR of 31.1% •Average LOM strip ratio of 6.6:1 (average across the combined CH-6 and CH-7 open pits); Mining to a depth of 300 mbs at CH-6 	Media release, 23 May 2018 New preliminary economic assessment from Peregrine Diamonds for Chidliak
Angilak	Kivalliq Energy Corp.	Uranium	340,268-acre property located SW of Baker Lake; Hosts the high-grade Lac 50 Trend deposit	News release, 27 March 2018, Kivalliq receives royalty payment from Sandstorm, exercises Baffin Gold Property option
Qilalugak	North Arrow Minerals	Diamonds	7 km from tidewater; 9 km from Repulse Bay, Melville Peninsula; 7,143 hectares of contiguous mineral claims. Largest kimberlite in Nunavut.	Media release, 24 May 2018 Member's corporate presentation: North Arrow Minerals, May 2018 Media release, 7 May 2018 North Arrow amends stock options
Committee Bay Gold Project	Auryn Resources (purchased North Country Gold Corp.)	Gold	<ul style="list-style-type: none"> • High grade gold endowment • Existing exploration infrastructure • 217,600 hectares with district scale discovery opportunities 	Media release, 20 April 2018, Auryn Resources appoints manager of corporate communications

Project maps

