

# Northern Mining News

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## From the Executive Director ...

Annual statistics from NRCan show mining production way up in NWT and Nunavut. But exploration projections are down in NWT and way down in Nunavut. Action is needed!

There are two exciting transportation-related developments this past month: In Nunavut, the Nunavut Planning Commission has recommended that the North Baffin Regional Land Use Plan be amended to permit the use of rail. Baffinland's proposed northern rail line will greatly improve the mine's production and economics. In the NWT, completion of the Environmental Assessment brings the Tlicho All-Season Road one step closer to construction. Once built, it will also support mining at the NICO project.

Never believe it's over until it's over. North Arrow has discovered the first new kimberlite in 5 years in the Lac de Gras region. There's more out there!

Prospectors and exploration companies take note, the GNWT's exploration incentive program application deadline is April 27. Great program that helps fund the search for minerals which, if we're fortunate, lead to mines which mean jobs, business benefits, and training opportunities for northerners.

**Happy reading! ... Editor**

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

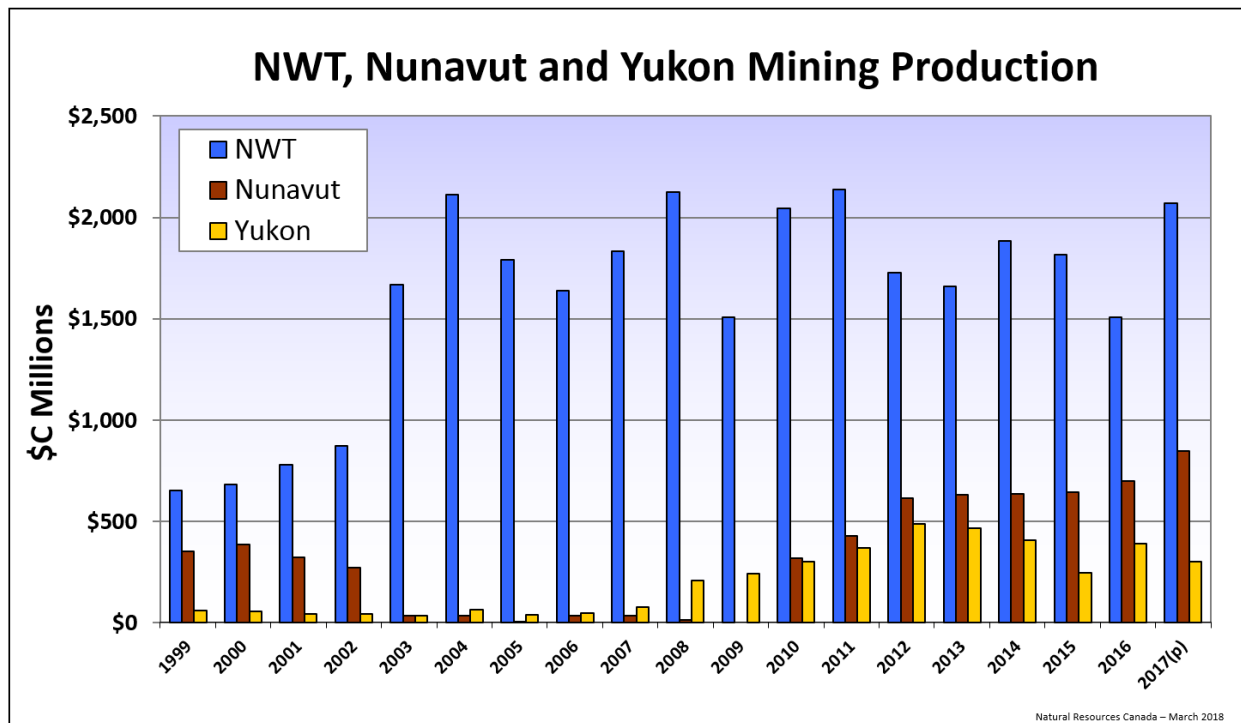


## Mining revenues jump in the Northwest Territories and Nunavut

Mineral production has increased significantly to over \$2 billion in the Northwest Territories and continues to increase to nearly \$850 million in Nunavut according to recently released Federal government statistics. Preliminary estimates for 2017 mineral production posted by Natural Resources Canada show that the total value of NWT mining production is \$2.070 billion, up \$563 million (37%) from \$1.507 billion in 2016. Of this:

- Diamond production accounts for nearly the entire value at \$2.060 billion, up \$574 million (39%) from \$1.486 billion; and
- With no other minerals produced in the NWT, sand, gravel, and stone production value accounts for the remaining \$10.5 million
- In Nunavut, the total value of mining production for 2017 is estimated at \$844 million, up \$144 million (21%) from \$700 million in 2016. Of this:
  - Gold production value is \$594 million, up \$88 million (17%) from \$506 million in 2016;
  - Silver production value is \$0.6 million, down \$4.4 million (88%) from 5.0 million last year; and
  - Iron ore is estimated at \$250 million, up \$61 million (32%) from \$189 million last year.

In Canada, preliminary estimates for 2017 production are \$43.904 billion, an increase of \$2.860 billion (7%) from \$41.044 billion in 2016.



“The Gahcho Kué diamond mine, by reaching commercial production in 2017 and surpassing its total carat target, played a big part in the NWT increase to over \$2 billion, a value we haven’t seen since 2011,” said Chamber of Mines President Gary Vivian. “In Nunavut, the numbers are up from increased gold and iron ore production, and this is encouraging given that in 2009, Nunavut had zero mineral production. The statistics show why mining is the largest private sector contributor to both territorial economies.” NRCan detailed data is found [here](#). For the Chamber release click [here](#).

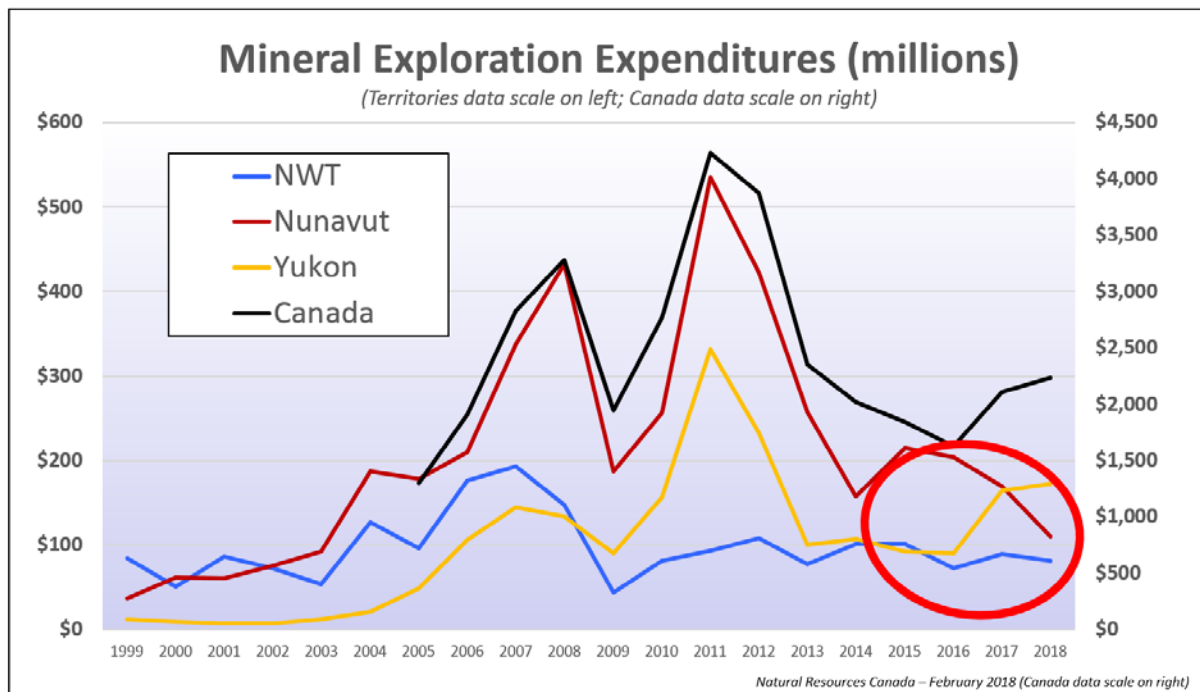
## But ... exploration expected to be down in NWT and really down in Nunavut

Recently released Federal government projections for 2018 mineral exploration and deposit appraisal spending project decreases in Nunavut and NWT, but an increase in Yukon and Canada. Natural Resources Canada's (NRCan) Exploration and Deposit Appraisal Expenditures, by Province and Territory provides the following new spending intentions for 2018:

- \$81.3 million in NWT, a decrease of \$8.7 million (10%) from 2017 expenditures of \$90.0 million
- \$110.7 million in Nunavut, a decrease of \$58.6 million (35%) from \$169.3 million in 2017
- \$172.3 million in Yukon, an increase of \$7.2 million (4%) from \$165.1 million in 2017
- \$2,238.2 million in Canada, an increase of \$126.9 million (6%) from \$2,111.3 million for 2017

Exploration investment is up for the second year in Canada and in Yukon. However, Nunavut is projected to see a significant fall, marking three years in a row. NWT is projected to experience a smaller decrease. From a competitiveness perspective, both the NWT and Nunavut are projected to see their share of Canadian exploration investment continue to fall.

"Our members tell us that uncertainties and difficulties around accessing land is a major contributor to reduced exploration investment in both territories," said Gary Vivian, President of the NWT & Nunavut Chamber of Mines. "The recent Fraser Institute Survey of Mining Companies 2017 reinforced the problem in Nunavut, which is linked to land access on some Inuit owned lands and a confusing land use planning process."



"We continue to advise governments – both public and Indigenous – that they can turn these statistics around by taking actions to regain investor confidence," Vivian added. "Nunavut has to address its land access issues.

In the NWT, work on the proposed Mineral Resources Act and other legislation must be to improve the investment climate. Settling long-outstanding land claims and reducing the over 30

per cent of lands off limits to development would also help, as would proactive marketing by Indigenous governments.”

Charts of historical and projected expenditures in northern Canada are in the Backgrounder attached, and the Chamber has summarized NRCan’s complete data in chart form [here](#). View the Chamber’ release [here](#).

### Exploration, exploration, exploration – read all about it!

#### ***NWT exploration incentive program deadline approaching***

In 2016/017, the Government of Northwest Territories Incentive program for exploration provided \$400,000 to ten exploration projects.

Fiscal year 2017-2018 saw the program budget increased to \$1 million; this funding has been dispersed to 14 exploration projects.

Deadline to apply for 2018/19 funding is April 27. View the full program description and download all relevant forms [here](#).

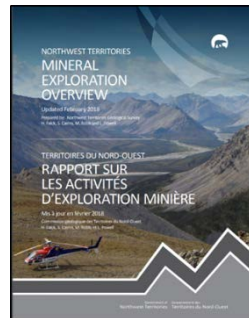


#### ***NWT releases Mineral Exploration Overview***

The NWT Mineral Exploration Overview is an annual review of mineral exploration and resource development in the Northwest Territories.

The report is written by geologists at the Northwest Territories Geological Survey and released at the end of each fiscal year in March.

An increase in claim staking combined with a decrease in the rate of claims lapsing provides hints of an upswing for the mineral industry in the Northwest Territories in 2017.



Read the full overview [here](#).

#### ***NEW! First Nunavut diamond drill hole dataset created***

The Chamber worked with NRCan-GEMS to produce the first dataset of diamond drill holes in Nunavut. It will be made available during the Nunavut Mining Symposium. In a nutshell, the following describes key elements of the project:

- The “core” product is an interactive georeferenced dataset (Google Earth KML file) of nearly 1600 drill holes filed for assessment with INAC since 2007
- 400 Assessment Reports were accessed, from a total of about 4000 in the entire INAC public archive
- The earliest INAC Assessment Report in Nunavut was filed in 1930
- Potential future projects include an expanded dataset (from additional Assessment Reports, and possibly land-use reports?) and
- Companion products, e.g. browseable interactive data presentation of ALL work reports, not only those with drilling

This Project was funded in full by the Geological Survey of Canada through a grant from the GEM (Geo-mapping for Energy and Minerals) program of Natural Resources Canada.

## NPC support is good step toward Nunavut's first mining railway line

As Baffinland Iron Mines seeks approval to construct a railway north to its Milne Inlet Port, the Nunavut Planning Commission (NPC) has taken the first positive step by recommending to Nunavut Tunngavik Incorporated (NTI), as well as the governments of Canada and Nunavut, that the North Baffin Regional Land Use Plan be amended to permit the use of rail in the Milne Inlet Tote Road and Marine transportation corridor.

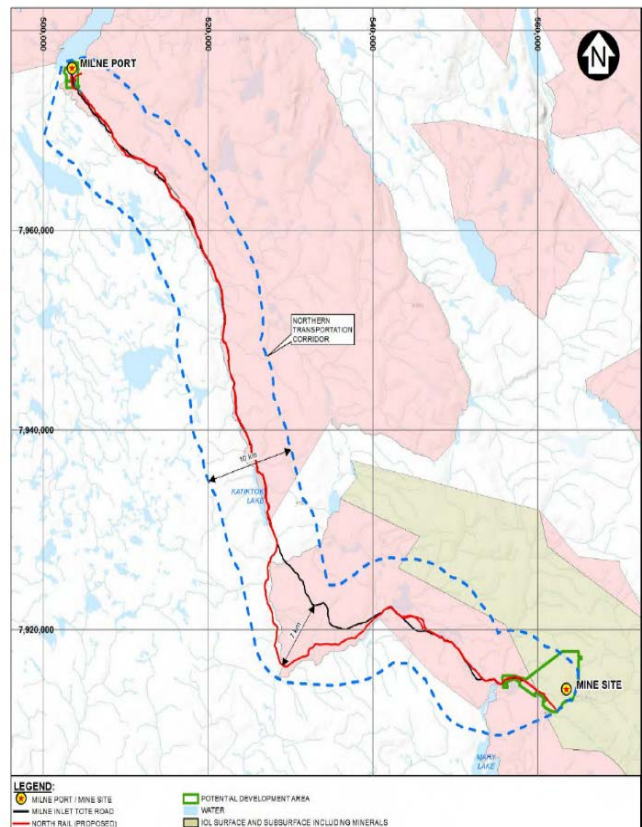
Baffinland is currently authorized to mine and transport up to 4.2 million tonnes per annum (mtpa) of iron ore to market north by truck to its existing port at Milne Inlet. Since their original approval to mine and transport up to 18 mtpa of iron ore south by rail to a port at Steensby Inlet is currently stymied by the high cost of development combined with depressed market conditions, Baffinland is now proposing a rail option to its northern port, along with an increase in production to 12 mtpa. The company says this will allow it to establish an economically sustainable operation in these difficult market conditions.

New infrastructure required would include:

- Construction and operation of a railway track and ore loading station required to support the northern railway operation; additional primary crushing equipment and a mine truck workshop to support increased production; and expansion of the existing accommodation camp to support the increase of required personnel at the mine site.
- A new rail line approximately 110 km in length and generally following the routing of the existing tote road is proposed to be constructed and operated to connect the mine site with the Milne Port site. It is estimated that the cycle time of the rail way will be approximately nine hours and five to six trains would be loaded per day.
- At the port site, a second ore dock to accommodate cape-sized vessels, a second ship loader, railway unloading and maintenance facilities, and additional support infrastructure will need to be developed in addition to an enclosed crushing facility.

The increased efficiency and capacity that results from the proposed expansion will allow Baffinland to concentrate iron ore shipments during ice free / open water. This strategy was developed based on community feedback regarding concerns over winter shipping. The ore

Figure 5.8 The Northern Transportation Corridor and Planned Railway



*The proposed rail line would generally follow the routing of the existing Tote Road.*



shipping season is proposed to be from July 1 to November 15 but would be adapted annually in consultation with the Pond Inlet Hunters and Trapper Organization based on ice conditions and thickness.

The company now awaits a supportive decision from NTI and the governments of Canada and Nunavut before it can move to a Nunavut Impact Review Board led Environmental Assessment of their plan.



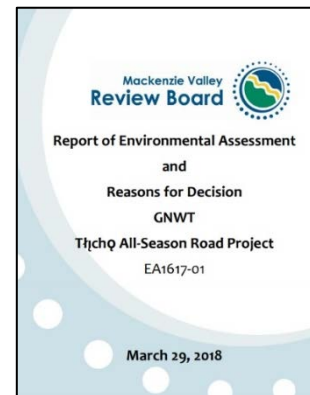
*The railway will help Mary River economics in the face of a challenging iron ore price.*

### Tlicho All-season road gets NWT board EA approval

The Mackenzie Valley Environmental Impact Review Board has recommended to Canada that the Tlicho all-season road be approved. The approval is subject to measures designed to mitigate potential environmental, social, and cultural impacts.

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 Whatì to the territorial highway system.

The Tlicho Road consists of 97 kilometres of new 2-lane gravel roadway from Highway 3 to Whatì, including four bridges and one large arched culvert. The GNWT Department of Transportation has been working closely with the Tlicho Government since 2012 on this road initiative to provide reliable year-round all-weather public road access to the community of Whatì and improved winter road access to the communities of Gamètì and Wekweètì and mitigate the impacts of climate change. The routing for the Tlicho Road follows an existing brownfield land-based winter road route to minimize environmental disturbance and lower construction costs. Establishment of the road will reduce the cost of living and improve the quality of life in the outlying Tlicho communities and provide a catalyst for economic development in the region.



The report of environmental assessment can be viewed on the Review Board website [here](#).

### Fortune provides update of NICO Project – Tlicho Road will help

The Tlicho road development is good news for Fortune Minerals' NICO cobalt-gold-bismuth-copper project, a development stage primary cobalt asset consisting of a planned mine and concentrator in the Northwest Territories and refinery in Saskatchewan.

Fortune has already received environmental assessment approval to build a 49-kilometre spur road from Whatì to its proposed NICO mine. Together, these roads will allow the company to

transport metal concentrates from the mine to its proposed refinery in Saskatchewan for downstream processing to cobalt sulphate, gold, bismuth ingots and oxide, and copper precipitate to support the growing green economy.

Fortune Minerals provided an [update](#) on the progress of its 100% owned NICO project, including details on the Cobalt market, NICO Project financing, project progress, current status of works, and the Tlicho All-Season Road.

Provided Fortune receives the requisite financing for the NICO Project and the remaining regulatory approvals in 2018, construction of the mine facilities could begin in early 2019 using the existing GNWT winter ice road and a new airstrip for access. Construction of the mine, mill, concentrator and related facilities in the NWT is expected to take approximately two years to complete, dependent on ice-road logistics, whereas the refinery requires only about 18 months for construction.

Fortune's NICO project is one of few new cobalt assets globally with the potential to be in production by the early 2020's and help meet the demand growth from transformation of the automotive industry. [View Fortune's release.](#)

### **Industry successfully working to meet Truth & Reconciliation Call to Action #92**

The North's mineral resources industry is making great strides with Indigenous reconciliation in northern Canada.

In 2015, the national Truth and Reconciliation Commission issued 94 Calls to Action for all Canadians to join in the goal of Indigenous reconciliation. Call to Action #92 asks the corporate sector to take steps that would see meaningful consultation and respectful relationships with Indigenous Peoples and their land and resources, including equitable access to jobs and training with long-term sustainable benefits. The Call to Action would also have businesses provide education to staff on Indigenous history.

In response to a CBC-moderated town hall on reconciliation held this past week in Yellowknife, Chamber of Mines President Gary Vivian said, "Our member companies working in the North are demonstrating their commitment through many initiatives and are delivering results to meet Call to Action #92. We have a unique national success story here in the North where Indigenous and territorial governments, communities, Inuit regional organizations, and industry have significantly changed the role of Indigenous peoples in resource development. One major example of reconciliation is our unique northern legislation that is founded in Indigenous land claims and sees co-management of resource development."

Reconciliation between the mining industry and the North's Indigenous peoples began over two decades ago with meaningful community consultations, the incorporation of traditional knowledge with scientific knowledge in environmental processes, and the signing of formal socio-economic and participation agreements. These include commitments to Indigenous training, employment, and business benefits, community support, communications, and transparency.

Today, across the NWT and Nunavut there are over 1100 Indigenous mine workers, billions of dollars invested in new Indigenous mining support businesses, and millions of dollars in new

streams of mining royalties going to Indigenous governments. The mines host community visits for Elders and youth to their sites and regularly provide communities with project updates. Traditional knowledge is part of mine design and operations. Workers receive cross cultural training. Indigenous-owned businesses are achieving a level of success never experienced before. Indigenous governments and communities are becoming active partners and owners of the northern minerals industry.

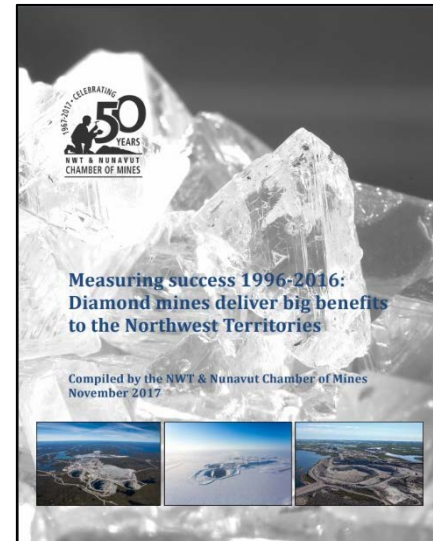
For a comprehensive reporting of diamond mining benefits since 1996 see the Chamber's 29-page report [\*Measuring success 1996-2016: Diamond mines deliver big benefits to the Northwest Territories\*](#).

As former Chief and current CEO of Denendeh Investments Inc. Darrell Beaulieu so aptly said on the occasion of the recent Belgian royal visit to Canada: "Indigenous people are starting to take the bull by the horns, so to speak, and starting to lead that development, and maybe owning the mines. Our Elders always said, this is our land, these are our resources; it's up to us to make that happen now."

"We've seen immense change in the last two decades. Today our industry is working to generate even more benefits for future generations of northerners," said Vivian. "Imagine what mineral resources can do with public and Indigenous government partnerships in infrastructure. The sky is the limit for Indigenous reconciliation and demonstrated progress under Call to Action #92."

Beaulieu agrees. "The way forward is to settle and fully implement land claims and make Indigenous governments partners in resource and infrastructure development. That lack of transportation, energy and communication infrastructure presents an opportunity for Indigenous people to take a lead in designing, building and owning that infrastructure to be part of the development of the North." See the chamber's release [here](#).

Diamonds are the only commodity currently mined in the NWT. Despite some tough market conditions, NWT mineral producers continued to advance projects in 2017.



### **Sabina Gold & Silver receives type B water licence from Nunavut Water Board**

#### ***Key to commence pre-construction activities at Back River***

Sabina Gold & Silver Corp is pleased to announce it received its type B water licence from the Nunavut Water Board (NWB) for the company's 100% owned Back River Gold Project in Nunavut.

Following receipt of the project certificate for Back River in December 2017, marking the end of the environmental assessment phase for the Goose mine, Sabina submitted various licences and work authorization applications to advance development of the project.



Two particularly important licenses are the type A and type B water licences, for which applications were submitted in October and November 2017. The type B water licence that has been issued by the NWB is a key authorization to complete work planned for the project in 2018. The type B water licence permits Sabina to complete pre-construction infrastructure works, including preparing the marine laydown area to receive necessary fuel, equipment, and supplies to the Back River Project, as well pre-development earthworks to establish all weather roads between the deposits, camp sites, tailings storage facility, and the mill site.

The type A water licence review is in process and is expected by the end of 2018. [View release](#)

In Sabina's year end [release](#), Sabina President and CEO Bruce McLeod said "2017 was an exceptional year for Sabina. The receipt of a positive NIRB recommendation and concurring Minister's decision result in the receipt of our project certificate for Back River in December last year. This marks the end of the environmental assessment phase and five years of rigorous review. We have now submitted or are in the process of submitting our other license and work authorization applications to move the project forward. Additionally, we had further success in 2017 with our drilling programs and have continued to demonstrate the potential for adding mine life and enhancing project economics at the Goose Property. We also announced a new significant shareholder in December as Zhaojin International Mining invested approximately \$66.1 million into the company. All of these events were major catalysts for the company in 2017 and set us up to continue to advance the project in 2018. Camps are open, and we have commenced pre-construction infrastructure works and exploration programs at site. We look forward to reporting on our accomplishments as we move through 2018."

### Mountain Province news on several fronts

#### **MPV announced 2017 results**

Mountain Province Diamonds Inc. [announced](#) financial and operating results for the full year ended December 31, 2017. Highlights include:

- Commercial production at the Gahcho Kué Diamond Mine declared on March 1, 2017. Earnings from mining operations recorded commencing in June, on commencement of the sale of diamonds produced subsequent to start of commercial production.
- Earnings from mine operations of \$52.1 million, and net income of \$17.2 million or \$0.11 per share. Adjusted EBITDA1 of \$56.6 million for the second half of 2017 (the third quarter of 2017 was the first full quarter of reported earnings from mine operations following the start of commercial production).
- Total sales of \$238 million (US\$185 million) in 2017, of which \$68 million was capitalized as pre-commercial production revenue and \$170 million (US\$134 million) is reported as sales in the statement of comprehensive income. Average full-year realization of US\$70 per carat (\$89 Canadian dollar equivalent per carat).
- Approximately 2,775,000 tonnes of ore treated through the process plant and 5,934,000 carats recovered, on a 100% basis, for an average recovered grade of 2.14 carats per tonne. This recovered grade is approximately 32% above the original budget for the year ended December 31, 2017.

- Cash costs of production, including capitalized stripping costs<sup>1</sup>, for the full year ended December 31, 2017 of \$73 per tonne and \$33 per carat recovered. Cash costs of production, including capitalized stripping costs<sup>1</sup>, for the fourth quarter of 2017 were \$62 per tonne and \$26 per carat recovered.
- Strong participation at the company's tender sales, with participation rates increasing through 2017. An average of eleven bids per lot received in 2017, with individual tenders offering approximately 125 lots per sale and over 100 companies bidding each sale.
- Completed an offering of US\$330 million in senior secured second lien notes in December 2017, the proceeds from which were used to fully retire the company's project lending facility and pay out historical sunk cost amounts owing to De Beers Canada Inc.
- Year-end cash position of \$43.1 million and net working capital of \$96.8 million, with US\$50 million revolving credit facility remaining undrawn.

***Mountain Province reports reserves and resources and files technical report***

Also, in March, Mountain Province [announced](#) updated mineral reserves and mineral resources and completed an updated technical report. Total estimated probable mineral reserves and mineral resources for the Gahcho Kué diamond mine at December 31, 2017 are included in tables in the release.

***Mountain Province to acquire Kennady Diamonds***

Mountain Province Diamonds Inc. and Kennady Diamonds Inc. [announced](#) that advisers have recommended shareholders approve Mountain Province acquire all Kennady shares. Advisers, Institutional Shareholder Services Inc. and Glass Lewis & Co., have recommended that shareholders of Mountain Province vote for the ordinary resolution to approve the issuance of Mountain Province shares to be issued to Kennady shareholders.

Under the terms of the arrangement, Kennady shareholders will receive 0.975 common shares of Mountain Province in exchange for each common share of Kennady, representing \$3.46 per Kennady share. This exchange ratio represents a premium of 26% to Kennady's closing price and a premium of 15% based on the 20-day volume.

Additional information concerning the arrangement and the share issuance resolution can be found in the joint management information circular of Mountain Province and Kennady dated March 5, 2018. Mountain Province shareholders will meet April 9. Kennady shareholder's meeting is also scheduled April 9.

***Mountain Province signs non-binding MoU with De Beers on Kennady***

Earlier in March, Mountain Province announced a non-binding memorandum of understanding with its partner in the Gahcho Kué mine, De Beers Canada Inc.

The MoU contemplates incorporating properties owned by Kennady into the Gahcho Kué joint venture if Mountain Province's proposed acquisition of Kennady Diamonds is approved. Mountain Province and De Beers will now work towards a definitive agreement based on the MoU.

### ***Mountain Province reports diamond sale results – highest to date***

Mountain Province Diamonds Inc. announced the results of its second diamond sale of 2018. This sale yielded a realized value per carat of US\$142, the highest achieved by Mountain Province in any tender sale to date, with total proceeds of US\$25.1 million on approximately 177,000 carats sold.

The value per carat of US\$142 reflects in part the deferral into this sale of half of the fancies and specials from the last production split of 2017, plus an acceleration into this sale of certain fancies and specials that would otherwise have been scheduled for Sale 3. Because of this acceleration, the value per carat realized in Sale 3 is expected to be lower than typical, though the normalized value per carat figure will adjust for the acceleration impact.

Customer sentiment in this second sale remained positive, with 192 companies attending the tender and an average of 14.2 bids received per lot. Pricing remained stable, with increases generally in the low single digits over the preceding sale. [View detailed release and table](#)

### **North Arrow discovers first kimberlite in Lac de Gras region in 5 years!**

North Arrow Minerals Inc. (TSXV-NAR) [announced](#) April 5 the discovery of a new kimberlite during its winter exploration drilling program at the Company's 100% owned Loki Diamond Project, Northwest Territories. The Project is located in the Lac de Gras region, approximately 30 km southwest, and 24 km west of the Ekati and Diavik diamond mines, respectively, and immediately adjacent to the west of North Arrow's LDG Joint Venture Diamond Project with Dominion Diamond Mines.

Ken Armstrong, North Arrow's President and CEO stated "To my knowledge, today's news represents the first public announcement of a new kimberlite discovery in the Lac de Gras region in over 5 years. The discovery of kimberlite 465 follows on North Arrow's September 2017 discovery of a new diamondiferous kimberlite field at our Mel Project, Nunavut, and confirms North Arrow's position as a leading junior diamond exploration company in Canada."

Mr. Armstrong continued, "The Lac de Gras kimberlite field hosts the Ekati and Diavik diamond mines, which have produced in excess of \$20 billion in rough diamonds over the last 20 years, and today's announcement highlights that the region, and particularly North Arrow's Loki and LDG Diamond Projects, remains prospective for new discoveries. North Arrow is planning drilling campaigns at both Mel and Loki during the summer of 2018 as well as at our LDG Joint Venture property with partner Dominion Diamond Mines."

### **Canadian women's hockey legend Cassie Campbell-Pascall visits Gahcho Kué**

Being a consistent leader is about making yourself and the people around you a little bit better every day were words of advice for employees this week as two-time Olympic gold medal hockey player Cassie Campbell-Pascall visited Gahcho Kué Mine.

The former captain of Canada's national women's hockey team and current Hockey Night in Canada broadcaster visited the mine on March 13, where she gave presentations to employees about leadership and the importance of building a strong team.

“I have never been to (a diamond) mine, but one thing I have learned already on this visit is that if someone is not a team player, it can disrupt things in a huge way. (There is also) the safety aspect of everything and how important it is for everyone to be on the same page,” said Campbell-Pascall.

She described Gahcho Kué as “Canadian at its finest – there are a lot of hard-working people here.”

“Everyone is born a leader,” she said. “The best leaders are the people who are the most consistent. It’s about trying to be the best you can be every day.”

Those lessons include the importance of learning from your failures, clear communications, being prepared for the task at hand, taking responsibility for your actions and not letting the fear of going outside of your comfort zone get in the way of taking on a challenge.

“Cassie’s message resonated with everyone because she connected with people on a very personal level,” said Allan Rodel, Gahcho Kué Mine General Manager.

Her day-long visit included visiting the mining operations in the open pit and inside the process plant where she was able to view diamonds that had been recovered that day.



*During three one hour-long presentations, Campbell-Pascall described the lessons she learned over her time with the national team and as a broadcaster. Photo courtesy De Beers Canada.*

### **Nakamura & Sawamura capture De Beers inspired ice carving competition**

Junichi Nakamura of Japan and Shinichi Sawamura of Fairbanks, Alaska and formerly of Japan crafted a beautiful elephant to take the 6<sup>th</sup> De Beers Inspired Ice International Ice Carving Competition in Yellowknife, Northwest Territories by less than a point to capture their second title in the annual event.

The 2015 De Beers Inspired Ice winners and 15-time World Ice Carving Champions finished with a final score of 91.17, just ahead of defending 2017 champions Peter Slavin and Chris Swarbrick who scored 90.20. Aaron Costic and Jeff Meyers were right on their heels with a score of 90.00.



Terry Pamplin of Yellowknife was a last-minute fill-in on a team with Stephan Koch and placed a very impressive sixth with a score of 83.63, good for a Silver Medal category and the top finish for Northwest Territories participants.

Gahcho Kué General Manager Allan Rodel was on hand to present the trophies and said this year's event was by far the best ever. "What an amazing result from three days of intense competition and difficult weather as incredible works of art have been created out of these huge

blocks of natural ice from Great Slave Lake, truly making this a unique world-class event the north can be extremely proud of", said Rodel. "We are also very pleased that our commitment of five years of funding will provide financial stability to the De Beers Inspired Ice International Ice Carving event, which continues to grow and attract the best carvers from around the world. For photos from this year's competition, please [click here](#).

### ***Students bring northern creations to life using almost one ton of ice***

Thirteen students from Yellowknife high schools used five 250-pound blocks of ice to bring their ideas to life during the second annual De Beers Inspired Ice Student Showcase in front of Yellowknife City Hall on March 2.

Braving temperatures of -23C without wind chill, the students, from Sir John Franklin High School and St. Patrick High School, took their tools to ice harvested from Great Slave Lake. For the second year in a row the Student Showcase was the lead up event to the international De Beers Inspired Ice Carving Competition.

Terry Pamplin, a local ice carver and artist, gave the students a workshop at each of their schools the day before the event. There the students learned how to safely use ice carving tools and some tricks of the trade. Check out the short video on YouTube: [here](#).



*This year's event included ten teams representing the United States, Japan, Sweden, Belgium and Italy. Pictured are winners Junichi Nakamura and Shinichi Sawamura, with De Beers Canada's Allan Rodel. Photo courtesy De Beers Canada*



*Winning ice! By Nakamura & Sawamura.*



## **Latest Canadian mining facts and figures released**

The Mining Association of Canada has [released](#) its latest industry *Facts & Figures* report. The report concludes this is a critical time for Canada to seize growth opportunities. Report highlights include:

- Mining directly employs over 403,000 and 193,000 indirectly
- Mining is the largest private sector employer of Indigenous peoples in Canada on a proportional basis, and a major customer of Indigenous-owned businesses
- Canada has one of the largest mining supply sectors globally with over 3,700 companies
- The average annual pay for a mining worker in 2016 exceeded \$100,000, higher than the forestry, manufacturing, finance, and construction sectors
- Over 400 agreements between mining companies and Indigenous communities
- Mining contributed \$57.6 billion to Canada's Gross Domestic Product (GDP) in 2016.
- Globally, Canada is recognized for its leadership in safety and sustainability



## **Successful diamond mine winter road now closed for the season**

As of press time, the Tibbitt to Contwoyto Winter Road has now been closed for the season, with freight haul meeting the diamond mining companies' expectations.



*2018 saw another successful mine winter road season.*

## Exploration & development news briefs (see [website](#) for more information)

**Agnico Eagle** has completed and filed with Canadian securities regulators a National Instrument 43-101 technical report on the mineral resources and mineral reserves at the Meadowbank Gold Complex, including the Amaruq Satellite Project. The technical report has an effective date of February 14, 2018 and is available on [www.sedar.com](#) under Agnico Eagle's profile. [View release](#)

**Auryn Resources** reports it has closed its previously announced bought deal offering, including the exercise in full of the underwriters' over-allotment option. A total of 6,015,385 common shares of the company were sold at a price of US\$1.30 per share for gross proceeds of US\$7.8 million. The offering was completed pursuant to an amended and restated underwriting agreement dated March 13, 2018 among the company and Cantor Fitzgerald Canada Corporation, as sole book-runner and lead underwriter, and PI Financial Corp., Canaccord Genuity Corp., Echelon Wealth Partners Inc., Haywood Securities Inc. and Roth Capital Partners, LLC, as co-managers. The company paid a 6% commission to the Underwriters.

In addition, the company completed a concurrent private placement financing involving the sale of 1,091,826 flow-through common shares of the company at a price equal to the Canadian dollar equivalent of US\$1.82 per share, for gross proceeds of US\$2.0 million. The flow-through shares formed part of a donation arrangement and were ultimately purchased by Goldcorp Inc. and enabled Goldcorp to maintain its 12.5% interest in the company under the terms of the January 2017 Investor Rights and Obligations Agreement between Goldcorp and the company. Goldcorp now owns 10,634,228 common shares of the company. The proceeds of the Offering are anticipated to be used for (i) drilling and exploration at the company's principal mineral projects, Committee Bay and Homestake Ridge; (ii) continuation of exploration programs at Huilacollo and Sombrero in Peru, (iii) general corporate purposes, and (iv) working capital requirements. [View release](#)

**North Arrow Minerals** announced the start of an exploration drilling program at the company's 100% owned Loki Diamond Project, Northwest Territories, located in the Lac de Gras region, approximately 30 km southwest, and 24 km west of the Ekati and Diavik diamond mines, respectively and immediately adjacent to the west of the company's LDG joint venture property with Dominion Diamonds. Field crews and a diamond drill have been mobilized to site and ground geophysical surveys have been completed. Approximately 1,000 m of drilling is planned to evaluate the size potential and internal geology of the diamondiferous EG05 kimberlite and to test a number of new targets defined by ground geophysical surveys and having good kimberlite indicator mineral support. Details on these drill targets can be found in North Arrow's February 12, 2018 presentation on the company's website. Drilling is expected to continue through to the end of March 2018. Funding for the drill

program is being supported, in part, by the Northwest Territories' Mining Incentive Program. [View release](#)

**Kennady Diamonds** announced an update on its winter drilling program at the Kennady North Project. Drilling is proceeding well with a total of 1,868 meters of drilling completed to date. Included in today's release are three exploration/delineation holes and one geotechnical hole completed on the Faraday 1-3 kimberlite, and two delineation holes completed on Faraday 2. All eleven drill holes completed on the program to date have intersected kimberlite. Approximately 10,500 meters of diamond drilling is planned for the 2018 winter program, with 40% assigned to delineation and geotechnical drilling of the Faraday bodies, and 60% dedicated to testing high-priority grassroots exploration targets within the Kelvin-Faraday Corridor. Exploration drilling on the high-priority targets will commence when drilling on the Faraday 1-3 kimberlite is completed. [View release and tables](#)

**Kivalliq Energy Corporation** announced, pursuant to an agreement signed on March 27, 2018, receipt of a CDN\$600,000 payment from Sandstorm Gold Ltd. in return for Kivalliq granting to Sandstorm up to a 1.75% net smelter returns ("NSR") royalty payable on all future mineral production from Kivalliq's Baffin Gold Property, located in Nunavut Territory, Canada. At any time up and until 36 months after signing the agreement, Kivalliq may reduce the Royalty to a 1.0% NSR by making a CAD\$1.0 million payment to Sandstorm. Net proceeds will be used to fund exploration and property costs at Kivalliq's projects in Canada, as well as for general corporate purposes. Kivalliq also announced that the company has exercised the Option to earn a 100% project interest on a portion of the Baffin Gold Property from Commander Resources Ltd., as described in a news release May 8, 2017, by issuing a final 250,000 Kivalliq shares to Commander. Kivalliq's Chairman & CEO, Jim Paterson, stated: "With the exercise of our Option on a portion of the Baffin Gold Property, Kivalliq now controls a district-scale land package covering highly prospective gold targets along 140 km of strike length. We welcome and sincerely appreciate Sandstorm's continued support of Kivalliq based on the merits of our team and project portfolio in Nunavut Territory." [View release](#)

**Nighthawk Gold Corp.** announced the initiation of its 2018 drill campaign consisting of a 25,000-metre diamond drill program on its 100% owned Indin Lake Gold Property in the Northwest Territories, Canada.

Three drill rigs will be in operation from early March until late September focused on the continued exploration for high-grade gold zones within the Colomac Gold Project, the ongoing delineation of known high-grade gold zones such as Zone 1.5, and drilling of select priority gold targets within its vast regional land package. Extensive geological mapping, prospecting, and ground geophysical programs

will begin by mid-June, directed at better defining known targets and generating new opportunities, with the goal of advancing Nighthawk's many regional showings and deposits to a drill ready status. [View release](#)

**North Arrow Minerals** reports final diamond recoveries from composite mini-bulk samples of four units within the Q1-4 kimberlite at the Naujaat Diamond Project, Nunavut. The samples reported in this release were collected as part of the 2017 delineation drill program, details of which were reported in a North Arrow news release dated September 12, 2017. The samples were composited from drill core in the field based on observed lithological units and submitted for processing using a combined dense media separation / caustic fusion process intended to recover diamonds greater than 0.425mm. The largest diamond was recovered from unit A28 and weighs 0.25 carats. The purpose of these composite samples is to provide diamond recovery information to supplement results from smaller drill core samples submitted for microdiamond (caustic fusion) analyses, including recovery of diamonds greater than 0.106mm. The diamond recoveries reported in this news release will be used to support incoming microdiamond sample results expected over the next eight weeks. [View release](#)

**Peregrine Diamonds** announced the filing of a National Instrument ("NI") 43-101 technical for its 315,123-hectare Chidliak project, located approximately 120 kilometres north-east of Iqaluit, the capital of Nunavut. The Technical Report is an update to a report with an effective date of June 3, 2016 and supports an updated 17.96 million carat Inferred Resource at CH-6 that was announced by a news release dated February 15, 2018, and a 4.23 million carat Inferred Resource at CH-7 that was announced May 5, 2016. The report summarizes work completed in 2017 as part of the Chidliak Diamond Resource Development Program, which focused on core drilling and microdiamond sampling at CH-6. Material outcomes of the 2017 work program were summarized in a news release dated November 28, 2017. [View release](#)

**Sabina Gold & Silver Corp** announced Lello Galassi has been appointed Vice-President, Project Development and Construction for Sabina's 100% owned Back River Project in Nunavut Canada. Galassi is a retired US Air Force Officer and Engineer with extensive experience in systems development, acquisition and project management and construction in leading greenfield mining projects in remote areas of the world. [View release](#)

**Silver Range Resources Ltd.** Announced it will carry out a 6,000,000 unit private placement. Each unit will be sold at a price of \$0.15 for total proceeds of \$900,000. Each unit will consist of one common share and one non-transferable share purchase warrant. Each warrant will entitle the holder to purchase one additional common share at a price of \$0.25 for a period of two years from the closing of the placement. All common shares and warrants issued as part of the units will be subject to a statutory

hold period of four months and one day from the date the placement closes. The proceeds from this private placement, which is subject to regulatory acceptance, will be used for working capital purposes. Closing is expected to occur by mid-April 2018. Silver Range also announces that it has granted 500,000 incentive stock options to an officer and a director of the company. The options entitle the holder to purchase up to 500,000 Silver Range common shares at a price of \$0.17 per share at any time prior to March 14, 2023. The options will vest on a quarterly basis commencing three months from the date of granting. [View release](#)

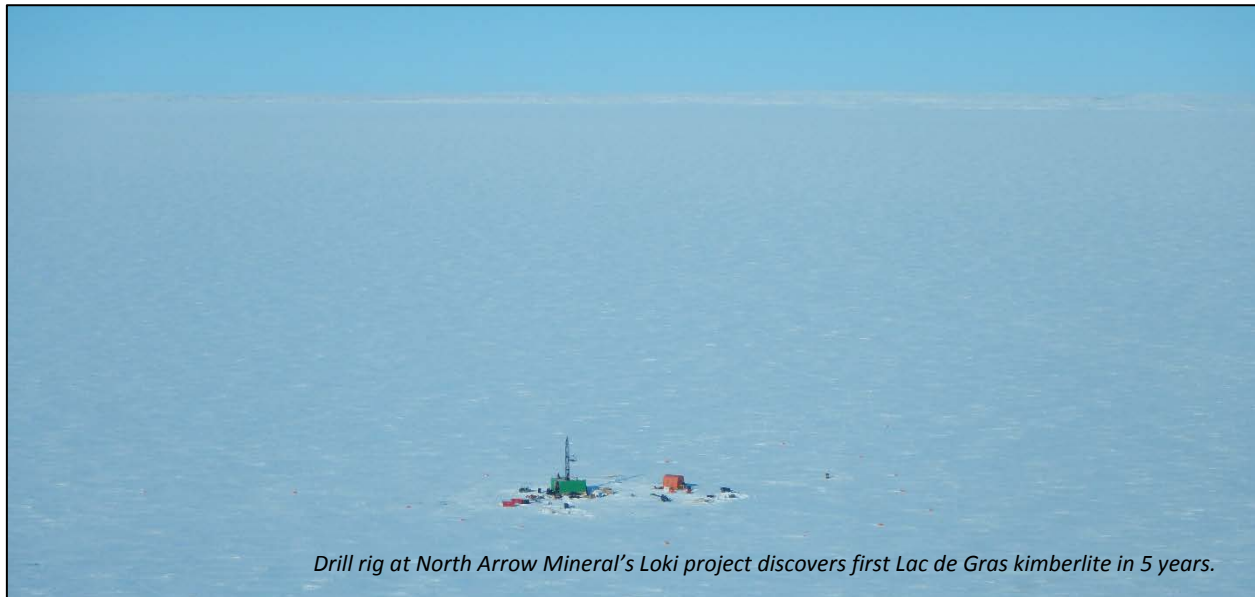
**TerraX Minerals Inc.** [announced](#) assay results from the first 5 holes (2,003 m) of its 2018 winter drill program now underway on the Yellowknife City Gold project. Two of these holes (688 m) tested the Sam Otto South extension, confirming a 2.2 km mineralized zone that remains open along strike and at depth. These holes were drilled as a follow up to our surface sampling program done in 2017 (news release of Sept 26, 2017). That program indicated the Sam Otto zone may extend for 3.5 kilometers south of the main zone which was drilled over 750 m of strike length in 2016. Hole TSO18-035 was collared 1.5 kilometer south of the Sam Otto main zone and intersected a broad zone of deformation and alteration (150 m wide) that contained a mineralized zone assaying 2.16 g/t Au over 27.16 m, including 1 m of 23.1 g/t Au, and 2.44 m at 7.44 g/t Au.

Joseph Campbell, the CEO of TerraX, stated "The extremely long step out for hole TSO18-035 confirmed our exploration targeting. The higher grade multi-gram intersections reported here exceed the grades typically seen in the Sam Otto main zone and confirm continuity within this large mineralizing system. With several kilometers of strike length to explore, we are excited about the potential for a large tonnage deposit." Three holes totaling 1,315 m were also drilled on the Sam Otto Main zone testing the down dip extension of previous TerraX drilling to a vertical depth of 350 meters.

**TMAC Resources Inc.** announced it has promoted Maarten Theunissen to chief financial officer effective April 1, 2018. Mr. Theunissen joined the company as vice president, finance in May 2013 from Uranium One Inc. where, from 2006 to 2013, he held roles of increasing responsibility including senior vice president, finance. He began his professional career with KPMG, received his South African Chartered Accountant designation in 2005 and holds a Bachelor of Commerce, (Hons.) Accounting from the University of Johannesburg. Ron Gagel, who has been TMAC's CFO since the company's inception, will transition from that role to executive vice president, corporate affairs. Ron has made an incredible contribution to the growth and success of TMAC Resources and was instrumental in establishing the foundation of TMAC. [View release](#)

## Calendar of Events

- **Nunavut Mining Symposium**, April 9-12, 2018, Iqaluit. Stay tuned for the call for speakers and sponsors. Click [here](#). #NuMS18
- **Week of the Arctic: Arctic Dialogue on Development**, April 30-May 2 Kotzebue, Alaska, hosted by Institute of the North, the state's centre for Arctic policy. Learn more and register here <https://institutenorth.org/engage/events/development-dialogue/>.
- **Resources for Future Generations (RFG2018)**, June 16-21, 2018, Vancouver Convention Centre. Organizers are calling for sessions and proposals at: [www.RFG2018.org](http://www.RFG2018.org). Abstracts will be sought in June 2017.
- **2<sup>nd</sup> Annual Arctic Indigenous Investment Conference 2018**, August 9&10, Yellowknife, NT. <http://yfncc.ca/aic2018/>. 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](http://www.miningnorth.com)



*Drill rig at North Arrow Mineral's Loki project discovers first Lac de Gras kimberlite in 5 years.*

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## Member news releases this past month

- 4 April 2018 [Public road clears environmental assessment process to enable NICO mine operations](#)
- 2 April 2018 [Peregrine files updated technical report for Chidliak](#)
- 29 March 2018 [Canadian Zinc reports 2017 results](#)
- 29 March 2018 [Dunnedin reports drill plans and commences 2018 exploration program](#)
- 28 March 2018 [North Arrow reports additional diamond results from Q1-4 Kimberlite, Naujaat](#)
- 27 March 2018 [Fortune Minerals provides update of NICO Project](#)
- 27 March 2018 [Kivalliq receives royalty payment from Sandstorm, exercises Baffin Gold Property option](#)
- 26 March 2018 [Stornoway reports fourth quarter and 2017 financial results](#)
- 26 March 2018 [Mountain Province reports year end reserves and resources and files technical report](#)
- 26 March 2018 [Mountain Province Diamonds announces full year 2017 results](#)
- 23 March 2018 [Firms recommend Mountain Province and Kennady vote for the business combination](#)
- 23 March 2018 [Auryn Resources announces closing of US\\$9.8 million financing](#)
- 22 March 2018 [Agnico Eagle completes NI 43-101 technical report on Meadowbank](#)
- 21 March 2018 [Member's corporate presentation: Agnico Eagle, March 2018](#)
- 21 March 2018 [Member's corporate presentation: Nighthawk, March 2018](#)
- 21 March 2018 [Seabridge Gold files Form 40-F with the SEC](#)
- 20 March 2018 [Update on the Kennady North winter drilling program](#)
- 15 March 2018 [Sabina appoints vice-president, project development and construction for Back River](#)
- 15 March 2018 [Mountain Province diamond sale results and confirmation of dividend objective](#)
- 14 March 2018 [Sabina receives type B water license from Nunavut Water Board](#)
- 14 March 2018 [Silver Range Resources Ltd. announces private placement and grants options](#)
- 13 March 2018 [TMAC appoints chief financial officer and executive vice president, corporate affairs](#)
- 13 March 2018 [Auryn Resources announces US\\$8.5 million financing](#)
- 13 March 2018 [Sabina Gold & Silver announces financial results for the year ended 2017](#)
- 9 March 2018 [Mountain Province and Kennady seeking shareholder approval of business combination](#)
- 9 March 2018 [TerraX winter drilling extends Sam Otto confirming mineralized zone](#)
- 7 March 2018 [Update on the Kennady North winter drilling program](#)
- 7 March 2018 [TerraX stakes ground in the highly prospective Yellowknife Gold District](#)
- 6 March 2018 [Kennady obtains interim order for plan of arrangement](#)
- 6 March 2018 [Silver Range expands and options the South Kitikmeot Gold Project in Nunavut](#)
- 5 March 2018 [North Arrow starts exploration drilling program at Loki Diamond Project, Lac de Gras, NWT](#)



*The value of rough diamonds produced in the NWT rose 39% to just over \$2 billion in 2017. Credit: Dominion Diamonds*



## Mines & promising Northwest Territories mine projects

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

Project Name	Owner(s)	Commodity	Description	Status
<a href="#">Ekati Mine</a>	<a href="#">Dominion Diamond Mines</a> , and Dr. Stewart Blusson.	Diamonds	Canada's first and largest diamond mine, 310 km. NE of Yellowknife. Open pit and underground. Mine life to 2041. Workforce in 2016, 1,889. The Ekati mine consists of two joint ventures, the Core Zone Joint Venture and the Buffer Zone Joint Venture, in which the company has an interest 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.	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.
<a href="#">Diavik Mine</a>	<a href="#">Rio Tinto</a> (operator) & <a href="#">Dominion Diamond Mines</a>	Diamonds	Canada's largest producer of diamonds, 300 km NE of Yellowknife. Mine life to 2025. Became all underground mine in 2012. Workforce in 2016, 1,187. Work to develop new A21 open pit well underway and will cost US\$350m over 4 years. A21 is on track to commence ore production in the second half of 2018. The A21 workforce will peak at approximately 200 people. Reserves at Dec 31, 2016 were 16.3 million tonnes at 2.8 carats/tonne for total of 46.0 million carats. Inferred mineral resources are 1.9 million tonnes at 2.9 carats per tonne for 5.5 million carats.	News Release, 31 March 2017, Dominion Diamond files updated technical report for Diavik Diamond Mine
<a href="#">Gahcho Kué Mine</a>	<a href="#">De Beers Canada</a> (51% and operator) and <a href="#">Mountain Province</a> (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 2016, 628. Plan is for three open pits to mine 5034, Hearne and Tuzo ore bodies producing average of 4.5 million carats/year. 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.	<p>News release, 26 March 2018, Mountain Province Diamonds reports year end 2017 reserves and resources and files technical report</p> <p>News release, 26 March 2018, Mountain Province Diamonds announces full year 2017 results</p> <p>News release, 23 March 2018, Firms recommend Mountain Province and Kennady shareholders vote for the business combination</p> <p>News release, 15 March 2018, Mountain Province Diamonds results of second diamond sale of 2018 and confirmation of dividend objective</p> <p>Media release, 9 March 2018, Mountain Province and Kennady file joint circular seeking shareholder approval of business combination</p>

Prairie Creek	Canadian Zinc Corporation	Zinc-lead-silver	<p>Proposed underground mine 120 km W of Ft. Simpson. Estimated mine jobs: 220</p> <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 mine site.</p>	News Release, 29 March 2018, Canadian Zinc reports 2017 results
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>	News release, 4 April, 2018, Fortune Minerals reports Tlicho all-season road approval.
Kennady North	Kennady Diamonds Inc.	Diamonds	<p>Kennady Diamonds controls 100% of Kennady North project comprising 13 leases and claims immediately to north and west of 4 leases controlled by the Gahcho Kué Joint Venture (see above). Kennady Diamonds aims to identify a resource along the Kelvin – Faraday kimberlite corridor of between a 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</p>	<p>News release, 20 March 2018, Update on the Kennady North winter drilling program</p> <p>News release, 7 March 2018, Update on the Kennady North winter drilling program</p> <p>News release, 6 March 2018, Kennady obtains interim order for plan of arrangement</p>

			to define a mineral resource and it is uncertain if further exploration will result in target being delineated as a mineral resource.	
<a href="#">Indin Lake</a>	<a href="#">Nighthawk Gold</a>	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)	News release, 21 February 2018, Nighthawk reports gold recoveries up to 98% from Colomac work
<a href="#">Pine Point</a>	<a href="#">Pine Point Mining (formerly Darnley Bay)</a>	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.	News release, 26 February 2018, Osisko Metals announces 50,000 metre drill program at Pine Point and outlines exploration and development program
<a href="#">Courageous Lake</a>	<a href="#">Seabridge Gold Inc.</a>	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.	News release, 21 March 2018, Seabridge Gold files Form 40-F with the SEC
<a href="#">Selwyn (Howard's Pass Project)</a>	<a href="#">Selwyn Chihong Mining Ltd.</a>	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.
<a href="#">Nechalacho</a>	<a href="#">Avalon Advanced Materials Inc.</a>	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.	News release, 29 November 2017, Avalon releases annual sustainability report with 2017 annual filings

## Mines & promising Nunavut mine projects

The following table describes leading mineral development projects in Nunavut.

Project	Owner(s)	Commodity	Description	Status
<a href="#">Meadowbank Gold Mine</a>	<a href="#">Agnico Eagle Mines</a>	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 mine site 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, 22 March 2018, Agnico Eagle completes NI 43-101 technical report on Meadowbank Gold Complex in Nunavut
<a href="#">Mary River Iron Mine</a>	<a href="#">Baffinland Iron Mines Corporation</a>	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. 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: 18 October 2017, Baffinland Iron Mines concludes record-setting shipping season
<a href="#">Hope Bay</a> (Mine began commercial production May 15, 2017)	<a href="#">TMAC Resources Inc.</a>	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
<a href="#">Meliadine</a>	<a href="#">Agnico Eagle Mines Ltd.</a>	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.	<b>The Meliadine project was approved for development on February 16, 2017 and is now under construction.</b>  News Release, February 14, 2018: Agnico Eagle Reports Fourth Quarter and Full Year 2017 Results – Record Annual Gold Output; Production Guidance Increased for 2018 And 2019; Reserves Increase Year-Over-Year
<a href="#">Back River</a>	<a href="#">Sabina Gold &amp; Silver Corp.</a>	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	News release, 14 March 2018, Sabina receives type B water license from Nunavut Water Board  News release, 15 March 2018 Sabina appoints Lello Galassi, vice-president,

			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. Project certificate from NIRB obtained in December 2018 completing environmental assessment.	project development and construction for Back River Project  News release, 13 March 2018, Sabina Gold & Silver announces financial results for the year ended 2017
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	MMG examining alternative designs to reduce costs, add value, and improve economic viability of the project. 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. 71 kimberlites discovered with 8 potentially economic on 413,000-hectare site. Positive Phase One PEA, July 2016 highlights: <ul style="list-style-type: none"> <li>• After-tax payback - 2 years,</li> <li>• LOM of 10 years.</li> <li>• Commercial production 2021 with 3-year construction schedule.</li> <li>• LOM average production rate of 1.2 million carats per annum, peaking at 1.8 million carats/year.</li> <li>• LOM average head grade 1.67 ct/T</li> <li>• Estimated pre-production capital of approximately C\$434.9 million, includes construction of 160-kilometre, all-weather road to connect to Iqaluit.</li> <li>• 2,000 tonnes per day.</li> <li>• LOM Opex of C\$94.4/tonne of C\$57.7/carat.</li> </ul>	News release, 2 April 2018, Peregrine files updated technical report for Chidliak  News release, 15 February 2018, Peregrine reports 58% increase in Chidliak's CH-6 kimberlite resource
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.	News release, 28 March 2018, North Arrow reports additional diamond results from Q1-4 Kimberlite, Naujaat Diamond Project  News release, 5 March 2018 North Arrow starts exploration drilling program at Loki Diamond Project, Lac de Gras, NWT
Committee Bay Gold Project	Auryn Resources (purchased North Country Gold Corp.)	Gold	Committee Gold Bay Project Highlights: <ul style="list-style-type: none"> <li>• High grade gold endowment</li> <li>• Existing exploration infrastructure</li> <li>• 217,600 hectares with district scale discovery opportunities</li> </ul>	News release, 13 March 2018, Auryn Resources announces US\$8.5 million financing



## Project maps

