

Northern Mining News

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From the Executive Director ...

Very exciting to see so much interest in building much needed transportation infrastructure for the North, both by government and by industry. These 'roads (and one rail) to resources' are major requirements for ensuring we continue to develop our resources for the benefit of everyone.

We at the Chamber of Mines look forward to seeing continued progress on these transportation projects as we support initiatives which will the reduce high operating costs. Indeed, some of our most promising projects simply are not viable without road access.

Big news from Canadian Zinc – the company looking to get its Prairie Creek Mine into production has just released its feasibility study and has Mackenzie Valley Review Board approval for road access. Many positives for Prairie Creek where they are now aiming for a mid-2020 production startup and at least a 15 year mine life.

Congrats to all involved with the opening of the new NWT Geological Materials Storage Facility! Great boost for geological study and lots of lifting to ensure all that core is housed in one location for research!

Happy reading! ... Editor

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

Welcome traction for northern transportation projects

Advancing infrastructure developments will create benefits

The NWT & Nunavut Chamber of Mines is encouraged to see advances in several northern infrastructure projects. Since northern Canada suffers the largest infrastructure deficit in Canada, the successful financing and construction of these projects will help make northern mining and exploration more competitive, and will help advance new projects which will generate socio-economic benefits for the North and its residents and communities.

In the Northwest Territories, recent infrastructure announcements include:

Tlicho all-season road

The NWT Government (GNWT) has selected three qualified construction applicants and the project will be private-public-partnership (25% Federal Government funded and 75% consortium funded under a P3 arrangement) for the 97-kilometre road from Highway 3 to the Tlicho community of Whati. The road will facilitate development of Fortune Mineral's 50-kilometre long spur road to support construction and operations of their NICO cobalt-gold-bismuth-copper mine, mill and concentrator.

Fortune has received environmental assessment approval to construct a spur road from Whati to its proposed NICO mine site as part of its proposed development. All-season road access is required for mine operations to allow metal concentrates to be transported south for processing. View Fortune Minerals release [here](#).

Three proponents have qualified for the project and will be invited to submit request for proposals, reports GNWT Finance. If the project proceeds, timing for issuance of an RFP will be subject to progress of the environmental assessment.



John Beaverho of Whati, assisting with environmental surveys of the proposed Tlicho all-season road alignment. (GNWT photo)

Slave Geological Province access corridor and Mackenzie Valley Highway

The GNWT has submitted expressions of interest to the Government of Canada for funding. The mineral rich Slave Geological Province hosts the NWT's producing diamonds mines, as well as significant untapped and diverse mineral potential. It is currently accessed by the world's longest, industry built ice road that is at risk from climate change. Like the Slave Province, the high resource potential of the Mackenzie Valley and mountains would benefit from road access. View the GNWT's release and quick facts [here](#).

Prairie Creek Mine access road

This 180-kilometre long all-season road would link Canadian Zinc Corporation's proposed Prairie Creek zinc-silver mine to the Liard Highway, with half of the proposed road transiting the Nahanni National Park Reserve. In September, the Mackenzie Valley Review Board recommended the Federal Government approve the road advance to permitting. On September 12, the board issued its report of environmental assessment and reasons for decision and submitted it to the Honourable Carolyn Bennett, Federal Minister of Crown-Indigenous Relations and Northern Affairs. View Canadian Zinc's release [here](#).

In Nunavut, several infrastructure projects are also advancing, including:

Grays Bay Road and Port Project

Led by a unique partnership between the Nunavut Government (GN) and the Kitikmeot Inuit Association (KIA), the project proposes a deep-water port on the Arctic Ocean with a 230-kilometre all-season road into the mineral-rich Slave Geological Province. A future phase will extend the all-season road a further 95 kilometres to the NWT border, and would link Nunavut to Canada by road for the first time in Canada's history. The regulatory review of the project was launched this summer with financial support from the GN. The GN and KIA have received confirmation that the project meets funding criteria under the National Trade Corridor Fund, and preparing a detailed business case. The project is on schedule for construction to begin in 2020 and be open in early 2024 to serve exploration companies, mine developers, community re-suppliers and local Kitikmeot residents, seeking to drive south.

Nunavut-Manitoba Winter Road

GN is seeking support under the National Trade Corridor Fund to connect Rankin Inlet with a 600-kilometre road south to Manitoba.

Nunavut's mining industry is also advancing transportation infrastructure with the following:

Road to Amaruq

Completed in August, this road connects Agnico Eagle's Amaruq deposit to its Meadowbank gold mine. This 64-kilometre long all-season road adds to the company's earlier investment in a 110-kilometre long all-season road from the Meadowbank mine to the community of Baker Lake, which benefits from the mine. The mine's access roads, 100% financed by the company, are now the longest roads in Nunavut, which continues to rely on air and marine transport.

Mary River railway

Baffinland Iron Mines has applied for permission to construct and operate a new 110 km rail line and a second ore dock and ship loader to accommodate Cape sized vessels.

Hope Bay tote road

TMAC Resources is advancing applications to construct and operate a 55-kilometre road to link their Madrid and Boston gold deposits to the Doris Mine and tide water, a new deep-water port to facilitate the annual sea lift of bulk commodities to the Hope Bay mining camp, and a heavy lift aircraft capable runway for the Boston site.

The minerals industry is the largest private sector contributor to Northwest Territories and Nunavut economies, and is successfully converting the North's mineral potential into training, employment, business opportunities, and tax and royalty revenues to both public and Indigenous governments.

“We are very encouraged by the support from all levels of public and Indigenous governments for northern infrastructure. There is growing recognition that northern infrastructure investment will promote economic development, will build our nation, reinforce Arctic sovereignty, and so importantly, create new opportunities to strengthen the North's middle class,” said Chamber of Mines President Gary Vivian. “Support of these new projects will help get the North back on track after what has been a 40-year gap in infrastructure investment for the minerals industry, which is the North's economic advantage,” he added. “Northerners will benefit.”



An industry study, “[Levelling the Playing Field](#)”, has identified that the cost premium of working in Canada's North is directly related to a significant infrastructure deficit.

Canadian Zinc looks to mid-2020 to start mining at Prairie Creek

2017 feasibility study includes higher mining rate and reserves, lower operating costs

In its 2017 feasibility study media release, Canadian Zinc Corporation reports positive preliminary results for its Prairie Creek zinc-lead-silver project in the Northwest Territories.

Subject to completion of financing, Canadian Zinc is projecting a production start in mid-2020 and a 15-year mine life. Mine development and construction is estimated to take 2.5 years.

The preliminary results of the feasibility indicate notable improvements compared to the preliminary feasibility study completed in 2016 and confirm Prairie Creek Mine can support a significant increase in mining rate and mill throughput for production of higher quantities of zinc, lead and silver, and at lower operating cost as compared to the mine plan presented in the 2016 study.

“We are very pleased with the results of the 2017 feasibility study which is a major milestone for the development of the Prairie Creek Mine and confirms strong project economics and significant potential value for our shareholders”, said John F. Kearney, Chairman and CEO of Canadian Zinc.

“The positive results, showing many improvements from the 2016 preliminary study, demonstrate the potential of this world-class asset and confirm that the development of the Prairie Creek Mine will provide material benefits to local communities and to the economy of the Northwest Territories for many years,” stated Mr. Kearney.

Feasibility study highlights

Optimization work completed as part of the study has led to improvements in many aspects of the Prairie Creek Mine with only a modest increase in the capital cost. Among these are:

- Increased mining rate (+18.5% to 1,600 tonnes per day)
- Increased mill throughput after DMS processing (+25% to 1,200 tonnes per day)
- Lower operating cost (-2.6% to \$223 per tonne mined, including transport)
- Increased Mineral Reserve tonnage (+6.2% to 8.1 million tonnes)

Canadian Zinc has, to date invested almost \$85 million in the exploration, development, environmental assessment and permitting of the Prairie Creek Mine and has significantly improved and de-risked the project. During the first 10 full years of concentrate production the 2017 study forecasts average annual production of approximately 65,000 tonnes of zinc concentrate and 72,000 tonnes of lead concentrate, containing an average of approximately 95 million pounds of zinc, 105 million pounds of lead and 2.1 million ounces of silver.

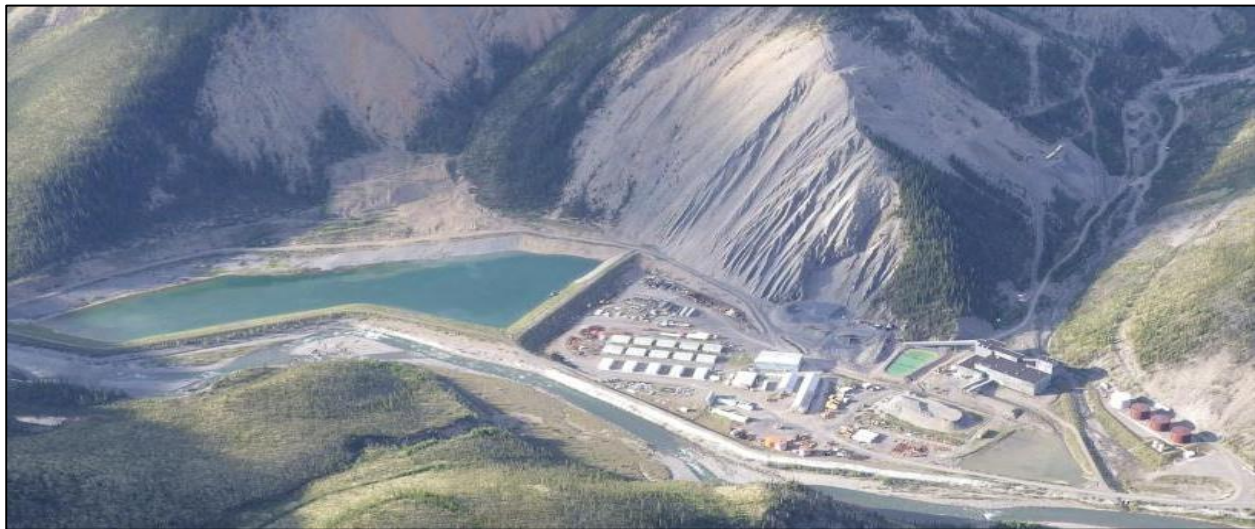
Dual LNG/diesel power generation

Development of the all-season road, along with local LNG production facilities, has enabled the use of LNG as an alternative energy source. This in turn has reduced the reliance on diesel fuel thereby reducing environmental impacts. The company has a memorandum of understanding with the Northwest Territories Power Corporation to examine the supply of electrical power for the development and operation of the Prairie Creek Mine.

Mineral reserve estimate

The 2017 study has a new mineral reserve estimate of 8.1 million tonnes of proven and probable reserves at a combined grade of 16.75% Pb and Zn plus 124 g/t Ag, which represents a 6% increase in Reserve tonnage compared to the 2016 PFS.

View full release with detailed tables [here](#).



Canadian Zinc's Prairie Creek Mine could be operational as early as mid-2020. (Courtesy Canadian Zinc)

People are priority say premiers in new sustainable development vision

Northwest Territories Premier Bob McLeod, Yukon Premier Sandy Silver and Nunavut Premier Peter Taptuna released the Pan-Territorial Vision for Sustainable Development. In it, they declare that residents of the territories deserve the opportunity to achieve the same aspirations for themselves and their families as other Canadians – including good health, high-quality education and sustainable middle-class jobs.

The three premiers stand together to foster long-term development of northern economies on a foundation of responsible



resource development, job creation, and economic diversification – in addition to investments in transportation, energy and communications infrastructure, and innovation.

A key principle of the vision is that northerners must have the tools and authority to manage their own affairs and make decisions on the future of the North, which offers an important opportunity to advance Indigenous reconciliation.

“Having a clear vision and priorities for supporting the social and economic development of Canada’s three territories is the only way to ensure that Northern Canadians will be able to enjoy the same benefits and opportunities that their fellow Canadians already share. Our shared vision has to be the foundation for any Arctic policy that genuinely reflects the needs and priorities of the people who live here,” said Bob McLeod, Premier of the Northwest Territories.

Quick facts

- In the Northwest Territories, the resource sector accounts for nearly 40% of our GDP. By comparison, tourism accounts for 3.5% and fishing .01%.
- Approximately half of all NWT residents are Indigenous, representing most people living in 29 of the territory’s 33 communities.
- Yukon’s resource sector accounts for 10.1% of the territory’s GDP. Construction accounts for 8.5%, while tourism is estimated at 3.9% of GDP (in 2014).
- Yukon’s population is presently 38,300, it is estimated that Indigenous people account for 23% of the territory’s population. Whitehorse is the territory’s largest community, at 29,634. Destruction Bay is Yukon’s smallest community, with 54 residents.
- Nunavut’s population has a median age of 22, making it the youngest in Canada. It is also one of the fastest growing; the 2015 population was just over 36,700 compared to 26,000 in 2001. Inuit represent 85 per cent of the population and form the foundation of the territory’s culture. Nunavut is a territory that spans two million km² of Canada, extending north and west of Hudson Bay, above the tree line to the North Pole.

- Nunavut's 25 communities range in size from Grise Fiord (population 163) to Iqaluit (population 7,542), the capital.
- The largest employer in Nunavut is government. New jobs are rapidly emerging in the mining and resource development sectors. Important growth is also occurring in the tourism and fisheries sectors, and in the Inuit art sector. The realization of Nunavut's full economic potential will, in part, be contingent upon the improvement of the territory's infrastructure.

Click [here](#) to view the release.

50kms of core samples at new geological materials storage facility

The Government of the Northwest Territories is committed to supporting mineral exploration, and with the grand opening of the new NWT Geological Materials Storage Facility access to geoscience data is now easier than ever before.

The facility houses the largest publicly available collection of kimberlites in the world. It will allow analysis of historical core samples to test new mineral exploration ideas at a fraction of the cost of drilling new ones.

Managed by the NWT Geological Survey, the facility consists of a 900m² unheated warehouse and an adjacent heated area where clients can examine samples year-round.

Enhancing the amount of publicly available geoscience information is part of ITI's work to implement the NWT Mineral Development Strategy, a commitment under the Mandate of the Government of the Northwest Territories.



Left to right, NWT Regional Director General with Aboriginal Affairs and Northern Development Canada Mohan Denetto, long-time northerner and minerals explorer Dave Nickerson, GNWT ITI Minister Wally Schumann, and prospector/explorer Walt Humphries, at the new geological materials storage facility on Bristol Avenue.

“The NWT Geological Materials Storage Facility is a great accomplishment for the Territory. This information will save time and expense for mineral exploration companies and prospectors, and has the potential to lead to multimillion dollar exploration programs. We are already seeing the economic benefits of making this material available,” said Wally Schumann, Minister of Industry, Tourism and Investment.

The facility houses a growing collection of rock, glacial till, and stream sediment samples, petrographic thin sections, and donated mineral exploration drill core from across the NWT.

[View release](#)

Geoscience info leads to increased staking in NWT

In 2017, the number of claims staked in the Northwest Territories more than doubled. Release of new data on the Slave Geological Province is being linked to the surge.

In 2017, there have been 184 claims in the NWT totaling 139,019 hectares. In comparison, a total of 83 claims were staked in 2016 totaling 42,404 hectares. The surge followed the June 22 release of two geophysical reports on the Slave Geological Province by the NWT Geological Survey. During the same timeframe, 45 claim tags were sold and 107 claims maps were issued.

The Slave Geological Province, with its existing diamond mines, is clearly an area of high diamond potential, and major diamond companies were amongst those staking claims.

The reports were jointly funded by the NWT Geological Survey and the Canadian Northern Economic Development Agency (CanNor) to inform a variety of mineral exploration, geological and environmental research objectives.

“The Northwest Territories’ Slave Geological Province holds great promise for continued diamond exploration and mining. Thanks to recent geoscience research, we’re directly stimulating renewed economic activity in this area. The mini-staking rush demonstrates that there is an ongoing, strong interest in this important economic region,” said Wally Schumann, Minister of Industry, Tourism and Investment.

“Each region of our country has unique strengths. That means innovation doesn’t just happen in the big cities—it happens in every region of the country. Investing in geoscience research promotes the North’s regional advantage. The funding creates well-paying jobs for the North and encourages further skills training. The data collected through the research also leads to a higher quality of life for all northern Canadians,” said Navdeep Bains, Minister of Innovation, Science and Economic Development, and Minister responsible for CanNor.

Quick facts

- Thirty-four new mineral claims were staked in the Northwest Territories (NWT) over a two-week period this summer.
- The total area covered by the 34 claims in the Slave Geological Province is 36,490 hectares.
- CanNor invested a total of \$1,334,254 over two years to support the airborne geophysical work conducted by the Northwest Territories Geological Survey.

[View release](#)

ITI Minister reinforces need to ‘unlock potential’

In the Legislative Assembly of the Northwest Territories, Wally Schumann, Minister of Industry, Tourism and Investment, reinforced the need for a strong mineral resources sector

In his statement, the minister said: “Our government made a commitment in its mandate to supporting mineral exploration and the mining sector through a number of actions that I want to update Members on. Our government recognizes the need for a strong, diverse economy where all NWT residents have a chance to get ahead.”

He added that “the foundation of our economy is socially and environmentally responsible resource development. The NWT’s abundant natural resources are not only key to growing and sustaining our economic future but are also essential to lowering the cost of living, as well as developing training, educational and capacity building opportunities... our economy depends on the strength of this foundation and the revenues and opportunity it provides. This is why we continue to address some of the most pressing issues in our natural resource sectors, and to unlock our territory’s potential.”

Minister Schumann highlighted that the NWT has recently has a strong staking rush that can be linked to new geochemical information released and major diamond companies were among those staking the claims.

“This brings 2017’s totals to 184 claims covering 139,019 hectares of land in the NWT. To put this in perspective, the entirety of 2016 saw only 83 claims and 42,404 hectares. It’s a sign of progress in exploration after some challenging times. We are pleased to see responsible mineral development growing from the grassroots in the NWT.” View the minister’s full statement [here](#).

Great gold results from TMAC’s Boston deposit

TMAC Resources Inc., is reporting very exciting results from its Boston deposit drilling including 22 grams per tonne, about three-quarters of an ounce of gold per tonne. One sample delivered an impressive 80 grams per tonne, about 2.8 ounces per tonne.

And at its Doris Mine, the company continues to report encouraging results below the dyke, a non-ore rock section located between two layers of ore. This suggests the Doris deposit is much larger than originally measured.

The company released its latest Doris/Boston results September 15. The Doris Mine and the Boston deposit are part of TMAC’s Hope Bay project.

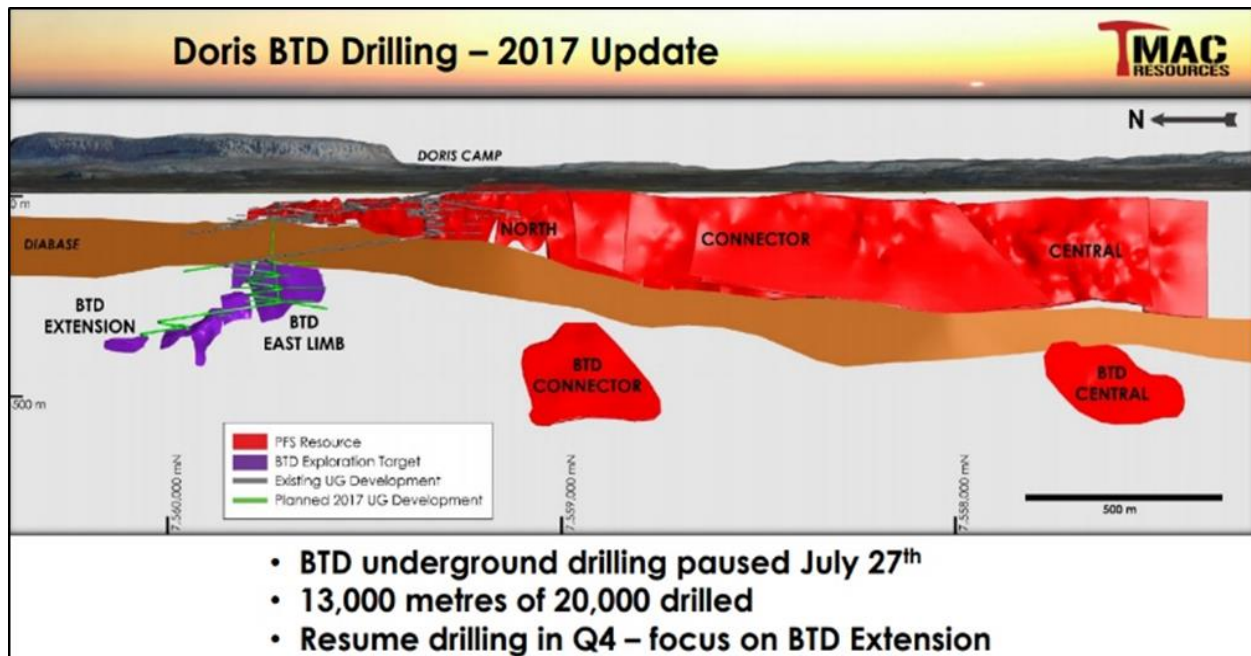
“We are pleased with the very positive and encouraging results of TMAC’s initial exploration drilling campaign on the Boston deposit that was completed this summer. The campaign targeted wide, high-grade gold trends within the known Boston Mineral Resources and the results being reported today confirm the tremendous potential to mine these high-grade zones using bulk underground mining methods,” said Dr. Catharine Farrow, Chief Executive Officer of TMAC. “The results also indicate the potential to significantly increase the gold mineral resources at Boston and will be used to establish the 2018 mineral resource estimates. This summer’s drill program also confirmed that Boston has tremendous exploration upside, along strike and at depth,” she added. As well, the processing plant’s performance continues to improve with average daily throughputs for September at 90% of design capacity.

Boston drilling highlights

- Drill hole: TMB0009 – Boston Zone B2: 22.0 g/t Au over 17.6 metres, including: 80.4 g/t Au over 3.2 metres
- Drill hole: TMB0015 – Boston Zone B2: 15.9 g/t Au over 18.4 metres, including: 29.4 g/t Au over 8.4 metres

Doris Below The Dyke drilling highlights:

- Drill hole: TM50089, Doris BTD: 18.8 g/t Au over 2.4 metres,
- Drill hole: TM50094, Doris BTD: 12.7 g/t Au over 1.0 metres



Operations

The processing plant can and has operated at or more than its design capacity of 1,000 tonnes per day and average daily throughput for September is over 900 tpd as a result of much improved plant availabilities. Recoveries in the crushing, grinding, gravity and flotation part of the Plant (the Python), one component of the overall recovery for the plant, are now consistently in the high 80%. Efforts continue to further optimize the Python to reach designed circuit recoveries. Work to improve concentrate treatment plant recoveries that, to date have been disappointing, is ongoing with focus on the regrind, batch intensive leach and resin areas.

TMAC also reported it has safely and successfully completed its fourth annual sealift.

[View release](#) and click [here](#) for recent presentation.

Dominion Diamond sale gets go-ahead from shareholders

On September 29, Dominion Diamond Corporation, owner/operator of the Ekati Diamond Mine and 40 percent owner of the Diavik Diamond Mine, announced shareholders overwhelmingly approved the sale to Northwest Acquisitions ULC, an entity affiliated with The Washington Companies. Under the deal, Washington will acquire all Dominion shares for US\$14.25 cash.

Approximately 99.32% of the shares represented at the meeting in person or by proxy, were voted in favour of the special resolution approving the Arrangement.

The company intends to apply for the final order of the Ontario Superior Court of Justice to approve the arrangement 22 September 2017. The closing of the arrangement remains subject

to the company having a minimum cash balance of US\$150 million if closing occurs on or before 30 November 2017, or US\$200 million if closing occurs after 30 November 2017, and certain other customary closing conditions, including court approval and the receipt of Investment Canada Act (Canada) approval. Assuming the timely satisfaction of these closing conditions, the Arrangement is expected to close in the fourth quarter of calendar 2017.

[View release](#)

Diamond mines take trophies at western region mine rescue competition

Mine rescue teams from the NWT's three diamond mines were among several teams to compete at the biennial 13th National Western Region Mine Rescue Competition 13th held in Fernie, British Columbia on September 8 and 9.

In the underground competition, Diavik won best written and best smoke, and Ekati won best practical skills.

In the surface competition, Gahcho Kué, competing at the event for the first time, won best smoke/search. As the top surface mine rescue team at this year's annual NWT/Nunavut Mine Rescue Competition in Yellowknife in June, the Gahcho Kué team earned a spot in the region event and



went up against nine of the best surface mine rescue teams from across Western Canada and two U.S. states.

“To be named the top surface mine rescue team in the NWT and earn the right to compete in the National Western Region Mine Rescue Competition speaks to the culture of excellence established at Gahcho Kué Mine,” said De Beers Canada Chief Executive Kim Truter.

Provincial and territorial surface and underground mine rescue winners from Western Canada Alberta, British Columbia, Manitoba, Saskatchewan, Yukon and Northwest Territories/Nunavut as well as the winning surface and underground teams from the Northwestern United States make up the competition. Each team participates in five tasks including first aid, fire and smoke simulation, rope task and a written exam. It's the largest mine rescue team competition in North America.

The competition was a great opportunity for teams to learn new skills by competing alongside mine rescue teams from long-established operations from across Western Canada and the U.S.



The NWT's three diamond mines each had mine rescue teams compete at the Western Regionals. (Photos courtesy De Beers Canada, Diavik, and JeanYves Gauthier/Dominion Diamond Corporation).

Inuit miner carves career path to top of his field

After years of training and study, Meadowbank employee Gabriel Ulayok has reached the top of his field. He is now a Production Equipment Operator and is qualified to operate the RH120 shovel – one of the largest and most sophisticated pieces of equipment in the global mining industry.

But the excitement and recognition doesn't stop there. Gabriel is also the first Inuit employee to reach the highest position within our Mine Career Path program – an innovative system designed by the Meadowbank People Development Team designed to support the upward career progression of our Inuit employees.

The program provides those who have limited formal skills or education with the opportunity to advance in their career by identifying the incremental steps they must take and then, through a combination of work experience, training and skills development, enables them to achieve their goals. Since its launch in 2012, the Mine Career Path program has seen an increasing number of successful participants each year and in fact we are now able to hire certain positions, such as haul truck drivers, exclusively from among the local Inuit population.

For Gabriel, who joined Agnico Eagle in 2012, the path to becoming an operator of the RH120 shovel took six years and more than 10,000 hours of training. In his current role he works as a Relief Production Equipment Operator and he is also an Auxiliary Equipment Operator at the mine.

Gabriel says he is proud to be the first Inuit employee to reach the highest position to operate this shovel.

“When I joined Agnico Eagle as a Haul Truck Driver, my dream was to operate the shovel I now operate because they are massive machines that load the haul truck extremely quickly,” said Gabriel. “Now, my dream has come true.”

He adds, “I encourage all Inuit to enroll in training programs including this one. But just remember, it takes time to climb up to become what you want to be, so be patient because it pays off in the end.”

Gabriel now has a new dream – to become an Auxiliary Equipment Supervisor at Agnico Eagle.



Meadowbank Mine Production Equipment Operator Gabriel Ulayok.

Biggest rough diamond sale yet for Mountain Province Diamonds

At its recent rough diamond sale, Mountain Province sold 463,000 carats of its share of Gahcho Kué diamonds for a total of US\$27.1 million, a 30 percent increase over the preceding sale.

This was the company's largest single sale to date in terms of both total value and carats sold, with carat volume reflecting strong production throughput and grade at the mine as well as the opportunity to fast-track just over 85,000 carats of smaller size diamonds into this sale.

All lots on offer were sold. Value per carat from this sale was averaged down from the fast-tracked inclusion of just over 85,000 carats of smaller sized goods. Because of a procedural change by the Government of the Northwest Territories, to expedite processing of the company's smaller sized goods for royalty valuation purposes, the company can bring such diamonds to market sooner than was previously the case.

A portion of such accelerated goods was included in this seventh sale, and the remainder will be included in subsequent sales. The seventh sale also included significantly fewer fancies and specials than previous sales, further averaging down the realized value per carat as compared to previous sales, as De Beers Canada was the successful bidder for the main component of the fancies and specials associated with this sale assortment. Adjusting to include the fancies and specials at the value paid by De Beers, and to exclude the fast-tracked smaller sized goods, the value realized per carat in the seventh sale was US\$72, generally consistent with the year-to-date adjusted realized sale value of approximately US\$75 per carat.

Said Reid Mackie, the company's vice president diamond marketing, "It is encouraging to see Mountain Province's sales process and customer bidding continue to deliver robust levels of competition. Attendance and average bids per lot were consistent with previous sales, and this sale saw our highest level of lots won by return customers. This demonstrates that, in spite of current trading conditions being somewhat challenging, our diamonds are becoming well established in the market and their positive manufacturing results continue to engender customer support."

\$2.3 million fall exploration program approved

At the Gahcho Kué mine site, the joint venture partners have approved a fall exploration program focused on an area between the 5034 and Hearne pipes referred to as the Southwest Corridor, with a total budget of \$2.3 million. With much of it already scheduled under the mine plan to be mined as waste rock, during stripping activity this area has been recognized as containing diamondiferous kimberlite that is not included in the project resource statements.

Geophysical survey work has already commenced under the program, with follow-up drill work scheduled for later this year. Said David Whittle, the company's Interim President and Chief Executive Officer, "With the mining of the Southwest Corridor already costed into the project as waste removal, the ability to convert any such tonnage into feed for the plant is a clear opportunity given the small incremental cost per tonne for processing. We look forward to the results of this exploration program."

[View release](#)

Agnico Eagle reports more success at Amaruq

Agnico Eagle Mines (AEM) updated its recent 2017 exploration activities at the Amaruq satellite deposit project, approximately 50 km northwest of the Meadowbank mine. Highlights include:

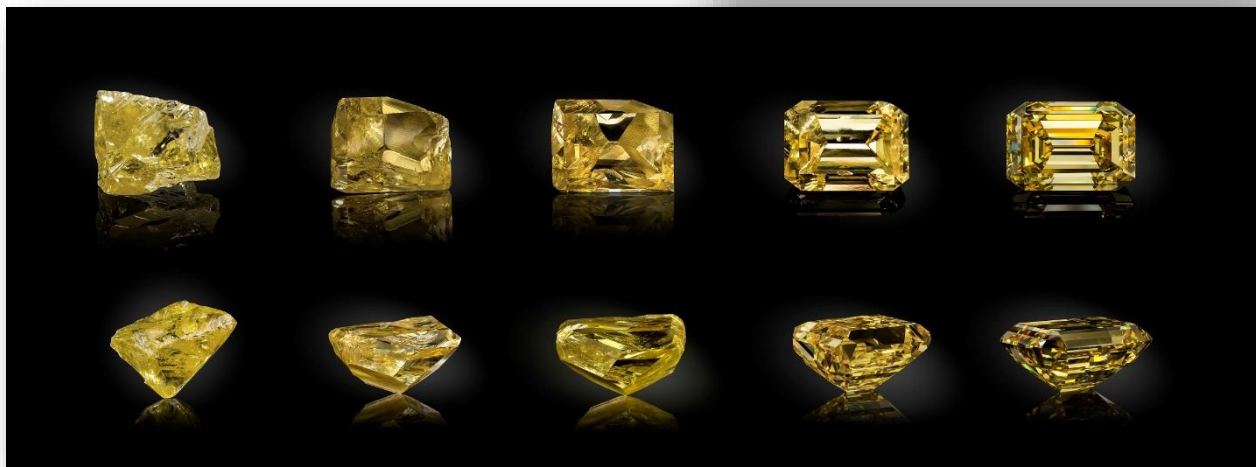
- Drilling at Amaruq traces gold beneath current Whale Tail and V Zone mineral resources. AMQ17-1418 intersects a strongly mineralized quartz vein that returned 8.6 grams per tonne gold over 38.7 metres at 273 metres depth extending the V Zone to the east of the proposed pit.
- New Tugak structure identified 4.5 kilometres west of Whale Tail at Amaruq. Initial drill results include 2.5 g/t gold over 10.0 metres near surface. Follow up drilling is planned.
- Amaruq Satellite Deposit. V Zone Expands at Depth and to West; Whale Tail Ore Shoot Extended, Directional Drill Program Reaching Below Current Mineral Resources; New Tugak Showing Discovered 4.5 Kilometres West of Planned Whale Tail Pit; I Zone Confirmed by New Drilling

AEM has a 100% interest in the Amaruq deposit, is situated on a 116,717-hectare property near the 77,411-hectare Meadowbank property. A significant gold discovery was made on the Amaruq property in 2013, and activities since that time have focused on the development of satellite mineralization to feed the existing 11,000 tonne per day Meadowbank mill. At December 31, 2016, the Amaruq property contained an open pit indicated mineral resource of 2.1 million ounces of gold (16.9 million tonnes grading 3.88 g/t gold); an open pit inferred mineral resource. View release

Dominion Diamonds' Arctic Sun shines

Weighing 65.93 carats, a stunning rough diamond was recovered from Dominion Diamond Corporation's Ekati mine in 2016. The rough diamond, the largest vivid fancy yellow ever recovered in North America, was transformed into the *Arctic Sun*, a 30.54 carat polished diamond.

Dominion Diamond Corp. photos



Exploration and Development News Briefs

(See Chamber [website](#) for more information)

Auryn Resources Inc. announced the first drill results ever from the Aiviq prospect located 12 kilometres north of the Three Bluffs deposit. Highlights from the Aiviq prospect include 12.2 meters of 4.7g/t Au (including 3.05 meters of 18.09 g/t Au) intersected in an interpreted silicified shear zone (Figure 1). These results are the first step in defining a new discovery on the Committee Bay Greenstone Belt in a newly recognized style of mineralization. The mineralization encountered at Aiviq is situated along a regional shear zone that is defined by a seven-kilometre-long gold-in-till anomaly. This shear zone was tested by a single drill fence during the 2017 summer drill program leaving the prospect wide open to expansion. The other holes drilled at this prospect did not target or intersect this shear zone. Importantly, the high-grade mineralization intersected in drill hole 17RGR003 is situated within a 100 metre wide zone of lower grade structures that demonstrate the overall strength and potential of the gold bearing system (Figure 2). Auryn believes that a follow up drill program along this shear zone is highly warranted given the similar nature of the till signatures and comparable high-grade gold values to those found at the Three Bluffs deposit. [View release](#)

Crystal Exploration Inc. proposes to complete a non-brokered private placement financing of up to 4,166,666 units at a price of \$0.12 per Unit for gross proceeds of up to \$500,000. Each Unit will consist of one (1) flow-through common share, and one-half (1/2) non flow-through common share purchase warrant. Each whole warrant will entitle the holder to purchase one (1) additional common share of the Company at an exercise price of \$0.18 for a period of 12 months from the date of issue of the warrant. If the common shares of the company trade at a closing price greater than \$0.36 per share for a period of 20 consecutive days, then the company may deliver a notice to the warrant holders that they must exercise the warrants with the next 30 days, or the warrants will expire. Proceeds from the private placement will be used for Canadian exploration expenditures to advance gold and diamond projects located in Nunavut. [View release](#)

De Beers Group announced the value of rough diamond sales for the seventh sales cycle of 2017. Bruce Cleaver, CEO, De Beers Group, said: “As expected, rough diamond sales were somewhat

lower in the seventh cycle of the year, with some midstream demand having already been brought forward into Cycle 6 due to Diwali being earlier than normal in 2017. Businesses in the diamond industry’s midstream segment are adopting a watchful approach as attention now turns to the Hong Kong Jewellery & Gem Fair in mid-September.” [View release](#)

Dunnedin Ventures Inc. has expanded the Kahuna project through staking of an additional 36 claims totaling 42,128 Ha. The total area of the Kahuna project is now 166,402 Ha, or 1,664 square kilometres. The new claims are prospective for both gold and diamonds. The summer field program has been extended to survey the newly staked ground and geological mapping, bedrock and till sampling are underway. The new claims cover extensions to greenstone belts containing banded iron formations that have been mapped by field crews, and are known from historical work to contain gold mineralization. Some of the new claims also cover probable up-ice sources of recently disclosed diamond indicator minerals found in tills, and geophysical targets consistent with kimberlite pipes. [View release](#)

Kivalliq Energy Corporation has received funds from Roughrider Exploration Limited to undertake a new work program on the Genesis Property uranium project in Saskatchewan to commence September 2017. The receipt of funds completes Roughrider’s expenditure commitment obligations to Kivalliq allowing Roughrider to earn its 50% initial interest in the Genesis Property, pursuant to the terms of the Option Agreement, as amended December 21, 2015. The new work program will be announced upon final contracting of service providers. Roughrider holds the right to acquire up to an 85% interest in the Genesis Property from Kivalliq. [View release](#)

Nighthawk Gold Corp. reported assay results for nine holes from its wholly owned Colomac Gold Project located within its Indin Lake Gold Property, the Northwest Territories. As the 2017 exploration program nears completion, drilling continues to expand high-grade gold Zone 1.5, and confirms the presence of strong mineralization within the gap between Zone 1.5 and its neighbouring Zone 2.0 to the south. Amalgamation of these two zones would outline a domain of continuous gold mineralization from surface to 600 metres at depth and upwards of

400 metres in strike and remains open. Latest drilling to depth has delivered a three-fold expansion of the mineralized true width of Zone 1.5 over previously reported shallower intercepts. This magnitude of increase opens vast new areas of the sill for exploration. Just over 13,000 metres of the 26,000 metre program have now been reported with all holes intersecting gold mineralization. [View release](#)

North Arrow Minerals Inc. announced it has completed its 2017 summer drilling and mini-bulk sampling program at the Q1-4 kimberlite at the Company's 100% owned Naujaat (now-yat; formerly Qilalugaq) Diamond Project, Nunavut. The program focused on delineation drilling and mini-bulk sampling of the twelve hectare Q1-4 kimberlite, one of the largest undeveloped diamond resources in Canada which also contains a significant population of extremely rare, potentially high value, fancy intense to vivid orangey yellow diamonds as certified by the Gemological Institute of America and Canadian Gem Labs. The Q1-4 kimberlite hosts a total Inferred Mineral Resource of 26.1 million carats from 48.8 million tonnes with an average +1 DTC total diamond content of 53.6 carats per hundred tonnes (cpht) extending from surface to a depth of 205 m (-135 metres above sea level). The summer program, which was initiated in early July, was completed on time and on budget earlier this month and represents the first phase of a larger planned program to better define the size, grade and diamond content of the Q1-4 kimberlite in support of an economic assessment. The deposit is well located, only 9 km from tidewater and work was conducted directly from the Hamlet of Naujaat, allowing the program to be completed cost effectively without the need for a remote exploration camp. [View release](#)

Peregrine Diamonds Ltd. announced it has successfully completed its 2017 work program at its 100%-owned Chidliak Diamond Project near Iqaluit, Nunavut, Canada. The program was completed on schedule on September 8, 2017, with a total of 5,288 metres drilled in 15 core holes utilizing three drill rigs. The program achieved the drilling objectives of the 2017 work program, as outlined in a June 19, 2017 news release, including the primary goal of further delineating and sampling the CH-6 kimberlite to a depth of 500 metres below surface (mbs). In addition, two near-vertical core holes terminated in kimberlite at depths greater than 530 mbs, confirming the kimberlite is open below the 500 mbs drilling target depth. The results of the 2017

program will form the basis of a revised CH-6 resource estimate, with the goal of extending the categorized resource base from a depth of 260 mbs to 500 mbs. [View release](#)

Pine Point Mining Limited is pleased to announce that Quantec Geoscience has begun a ground gravity survey over several underexplored portions of the Company's large lead-zinc property near Hay River, Northwest Territories. The survey will include 97 line-kilometres at 100 metre line spacing, and follow-up with 50 metre lines where any anomalies are identified. Modelling of known deposits has demonstrated that prismatic and all but the smallest/deepest tabular ore bodies should have a clear gravity response. One of the key targets of the survey is the former townsite of Pine Point. When the original mine and Pine Point townsite were built by Cominco in 1962-64, the known mineralization was in two trends, known as the Main and North trends. In 1965, another company found the X-15 deposit and in doing so discovered a new mineralized area now known as the South Trend. Cominco acquired the deposit and went on to mine 17.4 million tonnes grading 6.2% zinc and 2.0% lead by open pit. Several other deposits were also discovered along that trend, which provided about 30% of the historical production at Pine Point. The South Trend went directly through the Pine Point townsite, which was withdrawn from staking for several decades. The survey will target both prismatic and tabular type deposits along a 3.3 km portion of the South Trend under the former town site. [View release](#)

Pine Point Mining also [announced](#) it has negotiated and signed two exploration agreements with three First Nations groups in the Northwest Territories. The first agreement is jointly between the Deninu Kue First Nation (DKFN) and the Fort Resolution Metis Council (FRMC) (the coalition) and the second exploration agreement is with the Ka'tl'odeeche First Nation (KFN). These First Nations groups are located near the towns of Hay River and Fort Resolution, near the previous Pine Point mine site where the Company's property is located. These agreements establish a commitment by all parties for a mutually beneficial, co-operative and productive working relationship with respect to exploration activities within the Coalition's and the Ka'tl'odeeche First Nation's traditional territory for the potential development of the Pine Point Project.

The agreement allows for Pine Point, the coalition and the KFN to cooperatively establish a long-term relationship based on mutual respect and openness towards developing an impact benefits agreement for eventual production. Pine Point recognizes that its proposed exploration program will potentially impact the First Nation's traditional lands, their relationship with the land, water and resources, their social and cultural values, their way of life and the environment, and therefore wanted to take positive steps towards development of a respectful relationship with the First Nation. Pine Point intends to conduct its Exploration Program in a manner which is beneficial to the First Nation's and their traditional territory.

Sabina Gold & Silver Corp. announce the first results from the summer exploration diamond drilling program at its 100% owned Back River Gold Project in Nunavut. Approximately 10,000 m of planned drilling with three drill rigs is progressing well with the objective of testing high impact targets in and around existing resources at the Goose Property. Drill hole 17GSE516B intersected 9.48 g/t Au over 38.55 m within a strongly altered and mineralized lower iron formation package that is part of the continuation of the highly prospective, mineralized, Llama structure. This intercept is approximately 160 m down plunge from previously reported drill hole 17GS513 which intersected over 40 meters of altered and mineralized lower iron formation that included 6.52 g/t Au over 8.3 meters from 618.9 m to 627.2 m. This new zone represents a significant increase in sulphide mineralization along the structure, is open in all directions and demonstrates that the Llama gold structure is robust for a continued distance along strike of over 1,500 m from surface to a vertical depth of 595 m. Drilling will continue to test this new zone, in both the up and down plunge directions. In addition to the drilling at Llama, drill holes have been completed at the Umwelt Vault zone, Kogoyok and Echo where results will be released as assays are received. [View release](#)

TerraX Minerals Inc. reports assay results from a new zone of high-grade gold mineralization

identified during a property wide exploration program that is ongoing at its 418 square km Yellowknife City Gold Project (YCG). Assay results are from the new Screamer Island target, 3.5km to the south of Sam Otto which included 27.9 g/t Au, 4.46 g/t Au, 4.15 g/t Au and 3.95 g/t Au in representative rock samples from wide zones of outcropping mineralization, with an additional five samples grading greater than 1 g/t Au. These results more than quadruple the strike length of the company's Sam Otto target which is now over 5km.

[View release](#)

TerraX Minerals Inc. has budgeted an additional \$1.8 million in field exploration spending at the Yellowknife City Gold project to follow up on promising exploration targets identified during the summer field work. This work will be carried out before year-end and will include extensive ground magnetic and induced polarized surveys on new and established drill targets and comprehensive biogeochemical surveys over large areas of the property covered by swamps and overburden.

[View release](#)

92 Resources Corp. provided an exploration and development update for its wholly owned Hidden Lake Lithium Project, Northwest Territories. The property is situated within the central parts of the Yellowknife Lithium Pegmatite Belt along Highway 4, approximately 40 km east of Yellowknife. The summer/fall field program at its Hidden Lake Project will be funded through the \$140,000 grant awarded under the Northwest Territories Mining Incentive Program and will set the stage for a maiden drill program at the Project, targeted for the latter half of 2017. Objectives include:

1. Channel sampling of the HL6 and HL8
2. Detailed prospecting along strike between the HL6 and D12 pegmatites
3. Regional prospecting to locate additional pegmatite occurrences
4. Channel sample collection in support of ongoing metallurgical work - HL1, HL3, HL4, and D12 pegmatites.

[View release](#)

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:

- **Arctic Consultants Inc.** has covered the Arctic for more than 25 years by fulfilling the procurement needs for isolated populations. Inspired by the challenges and particularities of the northern market, the Anjou, Quebec-based company offers an integrated source for a range of door-to-door procurement needs including enterprises, municipalities, as well as the Nunavut and Nunavik populations. Adventurers by trade, they track all orders, anticipate needs, and manage procurement processes and guide you toward advantageous solutions. Aware of challenges and logistical procurement complexities, the team takes care of purchasing, packaging, warehousing, or transportation (by air or by sea). <http://www.arcticconsultants.ca/about-us.html>
- **BioMaxx Environmental** assists clients across Canada with effective and efficient water and wastewater solutions in a wide variety of municipal, industrial and environmental applications. Delta, B.C. based, BioMaxx designs and supplies wastewater package treatment plant technology, normalizes the most stringent influent while exceeding strict government and environmental effluent guidelines. H₂S elimination and grease and odour control is the company's specialty, using cutting edge, environmentally sensitive green products. Its expertise includes leak detection and smoke testing of infrastructure, the supply of lift station and chemical pumps and supplying a wide variety of wireless flow monitoring technologies, allowing our clients immediate online viewing of live data. <http://www.biomaxx.ca/>
- **Soaring Eagle Friendship Centre**, formerly known as the Vale Island Friendship Centre, is a non-profit Aboriginal organization that has been in existence since 1975. The centre, based in Hay River, Northwest Territories, in partnership with employers, provides training to employment initiatives for youth. The Friendship Centre began operation on a volunteer basis. In August 1980, funding was received from the Federal Government and an executive director and secretary/bookkeeper were hired. In September of 1996, the Soaring Eagle Friendship Centre relocated to the newly renovated facility known as the Aboriginal Centre. The new facility offers modern office facilities for both the Friendship Centre and the Metis Nation. The new facility had a classroom and has boardroom, large kitchen, storage area and a hall facility shared by the Friendship Centre and the Metis Nation. Visit them on Facebook at <https://www.facebook.com/SoaringEagleFriendshipCentre/>
- **SSAB Swedish Steel** is a highly-specialized global steel company which develops high-strength steels and provides services for better performance and sustainability. SSAB, whose offices include various locations in Canada, is a leading producer on the global market for advanced high-strength steels and quenched and tempered steels, strip, plate and tubular products, as well as construction solutions. SSAB's steels and services help to make end products lighter and increase their strength and lifespan. SSAB's production plants in Sweden, Finland and the US have an annual steel production capacity of 8.8 million tonnes. The company, which provides wear solution to the mining industry, also has capacity to process and finish various steel products in China, Brazil and many other countries. Learn more at <https://www.ssab.com/>

Member News Releases this past month

Click on the news release headlines which are live links for news releases issued by our member companies this past month.

- 28 September 2017, [Canadian Zinc feasibility study results for Prairie Creek Mine](#)
- 26 September 2017, [TerraX samples up to 27.9 g/t Au from Screamer Island new zone](#)
- 25 September 2017, [Students and teachers learning that Mining Matters in the NWT](#)
- 22 September 2017, [Agnico Eagle provides notice third quarter results release](#)
- 21 September 2017, [Peregrine Diamonds successfully completes program at Chidliak](#)
- 20 September 2017, [Pine Point begins ground geophysical survey](#)
- 19 September 2017, [Dominion Diamond shareholders approve Washington transaction](#)
- 19 September 2017, [Fortune Minerals reports all-season road milestone](#)
- 18 September 2017, [Nighthawk expands Colomac's high-grade zone 1.5](#)
- 18 September 2017, [Mountain Province results of diamond sale and exploration update](#)
- 15 September 2017, [Crystal Exploration announces private placement](#)
- 15 September 2017, [TMAC provides operational update and results of drilling](#)
- 14 September 2017, [Dunedin expands Kahuna Project to 166,402 hectares](#)
- 14 September 2017, [Auryn Resources drills 12.2m of 4.7g/t gold near Three Bluffs](#)
- 12 September 2017, [Mackenzie Valley Review Board approves Prairie Creek Mine road](#)
- 12 September 2017, [TerraX expands Yellowknife City Gold field exploration program](#)
- 12 September 2017, [Pine Point signs exploration agreements With N.W.T. First Nations](#)
- 12 September 2017, [North Arrow completes drill program at Q1-4 kimberlite, Naujaat](#)
- 11 September 2017, [Strong Showing for Gahcho Kué Mine at western regionals](#)
- 11 September 2017, [Silver Range completes option agreement with GGL Resources](#)
- 11 September 2017, [Kennady Completes Successful Summer Program](#)
- 11 September 2017, [Nighthawk Shares trade on the Otcqx Best Market in US](#)
- 7 September 2017, [ISS and Glass Lewis support Dominion and Washington plan](#)
- 7 September 2017, [Boom, bust and boom again for rare earths?](#)
- 6 September 2017, [Dominion reports Q2 results](#)
- 6 September 2017, [Dominion announces Fox Deep preliminary economic assessment](#)
- 5 September 2017, [Agnico Eagle reports positive exploration results at multiple projects](#)
- 5 September 2017, [De Beers rough diamond sales for cycle 7, 2017](#)
- 5 September 2017, [Sabina discovers new high grade mineral zone in Llama Gold trend](#)



Calendar of Events

- **Mining Diesel Emissions Council**, October 3-5, 2017, Hilton Toronto Airport Hotel. This annual conference is a global forum for learning and sharing the latest practices and research to control and reduce diesel emissions in the mining workplace environment. The conference includes a field trip, a workshop, technical sessions / presentations, and an exhibitors' area for companies and organizations. Early bird registration deadline is September 1. Additional details can be found [here](#).
- **Canadian Aboriginal Minerals Association 25th Anniversary Conference: "Water For Life, Mining For Need, Achieving Balance"**. November 12-14, 2017, Toronto. For more information and to register, visit [here](#).
- **45th Annual Yellowknife Geoscience Forum**, the North's largest combined tradeshow and conference, will be held November 14 - 16, 2017 in Yellowknife, NT. Watch for updates at the website [here](#). #ykgeo2017
- **Our Land, Our Future: National Summit on Indigenous Youth and Natural Resource Development**, Conference Board of Canada, Calgary, AB November 21 - 22, 2017. Relationships between industry, government and Indigenous peoples lie at the heart of Canada's natural resource sector. Each holds a powerful position with unique rights and responsibilities. A collaborative, mutually-beneficial approach is also critical to ensuring sustainable, environmentally responsible development. Click title to learn more.
- **Association for Mineral Exploration Roundup 2018**, January 22-25, 2018, Vancouver, BC. Roundup brings together geoscientists, prospectors, investors, suppliers and First Nation partners to share ideas that will help shape the future of mineral exploration and development in Canada. Learn more [here](#).
- **PDAC 2018 International Convention, Trade Show & Investors Exchange** - March 4 - 7, 2018, Metro Toronto Convention Centre, Toronto, ON. Learn more [here](#).
- **Nunavut Mining Symposium 2018**, Dates are set - April 9-12, 2018 for #NuMS18. Don't miss it and stay tuned for the call for speakers and call for sponsors. Click [here](#).
- **Resources for Future Generations (RFG2018)**, June 16-21, 2018, Vancouver Convention Centre, BC. With themes covering all the key geoscience sectors across all professional practice – Minerals, Energy, Water and the Earth. Organizers are calling for Sessions and you can submit your session proposal at: www.RFG2018.org. Abstracts will be sought in June 2017.

Mines & Promising Northwest Territories Mine Projects

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

Project Name	Owner(s)	Commodity	Description	Status
Ekati Mine	Dominion Diamond Corporation , and Dr. Stewart Blusson.	Diamonds	Canada's first and largest diamond mine, 310 km. NE of Yellowknife. Open pit and underground. Mine life to 2042. 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. All the production in fiscal year 2017 was sourced from the Core Zone. 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.	<p>News release, 19 September 2017, Dominion Diamond shareholders approve Washington transaction</p> <p>News release, 7 September 2017, ISS and Glass Lewis support Dominion and Washington plan</p> <p>News release, 6 September 2017, Dominion reports Q2 results</p> <p>News release, 6 September 2017, Dominion announces Fox Deep preliminary economic assessment</p>
Diavik Mine	Rio Tinto & Dominion Diamond Corporation	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.	<p>News Release, 31 March 2017: Dominion Diamond files updated technical report for Diavik Diamond Mine</p>
Gahcho Kué Mine	De Beers Canada (51% is 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 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, 11 September 2017, Strong Showing for Gahcho Kué Mine at western regionals</p> <p>News release, 5 September 2017, De Beers rough diamond sales for cycle 7, 2017</p> <p>News release, 18 September 2017, Mountain Province results of diamond sale and exploration update</p>
Prairie Creek	Canadian Zinc Corporation	Zinc-lead-silver	Proposed underground mine 120 km W of Ft. Simpson. Estimated mine jobs: 220 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	<p>News release, 27 September 2017, Canadian Zinc announces feasibility study results for Prairie Creek Mine</p> <p>News release, 12 September 2017, Mackenzie Valley Review Board approves Prairie Creek Mine road</p>

			<p>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>	
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 September 2017, the GNWT announced completion of the request for qualification phase of the proposed private-public-partnership to design, build, finance, operate and maintain the Tlcho All Season Road and has selected three consortiums to advance to the request for proposal stage, subject to progress of the EA. Earlier this year, the Canadian, GNWT and Tlcho governments announced conditional approval of federal funding for 25 per cent of the construction costs for the TASR through the P3 Canada Fund. The winning consortium will fund the remaining 75 per cent of the cost of the road and will be repaid with interest over the life of the contract by the GNWT.</p>	News release, 19 September 2017, Fortune Minerals reports all-season road milestone
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. The potential quantity is conceptual in nature as there has been insufficient drilling to define a mineral resource and it is uncertain if further exploration will result in the target being delineated as a mineral resource.</p>	News release, 11 September 2017, Kennady completes successful summer program

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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 in 2015 to attract Project financing and allow construction work to begin by summer 2015.	News release: 16 August 2017, Avalon completes non-brokered private placement for gross proceeds of \$450,000
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)	News release, 18 September 2017, Nighthawk expands Colomac's high-grade zone 1.5 News release, 11 September 2017, Nighthawk Shares trade on the Otcqx Best Market in US
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.	News release, 20 September 2017, Pine Point begins ground geophysical survey News release, 12 September 2017, Pine Point signs exploration agreements with N.W.T. First Nations
Courageous Lake	Seabridge Gold Inc.	Gold	Proposed open pit mine 240 km NE of Yellowknife. 6.5 Moz 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: 11 August 2017, Seabridge Gold files second quarter report to shareholders and its financial statements and MD&A
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) Aboriginal 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.

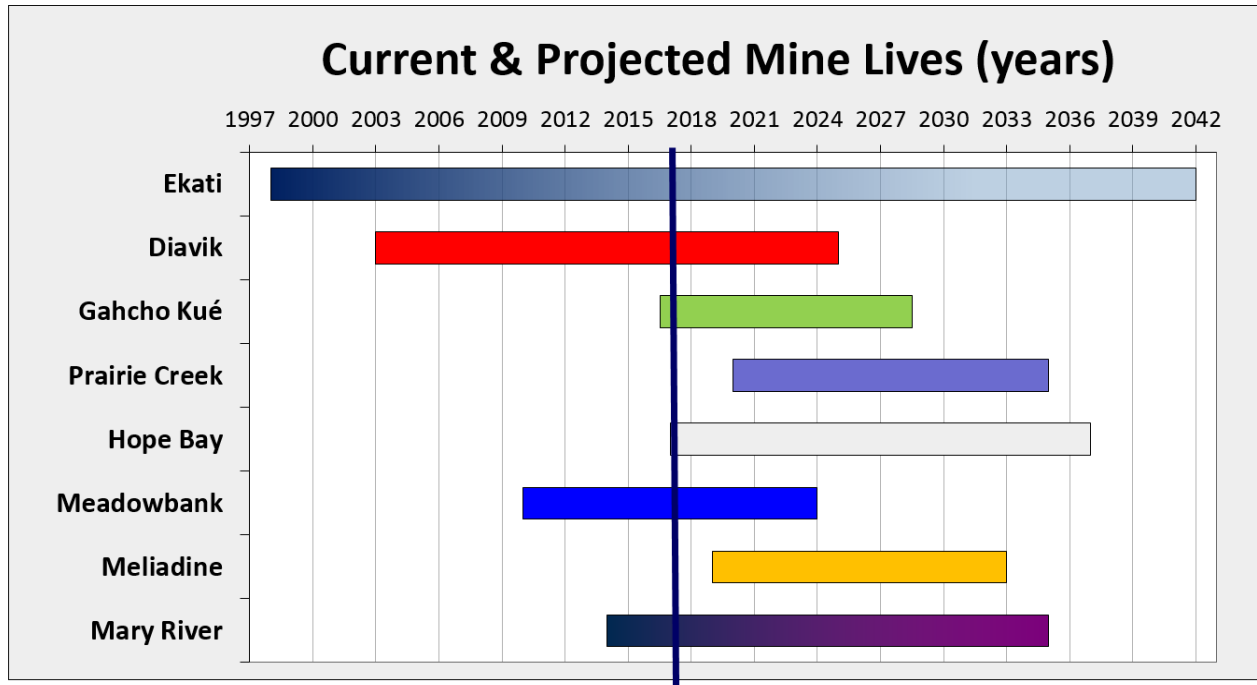
Mines & Promising Nunavut Mine Projects

The following table describes mines and 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 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.	News release, 22 September 2017, Agnico Eagle provides notice third quarter results release News release, 5 September 2017, Agnico Eagle reports positive exploration results at multiple projects
Mary River Iron Mine	Baffinland Iron Mines Corporation	Iron	In operation since September 2014; Open pit mine located 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 14, 2015.	News release: 11 August 2017, Baffinland and QIA release annual project review forum report News release: 11 August 2017, TMAC reports operating and financial results for second quarter of 2017 News release: 11 August 2017, TMAC initial drilling at Boston intersects 15.3 g/t gold over 22.3 metres News release: 11 August 2017, TMAC strengthens executive team and appoints Gil Lawson as chief operating officer
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, 15 September 2017, TMAC provides operational update and results of drilling
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 is estimated to be \$911m; initial production life of 9 years. On February 15, 2017: Agnico Eagle announced that Meliadine and Amaruq projects approved for development with production beginning in 2019.	News Release, July 26, 2017: Agnico Eagle Reports Second Quarter 2017 Results
Back River	Sabina Gold & Silver Corp.	Gold	Approximately 60KM from Hackett River; adjacent to the Wishbone Greenstone belt. Consists of the George and Goose Lake deposits and holds significant gold resources. Estimated construction jobs: 1,600 Estimated mine jobs: 900 Sabina's Feasibility Study on its 100% owned Back River Gold Project presents a project that has been	News release, 5 September 2017, Sabina discovers new high grade mineral zone in Llama Gold trend

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			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.	
Kiggavik	AREVA Resources Canada Inc.	Uranium	Proposed uranium mine 80 km W of Baker Lake. Estimated Construction jobs: 750 Estimated mine jobs: 600	July 25, 2016, Federal Minister of Indigenous and Northern Affairs Canada, on behalf of responsible ministers for this project with jurisdictional responsibility for authorizing whether the Kiggavik Project should or should not proceed, accept the Board'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 120 kilometres NE of Iqaluit, the capital of Nunavut, and 180 km S of Pangnirtung. 71 kimberlites discovered to date with 8 potentially economic on 413,000-hectare site. Positive Phase One Preliminary Economic Assessment in July 2016 highlights: <ul style="list-style-type: none"> • After-tax payback period of 2 years, • LOM of 10 years. • Commercial production 2021 with 3-year construction schedule. • LOM average production rate of 1.2 million carats per annum, peaking at 1.8 million carats per year. • LOM average head grade 1.67 ct/T • Estimated pre-production capital requirement of approximately C\$434.9 million, includes construction of 160-kilometre, all-weather road to connect to Iqaluit, the capital of Nunavut. • 2,000 tonnes per day. • LOM Opex of C\$94.4/tonne of C\$57.7/carat. 	News release, 21 September 2017, Peregrine Diamonds successfully completes program at 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, July 25, 2017: Kivalliq Starts Exploration at Baffin Gold Property, Nunavut
Qilalugak	North Arrow Minerals / Stornoway Diamonds	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, 12 September 2017, North Arrow completes drill program at Q1-4 kimberlite, Naujaat
Committee Bay Gold Project	Auryn Resources (purchased North Country Gold Corp.)	Gold	Committee Gold Bay Project Highlights: <ul style="list-style-type: none"> • High grade gold endowment • Existing exploration infrastructure • 217,600 hectares with district scale discovery opportunities 	News release, 14 September 2017, Auryn Resources drills 12.2m of 4.7g/t gold near Three Bluffs




Projected existing and future mine lives. Ekati Diamond Mine projection includes underground mining of Fox Deep which would extend mine life to 2042 from 2035. The 2035 reflects inclusion of the mine's recently-approved Misery Deep project. Prairie Creek Mine, in its just announced feasibility study, subject to financing, is projecting a mid-2020 production start after a proposed 2.5 construction phase.

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Project Maps

