

Northern Mining News

Volume 13, No. 6

June 2019



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From the Editor ...

Time and again, the northern mineral resources industry demonstrates its commitment to local communities. The latest examples include Agnico Eagle's donation of \$1 million and the \$660,000 partnership investment from Gahcho Kué Mine, Anglo American and the Government of the Northwest Territories.

Agnico Eagle's donation, announced in celebration of the opening of the company's Meliadine gold mine in Nunavut, will go to three community initiatives which focus on safety and literacy, while the NWT partnership funding will be used for a major renovation of the Yellowknife Women's Society shelter.

On the exploration side, great to see a new kimberlite find at Gahcho Kué. Named after Alice Wilson, Canada's first female geologist, the Wilson kimberlite is the first kimberlite to be found on the GK joint venture in over 20 years. And congratulations to the Gahcho Kué team for surpassing one million hours without a lost time injury – a major safety milestone.

These are a few of the many ways resources have made the North better. But it's far from easy. And there's a new Senate report *Northern Lights: A wake-up call for the future of Canada*, illuminating why. We've included the executive summary and links to the document which concludes that after decades of neglect and disregard, climate change, and lack of infrastructure, that Canada's Arctic is in crisis. At the Chamber, this reports confirms what we've been saying for some time. We will continue to lobby for a strong minerals industry because we believe that it is a key way to ensure that ***the North IS the future of Canada***.

Happy reading! ... Editor

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

Agnico Eagle celebrates Meliadine opening with \$1M to community projects

At a community celebration marking the official opening of its new Meliadine Mine, Agnico Eagle announced the company will invest \$1 million in three community-priority projects that will create a legacy for Nunavummiut. Jim Nasso, Chair of Agnico Eagle’s Board of Directors, made the announcement at the June 19 Meliadine Official Opening held at the Rankin Inlet Community Hall, Nunavut.

“We could not have achieved this milestone without your support. It is through your insight and inclusiveness that we have accomplished so much. Together, we are growing and sharing the wealth that your communities hold in abundance and we are creating opportunities for the next generation of Inuit to determine their own future.” During the event, Mr. Nasso announced Agnico Eagle will help fund:

- \$250,000 toward the Rankin Inlet Fire Department’s New Regional Fire Training Centre. The centre will allow firefighters to train for emergencies in a safe, real time environment. Firefighters from Rankin Inlet, from communities across the Kivalliq Region and Nunavut, and from Agnico Eagle’s Meliadine Emergency Response Team, will be able to train for real life fire and rescue situations.
- A contribution of \$250,000 toward the Iltaqsiq - Nunavut Literacy Council’s purchase of a building in Rankin Inlet to serve as its permanent headquarters for Kivalliq. With this home base the Literacy Council will be able to regularly offer literacy training programs to Nunavut adults, youth and community members.
- A contribution of \$500,000 over the next five years to help the Iltaqsiq - Nunavut Literacy Council promote and advance adult and youth literacy skills across the territory. These training programs are often life-changing and are key to growing Nunavut’s literacy rates.



*At the official opening of its Meliadine mine, Agnic Eagle announced \$1 million in funding for community projects.
Photos Agnico Eagle*

More than 1,000 people attended the Community Celebration for the Meliadine Mine Opening, including special guests: the Honourable Joe Savikataaq, Premier of Nunavut; Aluki Kotierk, President of Nunavut Tunngavik Inc.; David Ningeongan, KIA President; Deputy Mayor of Rankin Inlet Harry Towtongie; and many community Elders. Agnico Eagle's Board of Directors, CEO Sean Boyd, President Ammar Al-Joundi, and Meliadine Mine General Manager Martin Plante.

In announcing Agnico Eagle's support for these life-saving and life-changing initiatives, Mr. Nasso said, "Agnico Eagle has developed tremendous respect and trust with you - the people of Nunavut – since we first came to visit this region back in 2007. We will continue to work hard to earn your trust. We will continue to work with you to build safe, strong and healthy communities. We will continue to help secure a better future for all Nunavummiut."

Click [here](#) for the article.

Gahcho Kué, Anglo American, GNWT to renovate Yellowknife women's shelter

The Gahcho Kué Mine is partnering with the Anglo American Group Foundation and the NWT Housing Corporation to fund and support a large-scale renovation of the Yellowknife Women's Society shelter, with the goal of providing safety and stability for one of Yellowknife's most vulnerable populations.

The commitment will see \$250,000 from the Anglo American Foundation, more than \$60,000 from Gahcho Kué Mine in kind through the reallocation of a project manager from the mine, and \$350,000 from the NWT Housing Corporation. The [funding was announced](#) in Yellowknife on June 6.

The project will create permanent, supportive housing including 24-hour staff support, so that women can improve their physical and mental health and wellbeing, and access trauma and addiction treatment services.

The renovation will see 16 single-room occupancy bedrooms constructed to replace the current floor plan of multi-occupant rooms and overflow beds in open spaces.

A doctor's office and a nurse's office are also being added, while the kitchen and common areas will undergo a complete rebuild, including brand new commercial-quality appliances.

"We at De Beers Group are excited to see this get started. We know the renovated shelter will enhance the care and support of those who need to avail of the space and services provided here," said Allan Rodel, Head of Operations, De Beers Group Managed Operations.

"It is our hope that the women who find themselves in need of this critical support will be able to emerge from their experience here healthier, and empowered, so we can all benefit as a society from their strength."

According to the Yellowknife Women's Society, women become homeless for a variety of reasons, but most often due to family and intimate partner violence, substance use disorder, or displacement from their small communities to larger centres like Yellowknife in search of employment, health care, or social services.

“These changes will allow for the shelter to focus more of their energy on the actual individuals and addressing their needs that bring them to the shelter. The project will create permanent, supportive housing for sixteen women so that women they can improve their physical and mental health and wellbeing, and access trauma and addiction treatment services. The goal of the project is to address women’s homelessness by increasing their stability within the Centre, and possibly allowing them to move on to less intensive supportive housing,” said Bree Denning, Executive Director, Yellowknife Women’s Society.

“This shared living configuration supports women who prefer to have common spaces where they can interact with others, as opposed to experiencing the isolation that can sometimes exist in the private rental market,” said Alfred Moses, Minister Responsible for the NWT Housing Corporation and for Addressing Homelessness. [Read the Minister's Statement in Legislative Assembly.](#)

“This project is an exciting example of how a good corporate citizen, like De Beers, can work with governments and non-governmental organizations to help make our communities places more people can call home.”

The renovations will allow women to rent rooms using income support, help recipients build a rental and credit history, which is a major step towards gaining financial independence, critical to eventually being able to rejoin society and move on from trauma.

During the renovation, clients will be relocated to a temporary shelter facility. It’s hoped the renovation will be complete by October of this year.



Gahcho Kué Mine is partnering with the Anglo American Group Foundation and the NWT Housing Corporation to fund a major renovation of the Yellowknife Women’s Society shelter. Photo De Beers Canada

New kimberlite discovered at Gahcho Kué diamond mine site

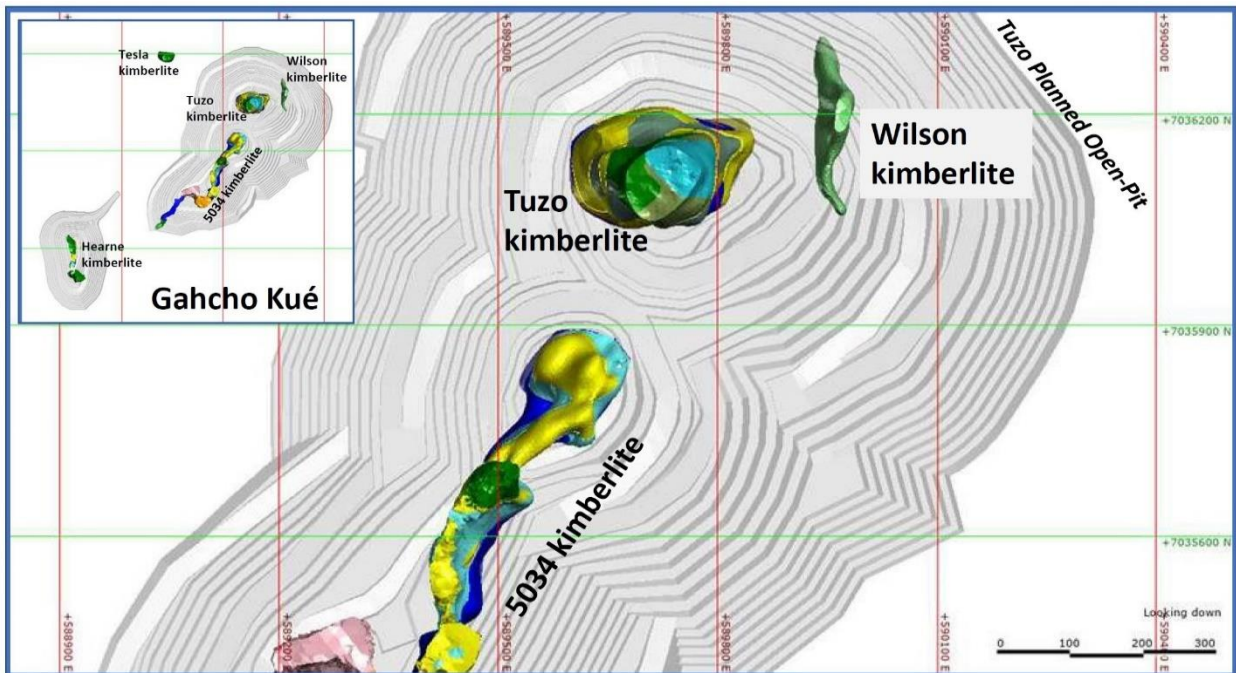
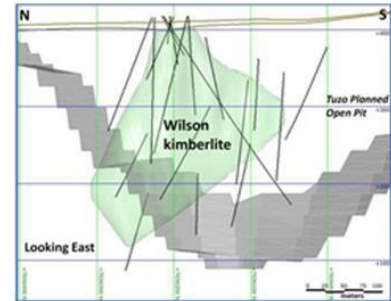
Updates Kennady North exploration

Mountain Province Diamonds Inc. announces the [discovery of a new kimberlite](#) at its Gahcho Kué Joint Venture (GKJV) leases. The Wilson kimberlite is located roughly 200 metres east of the Tuzo kimberlite and was discovered during drill testing of geophysical and geological anomalies in the area.

The Wilson kimberlite is the first kimberlite to be discovered in the GKJV area in over 20 years, and it lies well within the open pit mine plan for the Tuzo kimberlite. The Wilson kimberlite is named after Alice Evelyn Wilson (1881-1964), who is officially recognized as Canada's first female geologist.

“This very positive development, the discovery of the Wilson kimberlite, is a result of the combined efforts between Mountain Province and De Beers Canada, who are operators of the Gahcho Kué JV. The discovery of Wilson demonstrates the high exploration potential of the Gahcho Kué JV area, and after a 20-year discovery hiatus, it confirms that we are on track for discovering new kimberlites in this region. This discovery also heightens our focus on the potential for more discoveries in the corridor between the Gahcho Kué JV and the Kelvin-Faraday kimberlites,” said President and CEO of Mountain Province Stuart Brown. Detailed images and other data that follow are also available on the company website at www.mountainprovince.com.

The Wilson kimberlite was discovered during an exploration drilling program that was designed to conduct drill-testing of geophysical and historical drilling anomalies in the area surrounding



The newly discovered Wilson kimberlite is located within the open-pit plan for the nearby Tuzo pipe.

Images Mountain Province

the Gahcho Kué kimberlites. The discovery drillhole MPV-19-496C intersected tuffitic kimberlite beneath 18 meters of lake water and bottom sediments to roughly 137 meters, and hypabyssal kimberlite from 152 to 207 meters. These divisions are preliminary; detailed logging of the core that is currently underway is expected to identify more complex internal lithologies. To date, 18 drillholes have been completed and preliminary drilling results are summarized in the table in the release.

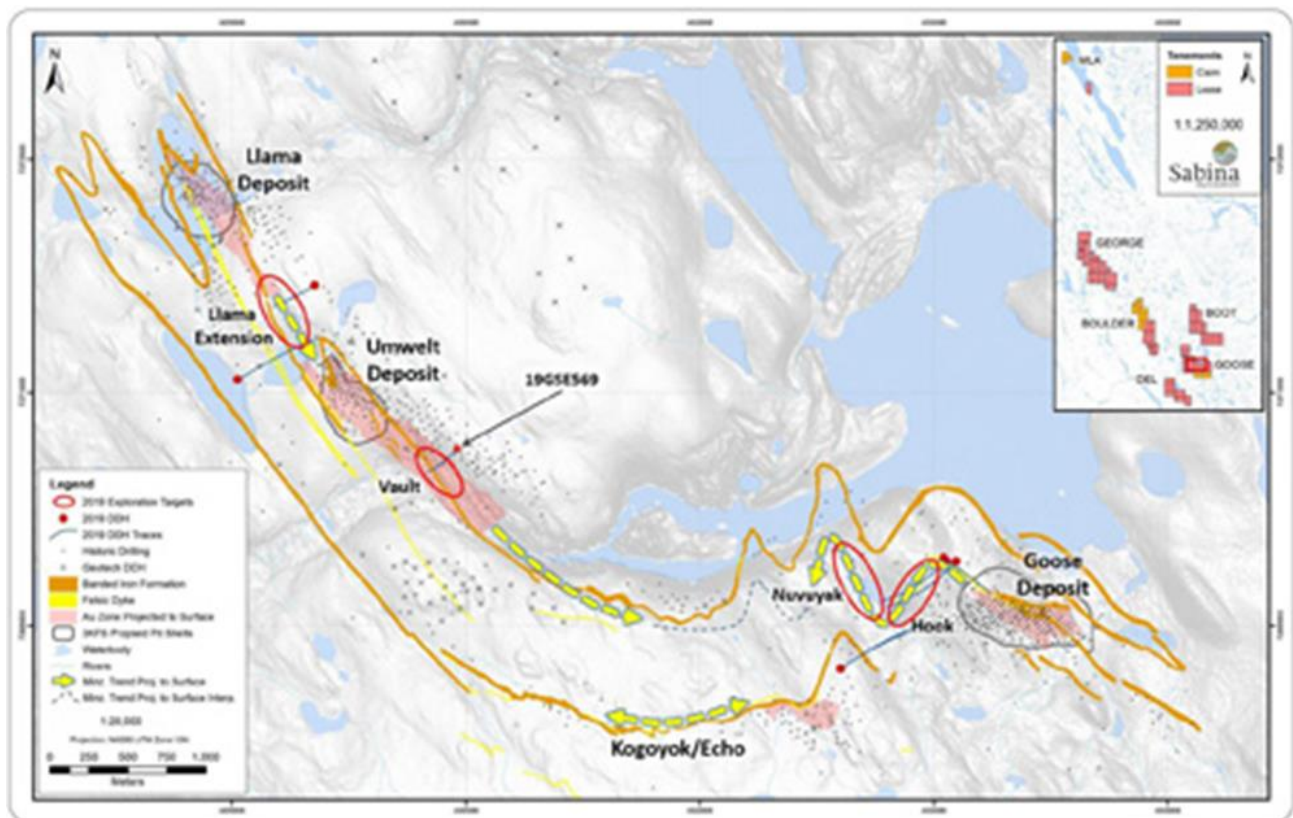
Sabina Gold & Silver reports initial results from spring drill program

- **Drill hole 19GSE569 returns 14.97g/t Au over 21.75m including 28.94 g/t Au over 5.20m**
- **180 meters up-plunge of the high-grade Vault Zone**

Sabina Gold & Silver Corp is pleased to announce [initial results from this year's spring exploration diamond drilling program](#) at its 100% owned Back River Gold Project in Nunavut.

The 2019 spring exploration drill program of approximately 6,400 meters in 8 drill holes at three target areas was recently completed at the Goose property.

Drill hole 19GSE569 located approximately 180 meters up plunge from the Umwelt Vault zone, returned 14.97 g/t Au over 21.75m including 28.94 g/t Au over 5.20m. The purpose of this hole was to build on previous high-grade results (including Vault) by continuing to demonstrate



Drilling targets included the new discovery area at Nuvuyak/Hook, high-grade optimization opportunities up plunge from the Vault zone at the Umwelt underground and continued scoping at the Llama Extension zone.

Image Sabina Silver & Gold

continuity within a high-grade corridor in the Umwelt underground. Additional opportunity remains up and down plunge for further optimization. A high-grade corridor at Umwelt underground could provide opportunities to positively impact mine economics. See Figure 1 for a set of images illustrating the high-grade corridor, and Table 2 for a list of recent drilling values.

Gahcho Kué Mine surpasses one million hours worked without a lost time injury

Gahcho Kué Mine has achieved over one million hours of work without a lost time injury (LTI).

The remote fly-in/fly-out mine operates 24-hours a day just south of the Arctic Circle and experiences extreme weather conditions, logistic challenges and seasons of excessive daylight and excessive dark.

The last LTI occurred in September 2018. The Gahcho Kué team attributes their success in large part to a recent campaign at the mine that encourages employees to focus on their personal safety and to encourage colleagues to do the same, called the *Brothers' & Sisters' Keepers Program*.

Launched in January 2019, first aids are down 16% and medical aids are down 42% in the first six months of the program.

“We are on a journey that requires us to look out for one another and be

relentless in our safety commitment,” said Patrick Kramers, Superintendent of Safety, Health, Risk and Training. “The road to Zero Harm isn’t an easy one, but I can tell you with absolute certainty that it’s a road well-worth travelling.”

A Lost-Time Injury (LTI) is a work-related injury resulting in an individual being unable to resume their regular duties on the next calendar day after being injured.

The operation has a history of safety excellence, including the Mine Rescue Team winning the Best Surface Overall title at the 2018 and 2019 Northwest Territories/Nunavut Mine Rescue Competitions in Yellowknife. Gahcho Kué also received the 2017 Hatch-CIM Project Safety Award from the Canadian Institute of Mining (CIM) and the 2016 Workplace Health and Safety Award from the Yellowknife Chamber of Commerce.



Congratulations to the Gahcho Kue team for surpassing one million hours without a lost time injury! Photo De Beers Canada

The De Beers Group Victor Mine received four consecutive John T. Ryan Safety Awards from the CIM between 2015 and 2018 and the company's Canadian division was named as one of Canada's safest employers in 2017 and 2018. See the release [here](#).

Fortune Minerals provides NICO project technical report update

Four development scenarios being assessed with a new mine plan and expanded mill throughput rate and improvements to the cobalt and bismuth downstream process

Fortune Minerals is pleased to provide a progress report on the study nearing completion by Hatch Ltd., P&E Mining Consultants Inc. and Micon International Limited updating the 2014 National Instrument 43-101 Technical Report on the NICO Project Feasibility Study.

The updated Technical Report is assessing the economics of four different development scenarios for the company's 100% owned NICO Cobalt-Gold-Bismuth-Copper Project, including a vertically integrated project with a refinery in southern Canada as originally contemplated as well as lower capital cost options that involve selling gold and concentrates from the mine site in the Northwest Territories. The study will be based on current capital and operating costs and currency exchange rates at a 30% expanded throughput rate of 6,000 tonnes of ore processed in the mill per day and longer term commodity prices reflecting metal market dynamics. Hatch has also completed value improvement studies for several unit operations that are being engineered for inclusion in the updated Technical Report. In particular, changes to the cobalt and bismuth downstream process, together with the higher throughput rate, will help mitigate increases in capital costs from escalation and reduce commissioning and operational risks. They will also result in the production of a superior cobalt sulphate product to the one produced in Fortune's earlier pilot plants.

Development scenario options

Fortune has executed confidentiality agreements with more than 45 companies interested in participating in the development of the NICO Project and/or securing a reliable Canadian and ethical supply of cobalt. These companies are from diverse business sectors and have different objectives with respect to the types of products they require and their expectations for financial return verses supply chain transparency and security of supply for raw material procurement. Fortune is assessing the following different development scenarios for the Technical Report to support project finance and strategic partnership negotiations:

Scenario 1: Produce cobalt and bismuth concentrates at the mine site and ship these to the company's proposed refinery in southern Canada for downstream processing to gold doré, cobalt sulphate, bismuth ingot and copper cement

Scenario 2: Only the mine site facilities are constructed with cobalt and bismuth concentrates produced in the concentrator and gold recovered by cyanide leaching of the concentrates to produce gold doré, and cobalt and bismuth concentrates, then sold to third party processors.

Scenario 3: Gold doré and cobalt and bismuth concentrates are produced at the mine site with gold and bismuth concentrate sold to third party processors and the cobalt concentrate shipped to a lower capital cost refinery in southern Canada for processing to cobalt sulphate.

Scenario 4: Cobalt and bismuth concentrates are produced at the mine site and shipped to the refinery in southern Canada for downstream processing to gold doré, a cobalt carbonate intermediate product, bismuth ingot and copper cement.

See the [full release](#) for details on:

- Cobalt Process Improvements
- Bismuth Process Improvements
- Other Project Improvements

Update on actions advancing NorZinc’s Prairie Creek mine

In June, NorZinc Ltd. provided an update on various aspects of its Prairie Creek Mine project.

2019 summer site preparation program underway

Site work at Prairie Creek for 2019 began in May. In addition to typical maintenance and ongoing environmental management, the site program will focus on preparing for 2020 activities, including Phase 1 road construction in Q1 2020 followed by site refurbishment in the summer of 2020.

NorZinc continues its construction optimization studies under the guidance of Scott Fulton, newly appointed Prairie Creek Project Manager, and further developments of the program are expected as work progresses.

The construction of the Prairie Creek Mine is scheduled to occur in two phases. In 2020, Phase 1 of the All Season Road (“ASR”) will be constructed and limited supplies will be delivered to site to support the refurbishment of existing equipment and accommodation and the repair of key infrastructure. In 2021 and 2022, the main site construction will be completed, including installation of a dense media separation circuit, new backfill plant, electrical facilities, flotation circuits, as well as underground development to access high grade ore for the initial years of operation. Most underground development for the current 15-year mine life is planned to be completed between 2021 and 2024.

Permitting update

The final permitting stage for the ASR access to the Prairie Creek Mine is progressing. With the submission of the Post-EA Information Package for the ASR permit in February to the Mackenzie Valley Land and Water Board and Parks Canada, the process has continued on schedule. In April, the company received 563 comments from the official Reviewers (including representatives of indigenous groups, environmental specialists, Parks Canada, and departments of the Government of the Northwest Territories). On May 15, 2019, the company provided written responses to all the comments and in early June participated in a three-day technical session with the Reviewers in Yellowknife to discuss the comments.

Review of critical programs for Q1 2020 road commencement

On May 6, 2019, Scott Fulton was appointed Prairie Creek Project Manager. Mr. Fulton has 25 years of multi-industry experience and has spent the last 12 years in mine construction and development as a project manager for Wood (formerly Amec Foster Wheeler). He has executed the construction of a number of new mines in Canada and the United States, specifically

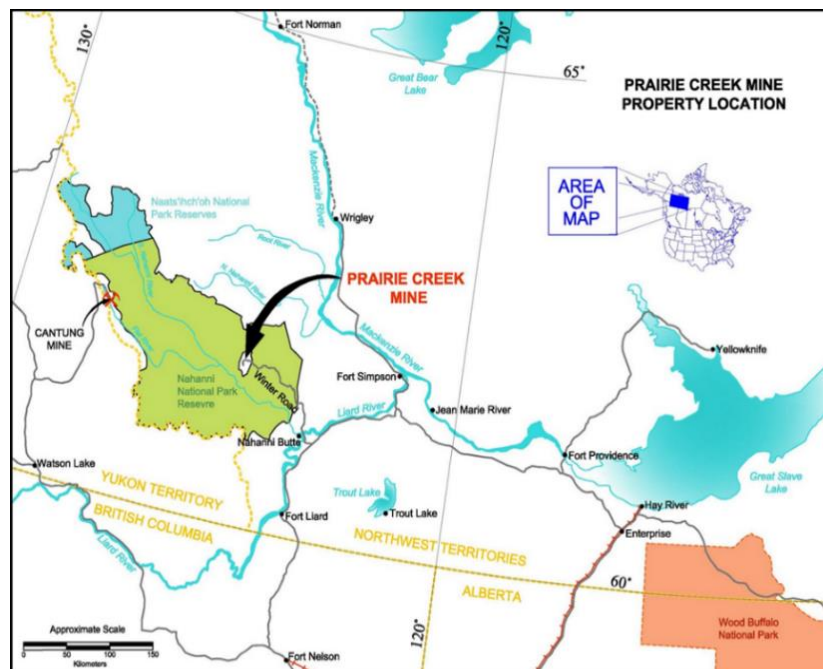
focusing on northern climates and brownfield expansions. The projects he has worked on include New Afton, Kitsault, Mount Emmons, Brucejack, Rainy River and Carlsbad East.

Study underway for mine enhancement

A proven and probable reserve of 8.1 million tonnes of 8.6% zinc, 8.1% lead and 3.6 ounces per ton silver and an undiluted inferred mineral resource of 7.1 million tonnes of 11.3% Zinc, 7.7% lead and 4.8 ounces per ton silver were reported in Prairie Creek Property Feasibility Study NI 43-101 Technical Report filed on SEDAR in September 2017. In June 2019, the company commenced a proof of concept study with its technical advisors on the possibility of operational enhancement.

Indigenous participation update

After signing the Traditional Land Use Agreement with the Nah?a Dehé Dene Band (“NDDB”) earlier this year, the company is continuing its ongoing engagement with indigenous groups regarding the development of the Prairie Creek Mine, which include finalizing negotiations for a road benefit agreement (“RBA”) with the Líídlíi Ku’e’ First Nation (“LKFN”) and an environmental management agreement with NDDB and LKFN. The company is also discussing various specific collaborative agreements with individual indigenous groups for the development of the Prairie Creek Mine as well as potential joint venture collaboration between indigenous groups. The company will provide updates as these discussions progress. These agreements will provide short term and long term benefits to the communities, and assurance that the Prairie Creek Mine has strong local indigenous support throughout its construction, operation and reclamation.



In 2020, phase 1 of the all season road will be constructed and limited supplies will be delivered to site for refurbishment of existing equipment and accommodation and the repair of key infrastructure. Image NorZinc

Management and board change

Alan Taylor, COO and VP Exploration of NorZinc, who we have been honoured to have involved with the Prairie Creek project for 26 years, will be retiring effective July 31, 2019. Mr. Taylor will continue until January 31, 2020. See the full release [here](#).

Nighthawk explores new high-grade targets and continues drilling at Colomac

Highlighted Intercept - Hole C19-19 returns 60.75 metres of 2.61 gpt Au, including 13.40 metres of 4.45 gpt Au, and including 7.75 metres of 6.85 gpt Au

Nighthawk Gold Corp. provided additional drilling results from the Colomac Gold Project, centrally located within its 100% owned Indin Lake Gold Property in the NWT. Nine drillholes (2,992 metres), were recently completed, that targeted select areas within the south-central portion of Zone 2.0 of the Colomac Main sill, considered favourable for hosting higher-grade mineralization. Drilling spanned a 500-metre section of the zone with all holes intersecting mineralization, highlighted by hole C19-19 which returned 60.75 metres grading 2.61 grams per tonne gold, including 13.40 metres of 4.45 gpt Au, and including 7.75 metres of 6.85 gpt Au.

Dr. Michael Byron, President and Chief Executive Officer said, "Zone 2.0 is the location of the former producing open pit. It is also the widest section of the sill and contains the largest portion of the current resource. With these latest results we have successfully traced a newly discovered continuous higher-grade corridor within the southern part of the zone, to a vertical depth of almost 350 metres where it remains open in all dimensions. These results are a true testament to the sill's remarkable untapped endowment. Being largely unexplored to depth, we consider this area to be extremely valuable for resource growth opportunities, as well as a strong candidate for hosting additional higher-grade mineralization."

"We are approaching our halfway point in terms of metres drilled and are on track to easily surpass our originally planned 35,000 metres. At present we have two drills in operation at Colomac with the third now active at Treasure Island, located 12 kilometres to the north. Later in the program drills will be mobilized to some of our other high-priority regional prospects as we continue to advance our thesis that the Indin Lake Greenstone Belt has the potential to become Canada's next gold camp."

Zone 2.0 Drilling Highlights:

- Hole C19-19 intersected 60.75 metres of 2.61 gpt Au (47.00 metres true width), including 13.40 metres of 4.45 gpt Au, and including 7.75 metres of 6.85 gpt Au; a lower interval returned 26.95 metres of 3.20 gpt Au, including 8.15 metres of 5.16 gpt Au.
- Hole C19-12 intersected 55.00 metres of 2.31 gpt Au (20.00 metres true width), including 27.00 metres of 3.10 gpt Au gold, and including 7.50 metres of 7.31 gpt Au, and 3.75 metres of 13.78 gpt Au.
- Recent drilling followed up on the initial successes achieved by the 2018 program within the southern portion of Zone 2.0 by tracing a new broad zone of higher-grade mineralization from near surface to a depth of 350 metres where it remains open.
- Drilling to-date within Zone 2.0 has continued to document distinct broad domains of mineralization with localized corridors of higher-grade material that appear to plunge steeply to the north, and which remain largely unexplored to depth.
- The newly established presence of higher-grade corridors within Zones 1.5, 2.0, 2.5, 3.0, and 3.5, support the likelihood that additional higher-grade regions exist along the sill's 9-kilometre length, as well as within the other parallel satellite sills.

Note: All assays are uncut (see Table 1 in the [full release](#) for detailed data).

Avalon completes agreement on Nechalacho rare earth elements project

Avalon Advanced Materials Inc. announced that further to its [news release dated January 30, 2019](#), it has entered into a definitive agreement with Cheetah Resources Pty Ltd. to collaborate in the development of the rare earth resources on its mining leases collectively comprising the Nechalacho Project at Thor Lake near Yellowknife.

Under the agreement, Cheetah will acquire ownership of the near-surface mineral resources on the Property above a depth of 150 metres above sea level (approximately 100m below surface), principally the T-Zone and Tardiff Zones, and technical information related thereto, for a total cash consideration of C\$5.0 million. Avalon will retain ownership of the deeper resources in the Basal Zone that were the subject of its 2013 Feasibility Study. The first \$200,000 was provided as a deposit following the signing of the terms sheet in January. The balance of the cash consideration will be paid incrementally over a four-month period from the date of the Agreement, with the next payment of \$1.5 million being due on June 30, 2019.

Avalon's President and CEO Don Bubar commented, "We are very pleased to have reached agreement with Cheetah on this innovative collaboration model, which allows for relatively rapid initial development at a small pilot scale, with low capital requirements and minimal environment impacts. Once established as a reliable long-term source of the magnet rare earths, the business can grow to establish a new North American supply chain of these critical materials. With China now controlling at least 80% of global rare earth supply, and threatening to restrict exports, new domestic supply chains to serve the North American market must be created to reduce reliance on supplies of rare earths from China."

Cheetah is focused on the small-scale development of rare earth resources enriched in the "magnet rare earths," neodymium and praseodymium ("Nd-Pr"), presently in short supply and high demand for clean technology applications, notably electric vehicles.

Cheetah is presently planning to proceed with a work program on the Property this summer, managed by Avalon, to confirm rare earth resources in the T-Zone; collect a bulk sample for further metallurgical process testwork; and complete additional environmental studies needed for project permitting to supplement and validate Avalon's extensive previous environmental baseline work. Discussions will also be initiated with Indigenous partners towards creating new business relationships for Cheetah that will maximize economic opportunities for local Indigenous communities. See the June 24 [release](#).

TMAC announces results of annual and special meeting of shareholders

TMAC Resources Inc. is pleased to announce the results of the 2019 Annual General and Special Meeting of Shareholders held on June 19, 2019 in Toronto, Ontario. The company is also announcing the retirement of John Lydall from the Board of Directors.

Terry MacGibbon, Executive Chairperson, stated, "On behalf of the Board of Directors and management, I would like to thank John Lydall for his contributions and years of dedicated service. John has been a valued member of the TMAC Board since the beginning. We wish him all the best in his retirement."

Election of Directors: each of the nominee directors listed in TMAC’s management information circular dated May 9, 2019 was elected, including:

- Andrew B. Adams
- Leona Aglukkaq
- João P. S. Carrêlo
- Franklin L. Davis
- E. Randall Engel
- Terrance MacGibbon
- David W. McLaren
- Jason R. Neal
- Jacques Perron

See the [release](#) for more details.

New Senate Report on the north is a wake-up call for the future of Canada

Canada’s Arctic is in crisis. The urgency results from decades of neglect and disregard, climate change and lack of infrastructure.

In June, the Special Senate Committee on the Arctic released [Northern Lights: A Wake-Up Call for the Future of Canada](#), concluding its intense year-long study and is telling Canadians that “the North IS the future of Canada.”

The following text is the report’s executive summary.

For far too long, the Arctic and northern regions have been neglected by Canada. Crises remain unresolved and the well-being of residents, left to tackle enormous challenges on their own, has been overlooked. Arctic residents are more than up to the task of resolving these challenges and they know what needs to be done. It is essential that the Government of Canada recognize that the Arctic requires greater attention, investment and consistent support from the federal government, to complete Canada’s nation-building project. The impact of federal underinvestment hits hardest on the Arctic’s greatest asset, Indigenous youth. Opportunities for nation-building can no longer be missed.

As highlighted by the title of this report, Northern Lights: A Wake-Up Call for the Future of Canada, the Special Senate Committee on the Arctic (the committee) understands that the Arctic is Canada’s future. This report is an urgent wake-up call. The committee’s mandate was to study the “significant and rapid changes to the Arctic and impacts on original inhabitants.” As the Government of Canada prepares a new policy framework for the Arctic, this study recommends important changes for federal policy in areas such Canada’s sovereignty and safety, devolution of federal programs and services and investments in infrastructure to support the well-being and future prosperity of Arctic communities. This report, like others before it, makes recommendations that Arctic residents have raised time and time again.

Canada’s sovereignty in the Arctic

Arctic residents keenly observed other countries’ interest in the region’s natural resources and the Northwest Passage. The committee recommends that the Government of Canada ensure the Canadian Arctic security and safety and assert and protect Canada’s sovereignty in the Arctic. In the committee’s view, actions ensuring prosperous, sustainable and safe Arctic communities are vital to enhance Canada’s ability to project its Arctic foreign policy, including sovereignty in the region.

Empowering Arctic residents

The committee heard from numerous federal departments with responsibilities related to the Arctic, often working in silos. Indigenous and territorial leaders stressed that policy, legislation and service delivery must occur in the North, by the North, for the North. The committee therefore recommends that the Government of Canada develop a strategy that: 1) empowers Arctic and northern governments to assume roles in delivering federal programs and services to its residents; and 2) devolves federal programs and services related to the Arctic and northern regions to local, territorial and Indigenous governments.

Infrastructure building to face the challenges of a changing Arctic

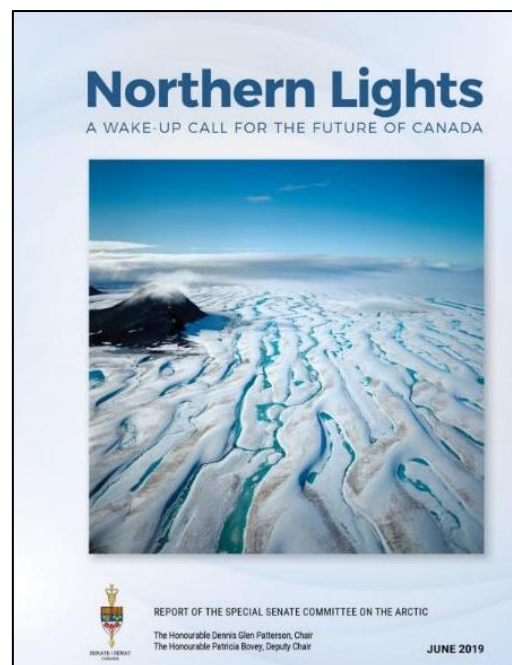
With little infrastructure in many communities in the Arctic, people struggle to access water and sanitation, housing, good schools and healthcare. As the climate warms and permafrost thaws, the urgency of the Arctic's challenges come into plain view: traditional food supplies are threatened; homes are endangered by the rising seas and the ice becomes unsafe for travel.

Understanding that Arctic communities deserve better, the committee recommends that the Government of Canada:

1. complete a building code adapted to Arctic conditions and the effects of climate change;
2. implement an action plan to mitigate the effects of climate change on existing and new infrastructure, including housing;
3. take immediate measures to address the housing crisis in the Arctic by funding a complete continuum of Arctic housing; and
4. report on the effects of its investments on housing annually to local, Indigenous and territorial governments.

Broadband telecommunications access in the Arctic is unavailable, poor and, where available, expensive and often unreliable. The committee agrees with witnesses that broadband access is necessary and recommends that the Government of Canada establish a broadband telecommunications action plan with dedicated funds to support fibre deployment to underserved regions in the Canadian Arctic by March 2020.

The committee strongly believes that the social, cultural and economic well-being of Arctic residents should be the cornerstone of the forthcoming federal policy framework for the Arctic and northern regions. Implementation of the recommendations put forward by this report will contribute to the effectiveness of that framework for the future of Canada.



Socioeconomic and Environmental Impact of Large-Scale Diamond Mining

Trucost, part of S&P Global were commissioned to undertake a world-first comprehensive analysis of the total value contribution of The Diamond Producers Association (DPA) members to better understand all material socioeconomic and environmental impacts and benefits of diamond mining.

The Diamond Producers Association (DPA) is the representative organisation of seven of the world's largest diamond producers, established to maintain demand for, and confidence in diamonds, by promoting the integrity and reputation of the diamond industry and sharing best practices. The membership of the DPA includes ALROSA, De Beers Group, Dominion Diamond, Lucara Diamond, Murowa Diamonds, Petra Diamonds, and Rio Tinto.

The study sought to capture not only the economic benefits of diamond mining, which are well understood, but also the social and environmental benefits and impacts associated with the production process. The Trucost Total Value methodology seeks to quantify and capture the full value of these benefits and impacts to provide an assessment of the value created by the DPA members.

The aims of the Total Value study are to:

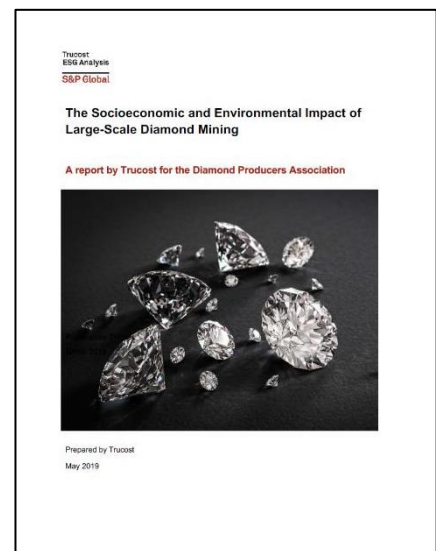
- Understand the material socioeconomic and environmental benefits and impacts of diamond production.
- Leverage this understanding to identify opportunities to minimise the impacts of the industry whilst maximizing the positive value created.

Together the DPA members employ modern large scale mining techniques to produce 75% of the world's annual diamond production. This reports measures the benefits and impacts of the DPA member mining operations

Key findings:

- The DPA members provide \$16,022 billion in total net benefit contribution
- \$4 billion is contributed to salaries and benefits
- The DPA members pay 4.8 times the living wage paid to the average worker
- The Greenhouse gas footprint per one carat of polished diamond is 160kg CO₂e per carat, 69% less than the estimated carbon footprint of lab grown diamond

“This report marks the first time Trucost has seen an industry come together to measure its environmental, social and economic benefits and impacts,” said Libby Bernick, Managing Director – Global Head of Trucost Corporate Business. “This data provides a baseline for future progress on issues, including environmental impact. We are very excited to work with the Diamond Producers Association and its Member companies to release this research on the total value of their benefits and impacts, promoting greater transparency on environmental and social performance to the capital markets.”



Welcome new members!

Please join us in welcoming the newest Chamber of Mines member!

- **Orion Fire Distribution Limited**, based in Surrey, BC, is a supplier of promotional products and various other products to mine fire services. Contact is Ken Hansen, General Manager, ken@orionfire.com; 604-372-0113; website – www.orionfire.com.

Calendar of events

- **2019 Geoscience Forum** – The 47th Annual Yellowknife Geoscience Forum will be held Tuesday, November 19 - Thursday, November 21, 2019 and is a joint initiative of the NWT & Nunavut Chamber of Mines and the NWT Government, Industry Tourism, & Investment. Abstracts are now being sought for the 2019 Geoscience Forum. Click [here](#) to get the details. For additional information, contact the Conference Coordinator, Cheryl Wourms at the NWT & Nunavut Chamber of Mines, conference@miningnorth.com

Member news releases this past month

- 2 July 2019 [Gahcho Kué mine surpasses one million hours worked without a lost time injury](#)
- 28 June 2019 [Kaizen Discovery announces election of directors at AGM](#)
- 27 June 2019 [NorZinc provides corporate update](#)
- 27 June 2019 [Auryn Arranges \\$1.9 million Flow-Through Funding](#)
- 26 June 2019 [Fortune Minerals announces results of annual general meeting of shareholders](#)
- 26 June 2019 [Agnico Eagle provides notice of release of second quarter 2019 results conference call](#)
- 26 June 2019 [Dunnedin extends warrant expiry dates](#)
- 26 June 2019 [Nighthawk explores new high-grade targets and continues drilling widespread mineralization at Colomac](#)
- 25 June 2019 [Avalon completes collaborative development agreement on Nechalacho REE project](#)
- 20 June 2019 [North Arrow Minerals Presentation to Diamonds in Canada Symposium](#)
- 19 June 2019 [Sabina Gold & Silver reports initial results from spring drill program](#)
- 19 June 2019 [TMAC announces results of annual and special meeting of shareholders](#)
- 19 June 2019 [Agnico Eagle celebrates Meliadine Mine opening with \\$1 million contribution to community legacy projects](#)
- 18 June 2019 [Auryn to drill Committee Bay Gold Project](#)
- 17 June 2019 [Evrin appoints Dave Groves as Vice President of Exploration](#)
- 14 June 2019 [Range Resources Ltd. provides operational update and announces a director's resignation](#)
- 11 June 2019 [Stornoway announces bridge financing](#)
- 11 June 2019 [Mountain Province announces the discovery of a new kimberlite at Gahcho Kué and provides Kennady North exploration update](#)
- 7 June 2019 [Nighthawk closes \\$12.6 million bought deal private placement financing](#)
- 6 June 2019 [De Beers Group, NWTHC and Yellowknife Women's Society team up on project to support women's housing needs](#)
- 6 June 2019 [Fortune Minerals provides Nico project technical report update](#)

Exploration & development news briefs

Auryn Resources Inc. is pleased to announce that it will commence [core drilling at its 100% owned Committee Bay](#) gold project in Nunavut, Canada during the first two weeks of July. The drill program will follow-up on four of the twelve new targets generated at the project through machine learning (see [Feb. 19, 2019 release](#)), and will consist of approximately 3000 meters. The Aiviq and Kalulik targets, where 2018 intercepts occurred within strongly sulphidized banded iron formation and shear zones, have been refined through the use of machine learning and will form the basis of the 2019 summer drill program.

The company plans to drill along the 15-kilometer strike length of the Aiviq – Kalulik structural corridor that has all the geological characteristics necessary to host major gold deposits with respect to alteration and structural preparation (Figure 1). To enhance the targeting efforts in the field, Auryn will be running induced polarization surveys to identify both chargeability and conductivity targets along the corridor.

On June 27, Auryn [announced](#) it had arranged a CAD \$1.9 million non-brokered flow-through private placement.

Dunnedin Ventures Inc. [announced that it will extend the expiry dates](#) of 8,957,000 outstanding Dunnedin warrants by two years as detailed below (Table 1 in the full release). Approval from the TSX Venture Exchange has been received. The warrants were originally issued on July 17, 2017 in connection with a private placement of units of the company (see news releases dated June 20, 2017 and July 20, 2017). Subsequent to the issue of the warrants, the company spun out Solstice Gold Corp through a statutory plan of arrangement and each Dunnedin warrant held as of the record date of the Arrangement was deemed to have been exchanged for a fully-vested Dunnedin replacement warrant and one-third of one fully-vested Solstice warrant. The exercise prices for the Dunnedin replacement warrants have been adjusted to account for the Arrangement (see news releases dated January 31, 2018 and June 4, 2018). The Warrants continue to be exercisable at their adjusted exercise price and all other terms of the Warrants will remain the same.

Evrin Resources Corp. is pleased to announce the [appointment of Dave Groves as Vice President of Exploration](#) for the company. “Dave will be a key contributor to our generative efforts as well as providing technical leadership and assisting with business development,” stated Paddy Nicol, President and CEO of Evrim. Mr. Groves has over 35 years’ experience in precious-metals exploration, resource development and exploration business development. Most recently, he served as a non-executive director for Sarama Resources and as a consultant for Evrim, where he provided target-generation and program-design services in North America. Previously, Mr. Groves held the position of Vice

President, Global Exploration for Centerra Gold where he led and managed the company’s resource development and greenfield exploration programs in Kyrgyzstan, Mongolia, Turkey, Russia and China. Before Centerra, and for much of his career, Mr. Groves was with Newmont Mining Corporation in exploration and business development roles in North America, Australia, Europe and West Africa.

Fortune Minerals Limited reports that the nominees, including Carl Clouter, Robin E. Goad, Glen Koropchuk, John McVey, Mahendra Naik, David Ramsay, and Edward Yurkowski, listed in the management information circular for the 2019 Annual General Meeting of shareholders held on June 25, 2019 were elected as directors of Fortune. Detailed results of the vote based on proxies received are included in the [release](#).

Kaizen Discovery Inc. [reports](#) three director nominees listed in Kaizen’s management proxy circular, dated May 14, 2019, were re-elected as directors of the company by shareholders at Kaizen’s Annual General and Special Meeting held today in Vancouver. Kaizen’s Board of Directors is comprised of David Boehm, Eric Finlayson and Terry Krepiakovich.

Nighthawk Gold Corp. [announced that it has closed the bought deal private placement](#), announced on May 15 and May 16 2019, co-led by PI Financial Corp and BMO Capital Markets, and also including Haywood Securities Inc. (the “Underwriters”), and that the over-allotment option granted to the Underwriters was exercised in full.

Pursuant to the Offering, the company issued 14,375,000 flow-through common shares at a price of \$0.40 per FT Share and 13,915,000 charity flow-through common shares (the “Charity FT Shares”), at a price of \$0.495 per Charity FT Share for gross proceeds of \$12,637,925 million. Both the FT Shares and Charity FT Shares qualify as “flow-through shares” within the meaning of the Income Tax Act (Canada).

The gross proceeds from the sale of the FT Shares and Charity FT Shares will be used for exploration expenditures on Nighthawk’s Indin Lake Gold Property located in Canada’s Northwest Territories, with an increased exploration budget of \$15 million for 2019, with a minimum of 35,000 metres of drilling on its Colomac Gold Project and several of its high-priority regional targets, including approximately \$1 million dedicated to its regional prospecting and mapping initiatives.

Silver Range Resources Ltd. is continuing to focus on project generation and cost-effective early stage exploration, while maintaining its sales efforts concerning optioning of drill-ready prospects in Nevada and Nunavut. The company is currently conducting grassroots exploration and property investigations in Nevada and will soon begin a comprehensive review of a large,

southwestern US exploration database which it recently purchased. By continuing to develop and acquire new projects during this quiet period in the market cycle, the company is positioning itself for renewed growth as investors return to the gold space.

Silver Range is looking forward to receiving news from several of its optioned projects, notably Hard Cash in Nunavut where Canarc Resources is planning a maiden drill program this summer.

Silver Range also announces the resignation of Mr. Barry Heck as a director of the company due to increased time requirements for his other business activities. The company thanks Barry for his considerable contributions to Silver Range since its formation and wishes him the best in his future endeavors. See the release [here](#).



Panorama of the fuel / sample cache location on an esker nearby to North Arrow's Mel diamond property in Nunavut.

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For further information contact us at:
103-5102 50 Ave, Yellowknife, NT X1A 3S8

Email: info@miningnorth.com

Website: <http://www.miningnorth.com>

Mines & promising Northwest Territories mine projects

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

Project Name	Owner(s)	Commodity	Description	Status
Ekati Mine	Dominion Diamond Mines ULC , and Dr. Stewart Blusson	Diamonds	Canada's first and largest diamond mine, 310 km. NE of Yellowknife. Open pit and underground. Mine life potentially to 2041. Workforce in 2017, 1,734. The Ekati mine consists of two joint ventures, the core zone joint venture and the buffer zone joint venture, in which the company has interests of 88.9% and 72.0%, respectively. Reserves at 31 January 2017 were 68.9 million tonnes at 1.5 carats per tonne for 105.4 million carats. Inferred mineral resources were 20.6 million tonnes at 1.0 carats per tonne for 19.8 million carats. Additionally, Fox Deep indicated and inferred resources of 51.0 million tonnes at 0.4 carats per tonne for 18.7 million carats.	Media release, 22 March 2019 Canadian Championship Dog Derby and Dominion Diamond announce race schedule
Diavik Mine	Rio Tinto (operator) & Dominion Diamond Mine ULC	Diamonds	Canada's largest producer of diamonds, 300 km NE of Yellowknife. Mine life to 2025. Became all underground mine in 2012. Workforce in 2017, 1,233. New A21 open pit development will cost US\$350m over 4 years. A21 commence ore production in the first half 2018. Reserves at Dec 31, 2017 were 15.1 million tonnes at 2.8 carats/tonne for total of 42.5 million carats.	Media release, 1 October 2018 Diavik Stars of the Arctic dazzle in rough diamond tender
Gahcho Kué Mine	De Beers Canada Inc (51% and operator) and Mountain Province Diamonds Inc. (49%)	Diamonds	Located approximately 280 km NE of Yellowknife, NWT. Open pit mine with life of 12 years. Mine reached commercial operation in Q1 2017. Workforce in 2017, 483. Plan is for three open pits to mine 5034, Hearne and Tuzo ore bodies producing average of 4.5 million carats/year. Hearne began production in April 2018. Reserves at 31 March 2014 (production commenced Q3 2016) were 35.4 million tonnes at 1.6 carats per tonne for 55.5 million carats.	Media release 2 July 2019 Gahcho Kué mine surpasses one million hours worked without a lost time injury Media release 6 June 2019 De Beers Group, NWTHC and Yellowknife Women's Society team up on project to support women's housing needs
Prairie Creek	NorZinc Ltd.	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 construction phase, production proposed for mid-2020. In 2017, the Mackenzie Valley Environmental Impact Review Board recommended approval of the proposed all season road.	Media release 27 June 2019 NorZinc provides corporate update

			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.	
NICO	Fortune Minerals Limited.	Cobalt-gold-bismuth-copper	Proposed open pit and underground mine located 50 km NE of Whati. Estimated mine jobs: 150. Mine life, 20 years. 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. 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.	Media release 26 June 2019 Fortune Minerals Announces Results of Annual General Meeting of Shareholders Media release 6 June 2019 Fortune Minerals provides Nico project technical report update
Kennady North	Mountain Province Diamonds Inc.	Diamonds	Kennady North project comprises 13 leases and claims immediately to north and west of 4 leases controlled by the Gahcho Kué Joint Venture (see above). Project aims to identify a resource along the Kelvin – Faraday kimberlite corridor of between 12 and 15 million tonnes at a grade of between 2 and 2.5 carats per tonne and to identify new kimberlites outside of the corridor. The Kelvin – Faraday corridor is a target for further exploration. Potential quantity is conceptual as there has been insufficient drilling to define a mineral resource and it is uncertain if further exploration will result in target being delineated as a mineral resource.	Media release 11 June 2019 Mountain Province announces the discovery of a new kimberlite at Gahcho Kué and provides Kennady North exploration update
Indin Lake	Nighthawk Gold Corp	Gold	Nighthawk controls over 90% of the prospective Indin Lake Greenstone Belt in this historic gold camp with a total ground position now comprising 930 sq km, approximately 220 km north of Yellowknife, NT. The Indin Lake Greenstone Belt is one of Canada’s most underexplored gold camps. The property contains 14 known gold deposits and showings, 3 are historic mines (eg Colomac)	Media release 26 June 2019 Nighthawk explores new high-grade targets and continues drilling widespread mineralization at Colomac Media release 7 June 2019 Nighthawk closes \$12.6 million bought deal private placement financing

Pine Point	Osisko Metals Incorporated	Lead-zinc	Proposed open pit mine east of Hay River, NT. 10 open pits mined sequentially with 321 jobs. PEA quotes 13-year mine life. Osisko Metals has begun active exploration to advance the project. The objective of the 2018 drill program is to upgrade approximately 50 million tonnes of unclassified near-surface historical resources (Cominco Ltd.) to NI43-101 Inferred Mineral Resources as quickly as possible in areas amenable to open pit mining. The 2018 program consists of approximately 700 drill holes (323 now completed) within the Main Trend, a 20- kilometre long, portion of the PPMC that is located on the south shore of Great Slave Lake in the NWT, near infrastructure and paved highway access and with 100km of haulage roads already in place.	Media release 22 May 2019 Osisko Metals intersects 19.42% zinc+lead over 13.11 metres at Pine Point Media release 16 May 2019 Osisko Metals intersects 18.50% zinc+lead over 10.00 metres at Pine Point Media release 9 May 2019 Osisko Metals intersects 28.8% zinc+lead over 12.5 metres at Pine Point Media release 8 May 2019 Osisko Metals announces successful material sorting results at Pine Point
Courageous Lake	Seabridge Gold Inc.	Gold	Proposed open pit mine 240 km NE of Yellowknife. 6.5 M oz proven and probable reserves in 91.0 million tonnes at 2 g/t (2016 Annual Report). Positive PFS July 2012. The FAT deposit is one of Canada’s largest undeveloped gold projects. Seabridge is currently focusing on their KSM mine and other BC projects.	Media release 13 May 2019 Seabridge Gold files first quarter interim financial statements and MD&A Media release 8 May 2019 Seabridge Gold publishes 2018 annual report
Selwyn Project (Howard’s Pass Project)	Selwyn Chihong Mining Ltd.	Zinc, lead	Proposed base metal mine in Yukon on NWT border and access is through NWT. Agreements signed with NWT (Sahtu) Indigenous land corporations. The project will process multiple open pit mines over an approximate 10+ year mine life and includes a mineral processing plant, tailing management facility and the required on-site infrastructure. The mine is being designed to process 38,500 tonnes per day (tpd) of ore which, after processing, is expected to result in 2,500 tpd of zinc and 600 tpd of lead concentrate, which would be trucked to the Port of Stewart for export. Selwyn Chihong estimates the proposed mine will create approximately 1500 jobs during construction and approximately 750 during operation.	Selwyn Chihong Mining’s proposed upgrade of a road to its lead-zinc mining project in Yukon’s Selwyn Mountains will undergo an environmental assessment. Parks Canada has referred the 79km Howard’s Pass Access Road (HPAR) to Environmental Assessment under the MVEIRB, which accepted the referral in July 2015. The HPAR was developed in the 1970s and runs from the Nahanni Range Road to the NWT-Yukon border. Passing through 2 national parks. Yukon media reported in Feb 2016 that Selwyn Chihong has decided to slow their project down due to the current low zinc prices and will not to take the project to the permitting stage this year. According to External Affairs VP Maurice Albert, SC has opted for a traditional drilling program and hopefully add another 10 years to the mine life.
Nechalacho	Avalon Advanced Materials Inc.	Rare earth metals	Proposed underground mine 100km SE of Yellowknife. Estimated mine jobs: 200. The company remains optimistic that rare earth demand will recover sufficiently to advance the project.	Media release 25 June 2019 Avalon completes collaborative development agreement on Nechalacho Rare Earth Elements Project, Yellowknife, NWT

Mines & promising Nunavut mine projects

The following table describes leading mineral development projects in Nunavut.

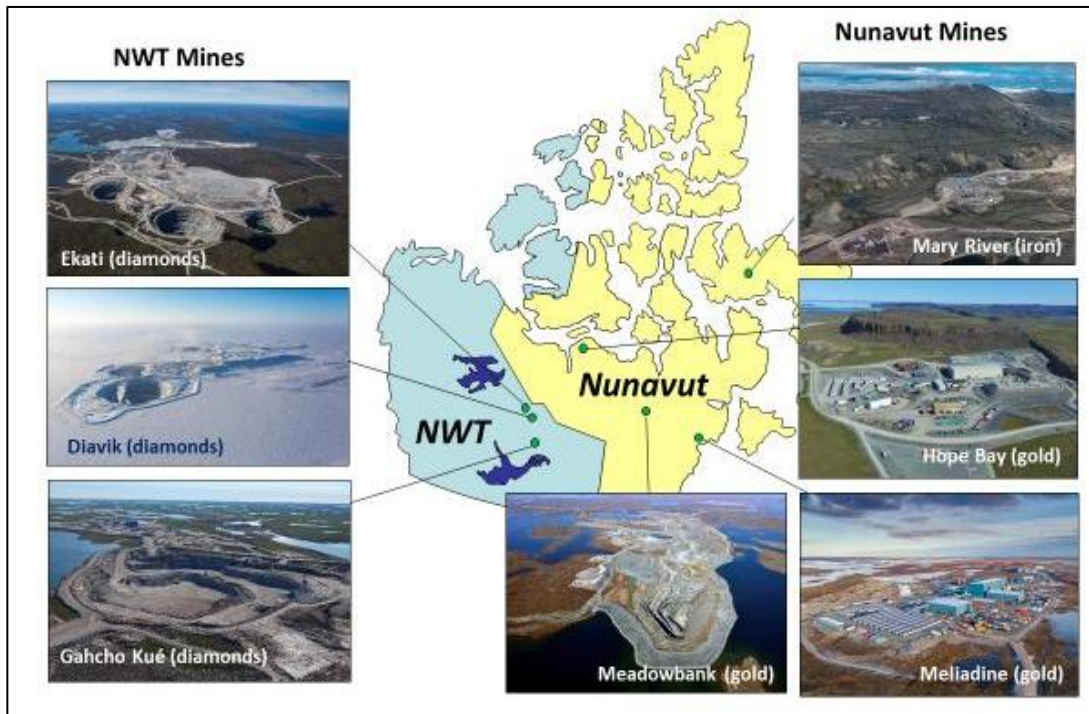
Project	Owner(s)	Commodity	Description	Status
Meadowbank Gold Mine	Agnico Eagle Mine Ltd.	Gold	In operation since 2010. Open pit mine located in the Kivalliq Region, 300 km west of Hudson Bay and 70 km N of Baker Lake. Mine jobs: 775 AEM announced they will develop Amaruq satellite deposit, 50km from 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 19 June 2019 Agnico Eagle celebrates Meliadine Mine opening with \$1 million contribution to community legacy projects Media release 26 June 2019 Agnico Eagle Provides Notice of Release of Second Quarter 2019 Results Conference Call
Mary River Iron Mine	Baffinland Iron Mines Corporation	Iron	In operation since September 2014; Open pit mine 936 km N of Iqaluit. Mine jobs: 602 Production from Early Revenue Phase (ERP) began September 8, 2014. The company has proposed a Phase 2 project with increased production and shipping. AANDC Minister has approved application for exemption from NPC negative conformity determination, July 2015.	Media release 17 April 2019 Baffinland employees ratify a partnership agreement with the International Union of Operating Engineers – Local 793 Media release 16 April 2019 Baffinland supports successful technical meetings for phase 2 permitting process
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.	Media release 19 June 2019 TMAC announces results of annual and special meeting of shareholders
Meliadine Gold Mine (Mine began commercial production May 14, 2019)	Agnico Eagle Mines Ltd.	Gold	Proposed open pit and underground gold mine, 25 km NE of Rankin Inlet. Estimated construction jobs: 1,000 Estimated mine jobs: 700 IIBA signed June 2015. Initial capital cost estimate \$911m; mine life 14 years. On February 15, 2017: Agnico Eagle approved Meliadine and Amaruq projects for development with production beginning in 2019. The high-grade Meliadine gold project has 3.4 million ounces of gold in proven and probable reserves* (14.5 million tonnes at .32 g/t) and a large mineral resource.	Media release 30 May 2019 Agnico Eagle achieves commercial production at the Meliadine Mine
Back River	Sabina Gold & Silver Corp.	Gold	Approximately 60km from Hackett River; adjacent to the Wishbone Greenstone belt. Consists of George and Goose Lake deposits and holds significant gold resources. Estimated construction jobs: 1,600 Estimated mine jobs: 900 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	Media release 19 June 2019 Sabina Gold & Silver reports initial results from spring drill program

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			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. EA complete	
Kiggavik	Orano Canada Inc.	Uranium	Proposed uranium mine 80 km W of Baker Lake. Estimated Construction jobs: 750 Estimated mine jobs: 600	25 July 2016, INAC, on behalf of responsible ministers for authorizing if Kiggavik Project should or should not proceed, accept NIRB's determination it not proceed at this time.
Izok Corridor Project (with High Lake & Hood River deposits)	MMG Ltd.	Copper, Zinc, Gold, Silver	High Lake is 1,710-hectare, copper-zinc-silver-gold property, 190 km ESE of Kugluktuk. Izok is high-grade zinc-copper-lead-silver deposit, 255 km SW of Kugluktuk. Estimated construction jobs: 1,140 Estimated mine jobs: 710	Nunavut Government announced that the Grays Bay Port and Road project did not qualify for federal Transport Corridor funding. Company stated publicly that project needs Grays Bay Road and Port project infrastructure to become a mine.
Chidliak	De Beers Group	Diamonds	Located 120kms NE of Iqaluit, Nunavut, and 180 km S of Pangnirtung. 74 kimberlites discovered with 8 potentially economic on 317,213-hectare site. Positive Phase One PEA, updated May 2018 highlights: <ul style="list-style-type: none"> •After-tax payback of 2.2 years •Life of mine 13 years •Resource at CH-6 and CH-7 exceeds 22 million carats •Pre-production capital requirement ~\$455m, incl \$95m for access road from Iqaluit, \$55m in contingency •Pre-tax NPV(7.5) of \$1069 million and a pre-tax IRR of 38.6% •After-tax NPV(7.5) of \$679 million and an after-tax IRR of 31.1% •Average LOM strip ratio of 6.6:1 (average across the combined CH-6 and CH-7 open pits); Mining to a depth of 300 mbs at CH-6 	Media release, 13 September 2018 Peregrine Diamonds announces completion of plan of arrangement
Angilak	ValOre Metals Corp. (formerly Kivalliq Energy)	Uranium	340,268-acre property located SW of Baker Lake; Hosts the high-grade Lac 50 Trend deposit	Media release, 14 December 2018 ValOre defines new gold in till target areas and extends geophysical coverage to 110 km on Baffin Island, Nunavut Media release, 3 December 2018 ValOre announces rights offering
Naujaat Diamond Project	North Arrow Minerals	Diamonds	7 km from tidewater; 9 km from Repulse Bay, Melville Peninsula; 7,143 hectares of contiguous mineral claims. Largest kimberlite in Nunavut.	Media release 13 May 2019 North Arrow initiates study of bulk sample diamond recovery plant Naujaat Diamond Project, Nunavut
Committee Bay Gold Project	Auryn Resources Inc. (purchased North Country Gold Corp.)	Gold	<ul style="list-style-type: none"> • High grade gold endowment • Existing exploration infrastructure • 217,600 hectares with district scale discovery opportunities 	Media release 18 June 2019 Auryn to drill Committee Bay Gold Project

Project maps

The northern mining industry's 7 operating mines



We are surrounded by even more potential

