

March 2021

Northern Saskatchewan Mineral Exploration Highlights

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COPPER EXPLORATION IN SASKATCHEWAN

Part Two

The outlook for copper remains positive for the later months of 2021. Analysts believe soaring sales of consumer goods such as home appliances and cars outside China are expected to invigorate copper consumption and create shortages later this year.

For years now, copper prices have fluctuated with demand in China, but this year consumption elsewhere such as Western European countries will also be important.

(Mining.Com staff writer Feb 3, 2021)

As a report from *Jefferies* notes-“Offshore wind is the most copper intensive at around 15 tonnes per megawatt of installed capacity, due to extensive copper cable requirements...This compares to onshore wind and solar at about 5 tonnes per megawatt...EV's require around 83 kg of copper on average while most internal combustion engine vehicles contain less than 20 kg of copper. In addition, EV charging points contain around 10 kg of copper each”. (Finshots)

Nugent expects the copper market to shift into a deficit in the second half of the year, resulting in a small surplus overall for 2021 followed by deficits in 2022 and 2023. *(Citi Analyst Oliver Nugent-Reuters)*

In 2021 the market will pay more attention to the world ex-China demand.

Global copper consumption is forecast to rise 6% to 24.76 Mt this year after a 1.3% drop last year. Europe's share of this will be at 3.1 Mt, a 10% jump from 2020. *(BoA Securities analyst Michael Widmer)*

Copper prices have been on the rise driven by concerns over a market deficit driven by tight supply and strong demand. *(Mining.Com Staff Writer Feb 15, 2021)*. The 2021 copper production outlook is likely to be negatively impacted as a result of Covid in a number of major South American producing nations. *(Gavin Wendt, a senior resource analyst at Mine Life Pty)*.

Natalie Scott-Gray-a senior metals analyst at StoneX, forecasts copper demand in 2021 will rise by about 5%, outstripping supply, which she expects to grow by 2.3%. This could mean a potential deficit of more than 200,000 tonnes of copper this year. *(Northern Miner Staff/Feb 23, 2021)*

LATEST COPPER NEWS IN SASKATCHEWAN

Fathom Nickel Inc has released information on their *website* which discusses 2021 exploration plans on their **Albert Lake** and **Rottenstone** properties. Permits are in place for a drilling program off lake ice planned for Q1 2021, followed by a multi-phase exploration program. Rottenstone Mine: recorded grades of 3.23% Ni, 1.83% Cu, 9.63 g/t Pd-Pt— 8.76% NiEq.

Uravan Minerals Inc retains a 2% NSR on the claims that make up **Rottenstone**. (*Uravan Minerals Inc January 27, 2021*)

Foran Mining Corp has commenced its largest drill program to date on its **Mclvenna Bay Deposit**. Three drills are currently turning on the winter 2021 drill program.

Highlights include:

- three drills turning on the 30,000 m drill program
- infill drilling is focused on increasing the drill-hole density and upgrading the classification of the deeper parts of the deposit
- expansion drilling is focused on growing the size of the overall deposit through substantial step-outs both up and down-dip and along plunge
- the massive sulphide lens remains open for expansion in the down-dip direction for at least 400 m along strike
- results from drill program to support the upcoming definitive feasibility study (DFS)
- the drill program is envisioned to extend into the Fall of 2021

Mclvenna Bay 2019 Indicated Resources increased 65% from 13.9 Mt to 22.95 Mt grading 1.17% Cu, 3.05% Zn, 0.19% Pb, 0.44 g/t Au and 16.68 g/t Ag containing 1.5 billion lbs Zn and 590 million lbs Cu and Inferred Resources 11.15 Mt grading 1.38% Cu, 1.83% Zn, 0.10% Pb, 0.47 g/t Au and 14.81 g/t Ag containing 450 million lbs Zn and 340 million lbs Cu.

Forum Energy Metals Corp report that **Rio Tinto Exploration Canada Inc** have mobilized for a 7500 m winter diamond drilling program on the Janice Lake Cu-Ag Project where previous drilling results include hole FEM-01 which intersected 18.5 m @ 0.94% Cu and 6.7 g/t Ag including 5.2 m @ 2.22% Cu and 16.5 g/t Ag

Rio Tinto Exploration Canada Inc has commenced drilling on Forum Energy Metal's **Janice Lake copper/silver project**. Two drills are initially testing the **Rafuse Target**, a 2.8 km long priority target that was developed during this past summer's mapping, prospecting and geophysical program by RTEC. Drilling of 9 holes at Rafuse in 1969 to a maximum depth of 62 m returned up to 17 m of 0.68% Cu and 2 holes drilled in 1993 by Noranda to a maximum depth of 128 m returned 21.7 m of 0.19% Cu

LATEST COPPER NEWS IN SASKATCHEWAN

Murchison Minerals Ltd has commenced a 4,000 m diamond drilling program on its **Brabant Lake Cu-Zn-Ag-Au-Pb Project**.

At its **Brabant-McKenzie VMS Deposit** Indicated Resources are 2.1 Mt @ 7.08% Zn, 0.69% Cu, 0.49% Pb, 39.6 g/t Ag and 0.23 g/t Au and Inferred Resources are 7.6 Mt @ 4.45% Zn, 0.57% Cu, 0.19% Pb, 18.4 g/t Ag and 0.10 g/t Au

Rockridge Resources Ltd announced it has commenced a winter exploration program at its **Knife Lake Cu-Zn-Ag-Co Project**, located 50 km NW of Sandy Bay.

Rockridge has an Option Agreement with **Eagle Plains Resources Ltd** to acquire a 100% interest in the Project.

Highlights include:

-crews have mobilized to complete a 459 line-km airborne VTEM and magnetic gradient survey

-the survey is located over the **Scimitar and Gilbert Lake** targets to investigate 30 linear kms of prospective VMS stratigraphy which hosts the **Knife Lake Deposit**

with a NI43-101 Indicated Resources 3.8 Mt grading 1.02% CuEq (3.8 Mt grading 0.83% Cu, 3.7 g/t Ag, 0.097 g/t Au, 82 ppm Co and 1740.7 ppm Zn) and Inferred Resources 7.9 Mt grading 0.67% CuEq (7.9 Mt grading 0.53% Cu, 2.4 g/t Ag, 0.084 g/t Au, 53.1 ppm Co and 1454.9 ppm Zn).

Hole KF-19003 intersected 2.42% CuEq over 37.6 m.

Searchlight Resources Inc has received drilling permits for the **Beatty South copper** target and the **Henning-Maloney** gold target located within 15 km of Creighton/Flin Flon. A diamond drill and a geological team have been mobilized to Searchlight's Henning Maloney gold target. Upon completion of this drill program, the drill will be moved by HWY and all-weather road to the Beatty South target. The **Beatty South** target is located 15 km NW of Creighton along HWY 106 and is the first drill test of a multi-km long geological structure outlined with coincident airborne EM and Mag, and further refined with ground geophysics. The **Henning-Maloney** drill target is 6 km south of Creighton/Flin Flon. 3 NQ diamond drill holes are designed to verify historic gold mineralization and to drill beneath the past-producing gold mine.

LATEST COPPER NEWS IN SASKATCHEWAN

Voyageur Mineral Explorers Corp provided a corporate update which included recent development announcements in the **Flin Flon/Creighton Camp**. Voyageur owns a portfolio of royalties with the two most important in **Saskatchewan** highlighted here

Highlights include:

Mcllvenna Bay Project, Foran Mining Corp, Voyageur Royalty \$0.75/tonne of ore extracted

-Mcllvenna Bay is a large undeveloped VMS Deposit

-Indicated Mineral Resource 22.95 Mt and Inferred Mineral Resource 11.15 Mt

-the PFS shows a pre-tax NPV of \$219 million

Bigstone Project, Foran Mining Corp, Voyageur 2% NSR

-Foran Mining recently announced an initial NI43-101 Mineral Resource Estimate of 1.98 Mt @ 2.22% CuEq Indicated Mineral Resources and an additional 1.88 Mt @ 2.14% CuEq Inferred Mineral Resources.

-Foran has discussed the potential of the project to feed the proposed mill @ Mcllvenna Bay

-the deposit remains open with more drilling planned for the summer of 2021

A LOOK AT SOME HISTORICAL COPPER OCCURRENCES IN VARIOUS GEOLOGICAL SETTINGS NORTH HALF (PART TWO)

The SWAN LAKE Cu, Ni, Au, Pt, Pd is located in NTS 64 E 10 at UTM co-ordinates 6381592 N and 620050 E. As described in SMDI 1896, it is hosted in mafic ultramafic intrusion magmatic rock. The mineral potential of the Peter Lake Domain is demonstrated by anomalous values of Cu, Ni, Pt and Pd. Drilling has outlined mineralization over 200 m strike, 300 m depth and 90 m true width. Some assays include 0.33% Cu and 0.12% Ni in trenches and 1920 pb Pd and 654 ppb Pt. Drilling by *Aurex Energy Corp (Canadian Platinum)* on the Peter Lake Project returned 1.0 m @ 1.456 g/t Pd/Pt, 2.09% Ni, 2.385% Cu and 0.205% Co in SW03.

The KINOOSAE Ni-Cu PROJECT is located in NTS 64 E 01 at UTM 6331483 N and 679406 E. As described in SMDI 0535, volcanic associated massive sulphide. Sample taken by Dept of Mineral Resources in 1972 assayed 0.192% Ni and 0.15% Cu.

LAKE A 21 Cu-Mo-Ni is located in NTS 64 E 06 at UTM co-ordinates 6366525 N and 599401 E. It is described in SMDI 0557. Chalcopyrite, pyrite and pyrrhotite is widespread and occurs in all phases of mafics as well as meta-sediments. Grab samples returned 0.17% Cu and 0.11% Ni with Mo occurring on fractures. The occurrence is within the Peter Lake Domain. (*current holder Aurex Energy Corp (CANPLAT)*)

ROTTENSTONE LAKE is located in NTS 74 A 07 at UTM co-ordinates 6244461 N and 510816 E. It is described in SMDI 0956, 0958, 5010, 5011, 5012 and 5013. Drill holes in gneisses contain locally massive pyrite-pyrrhotite and Tr chalcopyrite up to 0.11% Ni, 0.13% Cu, 38.4% Fe, 0.06% Zn and 0.14 oz/t Ag. The Rottenstone Mine returned up to 2.52% Ni over 7.9 m. (*current holder Fathom Nickel Inc*)

The Rottenstone Ni-Cu-PGE Mine or Hall Deposit is located in NTS 74A07 at UTM 510816E & 6244461N 145 km N-Ne of La Ronge. As described in SMDI 0958 the property was originally drilled in 1929. The deposit host-rock is a harzburgite-orthopyroxenite synclinal roof-ward or inclusion that lies in a shallow synclinal fold within a NE trending band of sedimentary migmatites. The sill like body is 55 m long, 50 m wide and 12 m thick. Sulphides constitute 45% of the rock. Mineralization consists of finely disseminated and net-textured pyrrhotite, violarite (Ni₂Fe₂S₃), annabergite, chalcopyrite, and bornite that occur as intimately associated masses. The masses contain lesser amounts of pentlandite, sperrylite, sphalerite, cubanite and minor pyrite, chromite and malachite. The Rottenstone Deposit is unique in terms of its Pt-Pd and Au. The ore is higher grade in these precious elements than the classic PGE deposits such as the Merensky Reef Deposit. The Geological Survey of

Canada sampled the 10-12 bands of mineralization in the deposit with mean values of 6.28% Ni, 5.31% Cu, 0.35 oz/ton Pt, 0.16 oz/ton Pd and 0.07 oz/ton Au. From 1965 to 1969 mining delineated reserves were 40,000 tons @ 3.23% Ni, 1.83% Cu, 0.14 oz/ton Pt, 0.10 oz/ton Pd 0.03 oz/ton Au and 0.20 oz/ton Ag. 26,724 tons were mined and milled producing a concentrate grade of 10.36% Ni, 5.74% Cu, 0.33 oz/ton Pt, 0.53 ox/ton Pd, 0.10 oz/ton Au and 0.53 oz/ton Ag. August 10, 1989 reserves 60,000 tons @ 2% Ni, 2% Cu, 0.22 oz/ton Pt and 0.15 oz/ton Pd. Two other small deposit occur on the property. The Tremblay Olson Deposit occurs 1.6 km SW of the Rottenstone Deposit, and the Island Showing occurs 600 m N-NW of the Rottenstone Mine within a small body of pyroxenite. (*Fathom Nickel Inc*)

The TREMBLAY-OLSON Ni-Cu Showing is located in NTS 74 A 07 at UTM co-ordinates 6242787 N and 509051 E. As described in SMDI 0959 trench values up to 0.907% Cu and 1.31% Ni were returned. (*current holder American Platinum Resources*)

The North Lake Cu-Zn Occurrence or Drill Holes KNOX-1 to KNOX-3 is located in NTS 74A07 at UTM 507504E & 6253358N 0.8 km north of North Lake. As described in SMDI 0955b the drill holes intersected locally garnetiferous-quartz-biotite-feldspar gneiss and pegmatite mineralized by disseminated to locally thin massive bands of pyrrhotite-pyrite and tr chalcopyrite. Assays returned 0.01-0.04% Ni, 0.02-0.06% Cu, 0.01-0.08% Zn, 21.2-32.2% Fe and 0.02-0.26 oz/ton Ag.

The Deighton Lake Cu-Zn Conductors or Sherrit Gordon drill holes 2-1, 2-2 are located in NTS 74A07 at UTM 502400E & 6249518N. As described in SMDI 0957 an airborne survey was flown in 1957 and in 1968 two holes were drilled NW of Deighton Lake on a 2000 ft (600-800m) Ronka ground EM conductor by Sherritt Gordon Mines which encountered disseminated to thin bands of stringers to massive pyrrhotite and pyrite with some bornite over the entire length of the hole (open at depth and on-strike). Hole 2-2 drilled -45 east, with mineralization throughout 33 ft to 286 ft (77m). Assays up to 0.1% Ni, 0.11% Cu, 37.1% Fe, 0.06% Zn, 0.07% Co and 0.38 oz/ton silver (>10 g/t Ag) were returned. Showing mapped @ 1:50,000 as migmatite, biotite-quartz-feldspar-pelite to psammite by K. MacLachlan et al in 2005. (*Bedrock Geology of the Rottenstone Domain, Preliminary Geological Map (2005)*). Lithologies at Deighton carried from Rottenstone including similar Fold Axis and axial plane synform mapped in vicinity of Deighton Lake Occurrence. *Summary of Investigations 2005, Vol 2, SGS, Report 2005-4.2 Paper A-7, 19p, Ken MacLachlan.* (*currently held by Gary Clayton Dunn*)

The **Fannon Lake Cu Showing or Flag Lake Cu Showing** is located in NTS 74A06 at UTM 476612E & 6247325N on the west shore of Flag Lake. As described in SMDI 0949b the main showing is exposed in 3 trenches 30.5 m west of the submerged trace of the MacNeil Lake Fault. Mineralization occurs over widths of 4.6 m or more in lenses in meta-arkose which is interbedded with quartzite and biotite schist. The showing consists of massive blebs of chalcocite in fractures, minor chalcopyrite in fractures, pyrrhotite and pyrite as disseminations and locally minor molybdenite, malachite, chalcocite, covellite, chrysocolla and azurite. Grab samples from the main showing trenches returned 0.05-0.6% Cu, 0.01% MoS₂ and tr Au & Ag. Samples from trench 2 averaged 0.24% Cu over 12.8 m. *(current holder Transition Metals Corp)*

The **REEF LAKE Ni-Cu DEPOSIT** is located in NTS 74 A 08 at UTM co-ordinates 6242245 N and 553292 E. As described in SMDI 0963, it is hosted in a sill-like body of gabbroic to pyroxenite with up to 1.49% Ni and 0.12% Cu over 0.4 m and 0.66% Ni and 0.28% C over 9.8 m. *(current holder Searchlight Resources Inc)*

WILEY LAKE Ni-Cu showing located in NTS 74 0 08 at UTM co-ordinates 6580347 N and 427033 E. It is described in SMDI 1584 as Norite measuring 213 m X 1.6 km. Chip and grab samples averaged 0.14% Ni and 0.10% Cu with a best grab of 0.8% Ni and 0.8% Cu *(current holder ALX Resources Corp)*

The **Janice Lake Cu Showing** is located in NTS 74A15 at UTM 501777E & 6303657N 200 m SW of the centre of Janice Lake. As described in SMDI 1016 the showing consists of native copper with minor malachite, azurite, chalcopyrite and bornite. The showing is a typical sedimentary-hosted red-bed type deposit. Three trenches were excavated and 4 holes drilled. Hole No 1 averaged 0.21% Cu over 4.6 m. The Janice North showing, located 300 m north of the Janice Showing, is exposed in a 7 m x 1 m outcrop. Grab sample 9422-246 returned 1214 ppm Cu, 26 ppm Pb, 56 ppm Zn, 18 ppm Co, 0.8 ppm Ag and 3 ppb Au. The Janice South (JS) occurrence is located 650 m SW of the Janice Occurrence. It is a typical Proterozoic sediment-hosted red-bed type occurrence. Grab samples from boulders assayed 3.28% Cu, 45.6 g/ton Ag and 1.64% Pb. *(for current news refer Forum Energy Metals Corp)*

The **Korvin Lake Cu-Ni Showing** is located in NTS 64E04 at UTM 576135E & 6339116N 1.7 km NE of Korvin Lake on the Johnson River. As described in SMDI 0538a in the area of the showing disseminated pyrrhotite, pyrite and chalcopyrite mineralization is associated with the gabbro. Fourteen trenches were completed returning up to 0.55% Cu and 0.39% Ni. Diamond drilling intersected chalcopyrite and nickeliferous pyrrhotite associated with the more basic gabbro phases returning up to 0.12% Ni over 8.2 m and 0.56% Cu over 6.1 m. *(current holder Forum Energy Metals Corp)*

The **Wollaston Lake (West Shore) Cu Occurrence** is located in NTS 64L04 at UTM 581560E & 6449805N on the west shore of Wollaston Lake 800 m south of the Pow Peninsula. As described in SMDI 1932 the showing consists of an outcrop of sulphide-bearing rock. A sample of the biotite paragneiss intruded by pegmatite assayed 0.76% Cu and 0.16 oz/ton Ag. (*current holder UEX Corp*)

The **PETER LAKE Cu-Ni SHOWING** is located in NTS 64 E 04 at UTM co-ordinates 6339705 N and 577887 E. As described in SMDI 1845a, samples from trenches returned 1595 ppm Cu, 408 ppm Ni, 135 ppb Pd and 75 ppb Pt. (*current holder Forum Energy Metals Corp*)

THE MOSS LAKE Cu Showing is located in NTS 74G05 at UTM 333022E & 6349103N 3.2 km east of Moss Lake. As described in SMDI 1117 the area is underlain by interlayered meta-sediments. The Virgin River schist group of rocks has been interpreted as an interlayered series of mafic, metavolcanics, graphite schists, pelites, quartz-sulphide pelites, biotite psammities, greywackes to arenites and minor local calcite-tremolite dolomite. In the showing area, these rocks occupy a tightly folded north-trending, north-plunging synform. Mineralization consists of pyrite and pyrrhotite as stringers and bands or blebs. Chalcopyrite occurs as small grains in the more heavily mineralized sections. Pyrite and pyrrhotite make up 3-10% of the rock over 1.5 m and up to 5% over widths of 8.1 m. (*current holder Denison Mines Corp*)

The **Fraser Lake Cu-Mo Occurrence** is located in NTS 74H02 at UTM 503707E & 6322644N 0.8 km NW of the central part of the western shore of Fraser Lake. As described in SMDI 1122 the area is underlain by foliated, leucocratic-biotite granite. The edges of this are overlapped unconformably by Wollaston Group pelitic schists and gneisses, quartz feldspathic meta-arkose with interlayered semi-pelite and calcareous meta-arkose which contains variable amounts of diopside, tremolite-actinolite and epidote. The showing consist of Cu-Mo mineralization occurring in pegmatite which cuts a band of Wollaston semi-pelites. Numerous showings of fine-grained chalcopyrite and molybdenite occur in outcrop, boulders and frost heave in the Fraser Lake area. Another minor occurrence of malachite-stained calcareous meta-arkose boulders were observed 8 km SW of Alexander Lake and 16 km NE of Fraser Lake. (*current holder Skyharbour Resources Ltd*)

The **Dianne Lake Cu-Ag Occurrence** is located in NTS 74N10 at UTM 282938E & 6621835N north of Dianne Lake. As described in SMDI 1356 the showing consists of chalcopyrite, bornite and malachite-azurite mineralization within veinlets and as disseminations within garnet-chlorite-biotite gneiss inclusions in granoblastic gneiss. The highest value from trenching was 2.28% Cu with an average value of 0.40% Cu and appreciable silver. -

Drill Hole Q27B-070 Cu Showing is located in NTS 74I01 UTM 541862E 6446921N at Waterbury Lake. As described in SMDI 5978 a 2015 drill hole to 478 m returned a sample assaying 4970 ppm Cu, 12,800 ppm U, 1270 ppm Mo, 766 ppm Pb, all in graphitic pelite. *(current holder Cameco Corp)*

Drill Hole Q48-1 is located in NTS 74I08 at UTM 548406E & 6478088N 15.5 km NW of the Midwest Lake uranium deposit. As described in SMDI 2675 the Athabasca Group unconformity overlies bleached and chlorite and clay-altered, saussuritized and locally magmatic Mudjatik Domain graphitic pelites. Anomalous copper values of 7920 ppm Cu were encountered in graphitic fault gouge. *(current holder ISO Energy Ltd)*

Drill Hole ML14-009 is located in NTS 74K06 at UTM 239063E & 6477762N in the Middle Lake area. As described in SMDI 5853 a 2014 drill hole with total digestion analysis of 7750 ppm Cu over 3.46 m from 76.76-80.22 m returned from hematite-altered white pegmatite and mylonitized, pegmatic-pelite. *(current holder ALX Resources Corp)*

The **Bob Lake North Cu Showing** is located in NTS 74N11 at UTM 263186E & 6623500N 1.6 km NE of the SE tip of Thluicho Lake (on the north shore of Bob Lake. As described in SMDI 1498 the showing consists of chalcopryrite mineralization with a large irregular mass of quartz measuring 12.2 x 4.6 x 1.2 m. Mineralization consists of chalcopryrite, bornite, azurite, malachite and minor chalcocite and pyrite. Three channel samples returned 8.55% Cu, 5.2% Cu and 7.3% Cu over 1.5 m. DDH # 1 yielded an average of 3.81% Cu over 7.6 m with appreciable silver and zinc values.

The **COLE LAKE Ni-Cu** occurrence is located in NTS 74 O 08 at UTM co-ordinates 6571945 N and 414521 E. It is described in SMDI 1583. The nickeliferous pyrrhotite is found within a zone of norite measuring 12 X 183 m. Drill holes returned up to 0.45% Ni over 7.0 m and 0.65% Ni over 4.6 m. A best assay from trenching returned 0.97% Ni and 0.13% Cu over 2.3 m. *(current holder Eagle Plains Resources Ltd)*

The **LEBLANC Ni-Cu** showing is located in NTS 74 O 08 at UTM co-ordinates 6577406 N and 435672 E. It is described in SMDI 1586 as the Pine Channel B Gossan Zones in Norite returning up to 0.91% Ni and 0.25% Cu. *(current holder ALX Resources Corp)*

The PINE CHANNEL Anomaly C Ni-Cu Showing is located in NTS 74008 at UTM 434552E & 6580271N, 1.75 km N-NW of the west tip of LeBlanc Lake 9.49 km west-NW of the Axis Lake Deposit. As described in SMDI 2611 the Anomaly C showing is hosted in a narrow, east-trending norite sill, and consists of a 1.0 km long, overburden-covered, well-defined conductor with magnetic association. The conductor likely represents the pyrrhotite-pyrite mineralization and a weaker, parallel conductor is coincident with a 2 m wide quartz stockwork within a shear zone that hosts 30-40% pyrite, and up to 1% arsenopyrite. Drill hole NOR91-6 intersected 0.3 m @ 0.07% Cu with 30% pyrrhotite- 5% pyrite in a dark green garnetiferous metasediment. (*current holder ALX Resources Corp*)

The NICKEL KING Ni-Cu-Co DEPOSIT is located in the NWT 145 km NE of Stony Rapids and hosts 43-101 compliant reserves of 11.1 Mt @ 0.40% Ni, 0.10% Cu and 0.018% Co. *Strongbow Exploration* conducted exploration extending south from the Nickel King into Saskatchewan along the Snowbird Tectonic Zone in 2010. Properties included **OPESCAL LAKE**, located 30 km SW of Nickel King on the SASK/NWT border, where samples up to 1.17% Ni were recovered. **HEEL**, located 70 km SW of Nickel King and 70 km NE of Stony Rapids, where up to 0.49% Ni and 0.27% Cu was returned from stacked norite sills. Mapping by SGS in 2009 identified a series of additional gabbro, norite and pyroxenite intrusions in the area. **DUMAS**, is located 30-35 km N of Stony Rapids in mafic/ultramafic intrusions. A drill hole at Nickel Lake tested the centre of a 550 m long mag/EM conductor and returned 0.8 m @ 1.89% Ni, 0.96% Cu and 0.11 % Co.

DUMAS LAKE is located in NTS 74 P 11,12 at UTM co-ordinates 6603831 N and 473980 E. It is described in SMDI 1679, 1739, 1772 and 1773. The best core assays in Norite in Zone A are 1.34% Ni and 0.94% Cu over 2m (*refer notes on Nickel King, Strongbow Exploration*).

The FAITH Cu-Ni showing is located in NTS 74 P 11 at UTM co-ordinates 6607360 N and 484634 E. It is described in SMDI 1676 as a NE-trending belt of Norite exposed by irregularly spaced pits and trenches over a 152.4 m strike length and up to 0.8 km wide. Mineralization consists of disseminated nickeliferous pyrrhotite and chalcopyrite in norite. Trench samples returned 0.34% Cu and 0.25% Ni.

The NICKEL LAKE Ni-Cu showing is located in NTS 74 P 12 at UTM co-ordinates 6598040 N and 460422 E. It is described in SMDI 1687. Ni-Cu mineralization occurs within discontinuous north dipping shear zones traceable for 61 m containing 10-40% sulphides over a 0.6 m width. (*current holder ALX Resources Corp*)

The AXIS LAKE Ni-Cu DEPOSIT is located in NTS 74 P 05 at UTM co-ordinates 6579038 N and 443917 E. The orebody is described in SMDI 1623. Non-compliant reserves are 3,750,000 tons @ 0.60% Ni, 0.60% Cu and 0.15% Co. (*for current news refer ALX Resources Corp*)

The REA LAKE Ni-Cu DEPOSIT is located in NTS 74 P 05 at UTM co-ordinates 6577280 N and 443575 E. Non-compliant reserves are reported at 70,400,000 tonnes @ 0.10% Ni and 0.10% Cu. (for *current news refer ALX Resources Corp*)

The CORA LAKE Au-Cu Showing is located in NTS 74 P 06 at UTM 473618E & 6585949N on a peninsula on Cora Lake. As described in SMDI 1633, there are two copper occurrences hosted by two NE-trending, en-echelon norite sill-like bodies with a strike length of over 1700 m and a width of 30 m. Disseminated pyrite, pyrrhotite and magnetite associated with chalcopyrite and garnierite (green nickel ore) were seen in addition to graphitic shears. Sampling in 1987 returned up to 0.221 oz/ton Au, 0.8 ppm Ag, 0.001 oz/ton Pt, 0.134% Cu, 542 ppm Zn, 400 ppm Ni and 220 ppm Cr. Grab samples of the rusty vuggy quartz vein taken in 2000 returned up to >5000 ppb Au. Follow-up grab samples taken in 2007 returned up to 933 g/t Au from the rusty, vuggy quartz veins in outcrop. (*FIG Claims*)

COMMODITIES AT A GLANCE

Base Metals

Foran Mining Corp has commenced its largest drill program to date on its **Mclvenna Bay Deposit**. Three drills are currently turning on the winter 2021 drill program.

Highlights include

- three drills turning on the 30,000 m drill program
- infill drilling is focused on increasing the drill-hole density and upgrading the classification of the deeper parts of the deposit
- expansion drilling is focused on growing the size of the overall deposit through substantial step-outs both up and down-dip and along plunge
- the massive sulphide lens remains open for expansion in the down-dip direction for at least 400 m along strike
- results from drill program to support the upcoming definitive feasibility study (DFS)
- the drill program is envisioned to extend into the Fall of 2021

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- the survey is located over the **Scimitar and Gilbert Lake** targets to investigate 30 linear kms of prospective VMS stratigraphy which hosts the Knife Lake Deposit

COMMODITIES AT A GLANCE

Searchlight Resources Inc has received drilling permits for the **Beatty South** copper target and the **Henning-Maloney** gold target located within 15 km of Creighton/Flin Flon. A diamond drill and a geological team have been mobilized to Searchlight's Henning Maloney gold target. Upon completion of this drill program, the drill will be moved by HWY and all weather road to the Beatty South target. The **Beatty South** target is located 15 km NW of Creighton along HWY 106 and is the first drill test of a multi-km long geological structure outlined with coincident airborne EM and Mag, and further refined with ground geophysics. The **Henning-Maloney** drill target is 6 km south of Creighton/Flin Flon. 3 NQ diamond drill holes are designed to verify historic gold mineralization and to drill beneath the past-producing gold mine.

Voyageur Mineral Explorers Corp provided a corporate update which included recent development announcements in the **Flin Flon/Creighton Camp**. Voyageur owns a portfolio of royalties with the two most important in **Saskatchewan** highlighted here

Highlights include:

Mcllvenna Bay Project, Foran Mining Corp, Voyageur Royalty \$0.75/tonne of ore extracted
-Mcllvenna Bay is a large undeveloped VMS Deposit

-Indicated Mineral Resource 22.95 Mt and Inferred Mineral Resource 11.15 Mt

-the PFS shows a pre-tax NPV of \$219 million

Bigstone Project, Foran Mining Corp, Voyageur 2% NSR

-Foran Mining recently announced an initial NI43-101 Mineral Resource Estimate of 1.98 Mt @ 2.22% CuEq Indicated Mineral Resources and an additional 1.88 Mt @ 2.14% CuEq Inferred Mineral Resources.

-Foran has discussed the potential of the project to feed the proposed mill @ Mcllvenna Bay

-the deposit remains open with more drilling planned for the summer of 2021

GOLD

ALX Resources Corp announced that a diamond drilling program is underway at the **Alligator Lake Gold Project**, located 165 km NE of La Ronge. Mobilization has commenced to the **Broken Hammer Showing** area. An outcrop grab sample taken by ALX in October 2020 from an arsenopyrite-bearing quartz vein returned 504.09 g/t Au and 46.2 g/t Ag. ALX is planning a Phase 1 diamond drilling program to test Broken Hammer consisting of a minimum of 600 m in up to 6 shallow drill holes.

ALX and **Alligator Resources Ltd** have executed a definitive Agreement on the Project

COMMODITIES AT A GLANCE

MAS Gold Corp announced that the 2021 **Greywacke Lake** drilling program commenced on-schedule, with the first core drill collared on January 28th and a 2nd drill beginning on February 5th. Drilling is currently focused on infill and step-outs at the **Greywacke North Deposit**.

MAS Gold Corp has executed an agreement with **Eagle Plains Resources Ltd** whereby MAS has purchased a 100% interest in 3 claims (1462 ha) located adjacent to MAS Gold's **Greywacke Lake Property**. The new claims bridge a 4.1 km gap, completing MAS Gold's control along 33 km of the favourable geologic contact within the Kisseynew Domain that hosts the Greywacke North Deposit.

MAS Gold Corp announced assays from the first hole drilled at its 2021 drill campaign at the **Greywacke Lake Property**. Hole GW21-128 infills a data void within the centre of the **Greywacke North Deposit**, intersecting a weighted average of 7.36 g/t Au over 9.90 m from 63.10 m depth.

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-DDH OL20004 39.80 m @ 1.09 g/t Au including 7.62 m @ 3.44 g/t Au including 1.53 m @ 13.80 g/t Au

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SKRR Exploration Inc announced that it has intersected quartz veining at shallow depth in the first 3 holes completed during the current winter program at the **Irving Leland property**.

SSR Mining Inc reported the Fourth Quarter and Year-End 2020 Results

Highlights include:

- closed merger with Alacer
- produced 31,915 ounces of gold at **Seabee** during the 4th quarter, a 45% increase compared to Q4 2019, due to increases in tonnes and grade mined and milling of stockpiled ore.
- mill feed grade was 9.85 g/t Au during Q4 2020, a 25% increase from Q4 2019
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- widespread high-grade mineralization at **MAC North** over a down-plunge area of 250 m X 600 m. Open in all directions with resource definition drilling planned
- new discovery at the **Yin Zone**, adjacent to the Seabee Gold Operation boundary, with results of 13.74 g/t Au over 2.29 m including 55.5 g/t Au over 0.53 m
- visible gold (VG) in 7 holes throughout the property
- numerous high-potential targets remain untested, winter drilling planned for Q1 2021

REE's (Rare Earth Elements)

Appia Energy Corp announced the confirmation that monazite is the mineral host for high-grade gallium consistently observed in litho-geochemical assays on the **Alces Lake** high-grade REE, gallium and uranium property.

An electron microprobe study by SRC showed that monazite from **IVAN** and **WRCB** REE Zones contain similar concentrations of gallium oxide (Ga₂O₃), 0.176 wt% and 0.185 wt% within the monazite crystal structure.

COMMODITIES AT A GLANCE

Appia Energy Corp announced that bench-scale monazite processing and metallurgical testing has started at the Saskatchewan Research Council (**SRC**). SRC will be using sample material from Appia's high-grade rare earth element (**REE**), gallium and uranium **Alces Lake Property**. The goal of the test is to process monazite-bearing rocks from the Property, to produce a mixed REE carbonate. The scope of the work will include sample preparation and characterization, monazite beneficiation and monazite concentrate processing, and finally producing a mixed REE carbonate. The test is expected to take approximately 3 months to complete.

Diamonds

Star Diamond Corp provided an update on the **Star-Orion South Diamond Project**.

Highlights Include:

- Rio Tinto Exploration Canada Inc** says 10 cutter hole bulk sample program completed
- RTEC** says program met its objectives of improving confidence in the diamond grade of the project

Uranium

ALX Resources Corp has filed a permit application for an exploration program including diamond drilling for the **Gibbons Creek uranium project** located along the northern margin of the Athabasca Basin immediately west of Stony Rapids.

Highlights include:

- located adjacent to infrastructure including all weather HWY 905, a commercial airport, accommodation etc
- shallow depths <200 m to unconformity
- 2015 radon survey anomalies up to 10.77 picocuries per square m per sec
- geophysical conductors defined by a 2017 airborne ZTEM survey remain to be tested

COMMODITIES AT A GLANCE

Azincourt Energy Corp provided an update on preparations for the 2021 winter exploration program at the **East Preston uranium project**, a JV with **Skyharbour Resources Ltd** and **Dixie Gold Inc**. Road preparation and placement of bridges to allow access to the primary drill sites is underway. The 2021 exploration program consists of a 10-12 hole, 2000-2500 m diamond drilling program to commence the 3rd week of February. Drill Rig and crews have been mobilized to the project.

Drilling has now commenced south of the A-Zone and will continue SW along the AB and G-Zones.

Azincourt has completed the earn-in acquisition of a 70% interest in the East Preston Uranium Project.

Baselode Energy Corp has received work authorizations and temporary work camp permits from the Saskatchewan Ministry of Environment to allow Baselode to conduct ground gravity surveys on the **Shadow Uranium Project**. A total of 4,706 stations have been planned covering 50 km² over three prominent target areas.

Dixie Gold Inc has entered into a JV Agreement relating to the **East Preston Uranium Project** with **Azincourt Energy Corp** and **Skyharbour Resources Ltd**. The go-forward interests of the parties are Dixie Gold 15%, Skyharbour 15% and Azincourt 70%.

Drilling has now commenced south of the A-Zone and will continue SW along the AB and G-Zones.

Denison Mines Corp announced its 2021 evaluation program plans for the **Wheeler River Project**.

The Wheeler River JV has adopted an approach to advancing the Project whereby completion of the formal Feasibility Study (**FS**) would be co-ordinated with the submission of a final Environmental Impact Statement (**EIS**).

Highlights include:

- resumption of the EA process-ahead of the submission of a draft EIS currently targeted for early 2022

- advancement of the ISR Field Program-the installation of a 5-spot Test Pattern, consisting of CSW's.

- continuation of detailed ISR metallurgical testing-extensive laboratory studies replicating the ISR process flowsheet are planned, including additional core leach tests followed by uranium bearing solution preparation through column leaching to allow for bench scale tests

- progression of engineering activities-areas of investigation are expected to include site layout design and earthworks updates, electrical power studies, borrow pit investigation, geotechnical analysis, final ISR well designs and decommissioning plans

COMMODITIES AT A GLANCE

Denison Mines Corp announced results from the 2020 exploration and expansion drilling program on the area proximal to the **Phoenix uranium deposit**. 19 holes totaling 7400 m were drilled outside of the extents of the current mineral resource at Phoenix.

Highlights include:

- WR-328D1 22 m NE of historic hole WR-368 intersected 5.69% U3O8 over 5.0 m
- WR-767D1 35 m NE of WR-328D1 intersected 8.84% U3O8 over 2.5 m

NexGen Energy Ltd announced the positive results from an independent Feasibility Study (**FS**), Mineral Reserve and Mineral Resource update of the **Arrow Deposit**.

The FS was completed jointly by consultants including: Stantec Consulting Ltd, Wood Canada Ltd and Roscoe Postle Associates Inc.

Highlights include:

- enhanced environmental performance reducing the project footprint by approximately 20%
- high return on Capital with 0.9 year Payback Period and LOM production flexibility
- first time declaration of Measured Mineral Resources of 2,183 kt @ 4.35% U3O8 containing 209.6 Mlbs U3O8. Measured Resources total 3,754 kt @ 3.10% U3O8 containing 256.7 Mlbs U3O8 supporting initial 10.7 year mine life (11% increase)
- Probable Mineral Reserves of 239.6 Mlbs of U3O8 contained in 4,575 kt grading 2.37% U3O8
- a detailed mine plan based on conventional long-hole stope mining was engineered using Mineral Reserves only.

Skyharbour Resources Ltd partner company **Azincourt Energy Corp** has now earned-in a 70% interest in the **East Preston Uranium Project**. Following the acquisition a JV Agreement has been formed between Skyharbour Resources (15%), Dixie Gold (15%) and Azincourt Energy (70%)

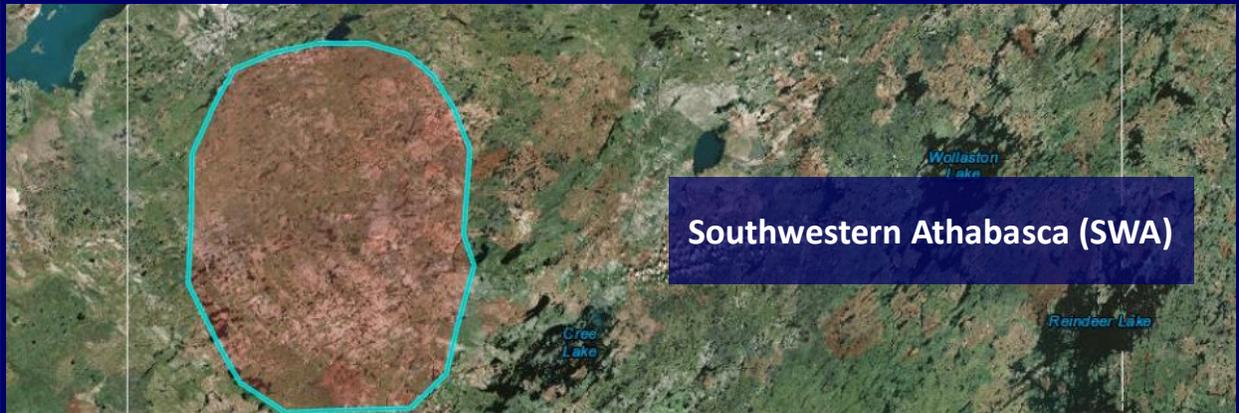
Drilling has now commenced south of the A-Zone and will continue SW along the AB and G-Zones.

Standard Uranium Ltd has begun its Phase 11 winter drill program at its **Davidson River Uranium Project**.

The winter program will consist of 4,500 m of diamond drilling in 9 holes.

Highlights include:

- road construction completed Feb 5th
- drilling commenced Feb 8th
- follow-up on the **Warrior Corridor**
- exploring two new corridors, **Bronco & Saint**



AZINCOURT
ENERGY

Azincourt provided an update on preparations for the 2021 winter exploration program at the **East Preston uranium project**, a JV with **Skyharbour Resources Ltd** and **Dixie Gold Inc.** Road preparation and placement of bridges to allow access to the primary drill sites is underway.

Both drill rig and crew have been mobilized on-site. The 2021 exploration program consists of a 10-12 hole, 2000-2500 m. Drilling has now commenced south of the A-Zone and will continue SW along the AB and G-Zones.

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BASELODE
ENERGY

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- a detailed mine plan based on conventional



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- WR-767D1 35 m NE of WR-328D1 intersected 8.84% U₃O₈ over 2.5 m



Rio Tinto Exploration Canada Inc has commenced drilling on Forum Energy Metal's **Janice Lake copper/silver project**. Two drills are initially testing the **Rafuse Target**, a 2.8 km long priority target that was developed during this past summer's mapping, prospecting and geophysical program by RTEC. Drilling of 9 holes at Rafuse in 1969 to a maximum depth of 62 m returned up to 17 m of 0.68% Cu and 2 holes drilled in 1993 by Noranda to a maximum depth of 128 m returned 21.7 m of 0.19% Cu



La Ronge, Flin Flon (LAF)



ALX announced that a diamond drilling program is underway at the **Alligator Lake Gold Project**, located 165 km NE of La Ronge. Mobilization has commenced to the **Broken Hammer Showing** area. An outcrop grab sample taken by ALX in October 2020 from an arsenopyrite-bearing quartz vein returned 504.09 g/t Au and 46.2 g/t Ag. ALX is planning a Phase 1 diamond drilling program to test Broken Hammer consisting of a minimum of 600 m in up to 6 shallow drill holes.

ALX and **Alligator Resources Ltd** have executed a definitive Agreement on the Project.



Foran Mining has commenced its largest drill program to date on its **Mcllvanna Bay Deposit**. Three drills are currently turning on the winter 2021 drill program.

Highlights include:

- three drills turning on the 30,000 m drill program
- infill drilling is focused on increasing the drill-hole density and upgrading the classification of the deeper parts of the deposit
- expansion drilling is focused on growing the size of the overall deposit through substantial step-outs both up and down-dip and along plunge
- the massive sulphide lens remains open for expansion in the down-dip direction for at least 400 m along strike
- results from drill program to support the upcoming definitive feasibility study (DFS)
- the drill program is envisioned to extend into the Fall of 2021



MAS GOLD CORP

GOLD HORIZONS WIDE OPEN

MAS Gold announced that the 2021 **Greywacke Lake** drilling program commenced on-schedule, with the first core drill collared on January 28th and a 2nd drill beginning on February 5th. Drilling is currently focused on infill and step-outs at the **Greywacke North Deposit**.

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Rockridge announced it has commenced a winter exploration program at its **Knife Lake Cu-Zn-Ag-Co Project**, located 50 km NW of Sandy Bay.

Rockridge has an Option Agreement with **Eagle Plains Resources Ltd** to acquire a 100% interest in the Project.

Highlights include:

- crews have mobilized to complete a 459 line-km airborne VTEM and magnetic gradient survey
- the survey is located over the **Scimitar and Gilbert Lake** targets to investigate 30 linear kms of prospective VMS stratigraphy which hosts the Knife Lake Deposit



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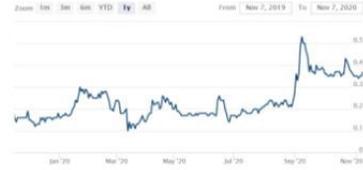
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ALCES LAKE PROJECT- 17,577 hectares (43,434 acres) and 100% owned by Appia

Highlight drill hole IV-19-012

Returned **16.06 wt% TREO over 15.55 m** starting at 8.7 m down hole depth (red arrows) which includes **49.17 wt% TREO over 3.70 m** at 9.7 m down hole depth (yellow arrows)



Ivan Zone
>85% monazite
(53.01 wt% TREO
over 1.23 m)



Dylan Zone
>57% monazite
(avg. 34.38 wt% TREO
for this body)



Some of the highest grades of critical rare earth elements (CREE) in the world have been found on **Appia's Alces Lake project**.

CREE is defined here as those rare earth elements that are in short-supply and high-demand for use in permanent magnets and modern electronic applications such as electric vehicles and wind turbines, (i.e: neodymium (Nd), praseodymium (Pr), dysprosium (Dy) and terbium(Tb). The project is located in Saskatchewan, the same provincial jurisdiction in Canada that has planned a "first-of-its-kind" rare earth processing facility which is scheduled to become operational by the end of 2022. The Critical REEs found on the property are hosted in coarse grained monazite with mineralization at and near surface. The project has several zones of REE discoveries that are along geological strike, on sub-parallel trends and which has sub-surface zones open in all directions with "blue-sky" exploration potential over a 45 km regional trend.

Highlights to date:

- Discovered **74 REE and U-bearing surface zones and occurrences** within 45 km with results that include **critical rare earth elements (CREE) with some of the highest grades in the world**
- Completed a total of **64 short diamond drill holes** (end of hole average 25 to 50 m depth) for a total of **2,276.2 m**
- Completed a total of **14 long diamond drill holes** (end of hole >50 m depth) for a total of **2,615.5 m**
- **Over 95% drill hole success rate intersecting REE-bearing pegmatite system**
- **High-grade WRCB zone exposed at surface and continues to within 10 m of surface (easy mining scenario)**
- To date, less than 1% of the property has been explored with diamond drilling

Next Steps:

- Commencing metallurgy work
- Appia **plans a substantial and aggressive follow up exploration program.**

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COPPER, NICKEL, Au/Ag CLAIMS FOR OPTION

Contact: gdeexploration@gmail.com

Deighton Lake: (Rottenstone) 4 Claims (good into May 2023) cover 2 historic DDH's drilled by Sherritt Gordon in 1968. 77m (254 ft) sulphide-mineralized zone returned 0.1% Ni, 0.11% Cu, 37.1% Fe, 0.06% Zn, 0.07% Co and 0.38 oz/ton silver (>10 g/t Ag). On fold axial plane synform. Multiple undrilled conductors (1957) staked with no modern exploration performed ("tied-on to" by Fathom Nickel Inc recent staking). Includes 1 claim on-trend with Rottenstone Mine & Tremblay Olsen and in vicinity of highly anomalous lake sediment (1972) values of 800 ppm Cu, 82 ppm Cu, 140 ppm Ni & 183 ppm Ni. "Tied-on to" Fathom Nickel Inc.

Saskoba Lake: (Creighton) Claims (good into 2022) cover 2 historic DDH's. S-00-01 encountered 20.6 m (67.6 ft), sulphide-mineralized zone with up to 2.1% Cu, 0.3% Zn and 10 g/t Ag. NER 155 returned 5.01 g/t Au over 0.8 m and anomalous silver over >19.0 m. Gov't airborne TDEM, Mag and Gravity in 2018. MMI in 2019 identified 100 m wide VMS suite and copper/gold anomalies.

Wapawekka Lake (La Ronge) Claims (good to late 2022) on main sulphide zone. Two historic holes drilled by Selco in 1960's encountered 30.4 m (99.7 ft) sulphide-mineralized zone which returned up to 2.52% Cu and 0.02 oz/ton gold (0.6 g/t Au). September 2020 Gov't VTEM & Mag release covered the zone and identified additional un-drilled targets.

Saskatchewan: Gochager Lake Nickel, Copper, Cobalt Deposit available for option:

The Gochager Lake Nickel-Copper-Cobalt project has reported grades of up to 3.92% nickel, 0.7% copper and 2.86% cobalt as reported by the Saskatchewan government (Mineral deposit index No. 0880). Historical resource estimates (non-National Instrument 43-101 compliant) were generated in 1968 and 1990. The 1968 historic resource for the Gochager Lake deposit calculated 4.3 million tons grading 0.30% Ni and 0.08% Cu. J.S. Steel, reported in 1990, that vertical and longitudinal sections were constructed from the existing data and a historic resource was defined containing 1.77 million tonnes at 0.735% nickel-equivalent.

July 20, 2018: Drill hole intersects 117.7 Meter Fully Mineralized Zone including 1.95% Nickel, .14% Cobalt and .22/% Copper over 2.7 Meters at the Gochager Lake Project.

For more information please email:

Chris Knudsen

C.K.miningproperties@gmail.com

252 g/t Gold Sampled in 2020 By Independent Company

Cook High Grade Gold Showings: Properties located approximately 8 Km N.E. of Gochager Nickel/ Copper deposit summarized in adjoining ad

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