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**Assessment Report
Tabor Lake Property (Sakoose Mine)
2017 Winter Sampling Program Summary
Rubicon Minerals Corporation
February 27, 2017 to March 08, 2017**

Tabor Lake and Melgund Township Area
Kenora Mining District
Ontario

**NTS: 52F/09
NAD83 / UTM zone 15N**

Prepared for

Rubicon Minerals Corporation
Suite 701, 1 Richmond Street West
Toronto, ON
M5H 3W4

By
Mark Ross, Chief Geologist
3 May 2017

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1.0 SUMMARY

During the winter of 2017, Rubicon Minerals Corporation completed a georeferenced Black Spruce (*Picea mariana*) tree bark sampling program on 3 unpatented mining claims located within Tabor Lake exploration properties located in Kenora. The program was designated as a reconnaissance survey, with a sample density sufficient to test anomalous gold in rugged terrain. With the work program carried out in winter months and the likelihood of collecting representative till samples in frozen ground, Bark sampling provided a good alternative. The abundant Black Spruce tree cover throughout the claims provided sufficient material to sample from.

2.0 Introduction

This report is prepared to summarize exploration work performed by Rubicon Minerals Corporation on the Tabor Lake property being submitted to the Ministry of Northern Development and Mines for assessment credit. Expenditures \$17,669 \$ are being submitted for assessment credit incurred for the collection of a total of 180 bark sampling between Feb 27, 2017 and March 8, 2017.

All work was supervised by Mark Ross P.Geo, Chief Geologist.

3.0 PROPERTY DESCRIPTION, LOCATION and ACCESS

The property consists of 10 unpatented claims totaling 24 units, encompassing an area of approximately 384 hectares and is located within Tabor Lake and Melgund Township Area, Kenora Mining Division, Ontario and are listed in Table 1 and shown in Figure 2, the mining claims map.

The unpatented claims subject to the report are located approx. 46 km southeast of the town of Dryden and 56 Km west of town of Ignace and are accessed by means of a forestry access road that departs southward from Trans-Canada Highway (Ontario's Highway 17), Figure 1 .

Table 1. Mining claims pertinent to the report list:

| Claim_ID | Units | Township_Area | Mining_District | Recorded_Owner | Recording_Date | Claim_Due_Date | Work_Required |
|----------|-------|--------------------------|-----------------|------------------------------|----------------|----------------|---------------|
| 4241161 | 3 | MELGUND (G-0827) | KENORA | RUBICON MINERALS CORPORATION | 5/26/2008 | 26-May-17 | 1200 |
| 4241162 | 2 | MELGUND (G-0827) | KENORA | RUBICON MINERALS CORPORATION | 6/2/2008 | 02-Jun-17 | 800 |
| 4241163 | 2 | TABOR LAKE AREA (G-2592) | KENORA | RUBICON MINERALS CORPORATION | 5/26/2008 | 26-May-17 | 800 |
| 4241250 | 1 | TABOR LAKE AREA (G-2592) | KENORA | RUBICON MINERALS CORPORATION | 2/8/2010 | 01-Sep-17 | 400 |
| 4246317 | 1 | TABOR LAKE AREA (G-2592) | KENORA | RUBICON MINERALS CORPORATION | 9/8/2009 | 08-Sep-17 | 400 |
| 4214556 | 3 | TABOR LAKE AREA (G-2592) | KENORA | RUBICON MINERALS CORPORATION | 3/9/2009 | 11-Sep-17 | 1200 |
| 4214549 | 5 | TABOR LAKE AREA (G-2592) | KENORA | RUBICON MINERALS CORPORATION | 3/9/2009 | 11-Sep-17 | 2000 |
| 4214550 | 5 | TABOR LAKE AREA (G-2592) | KENORA | RUBICON MINERALS CORPORATION | 3/9/2009 | 11-Sep-17 | 2000 |
| 4246316 | 1 | TABOR LAKE AREA (G-2592) | KENORA | RUBICON MINERALS CORPORATION | 9/8/2009 | 08-Sep-18 | 400 |
| 4216264 | 1 | TABOR LAKE AREA (G-2592) | KENORA | RUBICON MINERALS CORPORATION | 8/7/2007 | 07-Aug-20 | 400 |

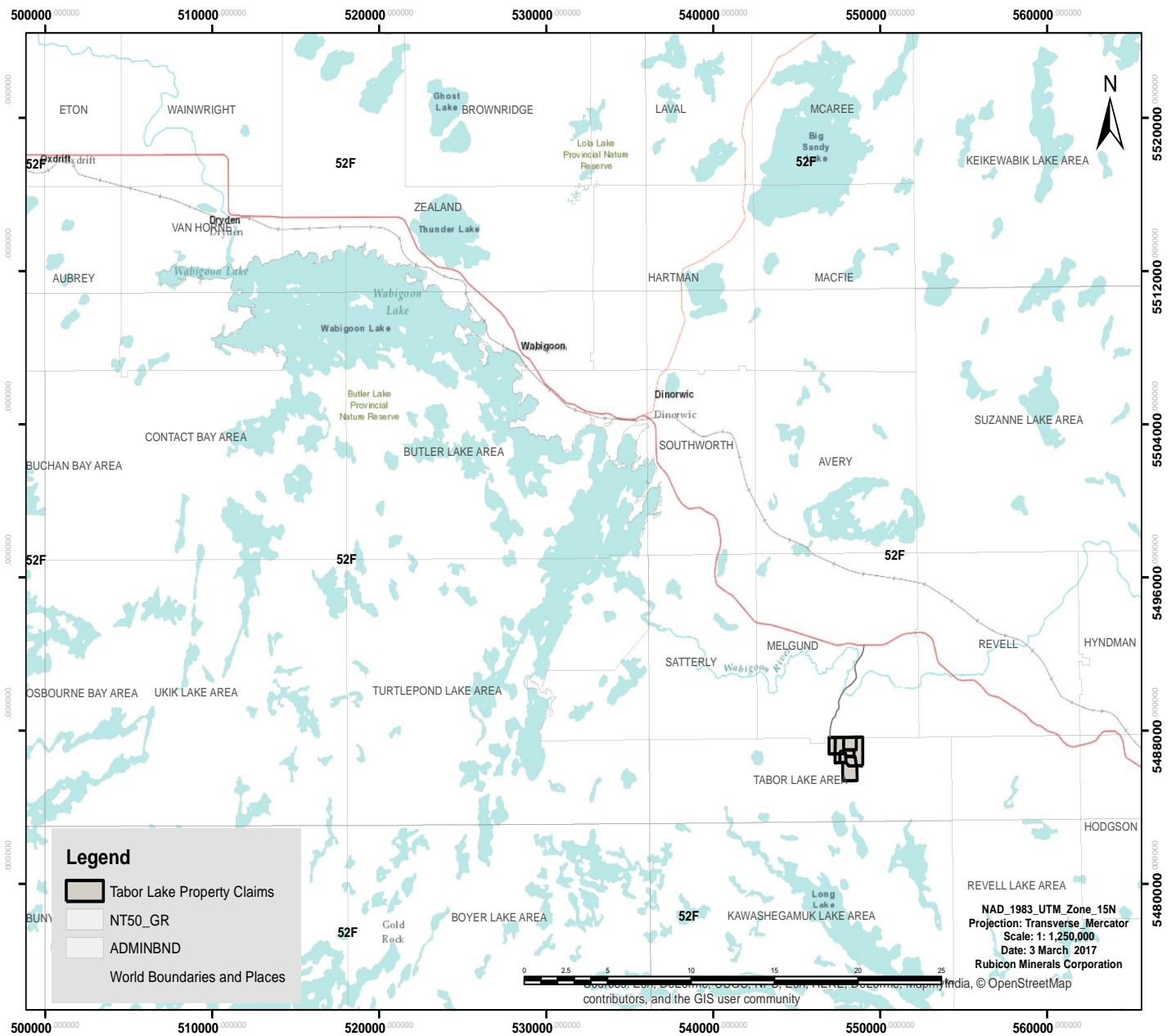


Figure 1: Property Location

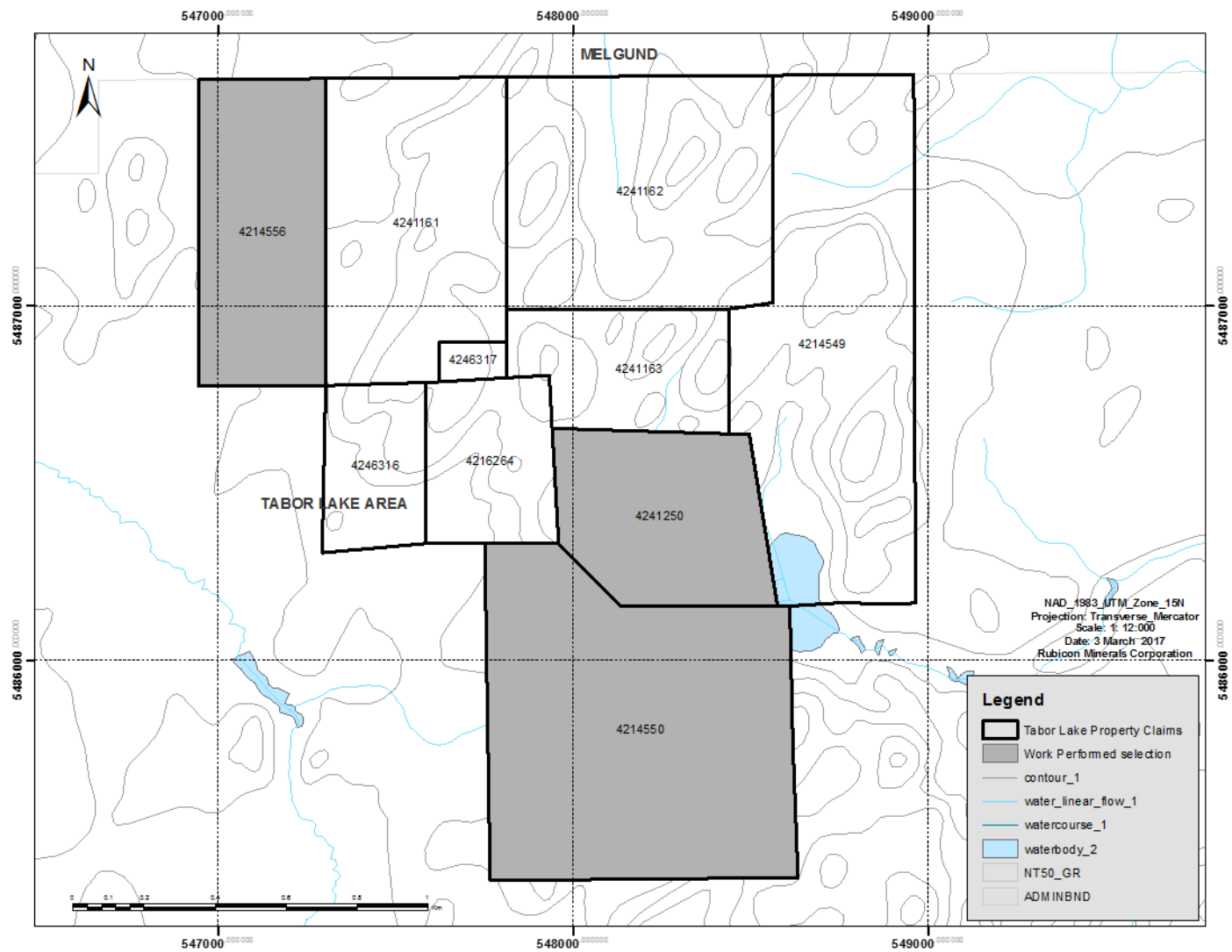


Figure 2: Mining Claims Location Map Work Performed

4.0 PHYSIOGRAPHY

The terrain is typical of Northwestern Ontario with relatively low, rounded ridges and minor ledges (2 –30 m) separated by swampy valleys and small creeks. The overburden covered areas are a mixture of recent sand and gravel deposits and lacustrine clays. The elevation ranges from 370 m to 435 m averaging around 400 m above mean sea level.

The drainage system is generally mature with most small creeks and swamps draining southwards and westwards into the Kawashegamuk Lake and River system. The Kawashegamuk River drains into the Wabigoon River which ultimately flows into the Winnipeg River System, into Lake Winnipeg and onwards to the Arctic Ocean.

5.0 EXPLORATION HISTORY

Area containing the property mining claims was known as the New Klondike after a number of gold prospects were discovered during 1890's.

Work was carried out at many location in the area over many years.

Former claim K513188 (now claim 4216264) contains the original workings of the Sakoose Mine, a modest gold producer (8800 tons 0.41 oz. / ton Au) from 1897 to 1902, with minor additional production in the 1940s.

The shaft on the Maw workings is located on former claim K615304 (now claim 4241250). Soon After the shaft was started (about 1899), the owners discovered that the vein dipped off their property and work was halted.

The Copeland shaft on former claim K594303 (now claim 4214550) was also sunk in about 1899 to a depth of 85'. No other information is available. Numerous other old pits, trenches and shafts occur on the claim block but these are poorly documented.

1897-1902: The main vein of the Sakoose Mine was discovered by Beck in 1897, and the property was acquired by J.M. Monroe and R. Watson 1898 who later sold it to the Ottawa milling and Mining Company. Three shafts were sunk to 165', 108' and 108' and mining was carried out along 400' drifts. In 1902, after mining 8,028 tons of ore at 0.476 oz. /t Au (yielding 3,413 oz. Au), operations were suspended when the mill burned down.

1934-1935: Seven diamond drill holes were completed totaling 2,973' and the No.4 shaft was sunk to a depth of 143' by Sakoose Gold mines Ltd. The No.1 shaft was also deepened to 250'. There is no record of production during this time period.

1944-1947: Van Houten Gold Mines Ltd. Undertook 362' of drifting, 3,601' of drilling in 40 underground holes, and 3,891' of drilling in 51 surface holes. Approximately 800 tons of ore were treated in the mill during this period, yielding 256 Oz Au and 145 oz. Ag.

1978-1981: The property was acquired by J.Redden, who pumped out the old workings that were accessible from the No.1 and No.2 shafts, and completed minor surface work. Minor stripping and drilling (Cobra drill and jackhammer) was completed. A small heap leach pad and recovery circuit were also tested.

1987-1988: Under a joint-venture option agreement with J.Redden, Venturex Resources Ltd. And Nexus Resources Ltd. Completed geological mapping, stripping, and 3,667 m or diamond drilling (26holes) between shafts No.3 and No.4. The best intersection in a drill hole was 0.3 oz. /t Au over 6.86 m.

1989-1991: Match Capital Resources Incorporated optioned the property from J.Redden. A geological survey was undertaken in 1990 that comprised line cutting, geological mapping, geochemical surveys (soil), geophysical surveys (ground mag, VLF-EM), and extensive stripping. The best sample was obtained from an N-S-trending quartz vein (0.257 oz. /t Au). A program of

summer drilling was completed in 1991. The program consisted of 10 holes totaling 1,742 feet. Core samples were taken, however no assay results are included with the report.

2008: Kings Bay Gold Corporation completed 6,069 m of diamond drilling in 20 holes. In addition to a new gold zone discovered below the old mine workings in hole #1, other zones were identified in hole #3 which was located 50m east of hole #1. Highlighted results included 23.39g/t Au over 0.25metres at a depth of 36.75 meters and 10.01 g/t Au over 1.00 meter at a depth of 87.50 meters. The company also completed a geophysical survey over the property, however no further details are available.

2010: Gold Summit Corp undertook compilation work and a site visit which included grab sampling of shaft spoils.

2011: Crown Gold Corporation having amalgamated with Gold Summit Corp collected the Kings Bay core from site and completed logging and sampling in an effort to confirm the economic prospects of the area. A prospecting report was submitted for assessment work and a 201m BTW drill hole was drilled which is the subject of this report also being submitted for work assessment credits.

6.0 REGIONAL GEOLOGY

Tabor Lake Property lies within the Eagle-Wabigoon-Manitou Lakes Greenstone Belt (EWMGB) which is one of a series of six interconnected greenstone belts that make up the western part of the Wabigoon Subprovince in Northwestern Ontario. The greenstone belts are made up of 60 – 80% ultramafic to felsic volcanic rocks of various types and 20 – 40% clastic and chemical metasediments. All of these rocks have been extensively deformed and intruded locally by syntectonic and post tectonic plutons, dykes and small bodies of ultramafic to felsic composition.

The property is situated within Precambrian volcanic and sedimentary rocks of Kawashegamuk Lake Group. Previous regional mapping suggest that the Kawashegamuk Lake Group faces homoclinally southwest. To the east, metavolcanics of Kawashegamuk Lake Group are intruded by massive granodiorite of the Revell Batholith.

Gold occurrences are known in the area, some with minor production records. These are typically gold bearing quartz vein. A gold sphalerite association has been noted from several of the showings in the area.

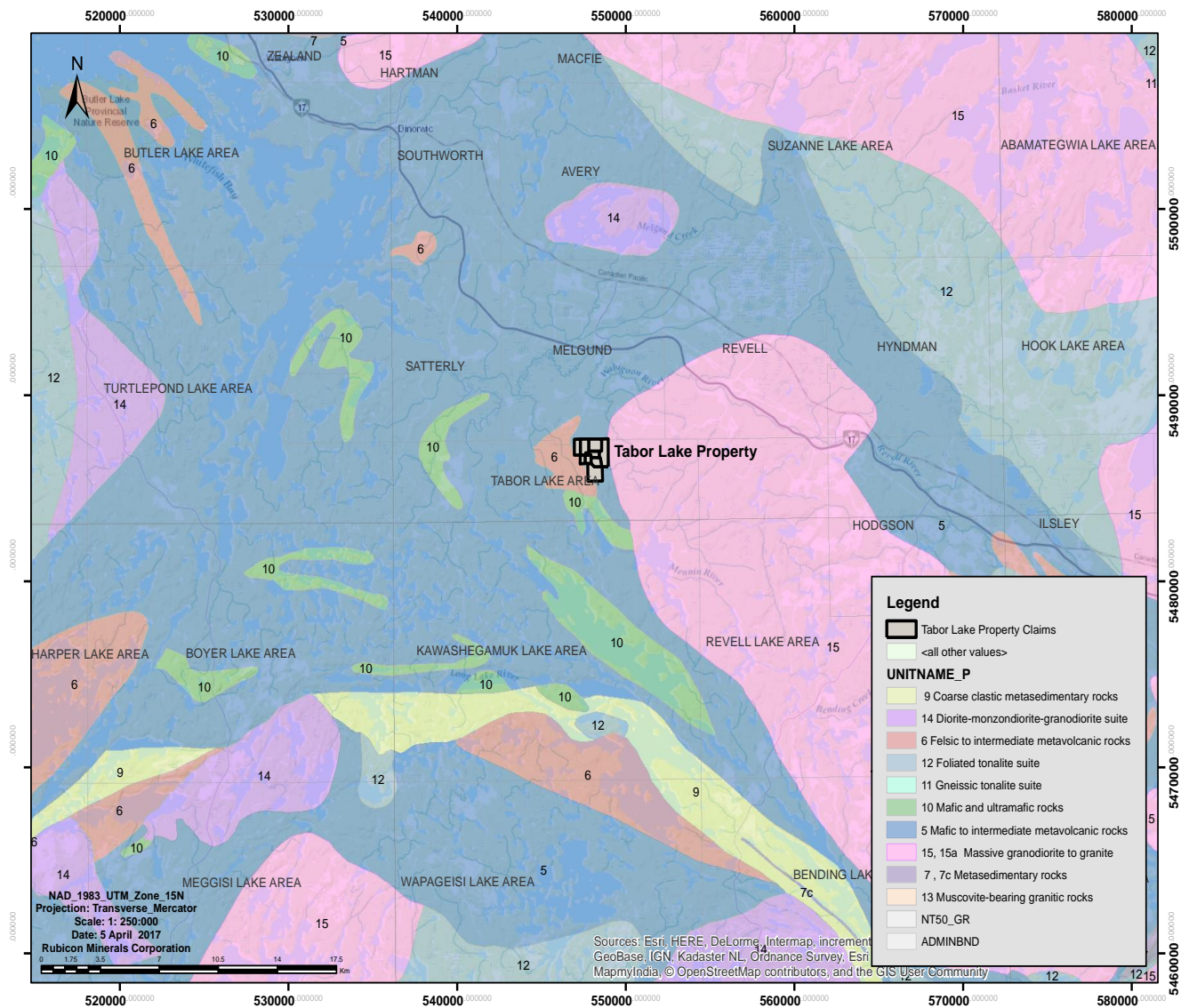


Figure 3: Geology of the Eagle-Wabigoon-Manitou Lakes Greenstone Belt

7.0 LOCAL GEOLOGY

The property is situated within a mineralized portion of Archean metavolcanic and metasedimentary rocks of the Western Wabigoon Subprovince. Volcanic flow sequences, tuffs and sediments are strongly foliated and folded into a series of anticlines and synclines on the property.

The mafic to intermediate metavolcanic rocks are monotonous units and consists mainly of massive and pillowed flows which could be locally brecciated.

The intermediate to felsic metavolcanic rocks are mainly pyroclastic rocks which are generally lapilli – size.

Minor intermediate to felsic flows with or without plagioclase porphyries occurs within lapilli – tuffs. Fuschitic layering are sometime noticed with the intermediate to felsic pyroclastic rocks and the intermediate flows.

Irregular felsic dykes intrude all the above rock types, including the gabbroic rock. These felsic dikes are massive and unfoliated, with widths varying from 0-10 metres and contacts dipping at any angle. The quartz feldspar porphyry dykes are discordant to all lithologies, and can appear complexly folded, mainly due to their moderate dips and topographic effects which exaggerates the fold pattern.

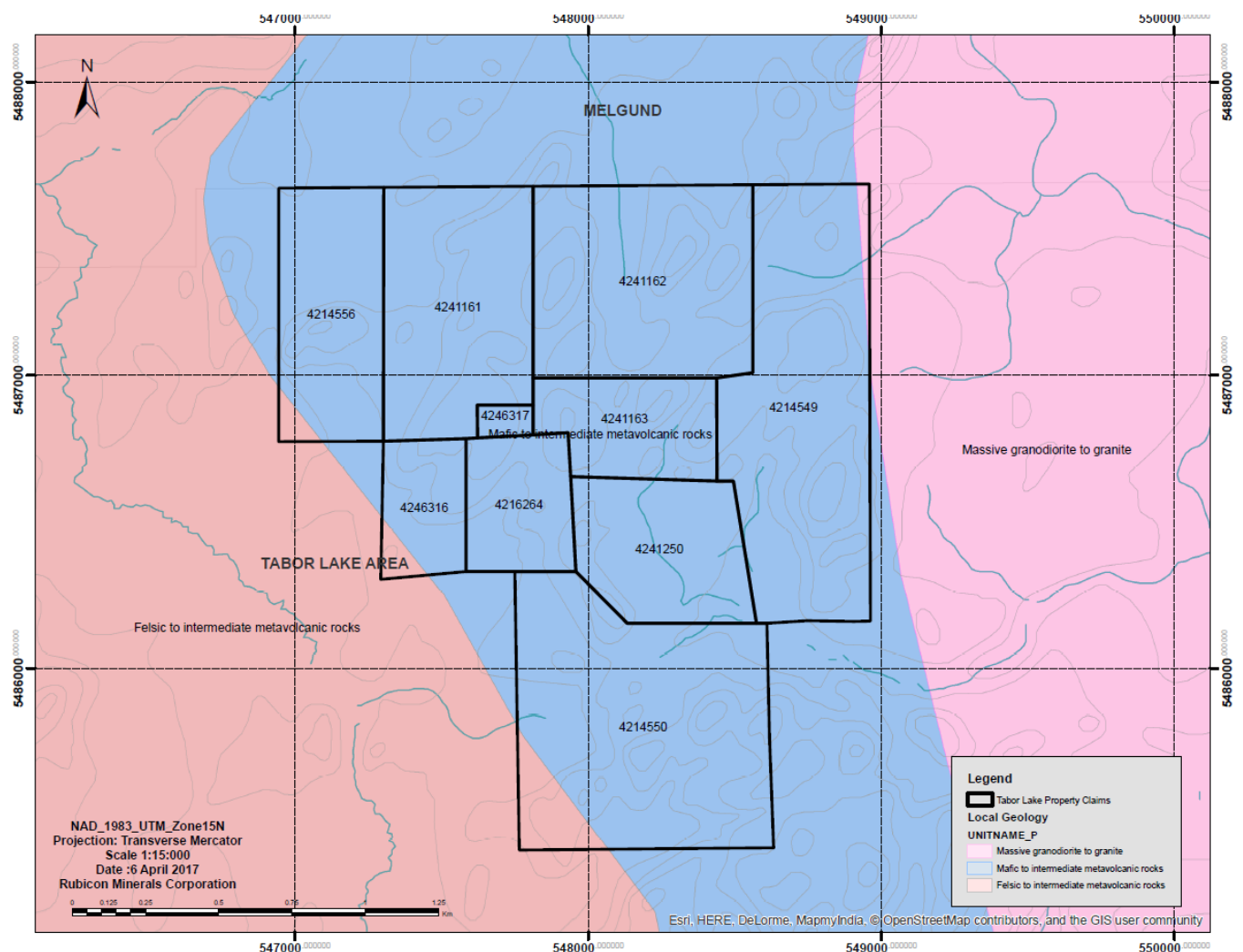


Figure 4: Local Geology

8.0 EXPLORATION WORK PREFORMED, RESULTS and RECOMMENDATIONS

The work that was conducted on the claims 4214556, 4241250, and 4214550 was a systematic Black Spruce (*Picea mariana*) tree bark sampling program. The sampling program was based on a reconnaissance style program, to identify potential targets. The historic record of exploration on these claims is limited, so a systematic blanket approach program was launched.

A potential sampling grid was developed to determine a proper budget for work performed. The programs purpose was to look for anomalies, to better focus a secondary exploration program. The work was conducted February 27 – March 8, 2017, on the 3 claims.

A total of 180 bark samples were collected during this sampling program over the three claims. Black Spruce (*Picea mariana*) was the tree chosen to be sampled during the program. The samples were collected around the base of the tree (30cm from bottom) and analyzed for gold.

The samplers used a cupped paint scraper, and a dust pan contoured to tightly fit around the exterior of the tree. The sampler would scrape the outer bark fully around the tree, until a 150g sample was collected (hand full). Each sample was referenced with a hand held GPS unit. All samples were properly labeled, dried and sent for assay. Samples were turned to ash, and tested with a routine fire assay analysis. Samples were plotted and results displayed. Based on the assay value obtained from bark sampling the company will follow work in the future using different prospecting methods.

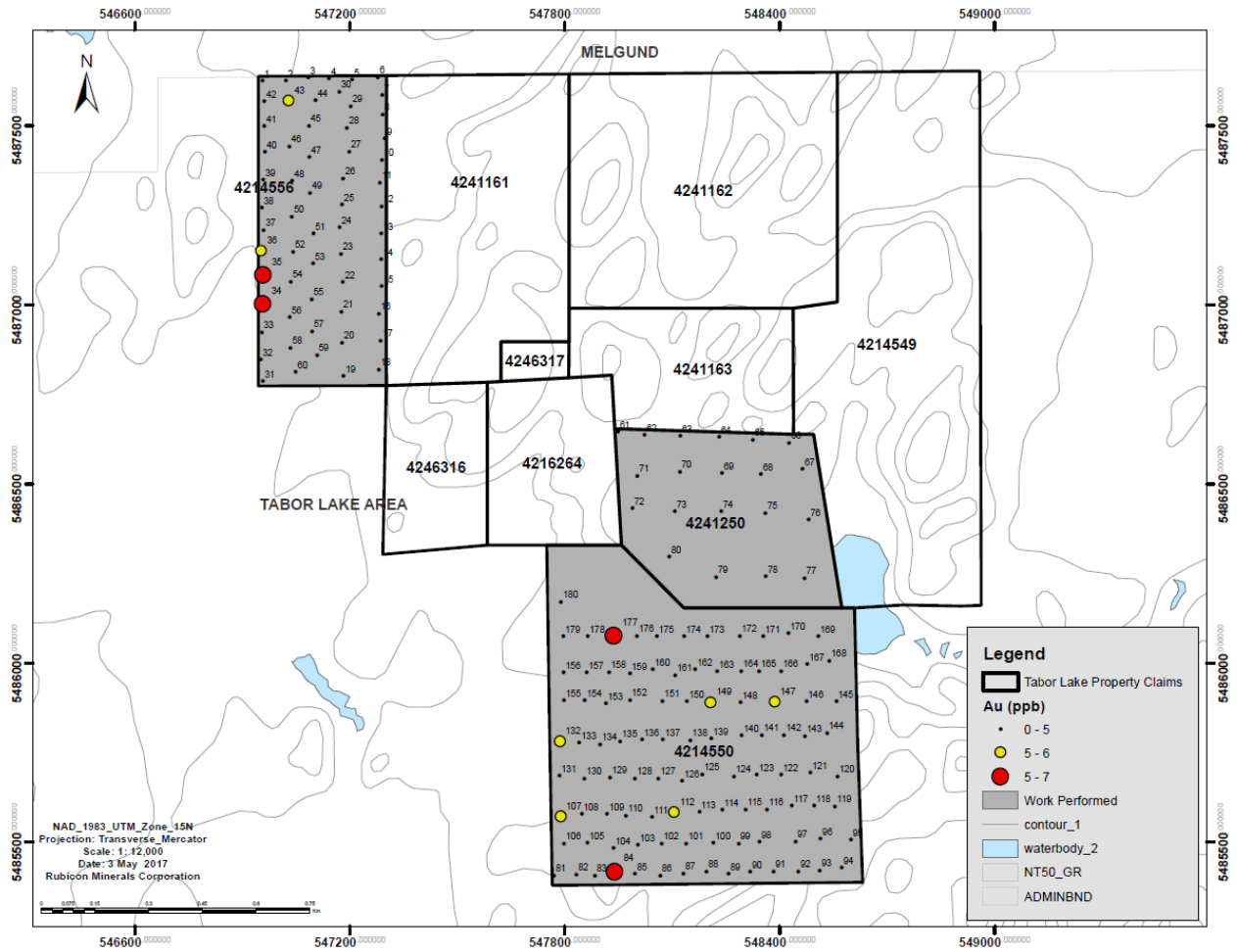


Figure 5: Property mining claim work performed with sample location and results

Table 2: Sample Id, Location (Easting; Northing), and assay results

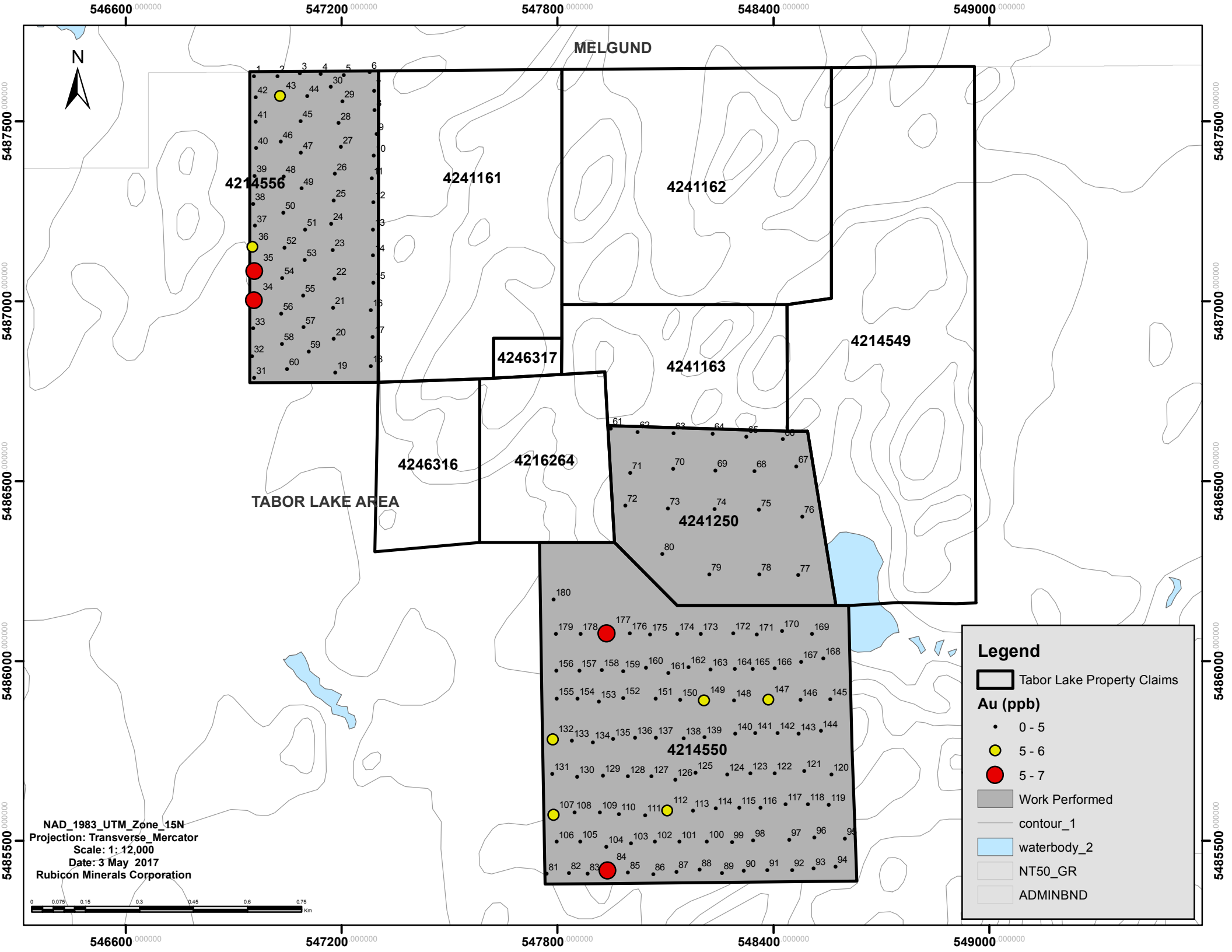
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|----------|---------|----------|-----------|----------|
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| 152 | 547982 | 5485897 | T0001064 | <5 |
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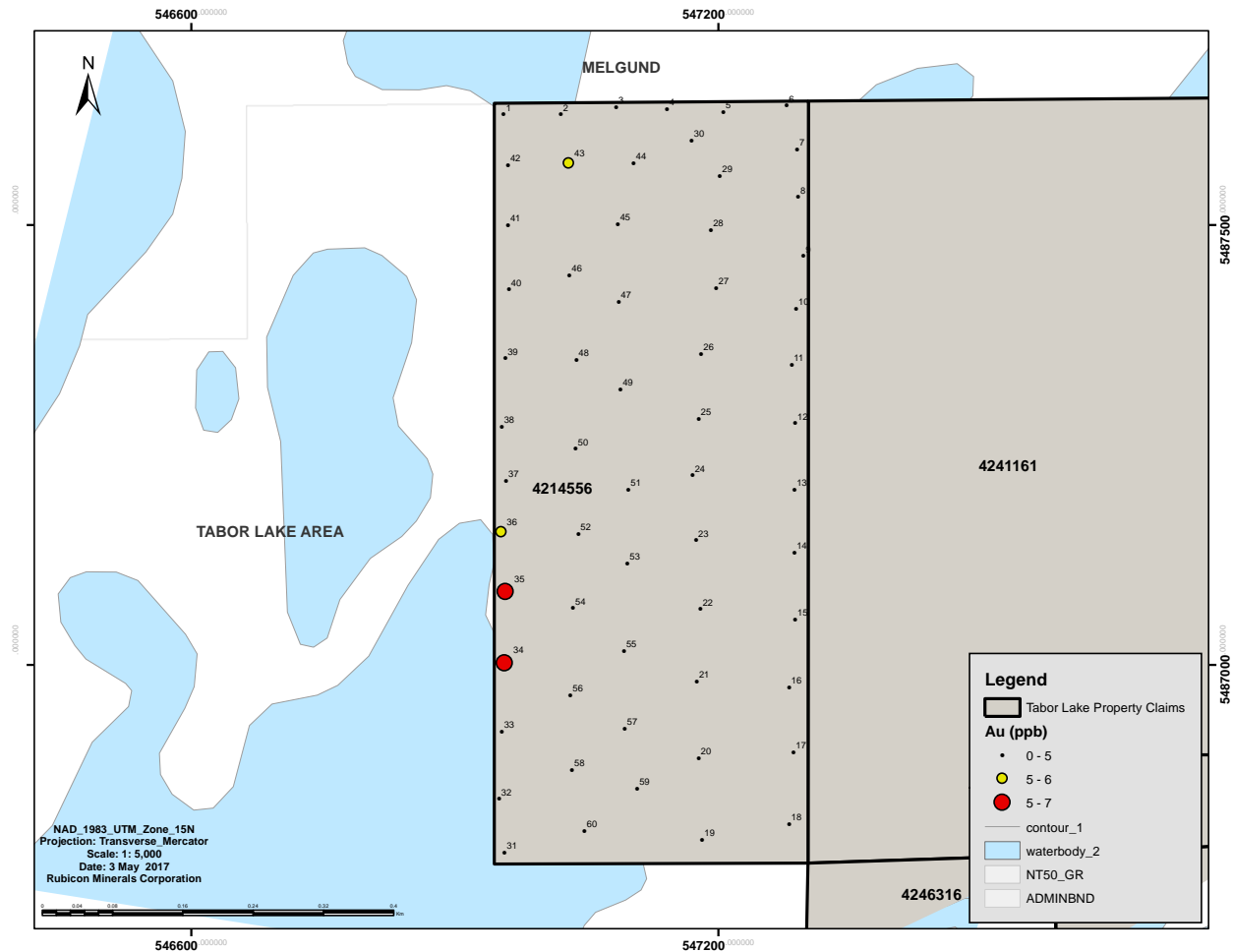


Figure 5.1: 4214556 mining claim Black Spruce bark sample location and results

60 Black Spruce bark samples were taken over this claim. Generally the samples ran lower than detection limit. Two samples returned slightly higher elevated Au (ppb) with value of 6 Au ppb, samples located mostly on the West Central part of claim boundary. The weak anomaly delineated within the claim may be a reflection of a change in topography. Future work over this claim will focus on the area where the weak anomaly was identified to investigate the elevated gold grade.

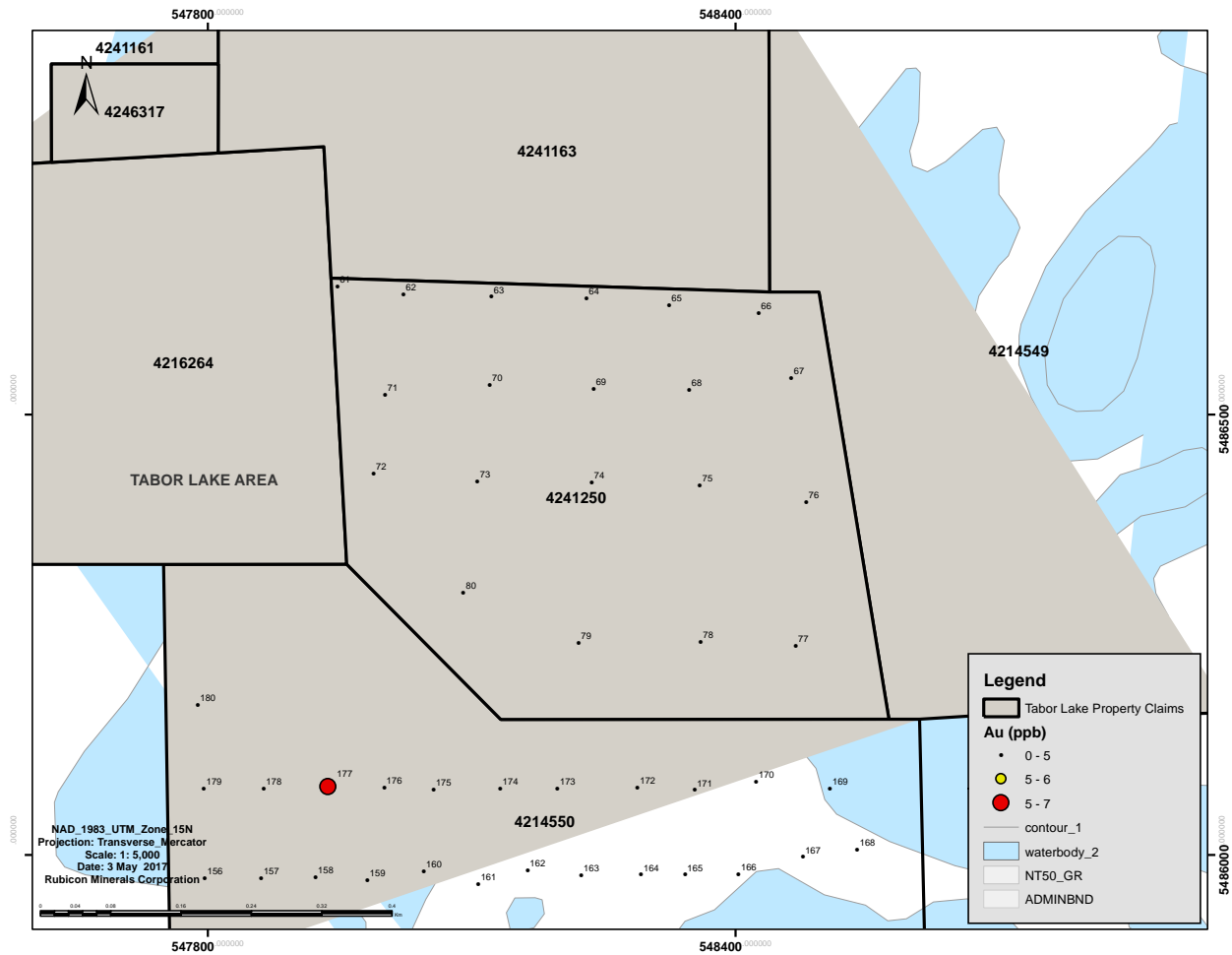


Figure 5.2: 4241250 mining claim Black Spruce bark sample location and results

All twenty Black Spruce bark samples returned values at detection or lower than detections. The bark samples did not identify a future exploration target, and we will look to use an alternative method for exploration on this claim.

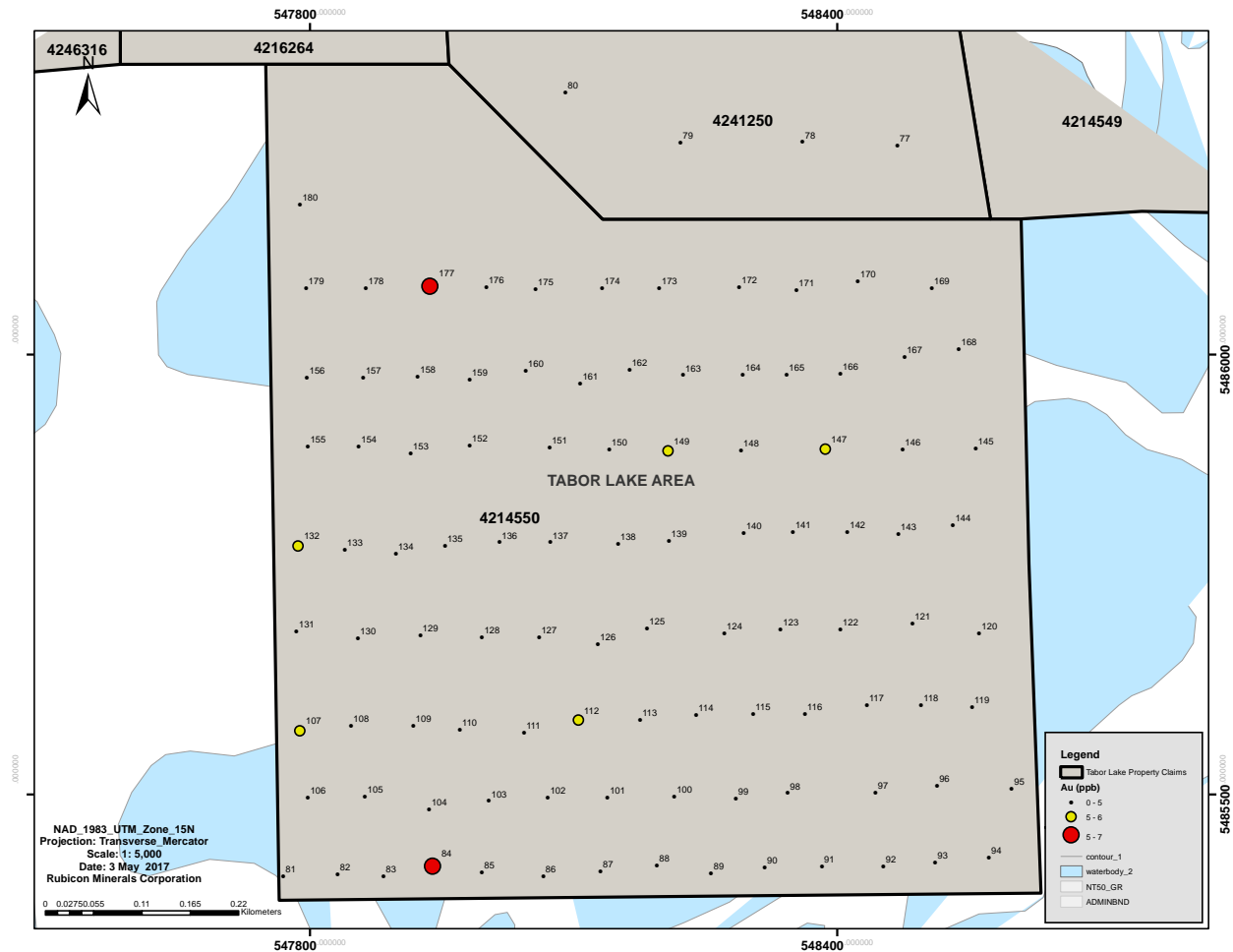


Figure 5.3: 4214550 mining claim Black Spruce bark sample location and results

100 black spruce tree bark samples were collected over this claim. 98 samples from a total of 100 returned results at detection or lower than detection.

Two black spruce bark samples returned results >5ppb, and will provide a target for future follow up exploration sampling.

Conclusion and recommendation

An accepted sampling medium did not detect significant biogeochemical anomalies on the property. The isolated elevated Au (ppb) anomaly (s) will be used as follow up to future sampling programs. These programs may include till sampling and outcrop stripping. Based on the assay value obtained from Black Spruce (*Picea mariana*) bark sampling the company will follow work in the future using different prospecting methods.

9.0 REFERENCES

- Blackburn, C.E., 1981: Kenora-Fort Frances, Kenora and Rainy River districts; Ontario Geological Survey, Map 2443, scale 1:253440.
- Blackburn, C.E., 1982: Geology of the Manitou Lakes area, District of Kenora (stratigraphy and petrochemistry); Ontario Geological Survey, Report 223, 61p.
- Blackburn, C.E., Hailstone, M.R., Deslisle, P.C. and Storey, C.C., 1989: Kenora Resident Geologist's District – 1989; in Report of Activities 1989, Resident Geologists, Ontario Geological Survey, Miscellaneous Paper 147, p.3-40.
- Blackburn, C.E., Hailstone, M.R., Parker, J.R. and Storey, C.C. 1988: Kenora Resident Geologist's area – 1987; in Report of Activities 1987, Resident Geologists, Ontario Geological Survey, Miscellaneous Paper 138, p.3-46.
- Blackburn, C.E., Johns, G.W., Ayer, J. and Davis, D.W., 1991: Wabigoon Subprovince in Geology of Ontario, Ontario Geological Survey, Special Volume 4, Part 1, p. 303381.
- Beard, R. C. and Garratt, G.L., 1984: Gold Deposits of the Kenora – Fort Francis Area; Districts of Kenora and Rainy River; OGS Mineral Deposits Circular 16.
- Hodgson, C.J., 1993: Mesothermal lode-gold deposits, in Kirkham, R.V., Sinclair, W.D., Thorpe, R.I. and Duke, J.M., eds., Mineral Deposit Modeling: Geological Association of Canada, Special Paper 40p. 635-678.
- Monte Christo Resources - Report on Diamond Drilling – Sakoose Melgund Property, District of Kenora, Ontario Feb 1984 by C. Kuryliw
- Norontex Exploration Ltd - Update on the Sakoose – Melgund claim group. Kenora mining District, NW Ontario Oct 1983 by J. Langellar
- Parker, J.R., 1989a: Property Examinations in Report of Activities 1988, Resident Geologists; Ontario Geological Survey Miscellaneous Paper 142, p. 24-25.
- Parker, J.R., 1989b: Geology, Gold Mineralization and Property Visits in the area investigated by the Dryden-Ignace Economic Geologist, 1984-1987; OGS Open File Report 5723, 206p.
- Kozowy, A., 1990: Kawashegamuk Lake Area – Gold, N.W. Ontario (Lee Lake Prospect); and OPAP Grant report; Grant # OP-90-273.
- Kresz, D.U., 1987: Geology of the Kawashegamuk Lake Area, District of Kenora, Ontario Geological Survey, Open File Report 5659, 201p.
- Ryan, T.P. and Ratcliffe, J., 1984: Report – Magnetometer Survey on Claims Held in the Kawashegamuk Lake Area; an Assessment report on ground Magnetometer Survey for Labrador Exploration (Ontario) Limited.

10.0 DATE AND SIGNATURE PAGE

Certificate of Qualified Person

PROFESSIONAL CERTIFICATION

I, Mark Ross, a geologist with Rubicon Minerals Corporation, residing at 4 Waterfront Road, Red Lake Ontario, hereby certify that:

1. I am a graduate of Laurentian University, 2002.
2. I have been employed in the geoscience industry since April 1999, and as Chief Geologist with Rubicon Minerals Corporation since 2013.
3. I personally prepared and reviewed sections of this work report.
4. I am a member in good standing of the APGO, member number 1877.
4. I am not aware of any material fact or material change with respect to the subject matter of the assessment report which is not reflected in the assessment report, the omission to disclose which makes the assessment report misleading.

Dated this 2nd day of May, 2017

Mark Ross, B.Sc. PGeo.



Signature of Author



Certificate of Analysis
Work Order : VC170825
[Report File No.: 0000021960]

Date: April 24, 2017

To: M. Ross
RUBICON MINERALS CORPORATION
103 MCMARMAC ROAD PO BOX 274
COCHENOUR ON P0V 1L0

P.O. No.: PHRR-12663 / 2017_03_16_Bark
Project No.: -
Samples: 76
Received: Mar 24, 2017
Pages: Page 1 to 3
(Inclusive of Cover Sheet)


Methods Summary

| <u>No. Of Samples</u> | <u>Method Code</u> | <u>Description</u> |
|-----------------------|--------------------|--|
| 76 | G_LOG02 | Pre-preparation processing, sorting, logging, boxing |
| 76 | G_ASH01 | Ashing of samples prior to analysis |
| 76 | GE_FAA313 | @Au, FAS, AAS, 30g-5ml(Final Mode) |

Storage: Pulp & Reject

| | |
|----------------|----------------------|
| REJECT STORAGE | DISCARD |
| PULP STORAGE | RETURN AFTER 90 DAYS |

Certified By


John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at <http://www.scc.ca/en/search/palcan/sgs>

Report Footer:

| | | | |
|--|---|------|-----------------------|
| L.N.R. | = Listed not received | I.S. | = Insufficient Sample |
| n.a. | = Not applicable | | = No result |
| *INF | = Composition of this sample makes detection impossible by this method | | |
| M | after a result denotes ppb to ppm conversion, % denotes ppm to % conversion | | |
| Methods marked with an asterisk (e.g. *NAA08V) were subcontracted | | | |
| Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods | | | |

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Final : VC170825 Order: PHRR-12663 / 2017_03_16_Bark

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Report File No.: 0000021960

| Element Method Det.Lim. Units | @Au GE_FAA313 5 ppb |
|--|------------------------------|
| D0001151 | <5 |
| D0001152 | <5 |
| D0001153 | <5 |
| D0001154 | <5 |
| D0001155 | <5 |
| D0001156 | <5 |
| D0001157 | <5 |
| D0001158 | <5 |
| D0001159 | <5 |
| D0001160 | <5 |
| D0001161 | <5 |
| D0001162 | <5 |
| D0001163 | <5 |
| D0001164 | <5 |
| D0001165 | <5 |
| D0001166 | <5 |
| D0001167 | <5 |
| D0001168 | <5 |
| D0001169 | <5 |
| D0001170 | <5 |
| D0001171 | <5 |
| D0001172 | <5 |
| D0001173 | <5 |
| D0001174 | <5 |
| D0001175 | <5 |
| D0001176 | <5 |
| D0001177 | <5 |
| D0001178 | <5 |
| D0001179 | <5 |
| D0001180 | <5 |
| D0001181 | <5 |
| D0001182 | <5 |
| D0001183 | <5 |
| D0001184 | 7 |
| D0001185 | <5 |
| D0001186 | <5 |
| D0001187 | <5 |
| D0001188 | <5 |
| D0001189 | <5 |
| D0001190 | <5 |

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Final : VC170825 Order: PHRR-12663 / 2017_03_16_Bark

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Report File No.: 0000021960

| Element Method Det.Lim. Units | @Au GE_FAA313 5 ppb |
|--|------------------------------|
| D0001191 | <5 |
| D0001192 | <5 |
| D0001193 | <5 |
| D0001194 | <5 |
| D0001195 | <5 |
| D0001196 | <5 |
| D0001197 | <5 |
| D0001198 | <5 |
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| D0001200 | <5 |
| D0001201 | <5 |
| D0001202 | <5 |
| D0001203 | <5 |
| D0001204 | <5 |
| D0001205 | <5 |
| D0001206 | <5 |
| D0001207 | <5 |
| D0001208 | <5 |
| D0001209 | <5 |
| D0001210 | <5 |
| D0001211 | <5 |
| D0001212 | <5 |
| D0001213 | <5 |
| D0001214 | <5 |
| D0001215 | <5 |
| D0001216 | <5 |
| D0001217 | <5 |
| D0001218 | <5 |
| D0001219 | <5 |
| D0001220 | <5 |
| D0001221 | <5 |
| D0001222 | <5 |
| D0001223 | <5 |
| D0001224 | <5 |
| D0001225 | <5 |
| D0001226 | <5 |

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Certificate of Analysis
Work Order : VC170826
[Report File No.: 0000022031]

Date: April 26, 2017

To: **N. Badiuk**
RUBICON MINERALS CORPORATION
103 MCMARMAC ROAD PO BOX 274
COCHENOUR ON P0V 1L0

P.O. No.: PHRR-12663 / 2017_03_16_Bark
Project No.: -
Samples: 64
Received: Mar 24, 2017
Pages: Page 1 to 3
(Inclusive of Cover Sheet)

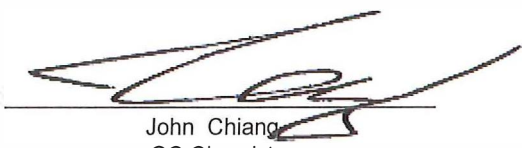
Methods Summary

| <u>No. Of Samples</u> | <u>Method Code</u> | <u>Description</u> |
|-----------------------|--------------------|--|
| 64 | G_LOG02 | Pre-preparation processing, sorting, logging, boxing |
| 64 | G_ASH01 | Ashing of samples prior to analysis |
| 64 | GE_FAA313 | @Au, FAS, AAS, 30g-5ml(Final Mode) |

Storage: Pulp & Reject

| | |
|----------------|----------------------|
| REJECT STORAGE | DISCARD |
| PULP STORAGE | RETURN AFTER 90 DAYS |

Certified By


John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at <http://www.scc.ca/en/search/palcan/sgs>

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable

I.S. = Insufficient Sample
- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods

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Final : VC170826 Order: PHRR-12663 / 2017_03_16_Bark

Page 2 of 3

Report File No.: 0000022031

| Element Method Det.Lim. Units | @Au GE_FAA313 5 ppb |
|--|------------------------------|
| D0001227 | <5 |
| D0001228 | <5 |
| D0001229 | <5 |
| D0001230 | <5 |
| D0001231 | <5 |
| D0001232 | <5 |
| D0001233 | <5 |
| D0001234 | 6 |
| D0001235 | 6 |
| D0001236 | 5 |
| D0001237 | <5 |
| D0001238 | <5 |
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| D0001240 | <5 |
| D0001241 | <5 |
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| D0001247 | <5 |
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| D0001249 | <5 |
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| D0005352 | <5 |
| D0005353 | <5 |
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| D0005355 | <5 |
| D0005356 | <5 |
| D0005357 | 5 |
| D0005358 | <5 |
| D0005359 | <5 |
| D0005360 | <5 |
| D0005361 | <5 |
| D0005362 | 5 |
| D0005363 | <5 |
| D0005364 | <5 |
| D0005365 | <5 |
| D0005366 | <5 |

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Final : VC170826 Order: PHRR-12663 / 2017_03_16_Bark

Page 3 of 3

Report File No.: 0000022031

| Element Method Det.Lim. Units | @Au GE_FAA313 5 ppb |
|--|------------------------------|
| D0005367 | <5 |
| D0005368 | <5 |
| D0005369 | <5 |
| D0005370 | <5 |
| D0005371 | <5 |
| D0005372 | <5 |
| D0005373 | <5 |
| D0005374 | <5 |
| D0005375 | <5 |
| D0005376 | <5 |
| D0005377 | <5 |
| D0005378 | <5 |
| D0005379 | <5 |
| D0005380 | <5 |
| D0005381 | <5 |
| D0005382 | 5 |
| D0005383 | <5 |
| D0005384 | <5 |
| D0005385 | <5 |
| D0005386 | <5 |
| D0005387 | <5 |
| D0005388 | <5 |
| D0005389 | <5 |
| D0005390 | <5 |

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Certificate of Analysis
Work Order : VC170901
[Report File No.: 0000022259]

Date: May 03, 2017

To: N. Badiuk
RUBICON MINERALS CORPORATION
103 MCMARMAC ROAD PO BOX 274
COCHENOUR ON P0V 1L0

P.O. No.: PHRR-12663 / 2017_03_18_Bark
Project No.: -
Samples: 76
Received: Mar 30, 2017
Pages: Page 1 to 3
(Inclusive of Cover Sheet)

Methods Summary

| No. Of Samples | Method Code | Description |
|----------------|-------------|--|
| 76 | G_LOG02 | Pre-preparation processing, sorting, logging, boxing |
| 76 | G_ASH01 | Ashing of samples prior to analysis |
| 76 | GE_FAA313 | @Au, FAS, AAS, 30g-5ml(Final Mode) |

Storage: Pulp & Reject

| | |
|----------------|----------------------|
| REJECT STORAGE | DISCARD |
| PULP STORAGE | RETURN AFTER 90 DAYS |

Certified By

John Chian
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at <http://www.scc.ca/en/search/palcan/sgs>

Report Footer:

| | | | |
|--|-----------------------|------|-----------------------|
| L.N.R. | = Listed not received | I.S. | = Insufficient Sample |
| n.a. | = Not applicable | - | = No result |
| *INF = Composition of this sample makes detection impossible by this method | | | |
| M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion | | | |
| Methods marked with an asterisk (e.g. *NAA08V) were subcontracted | | | |
| Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods | | | |

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Final : VC170901 Order: PHRR-12663 / 2017_03_18_Bark

Page 2 of 3

Report File No.: 0000022259

| Element Method Det Lim Units | @Au GE_FAA313 5 ppb |
|---------------------------------------|------------------------------|
| T0001053 | <5 |
| T0001054 | <5 |
| T0001055 | <5 |
| T0001056 | <5 |
| T0001057 | <5 |
| T0001058 | <5 |
| T0001059 | 5 |
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| T0001061 | 5 |
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| T0001063 | <5 |
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| T0001069 | <5 |
| T0001070 | <5 |
| T0001071 | <5 |
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| T0001073 | <5 |
| T0001074 | <5 |
| T0001075 | <5 |
| T0001076 | <5 |
| T0001077 | <5 |
| T0001078 | <5 |
| T0001079 | <5 |
| T0001080 | <5 |
| T0001081 | <5 |
| T0001082 | <5 |
| T0001083 | <5 |
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| T0001086 | <5 |
| T0001087 | <5 |
| T0001088 | <5 |
| T0001089 | 6 |
| T0001090 | <5 |
| T0001091 | <5 |
| T0001092 | <5 |

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