

ASSESSMENT REPORT ON
MAPPING & PROSPECTING
CLAIM 4249711
BORDEN LAKE PROJECT

COCHRANE TOWNSHIP
PORCUPINE DISTRICT, ONTARIO

Submitted to:
PROVINCIAL RECORDING OFFICE
Ministry of Northern Development and Mines and Forestry
933 Ramsey Lake Road
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Date: 19 September 2012

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INTRODUCTION

During the spring of 2012, Probe Mines Limited conducted mapping, prospecting and sampling on the Borden Lake Project. This report details the activities completed on one claim, 4249711, located in Cochrane township.

A surface gold showing is present on the Borden Lake Project and has been identified over an area 150 metres long by up to 45 metres wide, hosted by a highly altered and metamorphosed suite of rocks within the volcano-sedimentary horizon. Grab samples from selected outcrop returned values of up to 3.4 g/t gold, and the property is considered to have excellent potential to host a low-grade, bulk tonnage-type of gold deposit. Limited exploration work investigating the base metal potential of the volcanic horizon was previously undertaken by Noranda. Sulphide mineralized felsic fragmental units were identified which returned anomalous base metal concentrations, suggesting good potential for hosting volcanogenic massive sulphide ("VMS") deposits.

In July 2010, a drill program was completed to test the extent of the surface showing. Results indicated that there was excellent potential to host a low-grade, bulk tonnage gold deposit on the property. Additional drilling on the property has continued to illustrate this potential and Probe released an updated NI 43-101 compliant Resource Estimate in May 2012 on the Borden Lake Deposit. Previous assessment for the Project was filed under work report W1060.02610 in November 2010, W1160.00098 in January 2011 and W1160.02058 in September 2011.

The property is located in the Borden and Cochrane Townships, approximately 9 km east-northeast of the town of Chapleau, Ontario.

All maps coordinates are UTM Nad 83, Zone 17. All costs are in Canadian dollars.

LOCATION AND ACCESS

The Borden Lake project is located in the Borden Lake area of the 1:50,000 NTS topographic sheet 41O/14, approximately 160 km southwest of the city of Timmins and 9 km east-northeast of the town of Chapleau, Ontario (Figure 1). Access to the property is via Highway 101.

The current report details work applicable to claim 4249711 located in Cochrane Township. An airborne geophysical survey was previously completed on this claim and assessment applied in September 2011 (W1160.02058).

The amount of credits applied from the work completed as detailed in this report is \$2099 and is being used towards keeping the claim in good standing.

Table 1 – Mineral Claim Information

| Claim# | District | Claim Due Date | Township | G-Plan | NTS | Units | Assess Required | Assess Applied Previously | Total Required |
|---------|----------|----------------|----------|--------|-------|-------|-----------------|---------------------------|----------------|
| 4249711 | POR | 22-Sep-12 | COCHRANE | G-1085 | 41O14 | 4 | \$1,600.00 | \$1,167.00 | \$433.00 |

GEOLOGY

The Borden Lake Project is located in the Superior Province of Northern Ontario. The Superior Province is divided into numerous Subprovinces, bounded by linear faults and characterized by differing lithologies, structural/tectonic conditions, ages and metamorphic conditions. The Subprovinces are divided into 4 categories: Volcano-plutonic; Metasedimentary; Gneissic/plutonic; and High-grade gneissic (Thurston, 1991). The rocks range in age from 3.5Ga to less than 2.76 Ga and form an east-west trending pattern of alternating terranes.

Regionally (Figure 2), the Kapuskasing Structural Zone (KSZ), an elongate north to northeast trending structure, transects the Wawa Subprovince to the west, and the Abitibi Subprovince to the east. The KSZ is approximately 500km long, extending from James Bay at its northeast end to the east shore of Lake Superior at its southwest end. Typically the KSZ is represented by high metamorphic grade granulite and amphibolite facies paragneiss, tonalitic gneisses and anorthosite-suite gneisses occurring along a moderate northwest dipping crustal scale thrust fault believed to have resulted from an early Proterozoic event (Percival and McGrath 1986).

The Wawa and Abitibi Subprovinces, which abut the KSZ, are volcano-plutonic terranes comprising low metamorphic grade metavolcanic-metasedimentary belts. They contain lithologically diverse metavolcanic rocks with various intrusive suites and to a lesser extent chemical and clastic metasedimentary rocks. The individual greenstone belts within the subprovinces have been intruded, deformed and truncated by felsic batholiths. The east trending Abitibi and Swayze greenstone belts of the Abitibi subprovince have

historically been explored and mined for a variety of commodities; while the Wawa subprovince hosts the east-trending Wawa greenstone belt and the Mishibishu greenstone belt where much exploration and mining has occurred.

Several alkali rocks such as carbonatite complexes along with lamprohyric dykes intruded along the KSZ, approximately 1022 to 1141 Ma ago. The carbonatite occurrences appear to display close spatial relationships with major northeast-striking shear zones. Proximal to the project area, on the northern side of the KSZ, three (3) such complexes are known to occur. These include the Borden Township carbonatite complex, the Nemegosenda Lake alkalic complex; and the Lackner Lake alkalic complex.

LOCAL GEOLOGY

The Borden Lake greenstone belt is in Borden and Cochrane Townships. It is a west trending belt of supracrustal rocks, approximately 3 km wide, that includes mafic to ultramafic gneiss, pillow basalt, felsic metavolcanic rocks, felsic porphyries and tonalites which are overlain by a +30 m thick suite of Timiskaming-aged clastic metasediments (Moser 1989, Moser 1994, Moser 2008, Percival 2008). The metasediments comprise greywackes, arkose, arenite, quartz pebble conglomerate and polymictic cobble conglomerate, metamorphosed to upper amphibolites facies. Gneissic fabrics are evident and the rocks appear to have been affected by regional deformation. Several episodes of deformation are reflected in the structural imprint of the rocks, with the last deformation being related to the development of the KSZ.

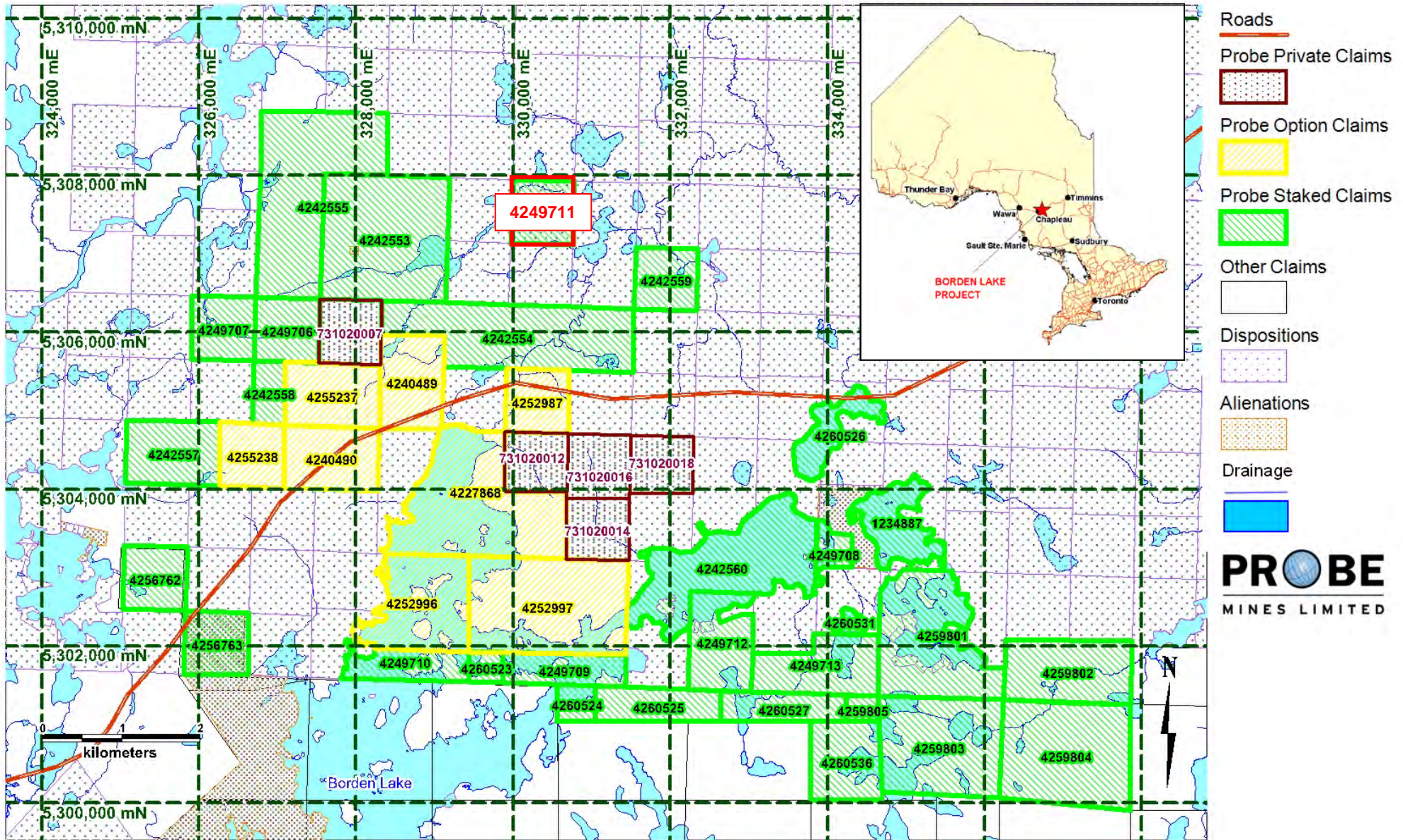


Figure 1- Location of the Borden Lake Project (Claim 4249711 is highlighted in red)

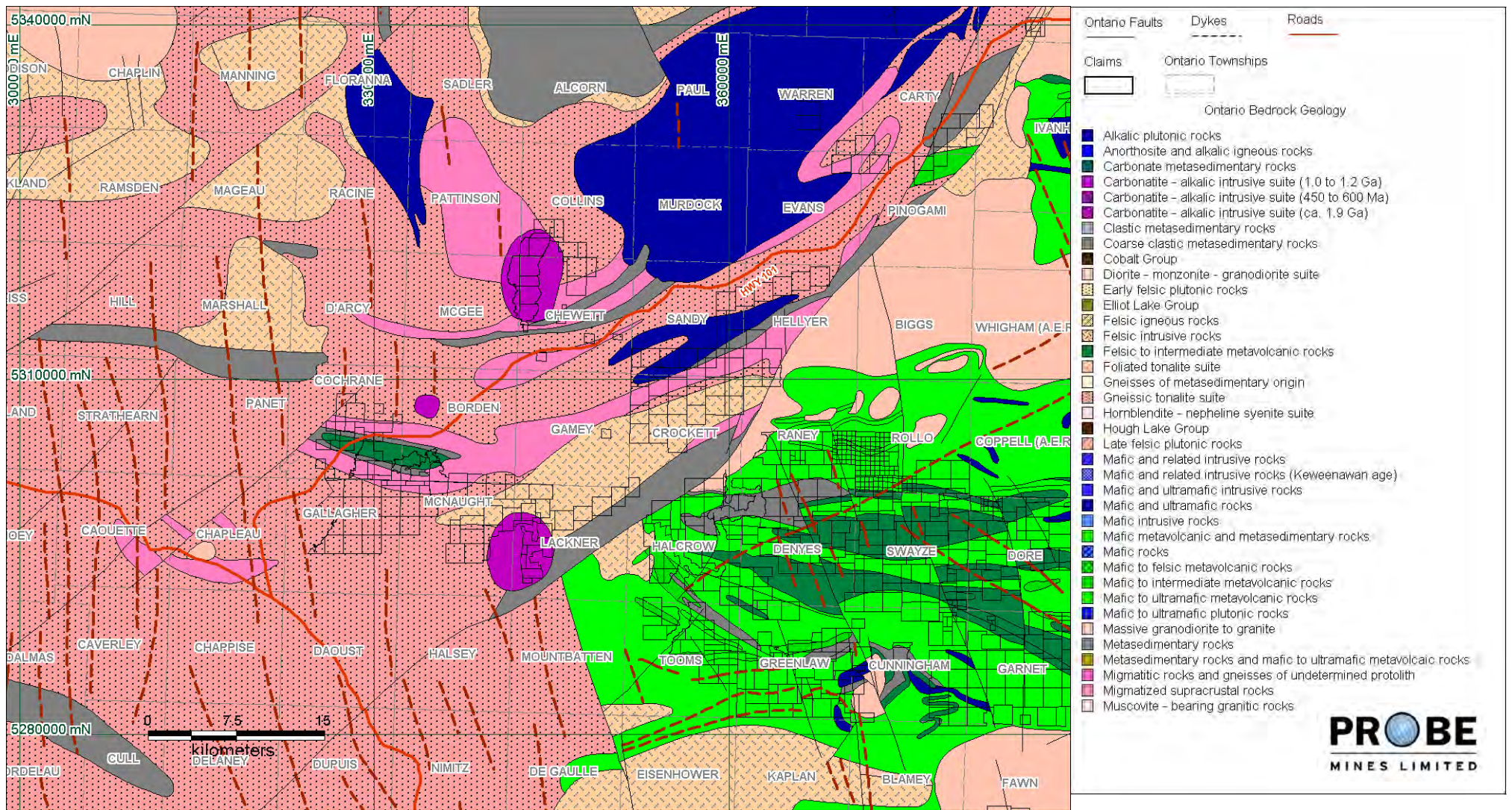


Figure 2 – General Geology of the Borden Lake Area

PREVIOUS WORK

Minimal previous work has been completed on the property. In the early to mid 1980s Noranda Exploration Co. Ltd. carried out an exploration program in the west-northwest section of the project area. The program consisted of geological mapping and geophysical surveys including magnetic and Max-min EM. A drill program was also conducted. AFRIs 41O14SW1003, 41O14SW0003 and 41O14SW0004 detail the results of this work.

Various assessment reports were also filed by M. Tremblay in the early 1990s. Work included VLF surveys, soil geochemical sampling and overburden stripping. The AFRIs that detail the work completed include 41O14SW9179, 41O14SW9180, 41O14SW9184, 41O14SW9200, 41O15NE0001 and 41O14SW0001.

In July 2010, Probe Mines completed a diamond drill program comprising eight holes and totaling 790m on claim number 4227868. An assessment report on the drilling was filed in November 2010 under work report W1060.02610. Results indicated that there is excellent potential to host a low-grade, bulk tonnage gold deposit on the property. A Geotech VTEM survey was flown by Probe Mines between January 5 and January 20 2011.

MAPPING, PROSPECTING AND SAMPLING

In the spring of 2012, Probe Mines initiated a property wide mapping and prospecting program on the Borden Lake Project. Where applicable, sediment sampling was also completed. These field activities were completed by Probe geologists Breanne Beh and Daniel LaFontaine. Sharon Allan, consulting geologist for Probe Mines, planned, coordinated and supervised the 2012 programs, which also included data compilation, analysis and interpretation, and is the author of this report.

Mapping & Prospecting

Claim 4249711 is located in the north eastern area of Cochrane Township. On July 20 and 21, 2012, the claim was accessed by truck and ATV, and then traversed in east-west lines on foot to locate any outcrop present within the claim boundaries.

Figure 3 illustrates the personnel tracks recorded by the GPS (Global Positioning Device) on July 20 in a purple dotted line and on July 21 in a pink dotted line. Four outcrops were discovered on the traverses. The details of the outcrops are listed in Table 2.

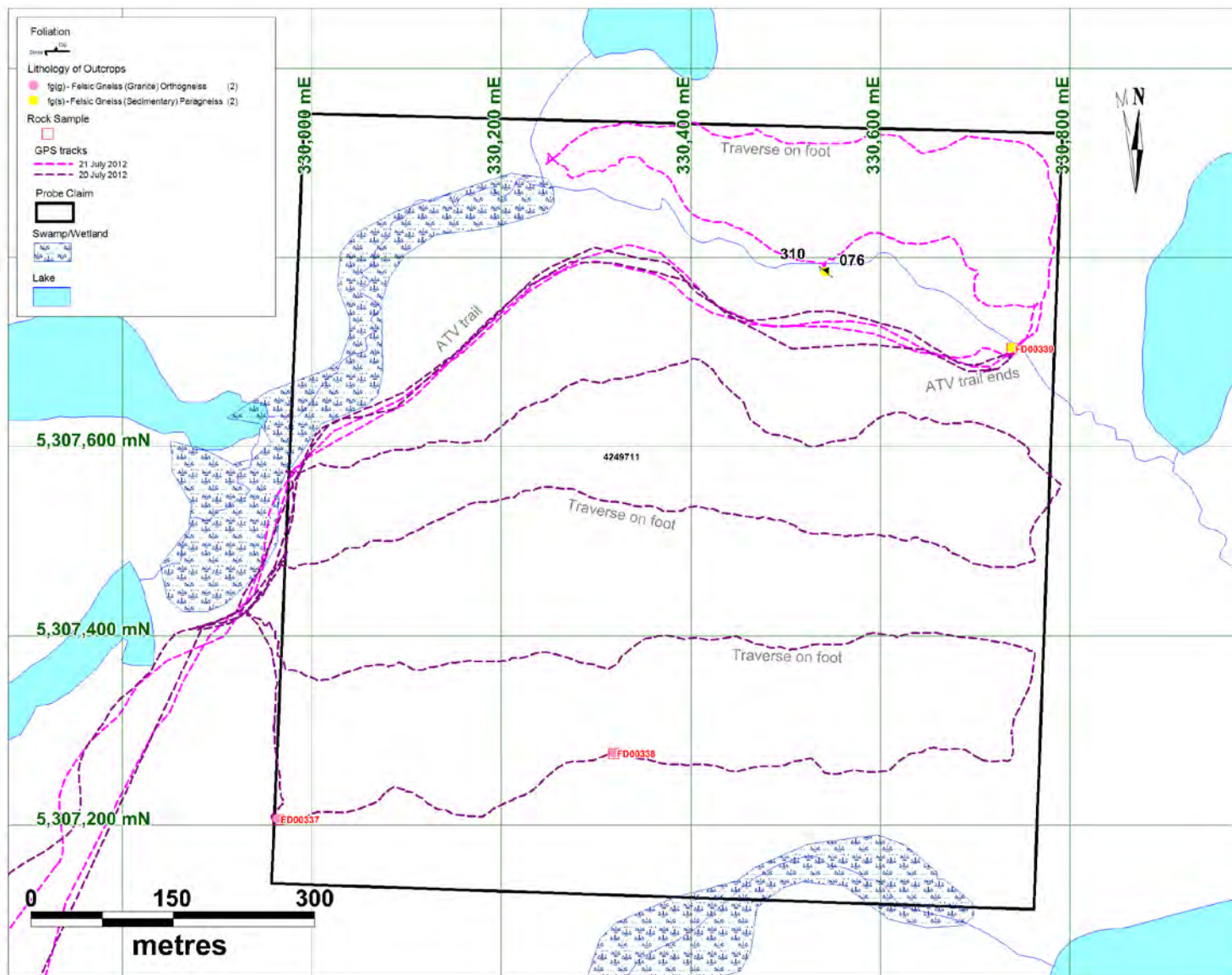


Figure 3 – Map of Claim 4249711 with locations of Rock Outcrops & Samples (see Appendix I for 1:3,000 map)

Two of the outcrops were Felsic Gneiss (G), the G denoting granite as the inferred protolith, and as such an orthogneiss. One outcrop was well foliated while the other was massive. Both contained biotite (5-10%) and pyrite (0.5%), but no garnet or pyrrhotite. Samples of each were taken to send for gold Fire assay and multi-element aqua regia ICP analysis; samples FD00337 and FD00338. No structural features were observed on either outcrop and as such no measurements were recorded.

The other two outcrops were Felsic Gneiss (S), the S denoting an inferred sedimentary protolith and as such a paragneiss. One site was moderately foliated and one was well foliated. A foliation measurement was recorded on the moderately foliated outcrop (waypoint 4), with a strike of 310° and a dip of 76°, however no features were observed or recordable on the other outcrop. Both contained larger amounts of biotite (10-15%) with no garnet or pyrrhotite. One contained 0.5% pyrite and a sample was taken for analysis (FD00339), whereas the other outcrop did not contain pyrite and was not sampled.

Table 2– Rock Outcrops & Sample Descriptions

| WAYPOINT | LITHOLOGY | % Biotite | % Garnet | % Pyrite | % Pyrrhotite | FABRIC | S1 STRIKE | S1 DIP | Code Type | SAMPLE | Other DESCRIPTION | UTME | UTMN |
|----------|-------------------|-----------|----------|----------|--------------|---------------------|-----------|--------|---------------|---------|-------------------|--------|---------|
| 1 | Felsic Gneiss (G) | 5 | 0 | 0.5 | 0.0 | Well Foliated | n/a | n/a | n/a | FD00337 | moderately rusty | 329964 | 5307206 |
| 2 | Felsic Gneiss (G) | 10 | 0 | 0.5 | 0.0 | Massive | n/a | n/a | n/a | FD00338 | | 330319 | 5307276 |
| 3 | Felsic Gneiss (S) | 15 | 0 | 0.5 | 0.0 | Well Foliated | n/a | n/a | n/a | FD00339 | | 330739 | 5307704 |
| 4 | Felsic Gneiss (S) | 10 | 0 | 0.0 | 0.0 | Moderately foliated | 310 | 76 | S-1 Foliation | | | 330542 | 5307785 |

Throughout the course of the summer, rock samples were sent in batches of 37 samples, along with 3 QAQC samples that comprised 2 certified standard materials and 1 blank sample. Batches were sent to Activation Laboratories in Timmins, ON to be crushed and pulverized, and then analyzed by gold Fire Assay (AA finish) and Aqua regia-MS Ultratrace 1.

Description of Analysis – Rock Assays

In Fire Assay Fusion, 30 g of the pulverized rock sample is mixed with fire assay fluxes (borax, soda ash, silica, litharge) and with Ag added as a collector. After being placed in a fire clay crucible, the mixture is preheated at 850°C, intermediate to 950°C and finished at 1060°C, with the full process lasting approximately 60 minutes. The crucibles are removed from the assay furnace and the molten slag (lighter material) is carefully poured from the crucible into a mould, leaving a lead button at the base of the mould. The lead button is placed in a preheated cupel which absorbs the lead when cupelled at 950°C to recover the Ag (doré bead) + Au. With an AA Finish, the entire Ag doré bead is dissolved in aqua regia and the gold content is determined by Atomic Absorption (AA). This is an instrumental method of determining element concentration by introducing an element in its atomic form, to a light beam of appropriate wavelength causing the atom to absorb light – atomic absorption. The reduction in the intensity of the light beam directly correlates with the concentration of the elemental atomic species. Detection limits for Fire Assay with AA finish are 5 to 3000ppb Au (www.actlabs.com).

Ultratrace I, a fifty-nine (59) multi-element package, is an aqua regia partial digestion which utilizes a mixture of hydrochloric and nitric acids to dissolve sulphides, some oxides and some altered silicates. Base metals will normally be totally dissolved but this is dependent on mineralogy. A 0.5 g sample is digested in aqua regia at 90 ° C in a microprocessor controlled digestion block for 2 hours. Digested samples are diluted and analyzed by Perkin Elmer Sciex ELAN 6000, 6100 or 9000 ICP/MS (www.actlabs.com). Detection Limits and the suite of elements for Ultratrace I are presented in Table 3.

Table 3– Detection Limits and the suite of elements for Ultratrace I

| Element | Units | Detection | Element | Units | Detection |
|---------|-------|-----------|---------|-------|-----------|
| Li | ppm | 0.1 | In | ppm | 0.02 |
| Be | ppm | 0.1 | Sn | ppm | 0.05 |
| B | ppm | 1 | Sb | ppm | 0.02 |
| Na | % | 0.001 | Te | ppm | 0.02 |
| Mg | % | 0.01 | Cs | ppm | 0.02 |
| Al | % | 0.01 | Ba | ppm | 0.5 |
| K | % | 0.01 | La | ppm | 0.5 |
| Bi | ppm | 0.02 | Ce | ppm | 0.01 |
| Ca | % | 0.01 | Pr | ppm | 0.1 |
| Sc | ppm | 0.1 | Nd | ppm | 0.02 |
| V | ppm | 1 | Sm | ppm | 0.1 |
| Cr | ppm | 0.5 | Eu | ppm | 0.1 |
| Mn | ppm | 1 | Gd | ppm | 0.1 |
| Fe | % | 0.01 | Tb | ppm | 0.1 |
| Co | ppm | 0.1 | Dy | ppm | 0.1 |
| Ni | ppm | 0.1 | Ho | ppm | 0.1 |
| Cu | ppm | 0.01 | Er | ppm | 0.1 |
| Zn | ppm | 0.1 | Tm | ppm | 0.1 |
| Ga | ppm | 0.02 | Yb | ppm | 0.1 |
| Ge | ppm | 0.1 | Lu | ppm | 0.1 |
| As | ppm | 0.1 | Hf | ppm | 0.1 |
| Se | ppm | 0.1 | Ta | ppm | 0.05 |
| Rb | ppm | 0.1 | W | ppm | 0.1 |
| Sr | ppm | 0.5 | Re | ppm | 0.001 |
| Y | ppm | 0.01 | Au | ppb | 5 |
| Zr | ppm | 0.1 | Tl | ppm | 0.02 |
| Nb | ppm | 0.1 | Pb | ppm | 0.01 |
| Mo | ppm | 0.01 | Th | ppm | 0.1 |
| Ag | ppm | 0.002 | U | ppm | 0.1 |
| Cd | ppm | 0.01 | | | |

RESULTS

Certificates of Analysis for the 3 samples are presented in Appendix II. Maps illustrating concentration ranges for select elements including Gold (Au), Silver (Ag), Copper (Cu) and Zinc (Zn) are presented in Appendix III.

None of the 3 rocks returned anomalous values of gold or silver or zinc. One sample (FD00337) returned 259 ppm of Copper, however the other 2 samples returned values lower than 15 ppm.

CONCLUSIONS & RECOMMENDATIONS

The objective of the 2012 summer mapping, prospecting and sampling program was to assess the potential for gold mineralization in other areas of the Borden Lake Property.

The results for the 3 rock assays collected would suggest that the potential for gold mineralization within the boundaries of this claim is low. However, it is recommended that a soil sampling geochemical survey be completed on the claim to further evaluate the potential.

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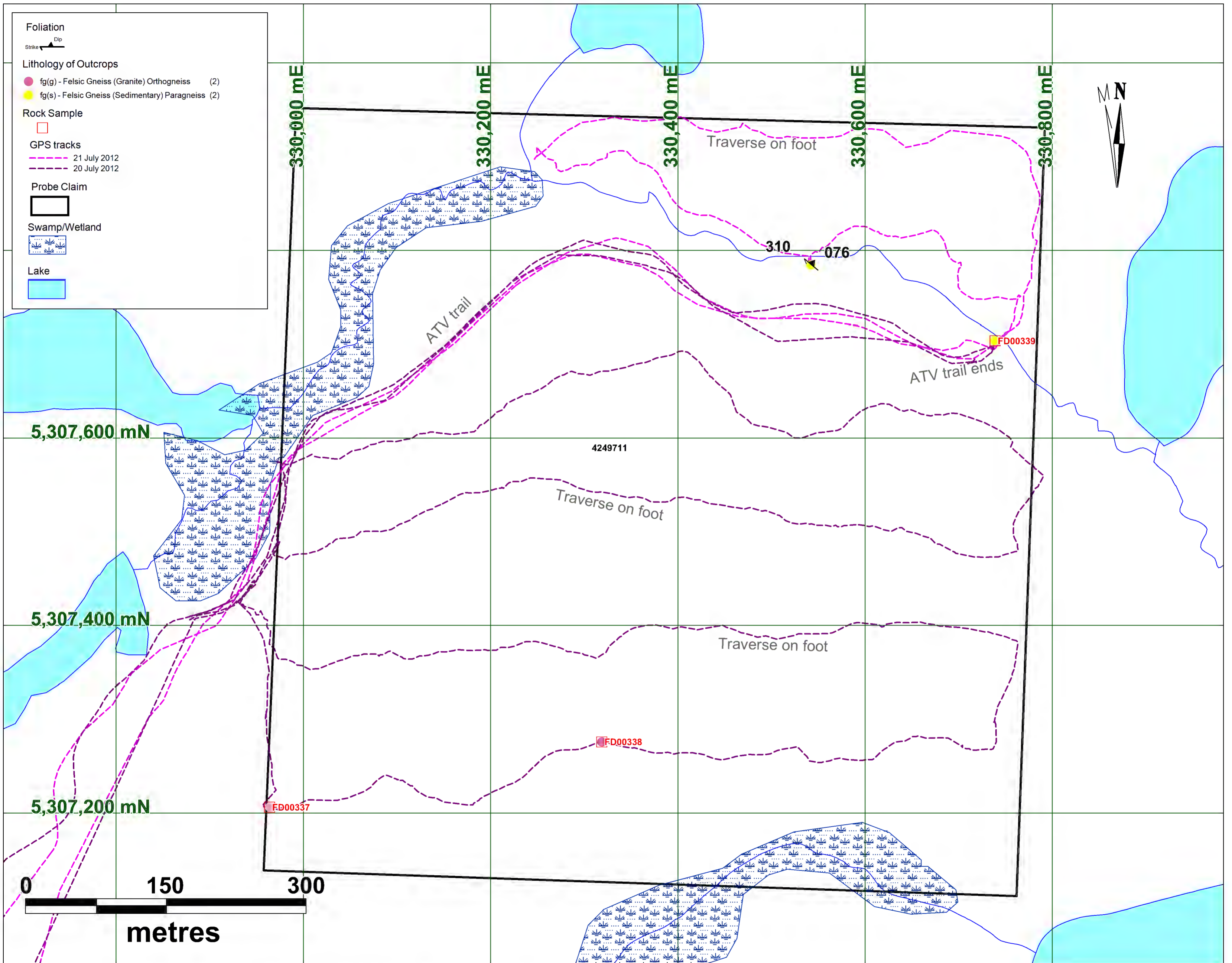
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Activation Laboratories Website

(<http://www.actlabs.com/page.aspx?menu=74&app=243&cat1=759&tp=2&lk=no>)

APPENDIX I

Large Scale Location Map
Claim 4249711
Scale 1:3000



Appendix I: Location Map of Claim 4249711 and Rock Outcrops and Samples
 Scale 1:3000

APPENDIX II
Certificate of Analyses

Quality Analysis ...



Innovative Technologies

Date Submitted: 25-Jul-12
Invoice No.: A12-07974
Invoice Date: 14-Aug-12
Your Reference: Borden Lake

Probe Mines
2 Toronto St.
Suite 306
Toronto Ontario M5C 2B6

ATTN: David Palmer-Res/Inv/Conf

CERTIFICATE OF ANALYSIS

2 Pulp samples and 38 Rock samples were submitted for analysis.

The following analytical packages were requested:

REPORT A12-07974

Code 1A2-Timmins Au - Fire Assay AA
Code UT-1-0.5g Aqua Regia ICP/MS

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Assays are recommended for values >10,000 for Cu and Au. Due to matrix change used in AR-MS analysis, the detection limits for Au has been modified to 5ppb. The AU from AR-MS is only semi-quantitative. For accurate Au data, fire assay is recommended.
If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Emmanuel Esemé".

Emmanuel Esemé, Ph.D.

Quality Control



ACTIVATION LABORATORIES LTD.

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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Activation Laboratories Ltd. Report: A12-07974 rev 1

| Analyte Symbol | Au | Li | Be | B | Na | Mg | Al | K | Bi | Ca | Sc | V | Cr | Mn | Fe | Co | Ni | Cu | Zn | Ga | Ge | As | Se | Rb |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppb | ppm | ppm | ppm | % | % | % | % | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.1 | 0.1 | 1 | 0.001 | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.1 | 0.01 | 0.1 | 0.02 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FA-AA | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-----|-----|-----|---|-------|------|------|------|------|------|-----|----|------|-----|------|-----|------|------|------|------|-------|-----|-----|------|
| FD00337 | < 5 | 6.4 | 0.5 | 2 | 0.177 | 0.60 | 0.74 | 0.22 | 0.24 | 1.12 | 5.1 | 35 | 18.1 | 654 | 2.15 | 8.3 | 15.8 | 259 | 74.9 | 4.76 | < 0.1 | 8.6 | 1.0 | 18.0 |
| FD00338 | < 5 | 8.0 | 0.2 | 1 | 0.165 | 0.45 | 0.96 | 0.43 | 0.04 | 0.45 | 1.1 | 21 | 12.1 | 164 | 1.13 | 4.8 | 8.6 | 1.54 | 26.6 | 4.37 | < 0.1 | 0.5 | 0.3 | 34.4 |
| FD00339 | < 5 | 4.2 | 0.2 | 1 | 0.139 | 0.11 | 0.49 | 0.25 | 0.02 | 0.14 | 0.6 | 9 | 3.0 | 54 | 0.60 | 2.0 | 2.3 | 11.3 | 15.3 | 2.12 | < 0.1 | 0.6 | 0.2 | 18.6 |
| Z04028 | 350 | | | | | | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A12-07974 rev 1

| Analyte Symbol | Sr | Y | Zr | Nb | Mo | Ag | Cd | In | Sn | Sb | Te | Cs | Ba | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.1 | 0.1 | 0.01 | 0.002 | 0.01 | 0.02 | 0.05 | 0.02 | 0.02 | 0.02 | 0.5 | 0.5 | 0.01 | 0.1 | 0.02 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|------|------|-----|-----|------|-------|--------|--------|------|------|--------|------|------|------|------|-----|------|-----|-----|-----|-------|-----|-------|-----|
| FD00337 | 73.7 | 26.6 | 7.4 | 0.2 | 0.49 | 0.113 | 0.09 | 0.03 | 0.42 | 8.31 | 0.03 | 1.36 | 166 | 25.5 | 59.8 | 7.4 | 29.5 | 7.1 | 2.5 | 4.8 | 0.6 | 4.4 | 0.9 | 2.0 |
| FD00338 | 57.6 | 3.42 | 1.8 | 0.3 | 0.21 | 0.043 | < 0.01 | < 0.02 | 0.49 | 0.04 | < 0.02 | 1.52 | 73.2 | 20.8 | 40.2 | 4.2 | 13.7 | 1.8 | 0.4 | 1.3 | 0.1 | 0.7 | 0.1 | 0.3 |
| FD00339 | 21.9 | 1.33 | 6.5 | 0.3 | 0.12 | 0.059 | 0.01 | < 0.02 | 0.31 | 0.05 | 0.04 | 0.40 | 87.5 | 3.3 | 7.63 | 0.7 | 2.55 | 0.5 | 0.2 | 0.3 | < 0.1 | 0.2 | < 0.1 | 0.1 |
| Z04028 | | | | | | | | | | | | | | | | | | | | | | | | |

| Analyte Symbol | Tm | Yb | Lu | Hf | Ta | W | Re | Au | Tl | Pb | Th | U |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | 0.1 | 0.001 | 5 | 0.02 | 0.01 | 0.1 | 0.1 |
| Analysis Method | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS |

| | | | | | | | | | | | | |
|---------|-------|-----|-------|-------|--------|-------|---------|-----|------|------|------|-----|
| FD00337 | 0.2 | 1.1 | 0.1 | 0.1 | < 0.05 | < 0.1 | < 0.001 | < 5 | 0.10 | 8.09 | 11.8 | 0.5 |
| FD00338 | < 0.1 | 0.3 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.001 | < 5 | 0.20 | 4.95 | 9.4 | 5.0 |
| FD00339 | < 0.1 | 0.1 | < 0.1 | 0.2 | < 0.05 | < 0.1 | < 0.001 | < 5 | 0.08 | 3.10 | 2.5 | 0.1 |
| Z04028 | | | | | | | | | | | | |

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte Symbol | Au | Li | Be | B | Na | Mg | Al | K | Bi | Ca | Sc | V | Cr | Mn | Fe | Co | Ni | Cu | Zn | Ga | Ge | As | Se | Rb |
| Unit Symbol | ppb | ppm | ppm | ppm | % | % | % | % | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.1 | 0.1 | 1 | 0.001 | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.1 | 0.01 | 0.1 | 0.02 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FA-AA | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS |
| GXR-1 Meas | | 4.5 | 0.7 | 11 | 0.042 | 0.13 | 0.32 | 0.03 | 1260 | 0.76 | 1.0 | 68 | 6.7 | 765 | 21.9 | 7.3 | 35.7 | 1050 | 701 | 3.99 | | 356 | 16.7 | 2.0 |
| GXR-1 Cert | | 8.20 | 1.22 | 15.0 | 0.0520 | 0.217 | 3.52 | 0.050 | 1380 | 0.960 | 1.58 | 80.0 | 12.0 | 852 | 23.6 | 8.20 | 41.0 | 1110 | 760 | 13.8 | | 427 | 16.6 | 14.0 |
| GXR-4 Meas | | 8.6 | 1.4 | 5 | 0.123 | 1.55 | 2.61 | 1.55 | 19.5 | 0.80 | 6.5 | 78 | 53.5 | 132 | 2.75 | 13.4 | 36.4 | 6140 | 69.1 | 10.8 | | 92.9 | 5.6 | 93.1 |
| GXR-4 Cert | | 11.1 | 1.90 | 4.50 | 0.564 | 1.66 | 7.20 | 4.01 | 19.0 | 1.01 | 7.70 | 87.0 | 64.0 | 155 | 3.09 | 14.6 | 42.0 | 6520 | 73.0 | 20.0 | | 98.0 | 5.60 | 160 |
| GXR-6 Meas | | 23.7 | 0.9 | 5 | 0.061 | 0.35 | 6.96 | 1.11 | 0.21 | 0.13 | 21.5 | 154 | 73.6 | 979 | 5.16 | 12.3 | 21.3 | 60.6 | 117 | 15.2 | | 190 | 0.7 | 64.7 |
| GXR-6 Cert | | 32.0 | 1.40 | 9.80 | 0.104 | 0.609 | 17.7 | 1.87 | 0.290 | 0.180 | 27.6 | 186 | 96.0 | 1010 | 5.58 | 13.8 | 27.0 | 66.0 | 118 | 35.0 | | 330 | 0.940 | 90.0 |
| OxD87 Meas | 424 | | | | | | | | | | | | | | | | | | | | | | | |
| OxD87 Cert | 417.000 | | | | | | | | | | | | | | | | | | | | | | | |

Method Blank < 0.1 < 0.1 < 1 < 0.001 < 0.01 < 0.01 < 0.01 < 0.02 < 0.01 < 0.1 < 1 < 0.5 < 1 < 0.01 < 0.1 < 0.1 < 0.01 < 0.1 < 0.02 < 0.1 < 0.1 < 0.1 < 0.1

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte Symbol | Sr | Y | Zr | Nb | Mo | Ag | Cd | In | Sn | Sb | Te | Cs | Ba | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.1 | 0.1 | 0.01 | 0.002 | 0.01 | 0.02 | 0.05 | 0.02 | 0.02 | 0.02 | 0.5 | 0.5 | 0.01 | 0.1 | 0.02 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS |
| GXR-1 Meas | 187 | 25.2 | 8.6 | < 0.1 | 16.4 | 30.3 | 2.24 | 0.63 | 24.3 | 87.0 | 13.2 | 2.36 | 300 | 4.8 | 10.0 | | 5.29 | 1.9 | 0.4 | 3.0 | 0.6 | 3.9 | | |
| GXR-1 Cert | 275 | 32.0 | 38.0 | 0.800 | 18.0 | 31.0 | 3.30 | 0.770 | 54.0 | 122 | 13.0 | 3.00 | 750 | 7.50 | 17.0 | | 18.0 | 2.70 | 0.690 | 4.20 | 0.830 | 4.30 | | |
| GXR-4 Meas | 71.2 | 11.9 | 9.3 | 0.2 | 294 | 3.49 | 0.14 | 0.19 | 6.14 | 2.82 | 0.75 | 2.26 | 18.0 | 46.0 | 89.4 | | 34.8 | 5.5 | 1.2 | 4.1 | 0.5 | 2.4 | | |
| GXR-4 Cert | 221 | 14.0 | 186 | 10.0 | 310 | 4.00 | 0.860 | 0.270 | 5.60 | 4.80 | 0.970 | 2.80 | 1640 | 64.5 | 102 | | 45.0 | 6.60 | 1.63 | 5.25 | 0.360 | 2.60 | | |
| GXR-6 Meas | 29.6 | 6.39 | 5.6 | < 0.1 | 0.61 | 0.221 | 0.10 | 0.06 | 0.99 | 0.67 | 0.08 | 3.27 | 856 | 10.7 | 31.4 | | 10.7 | 2.2 | 0.5 | 1.8 | 0.2 | 1.4 | | |
| GXR-6 Cert | 35.0 | 14.0 | 110 | 7.50 | 2.40 | 1.30 | 1.00 | 0.260 | 1.70 | 3.60 | 0.0180 | 4.20 | 1300 | 13.9 | 36.0 | | 13.0 | 2.67 | 0.760 | 2.97 | 0.415 | 2.80 | | |
| OxD87 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OxD87 Cert | | | | | | | | | | | | | | | | | | | | | | | | |

Method Blank < 0.5 < 0.01 < 0.1 < 0.1 < 0.01 < 0.002 < 0.01 < 0.02 < 0.05 < 0.02 < 0.02 < 0.02 < 0.5 < 0.5 < 0.01 < 0.1 < 0.02 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1

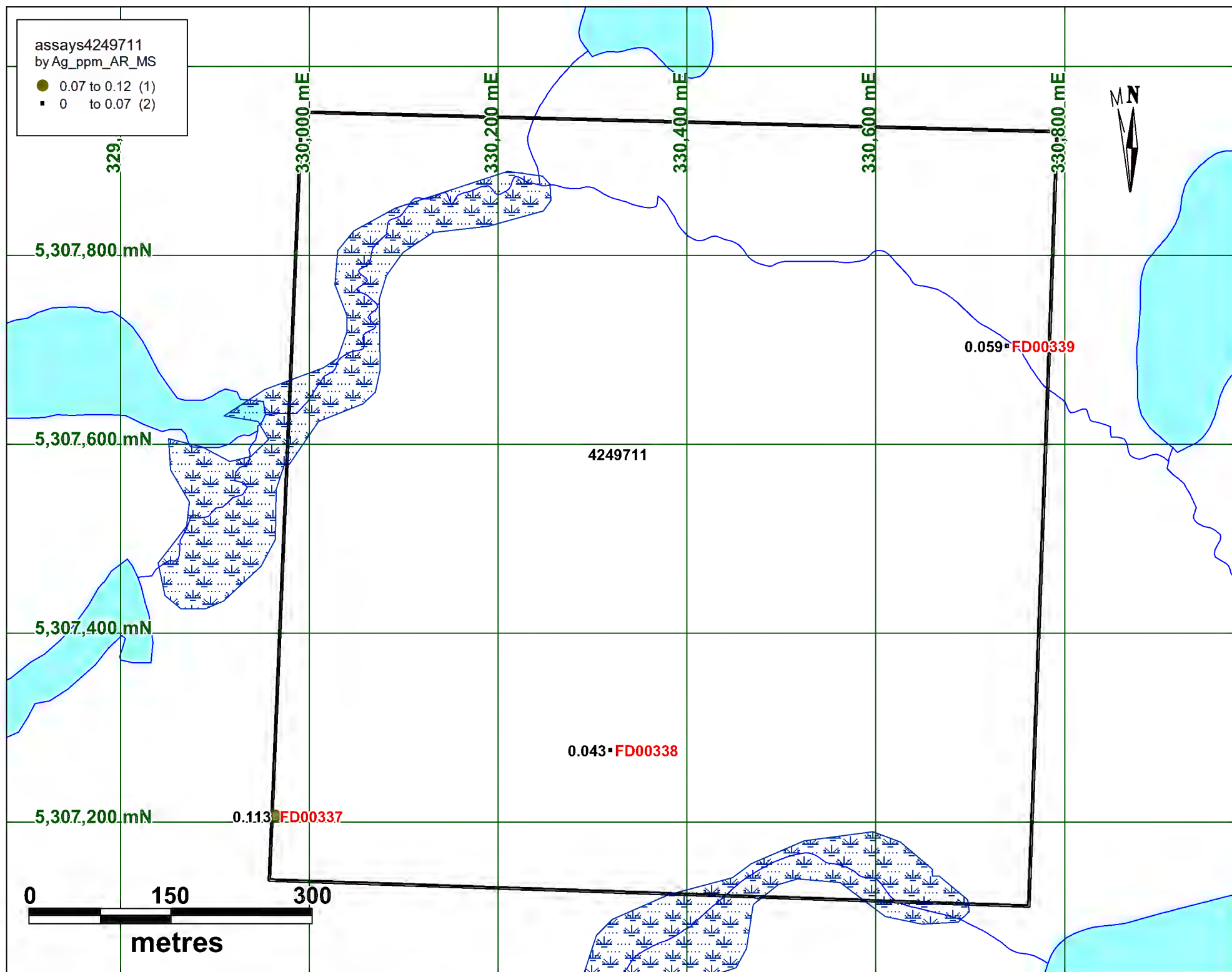
Quality Control

| Analyte Symbol | Tm | Yb | Lu | Hf | Ta | W | Re | Au | Tl | Pb | Th | U |
|-----------------|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | 0.1 | 0.001 | 5 | 0.02 | 0.01 | 0.1 | 0.1 |
| Analysis Method | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS | AR-MS |
| GXR-1 Meas | 0.3 | 1.8 | 0.2 | 0.1 | < 0.05 | 132 | | 3270 | 0.29 | 571 | 1.8 | 27.0 |
| GXR-1 Cert | 0.430 | 1.90 | 0.280 | 0.960 | 0.175 | 164 | | 3300 | 0.390 | 730 | 2.44 | 34.9 |
| GXR-4 Meas | 0.1 | 0.8 | 0.1 | 0.3 | < 0.05 | 11.5 | | | 2.76 | 43.7 | 19.8 | 4.5 |
| GXR-4 Cert | 0.210 | 1.60 | 0.170 | 6.30 | 0.790 | 30.8 | | | 3.20 | 52.0 | 22.5 | 6.20 |
| GXR-6 Meas | 0.1 | 0.8 | 0.1 | < 0.1 | < 0.05 | < 0.1 | | 49 | 1.73 | 94.3 | 3.8 | 0.8 |
| GXR-6 Cert | 0.0320 | 2.40 | 0.330 | 4.30 | 0.485 | 1.90 | | 95.0 | 2.20 | 101 | 5.30 | 1.54 |
| OxD87 Meas | | | | | | | | | | | | |
| OxD87 Cert | | | | | | | | | | | | |

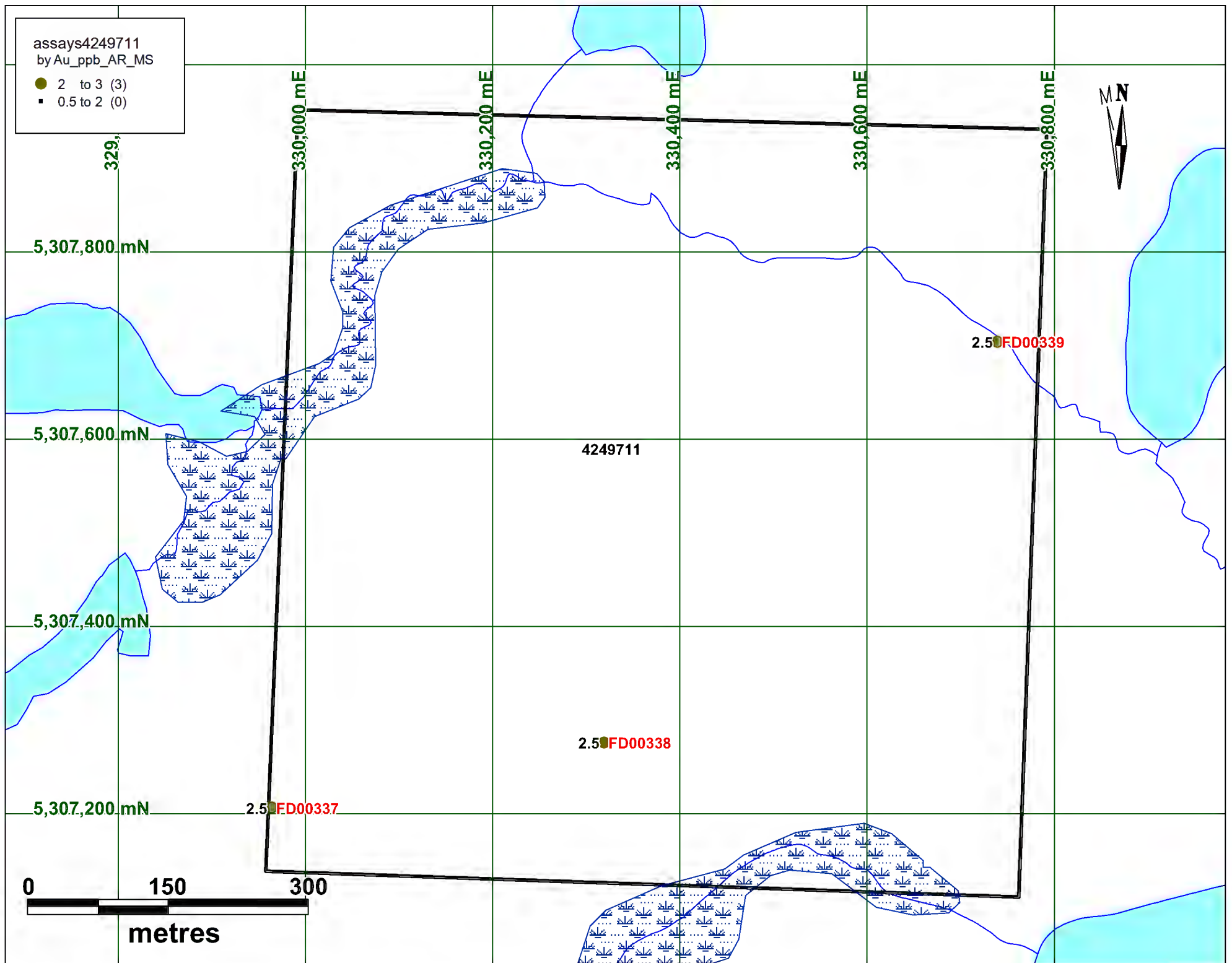
Method Blank < 0.1 < 0.1 < 0.1 < 0.1 < 0.05 < 0.1 < 0.001 < 5 < 0.02 < 0.01 < 0.1 < 0.1

APPENDIX III

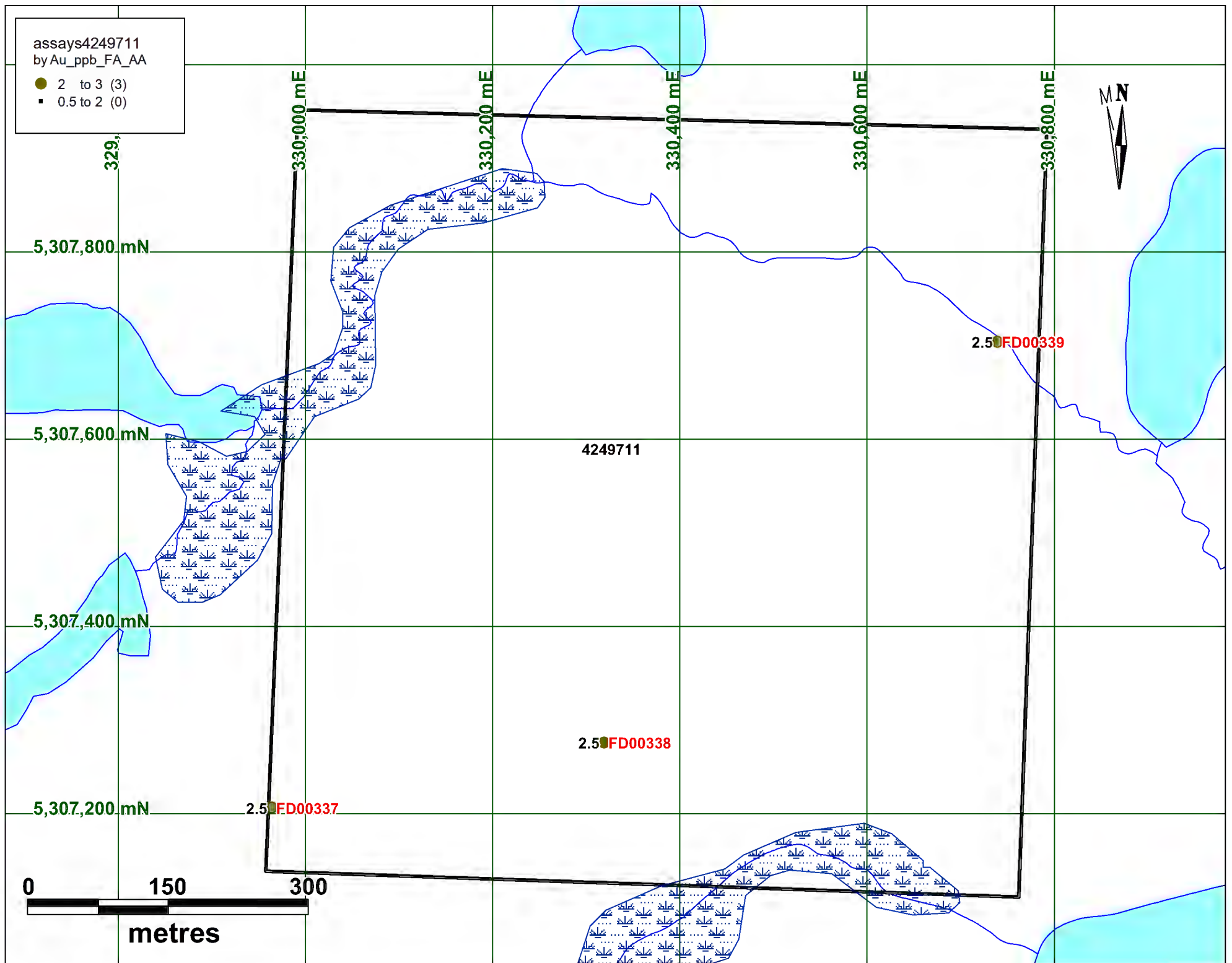
Results Maps
Ranged Concentrations FA-AA & Ar-MS
Au, Ag, Cu, Zn
Scale 1:5000



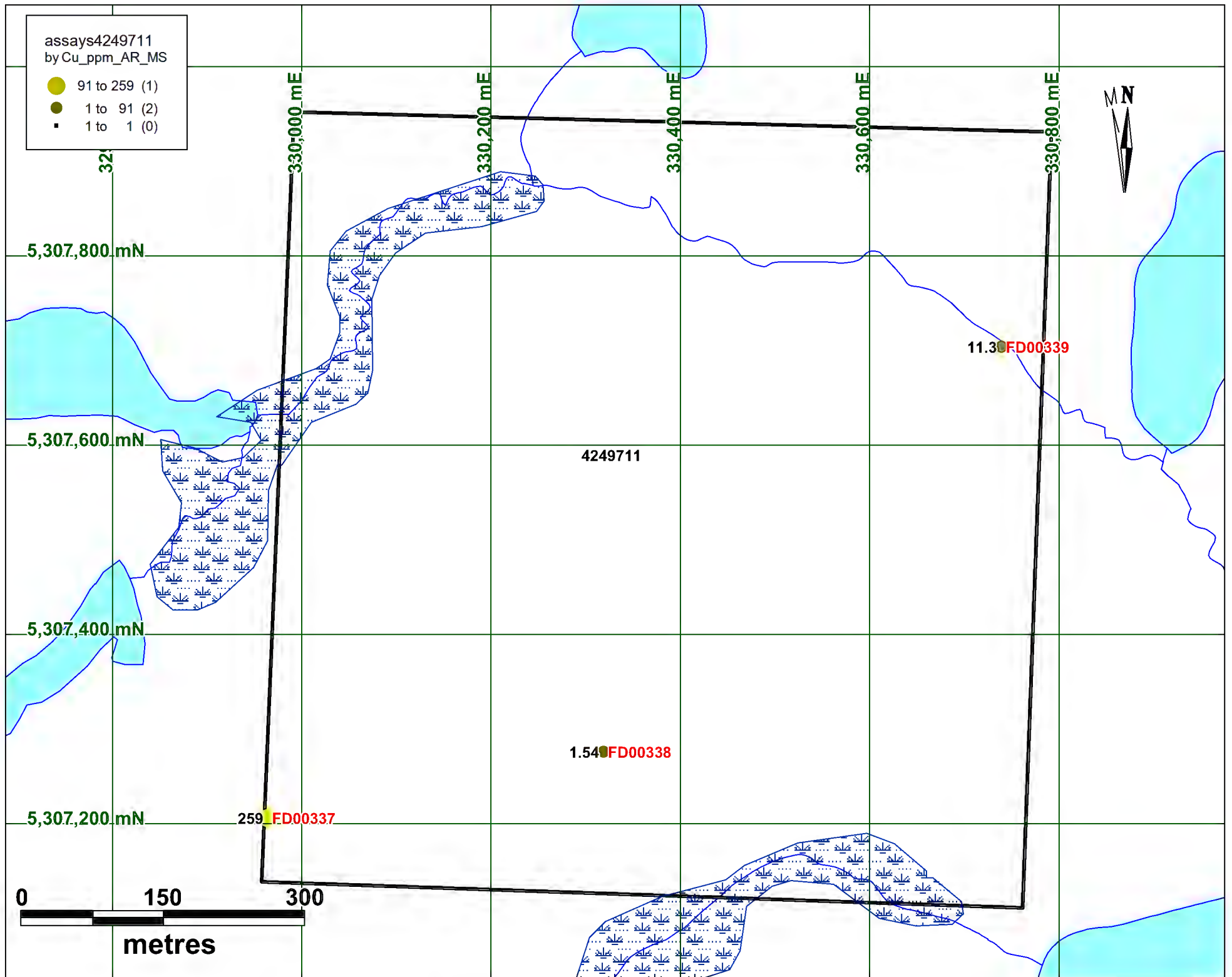
Appendix III: Rock Assays; Ag by AR-MS
Scale 1:5000



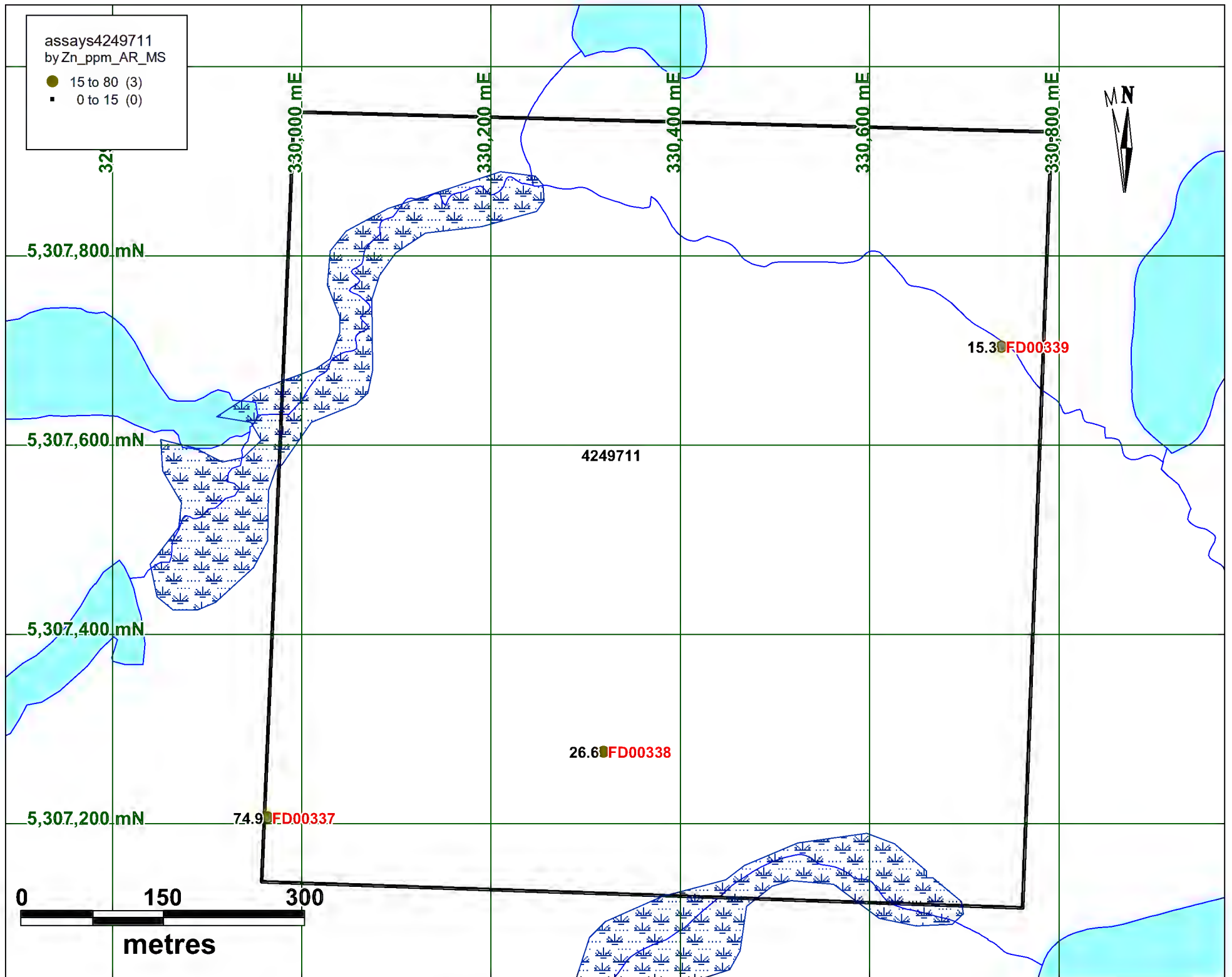
Appendix III: Rock Assays; Au by AR-MS
Scale 1:5000



Appendix III: Rock Assays; Au by FA-AA
Scale 1:5000



Appendix III: Rock Assays; Cu by AR-MS
Scale 1:5000



Appendix III: Rock Assays; Zn by AR-MS
Scale 1:5000