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**Report on the 2015 Mineral Soil and Humus  
Geochemical Program  
Sky Lake Property, Pickle Lake, Ontario**

**Patricia Mining Division**

**51° 14' N, 90° 39' W**

**NTS 52O07SE, 52O02NE, 52O02NW**

FOR

**TRI ORIGIN EXPLORATION LTD.**

125 Don Hillock Dr., Unit 18  
Aurora, Ontario  
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September 18, 2015

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# 1.0 INTRODUCTION AND PROPERTY DESCRIPTION

The Sky Lake property is located approximately 35 km southwest of the Town of Pickle Lake, Ontario, and north of Lake St. Joseph (Figure 1). The property consists of 34 claims covering approximately 80 km<sup>2</sup> (Figure 2), of which 24 claims are 100% held by Tri Origin Exploration, and the remaining claims are held by Kitrinor Metals Inc and Murchison Minerals Ltd under option to Tri Origin Exploration (Appendix A). The east-central portion of the property is covered by patented claims not held by Tri Origin Exploration. These patents were initially staked in the 1950s following the discovery of gold at surface, and the property was subsequently known as the Koval property.

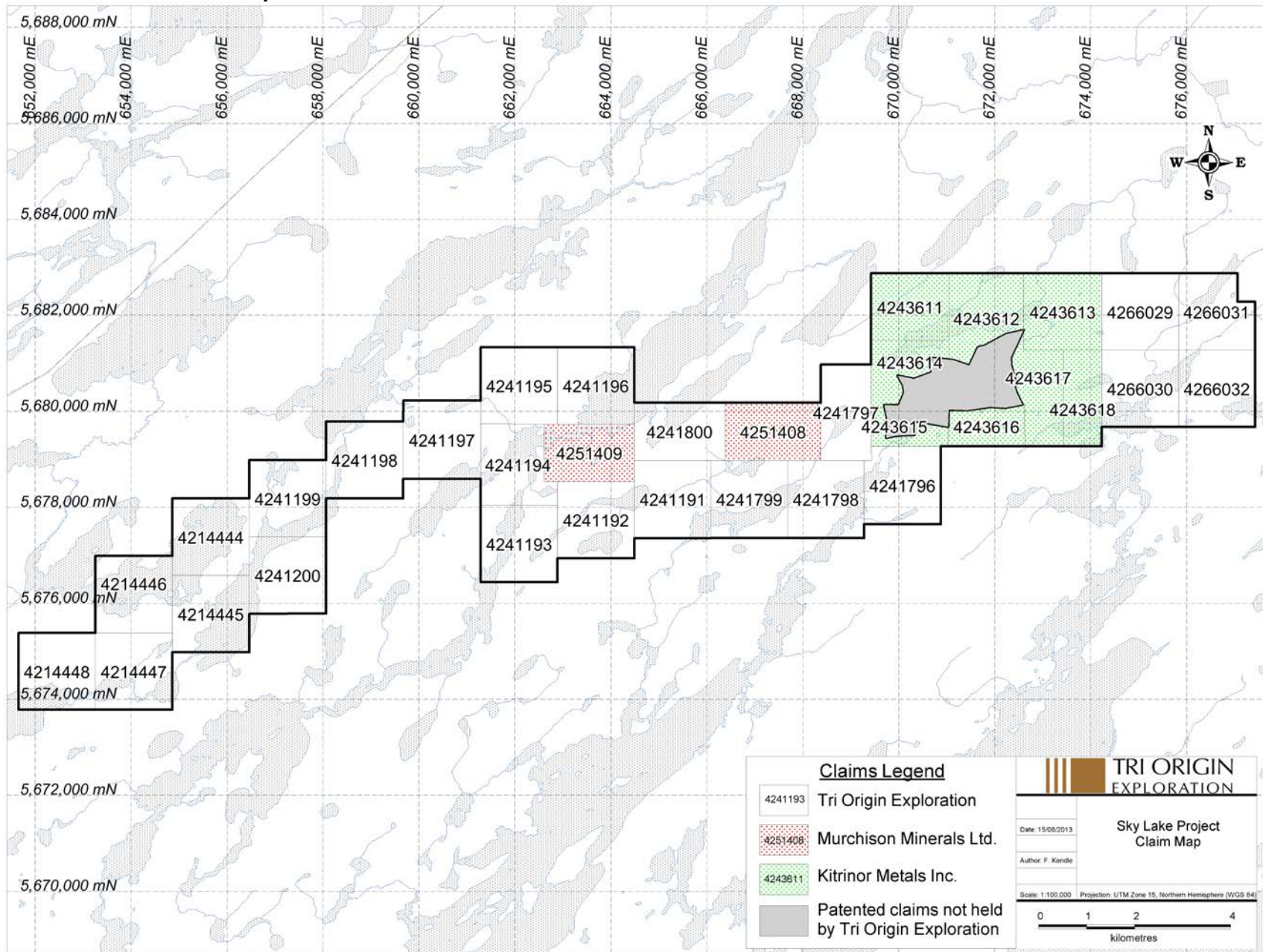
The soil and humus geochemical sampling programme by Tri Origin Exploration at the Sky Lake property commenced on May 31 and ended June 4, 2015. Sampling was conducted across 8 north-south lines (total of 5.5 line km) on claims held by Kitrinor Metals Inc. The lines were chosen to sample over areas with interpreted geophysical survey anomalies and along strike of geologic units known to host mineralization within the Koval property. Access to the property was by means of float plane chartered from Pickle Lake Outposts. Fly-in times varied from 20 to 25 minutes from the Pickle Lake Outposts float plane base in the Town of Pickle Lake.

In addition to the geochemical sampling program, geological mapping and IP surveying programs were also conducted at the same time. Reports for these programs are also available.

**FIGURE 1: Property Location**



**FIGURE 2: Mineral Tenure Map**



## 2.0 REGIONAL GEOLOGY

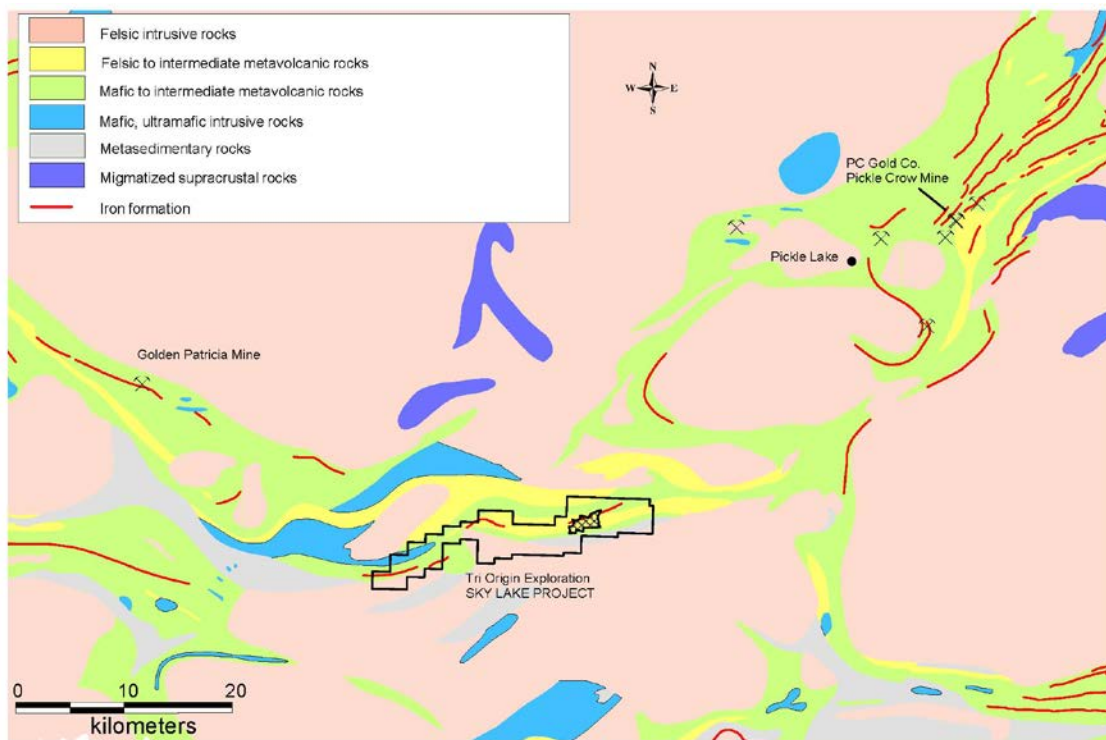
### 2.1 PHYSIOGRAPHY AND VEGETATION

Drainage of the property area is southward via Matapesatakun Creek from Bancroft Lake to Lake St. Joseph, 374 m above sea level. Maximum relief is on the order of 35 m, with the highest elevations on southwest-trending drumlins distributed across the property. Most of the area is covered either by water (lakes, ponds, and streams) and overburden, typically low-lying swamps, muskeg, and boulder tills. Mature birch forest is sporadic and mostly associated with the well-drained soil of the drumlins. Overburden is generally less than 10 m in thickness. Outcrop is generally less than 1% of the area, and more common in the northeast portion of the property, between Bancroft Lake and Matapesatakun Bay.

### 2.2 REGIONAL GEOLOGY AND ECONOMIC MINERALIZATION

The following is summarized from Jolliffe (1996). The Sky Lake property is situated within the Archean Meen-Dempster greenstone belt of the Uchi Subprovince, a part of the Superior Province (Figure 3). The area is characterized by several arcuate, highly deformed and coalescing greenstone belts, consisting of predominantly mafic to intermediate volcanic flows, which have been intruded by numerous granitic to ultramafic intrusive bodies. The metamorphic grade ranges from greenschist to amphibolite facies. The volcanics host subordinate amounts of felsic to mafic pyroclastic rocks, sedimentary rocks, and iron formation. Felsic quartz-feldspar porphyry dykes are commonly found intruding all lithologies.

**FIGURE 3: Regional Geology**



Historically, gold production in the Pickle Lake area has been from structurally-controlled vein-type deposits or sulphide replacement bodies spatially associated with, or contained within, bands of Algoman (chert-magnetite) iron formation. The most important of these were the past producing Pickle Crow and Central Patricia mines (operated from 1935 to 1966 and 1934 to 1951, respectively) which collectively produced 2,068,020 ounces of gold from 4,966,820 tons of ore for an average grade of 0.416 ounces of gold per ton. The past producing Golden Patricia Mine of Barrick Gold Corp., located about 40 km west-northwest of the Sky Lake property within the Meen-Dempster greenstone belt, also produced 619,796 ounces of gold from 1,216,165 tonnes of milled ore (Ministry of Northern Development and Mines, MDI File MDI52O06SE00005). The gold mineralization was hosted in a quartz vein at the contact between a mylonitized unit and sheared mafic volcanics in close proximity to banded iron formation.

Ultramafic intrusive rocks of the Uchi Subprovince are also known to host copper-nickel mineralization. The past producing Thierry Mine, located 30 km north-northeast of the Sky Lake property, produced 113.6 million pounds of copper, 2.8 million pounds of nickel, 17,500 ounces of platinum, 47,000 ounces of palladium, 17,000 ounces of gold, and 900,000 ounces of silver from 5.8 million tons of ore between 1976 and 1982 (Ministry of Northern Development and Mines, MDI File MDI52O08NW00003).

### **3.0 PROPERTY GEOLOGY**

The east-central portion of the property in proximity to the Koval claims is the area of most abundant outcrop. The area is underlain by a west-southwest trending, vertical to steeply south-dipping assemblage of metavolcanic and metasediments with minor intrusive rocks. The northern 1/3 is dominated by mafic volcanics, mainly massive flows with some pillowed flows and tuffs, along with minor chemical sediments (oxide facies iron formation) and felsic volcanics. A diabase intrusive in the north-central area has been roughly outlined by limited outcrop exposure and previous magnetometer survey. Feldspar porphyry dykes and sills outcrop locally and granitic intrusions have been intersected in drilling. South of the thick northern mafic volcanic unit are intermittently exposed fine clastic metasediments (mainly argillite, siltstone) and felsic volcanics. The central area is underlain by the 'Central Intermediate-Mafic Volcanic' (CIMV) assemblage comprising intermediate volcanoclastic rocks, enclosed by mafic volcanics to the north (massive flows and tuffs) and south (massive and pillowed flows with pillow breccia) as well as minor intercalated fine clastic metasediments and felsic volcanics. The intermediate volcanic hosts historical gold zones on the Koval property. In contrast, the Kitrinor claims cover gold occurrences associated with iron formation.

### **4.0 PREVIOUS WORK**

The first recorded discovery of gold in the Meen-Dempster greenstone belt was made in 1954 by prospector Ben Ohman near Bancroft Lake (Scratch, 1984) on the Koval property. The discovery of gold on the Koval property initiated a staking and exploration rush in the Meen-Dempster belt, and a number of exploration programs were conducted on, around, and along strike of the mineralization at the Koval property.

- During the 1950s and 1960s, Hasaga Gold Mines conducted early stage exploration activities, including ground geophysical surveys, diamond drilling, stripping, and geologic mapping on and around the Koval property.
- In 1969, Newconex Canadian Exploration conducted ground electromagnetic and geological surveys on their “Ed” claim block at the western end of Tri Origin’s present-day claim block. They delineated zones of auriferous pyrite.
- Union Miniere Exploration and Mining Corporation Ltd. conducted extensive airborne and ground geophysical surveys and 4465 m of diamond drilling in 1971-1972. One of these holes was collared on the Kitrinor property, but the rest of the work was done to the north and east of the claims which are the subject of the present report. There is no record of any samples having been assayed from that hole.
- During the 1970s to mid-1980s, LAC Minerals held the Koval property and conducted extensive exploration activities around the property, including airborne and ground geophysical surveys, geologic mapping, soil sampling, and diamond drilling.
- In 1983-84 Moss Resources Ltd. conducted geological mapping and magnetic, VLF-EM and IP geophysical surveys as well as rock and humus geochemistry. This was followed by a 20 hole, 1522.78 m diamond drill program.
- From July 1 – August 22, 1984 Golden Maverick Resources conducted reconnaissance geological mapping and rock and humus geochemistry. A total of 53 rock samples and 572 humus samples were collected and analyzed for Au, Ag, As, Sb, Mo, and Ba. They also carried out limited diamond drilling between 1984 and 1988.
- In September 1988 Bond Gold mapped the area they referred to as the Caley Lake claim block, to the west of the Kitrinor claims, and drilled three holes in October of that year. No assay results were reported.
- In 1996, Moss Resources drilled a total of 808.3 m in eight BQ diamond drill holes in the southwest quadrant of the Kitrinor claims.
- In 2009, Aeroquest flew a helicopter-borne AeroTEM survey for Tri Origin Exploration. This survey was followed up by geologic mapping, soil and humus geochemistry, and prospecting in the summers of 2010, 2011 and 2012. In addition, a ground IP survey was conducted in 2011, and 7 diamond drillholes were drilled in 2012 to test IP anomalies.

## **5.0 2015 EXPLORATION WORK CONDUCTED BY TRI ORIGIN EXPLORATION LTD.**

A mineral soil and humus sample survey was completed on the Sky Lake property during the summer of 2015. B-horizon mineral soil and humus samples were collected at each sample site where possible. At sample sites where humus and/or B-horizon material was not present, no material was collected.

Surveys were completed on selected areas determined by known geology and interpreted geophysical survey anomalies (induced polarization and electromagnetic surveys). Navigation was facilitated by using a combination of established stations on a cut grid; in areas where there was no established grid, GPS, compass and pace were utilized. Samples were collected at 25 m intervals



along 8 separate north-south transect lines, for a total sampling length of 5.5 line km. All sample collection points on non-established grids were marked with labelled flagging tape and a metal tag which were marked with the corresponding sample number. Sample collection points on the cut grids were taken at marked pickets.

The surveys were completed using a 1.25m long, 5cm “Eijkelkamp” Dutch hand-held soil auger. Samples were placed in Kraft sample bags, which were identified by with a sample number. UTM (NAD 83, Zone 15) co-ordinates were recorded at each sample site with a hand-held Garmin GPS Map60Csx or a Garmin GPS 520Hcx. A sample description recorded the colour, texture, moisture, environment (vegetation in the vicinity of the sample site), depth the sample was collected at and any other relevant comments at each sample site. This information was then transferred to a computer and digitized in MapInfo at the end of each day. Appendices B and C present the soil sample descriptions and humus sample descriptions. A duplicate sample was collected every twenty-fifth sample over the course of the survey. The duplicate sample was generally collected within 1 metre of the original sample.

In total, 73 mineral soil and 127 humus samples were collected over a five day period from May 31<sup>st</sup> to June 4<sup>th</sup> 2015. Sample locations are displayed graphically for soil (Figure 4) and humus (Figure 5). Sample descriptions are appended for soil (Appendix B) and humus (Appendix C).

At the end of each day, the samples were dried by hanging in a dry, secure area. Once the samples were dry they were packaged for transport. Samples were then dropped off at Activation Laboratories’ Thunder Bay facility for preparation and analysis of gold and multi-element content.

The method of analysis utilised was dependant on the sample type. Mineral soil samples were analysed using the fire assay/atomic absorption (FA-AA) and the aqua regia inductively coupled plasma mass spectrometry (AR-ICP-MS) methods. Gold content in mineral soil was analysed by both methods. Humus samples were analysed using the instrumental neutron activation analysis (INAA) and ash AR-ICP-MS method. Gold content in humus was analysed by INAA only. Certificates of Analysis from Activation Laboratories for the soil and humus samples are appended in Appendix D and E, respectively.

**FIGURE 4: Location of B-horizon mineral soil samples.**

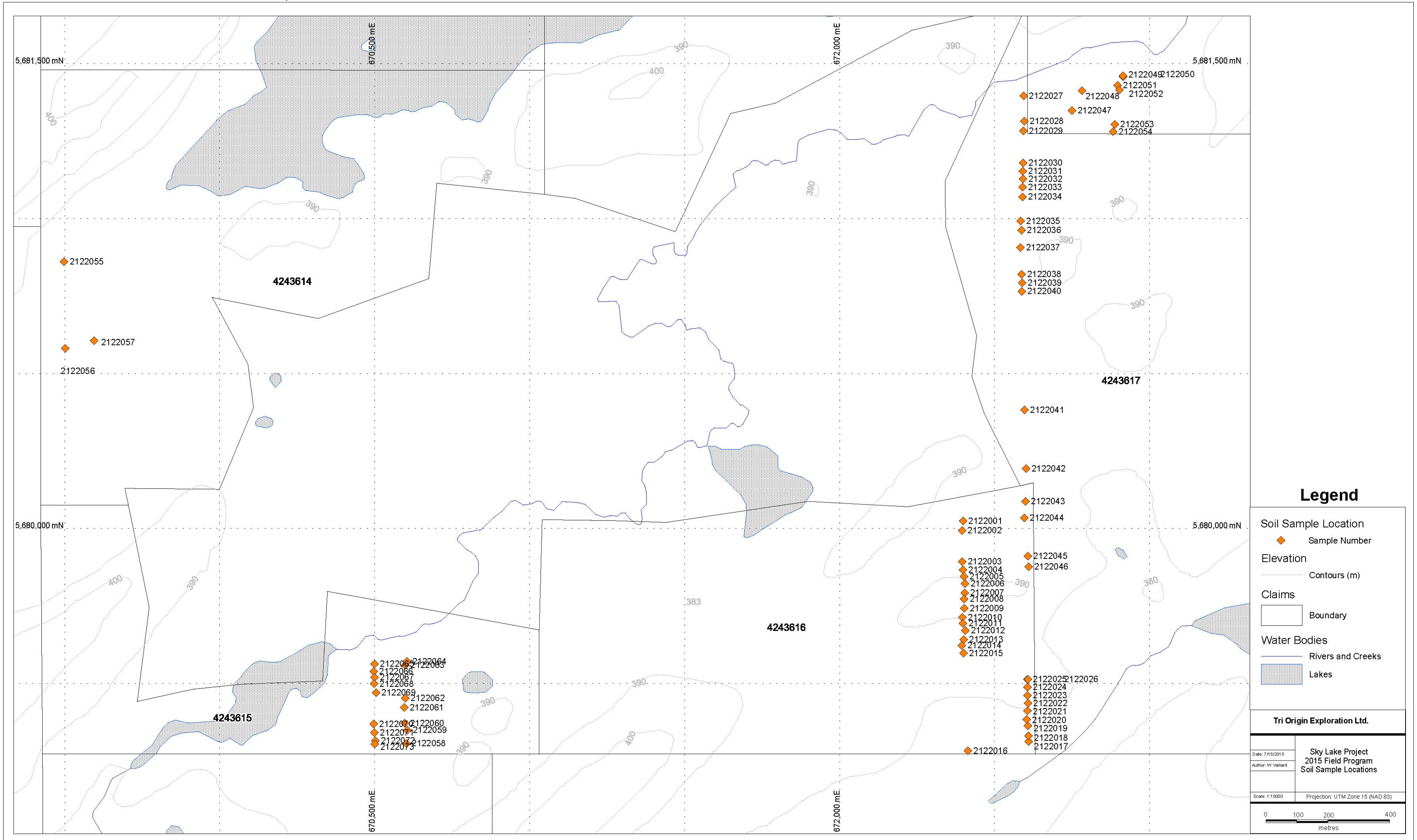
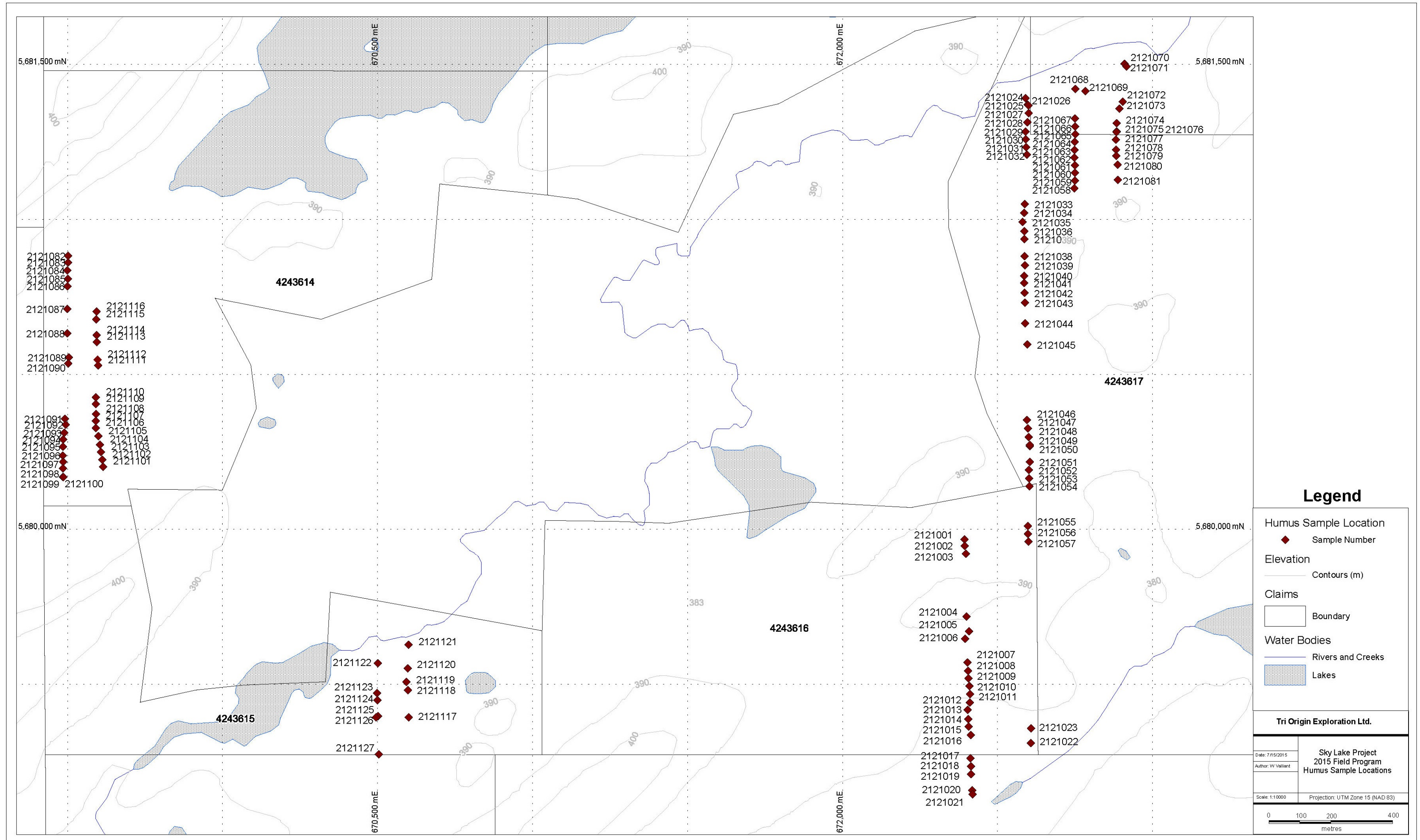


FIGURE 5: Location of humus samples.



## **6.0 GEOCHEMICAL RESULTS AND INTERPRETATION**

Assay results for the soil samples are appended (Appendix D) and gold values are shown graphically (Appendix E). A total of 73 mineral soil samples were analysed by FA-AA and AR-ICP-MS. For analysis by FA-AA, 52 samples contained gold less than detection limit (detection limit of 5 ppb); the remaining 21 samples contained gold up to a maximum of 55 ppb, with an average value of 5.0 ppb (standard deviation of 7.14). Seven samples returned values greater than 10 ppb. Analysis by FA-AA only is considered to be accurate. For analysis by AR-ICP-MS, gold values are only considered semi-quantitative and should not be considered accurate; nevertheless, gold values analysed by AR-ICP-MS ranged from less than detection limit (detection limit of 0.5 ppb; 30 samples below detection limit) to a maximum of 9.7 ppb, with an average value of 1.16 ppb (standard deviation 1.44 ppb). Only one sample returned a gold value greater than 5 ppb. Analysis for silver content was conducted by AR-ICP-MS (Appendix E). All samples returned values greater than detection limit (detection limit of 0.1 ppm), with a maximum value of 0.465 ppm, average value of 0.039 ppm, and standard deviation of 0.058 ppm.

Assay results for the humus samples are appended (Appendix F) and gold values are shown graphically (Appendix G). A total of 127 humus samples were analysed by INAA and ash AR-ICP-MS. Gold analysis was conducted only by INAA, and 122 samples contained gold less than detection limit (detection limit of 1 ppb); only 5 samples contained gold above detection, up to a maximum of 5 ppb, with an average value of 0.6 ppb (standard deviation of 0.6). Analysis for silver content was conducted by both INAA and AR-ICP-MS (Appendix G). Analysis by INAA returned no samples above detection limit. For silver analysis by AR-ICP-MS, 93 samples returned below detection limit (detection limit of 0.2 ppm); the remaining 34 samples above detection had an average value of 0.21 ppm, a standard deviation of 0.32 ppm and a maximum value of 2.90 ppm.

Several anomalous areas in gold and silver were identified by the geochemical sample survey. The northeast quadrant, on the south side of the river north of claim 4243617, shows consistently the highest soil and humus gold and silver values. This area is northeast of the Koval claims mineralization, and is largely along strike of the units hosting gold. This area also has the most abundant outcrop, and so the high gold and silver values in the soil here may simply be a function of thin soil cover and weathering of outcrop at surface. The southeast quadrant (east side of claim 4243616) also returned anomalous values for gold in soil, silver in soil, and silver in humus. No known gold zones have been drilled in this area, and so further exploration work is required. The southwest quadrant (claim 4243615) returned anomalous values for gold in soil, but no anomalies for silver in soil or humus were detected. Geologic mapping and an IP survey have been conducted in this area in the past, and neither have uncovered any gold mineralization. The gold in soil anomaly currently remains unexplained. The northwest quadrant (claim 4243614) returned anomalous gold in soil and silver in humus results. Because so few soil samples could be collected here due to a poorly developed B horizon, the gold in soil anomaly here consists of only two samples. The silver in humus anomaly is more widespread, and so this area may deserve further exploration work.

## **7.0 RECOMMENDATIONS AND CONCLUSIONS**

The soil and humus geochemical survey completed on the property indicates that this type of survey is very useful in identifying prospective target areas for future work on the property. It is recommended that this year's soil and humus geochemical results be combined with and

compared to historic soil and humus sampling surveys prior to selecting drill targets, in conjunction with the results of the 2015 geochemical and ground IP surveys.

Geochemical surveys should also be completed along strike to the southwest and northeast of the surveys that have been completed to date. Geological mapping should also be conducted in areas where outcrop was identified by the soil samplers.

## **8.0 PERSONNEL**

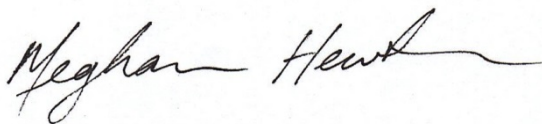
|                  |  |                      |
|------------------|--|----------------------|
| Frank Kendle     | Senior Geologist<br>Tri Origin Exploration Ltd.    | Queensville, Ontario |
| Meghan Hewton    | Geologist<br>Tri Origin Exploration Ltd.           | Goodwood, Ontario    |
| William Valliant | Contract Technician<br>Tri Origin Exploration Ltd. | Waterloo, Ontario    |

## 9.0 STATEMENT OF QUALIFICATIONS

I, Meghan Hewton, of 17 Tindall Lane, Goodwood, Ontario, L0C 1A0, do hereby certify that:

1. I am employed as a geologist by Tri Origin Exploration Ltd.
2. I graduated with a Master's of Science (Geology) from Simon Fraser University in 2012, and a Bachelor of Science (Honours Environmental Geosciences) from the University of Western Ontario in 2010.
3. I have worked as a geologist for a total of three years.
4. I am responsible for the technical report titled "Report on the 2015 Mineral Soil and Humus Geochemical Program, Sky Lake Property, Pickle Lake, Ontario".
5. My knowledge of the property as described herein was obtained by fieldwork and literature review.
6. I have no direct interest, nor do I expect to receive any interest in the mining claims that comprise the Sky Lake Property within the Matapesatakun Bay and Caley Lake areas in the Patricia Mining Division.
7. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.
8. I consent to the filing of the Technical Report with any stock exchange and other regulatory authority and any publication by them for regulatory purposes, including electronic publication in the public company files on their websites accessible by the public, of the Technical Report.

Dated this 18<sup>th</sup> day of September, 2015.

A handwritten signature in black ink that reads "Meghan Hewton". The signature is written in a cursive style with a long horizontal flourish extending to the right.

MEGHAN HEWTON

## 10.0 REFERENCES

Jolliffe, T.S. 1996. Report on Diamond Drilling, Koval Property, Patricia Mining Division, Northwestern Ontario for Moss Resources, Inc. 90pp. AFRI 52O02NE001.

Scratch, R, 1984. Report on Reconnaissance Geologic Mapping and Humus Sampling of the Golden Maverick Resources Corporation – Bancroft Lake Project currently under option to Kennco Explorations (Canada) Ltd. 87pp. AFRI 52O08SW0019.

## APPENDIX A – List of Claims and Ownership

| Claim Number | Township/Area     | Ownership                   |
|--------------|-------------------|-----------------------------|
| 4214444      | Duffell Lake      | Tri Origin Exploration Ltd. |
| 4214445      | Duffell Lake      | Tri Origin Exploration Ltd. |
| 4214446      | Duffell Lake      | Tri Origin Exploration Ltd. |
| 4214447      | Duffell Lake      | Tri Origin Exploration Ltd. |
| 4214448      | Duffell Lake      | Tri Origin Exploration Ltd. |
| 4241191      | Matapesatakun Bay | Tri Origin Exploration Ltd. |
| 4241192      | Matapesatakun Bay | Tri Origin Exploration Ltd. |
| 4241193      | Matapesatakun Bay | Tri Origin Exploration Ltd. |
| 4241194      | Matapesatakun Bay | Tri Origin Exploration Ltd. |
| 4241195      | Caley Lake        | Tri Origin Exploration Ltd. |
| 4241196      | Caley Lake        | Tri Origin Exploration Ltd. |
| 4241197      | Caley Lake        | Tri Origin Exploration Ltd. |
| 4241198      | Matapesatakun Bay | Tri Origin Exploration Ltd. |
| 4241199      | Matapesatakun Bay | Tri Origin Exploration Ltd. |
| 4241200      | Matapesatakun Bay | Tri Origin Exploration Ltd. |
| 4241796      | Matapesatakun Bay | Tri Origin Exploration Ltd. |
| 4241797      | Caley Lake        | Tri Origin Exploration Ltd. |
| 4241798      | Matapesatakun Bay | Tri Origin Exploration Ltd. |
| 4241799      | Matapesatakun Bay | Tri Origin Exploration Ltd. |
| 4241800      | Matapesatakun Bay | Tri Origin Exploration Ltd. |
| 4243611      | Caley Lake        | Kitrinor Metals Inc.        |
| 4243612      | Caley Lake        | Kitrinor Metals Inc.        |
| 4243613      | Caley Lake        | Kitrinor Metals Inc.        |
| 4243614      | Caley Lake        | Kitrinor Metals Inc.        |
| 4243615      | Matapesatakun Bay | Kitrinor Metals Inc.        |
| 4243616      | Caley Lake        | Kitrinor Metals Inc.        |
| 4243617      | Caley Lake        | Kitrinor Metals Inc.        |
| 4243618      | Matapesatakun Bay | Kitrinor Metals Inc.        |
| 4251408      | Matapesatakun Bay | Manicouagan Minerals Inc.   |
| 4251409      | Matapesatakun Bay | Manicouagan Minerals Inc.   |
| 4266029      | Little Ochig Lake | Tri Origin Exploration Ltd. |
| 4266030      | Little Ochig Lake | Tri Origin Exploration Ltd. |
| 4266031      | Little Ochig Lake | Tri Origin Exploration Ltd. |
| 4266032      | Little Ochig Lake | Tri Origin Exploration Ltd. |



## APPENDIX B – B-horizon Mineral Soil Sample Descriptions

| Sample ID | Easting (NAD83) | Northing (NAD83) | Environment                                 | Colour                | Moisture | Texture      | Depth (cm) | Easting | Northing | Date   |
|-----------|-----------------|------------------|---|-----------------------|----------|--------------|------------|---------|----------|--------|
| 2122001   | 672398          | 5680024          | swamp, thick moss, spruce                   | dark grey             | soaking  | fine         | 50         | 2400E   | 1000N    | May-31 |
| 2122002   | 672395          | 5679994          | swamp, thick moss, spruce                   | tan                   | wet      | grainy       | 75         | 2400E   | 9975N    | May-31 |
| 2122003   | 672396          | 5679893          | thick moss/lichen                           | tan                   | wet      | grainy       | 30         | 2400E   | 9875N    | May-31 |
| 2122004   | 672398          | 5679866          | uphill, rocky, spruce, moss                 | grey to golden brown  | dry      | fine         | 15         | 2400E   | 9850N    | May-31 |
| 2122005   | 672401          | 5679845          | spruce, thick moss                          | golden brown          | dry      | fine         | 20         | 2400E   | 9825N    | May-31 |
| 2122006   | 672404          | 5679822          | spruce, thick moss                          | golden brown          | dry      | fine         | 10         | 2400E   | 9800N    | May-31 |
| 2122007   | 672404          | 5679793          | spruce clearing, moss, lab. Tea             | grey + golden brown   | damp     | fine grained | 15         | 2400E   | 9775N    | May-31 |
| 2122008   | 672402          | 5679773          | base of O/C, moss, lab., spruce             | golden brown          | dry      | fine grained | 20         | 2400E   | 9750N    | May-31 |
| 2122009   | 672402          | 5679743          | base of O/C, moss, lab., spruce             | grey + brown          | dry      | coarse       | 15         | 2400E   | 9725N    | May-31 |
| 2122010   | 672396          | 5679713          | downhill slope, moss, spruce                | grey + brown          | dry      | coarse       | 25         | 2400E   | 9700N    | May-31 |
| 2122011   | 672398          | 5679694          | downhill slope, moss, spruce                | grey + brown          | moist    | fine + clay  | 30         | 2400E   | 9675N    | May-31 |
| 2122012   | 672406          | 5679671          | edge of marsh                               | grey gold             | moist    | clay         | 40         | 2400E   | 9650N    | May-31 |
| 2122013   | 672401          | 5679642          | thick spruce, moss                          | grey gold             | moist    | crumble      | 50         | 2400E   | 9625N    | May-31 |
| 2122014   | 672395          | 5679623          | uphill, moss, spruce                        | golden brown          | dry      | fine         | 30         | 2400E   | 9600N    | May-31 |
| 2122015   | 672400          | 5679598          | top of hill, moss, spruce                   | golden brown          | dry      | fine         | 20         | 2400E   | 9575N    | May-31 |
| 2122016   | 672414          | 5679283          | semi-marsh, lots boulders, moss             | golden brown          | dry      | fine         | 30         | 2400E   | 9275N    | May-31 |
| 2122017   | 672610          | 5679312          | sparse spruce, moss, lichen                 | grey + bit brown      | dry      | clay like    | 40         | 2400E   | 9300N    | May-31 |
| 2122018   | 672610          | 5679331          | sparse spruce, moss, lichen                 | grey + bit brown      | damp     | clay like    | 30         | 2400E   | 9325N    | May-31 |
| 2122019   | 672608          | 5679364          | spruce, rocky, moss, lichen                 | grey + bit brown      | damp     | clay like    | 30         | 2400E   | 9350N    | May-31 |
| 2122020   | 672603          | 5679384          | beside O/C, spruce, lichen                  | brown to golden brown | moist    | thick        | 20         | 2400E   | 9375N    | May-31 |
| 2122021   | 672606          | 5679412          | spruce, rocky, moss                         | grey                  | dry      | crumble      | 10         | 2400E   | 9400N    | May-31 |
| 2122022   | 672608          | 5679437          | downhill, spruce, rocky                     | golden brown          | dry      | fine         | 30         | 2400E   | 9425N    | May-31 |
| 2122023   | 672606          | 5679462          | downhill, spruce, rocky                     | golden brown + grey   | dry      | fine         | 20         | 2400E   | 9450N    | May-31 |
| 2122024   | 672606          | 5679488          | rocky, spruce, moss                         | grey                  | dry      | fine         | 25         | 2400E   | 9475N    | May-31 |
| 2122025   | 672606          | 5679513          | downhill, spruce, moss, lab. Tea            | golden brown          | dry      | coarse       | 20         | 2400E   | 9500N    | May-31 |
| 2122026   | 672607          | 5679513          | downhill, spruce, moss, lab. Tea, duplicate | golden brown          | dry      | coarse       | 20         | 2400E   | 9500N    | May-31 |
| 2122027   | 672594          | 5681396          | beside O/C, beside river, downhill          | dark brown            | dry      | fine grained | 20         | 2600E   | 1225N    | Jun-01 |
| 2122028   | 672596          | 5681314          | base of O/C, moss, lab., spruce             | dark grey             | damp     | clay like    | 25         | 2600E   | 1150N    | Jun-01 |

|         |        |         |  |                      |          |           |     |       |        |        |
|---------|--------|---------|--|----------------------|----------|-----------|-----|-------|--------|--------|
| 2122029 | 672593 | 5681283 | rocky, spruce, moss                        | light grey + brown   | dry      | very fine | 20  | 2600E | 1125N  | Jun-01 |
| 2122030 | 672592 | 5681179 | uphill, spruce, moss                       | golden brown         | dry      | fine      | 30  | 2600E | 1025N  | Jun-01 |
| 2122031 | 672591 | 5681153 | uphill, spruce, moss                       | golden brown + grey  | very dry | fine      | 20  | 2600E | 1000N  | Jun-01 |
| 2122032 | 672592 | 5681128 | spruce, moss, lichen                       | golden brown         | very dry | fine      | 15  | 2600E | 975N   | Jun-01 |
| 2122033 | 672590 | 5681101 | spruce, moss, lichen                       | grey + golden brown  | very dry | very fine | 20  | 2600E | 950N   | Jun-01 |
| 2122034 | 672590 | 5681070 | spruce, moss, lichen                       | golden brown + red   | moist    | fine      | 25  | 2600E | 925N   | Jun-01 |
| 2122035 | 672584 | 5680992 | swampy, spruce, moss                       | grey + golden brown  | wet      | fine      | 35  | 2600E | 850N   | Jun-01 |
| 2122036 | 672587 | 5680962 | spruce, moss, lichen                       | grey + golden brown  | damp     | fine      | 30  | 2600E | 825N   | Jun-01 |
| 2122037 | 672584 | 5680906 | spruce, moss, lichen                       | dark grey            | damp     | gritty    | 35  | 2600E |        | Jun-01 |
| 2122038 | 672587 | 5680820 | spruce, moss, lichen                       | grey + golden brown  | dry      | fine      | 40  | 2600E | 700N   | Jun-01 |
| 2122039 | 672589 | 5680793 | spruce, moss, lichen                       | grey + golden brown  | damp     | fine      | 30  | 2600E | 675N   | Jun-01 |
| 2122040 | 672588 | 5680765 | spruce, moss, lichen                       | grey + golden brown  | damp     | fine      | 35  | 2600E | 650N   | Jun-01 |
| 2122041 | 672597 | 5680383 | rocky, lichen, moss                        | dark brown/red       | damp     | clay like | 10  | 2600E | 325N   | Jun-01 |
| 2122042 | 672602 | 5680193 | spruce, lab. Tea, moss                     | dark brown           | damp     | clay like | 40  | 2600E | 150N   | Jun-01 |
| 2122043 | 672600 | 5680088 | spruce, lab. Tea, moss, beside O/C         | grey                 | damp     | clay like | 5   | 2600E | 1050N  | Jun-01 |
| 2122044 | 672596 | 5680034 | spruce, lab. Tea, moss, rocky              | grey with bit gold   | dry      | crumble   | 20  | 2600E | 1000N  | Jun-01 |
| 2122045 | 672607 | 5679911 | spruce, moss, lab. Tea                     | gold + grey          | moist    | clay like | 25  | 2600E | 9875N  | Jun-01 |
| 2122046 | 672610 | 5679877 | spruce, moss, lab. Tea                     | gold + brown         | dry      | fine      | 20  | 2600E | 9850N  | Jun-01 |
| 2122047 | 672750 | 5681348 | beside O/C, spruce, moss                   | dark red brown       | wet      | clay like | 20  | 2600E |        | Jun-02 |
| 2122048 | 672782 | 5681412 | beside O/C, spruce, swamp                  | dark brown           | wet      | clay like | 45  | 2600E |        | Jun-02 |
| 2122049 | 672914 | 5681457 | beside O/C, rocky, moss, spruce            | grey + golden brown  | dry      | fine      | 30  | 2900E | 1450N  | Jun-02 |
| 2122050 | 672914 | 5681460 | beside O/C, rocky, moss, spruce, duplicate | grey + golden brown  | dry      | fine      | 30  | 2900E | 1450N  | Jun-02 |
| 2122051 | 672897 | 5681430 | beside O/C, rocky moss, birch, spruce      | light + golden brown | soaking  | clay like | 200 | 2900E | 1425N  | Jun-02 |
| 2122052 | 672903 | 5681415 | beside O/C, rocky moss, birch, spruce      | dark grey            | moist    | clay      | 100 | 2900E | 1400N  | Jun-02 |
| 2122053 | 672888 | 5681304 | edge of O/C, rocky, swamp                  | grey + bit brown     | wet      | fine      | 40  | 2900E | 1300N  | Jun-02 |
| 2122054 | 672883 | 5681280 | rocky, swamp, spruce, moss                 | dark grey            | wet      | clay like | 80  | 2900E | 1275N  | Jun-02 |
| 2122055 | 669498 | 5680861 | thick moss, spruce                         | grey                 | damp     | grainy    | 45  | L95   | 18+75N | Jun-03 |
| 2122056 | 669501 | 5680581 | rocky, moss, spruce                        | dark brown           | damp     | fine      | 20  | L95   | 16+00N | Jun-03 |
| 2122057 | 669595 | 5680606 | noss, spruce, lab. Tea                     | grey + golden brown  | damp     | clay like | 25  | L95   | 15+00N | Jun-03 |
| 2122058 | 670602 | 5679306 | moss, spruce, O/C                          | dark grey + brown    | mosit    | clay like | 20  | L06   | 93+00N | Jun-04 |
| 2122059 | 670605 | 5679350 | beside O/C, moss, spruce                   | dark grey            | moist    | fine      | 30  | L06   | 93+50N | Jun-04 |
| 2122060 | 670596 | 5679372 | beside O/C, moss, spruce                   | dark grey            | moist    | fine      | 15  | L06   |        | Jun-04 |

|         |        |         |                                 |                     |       |           |    |     |        |        |
|---------|--------|---------|---------------------------------|---------------------|-------|-----------|----|-----|--------|--------|
| 2122061 | 670596 | 5679423 | beside O/C, moss, spruce        | dark grey + brown   | moist | fine      | 30 | L06 | 94+25N | Jun-04 |
| 2122062 | 670599 | 5679452 | ontop O/C, spruce, lichen       | golden brown        | damp  | fine      | 30 | L06 | 94+50N | Jun-04 |
| 2122063 | 670598 | 5679559 | rocky, beside O/C, spruce, moss | dark brown          | damp  | gritty    | 40 | L06 | 95+50N | Jun-04 |
| 2122064 | 670604 | 5679571 | on O/C?, rocky, spruce, moss    | grey + light brown  | dry   | fine      | 35 | L06 | 95+75N | Jun-04 |
| 2122065 | 670500 | 5679563 | on O/C, spruce, moss            | brown + grey        | moist | clay like | 40 | L05 | 95+75N | Jun-04 |
| 2122066 | 670497 | 5679539 | on O/C, spruce, moss            | golden brown        | moist | fine      | 40 | L05 | 95+50N | Jun-04 |
| 2122067 | 670500 | 5679520 | on rock?, spruce, moss          | light golden brown  | dry   | fine      | 40 | L05 | 95+25N | Jun-04 |
| 2122068 | 670498 | 5679499 | on O/C, spruce, moss            | red brown           | moist | clay like | 30 | L05 | 95+00N | Jun-04 |
| 2122069 | 670505 | 5679470 | beside O/C, beginning of bog    | grey + bit brown    | damp  | chunky    | 40 | L05 | 97+75N | Jun-04 |
| 2122070 | 670497 | 5679370 | beside O/C, spruce, moss        | golden brown        | dry   | fine      | 30 | L05 | 93+75N | Jun-04 |
| 2122071 | 670500 | 5679341 | beside O/C, spruce, beside path | grey brown          | damp  | gritty    | 20 | L05 | 93+50N | Jun-04 |
| 2122072 | 670503 | 5679315 | beside O/C, spruce, moss        | grey + golden brown | damp  | gritty    | 30 | L05 | 93+25N | Jun-04 |
| 2122073 | 670500 | 5679305 | downhill, beside bog, spruce    | grey + golden brown | dry   | fine      | 30 | L05 | 93+00N | Jun-04 |

## APPENDIX C – Humus Sample Descriptions

| Sample ID | Easting (NAD83) | Northing (NAD83) | Environment                        | Colour            | Moisture | Texture | Depth (cm) | Easting | Northing | Date   |
|-----------|-----------------|------------------|------------------------------------|-------------------|----------|---------|------------|---------|----------|--------|
| 2121001   | 672393          | 5679967          | swamp, spruce, moss, lichen        | black             | wet      |         |            | 2400E   | 9950N    | May-31 |
| 2121002   | 672394          | 5679947          | swamp, spruce, moss, lichen        | black             | soaking  | smooth  | 150        | 2400E   | 9925N    | May-31 |
| 2121003   | 672398          | 5679921          | swamp, spruce, moss, lichen        | black             | soaking  | smooth  | 150        | 2400E   | 9900N    | May-31 |
| 2121004   | 672400          | 5679718          | downhill slope, moss, spruce       | black + dark grey | damp     | chunky  | 5          | 2400E   | 9700N    | May-31 |
| 2121005   | 672408          | 5679671          | edge of marsh, moss, spruce        | black + dark grey | damp     | smooth  | 20         | 2400E   | 9650N    | May-31 |
| 2121006   | 672395          | 5679647          | thick spruce, moss                 | black             | wet      | smooth  | 170        | 2400E   | 9625N    | May-31 |
| 2121007   | 672402          | 5679571          | downhill, moss, spruce             | black             | wet      | smooth  | 170        | 2400E   | 9550N    | May-31 |
| 2121008   | 672405          | 5679543          | marsh, flat, lab. Tea, lichen      | black             | wet      | smooth  | 170        | 2400E   | 9525N    | May-31 |
| 2121009   | 672406          | 5679519          | marsh, flat, lab. Tea, lichen      | black             | wet      | smooth  | 170        | 2400E   | 9500N    | May-31 |
| 2121010   | 672409          | 5679494          | marsh, flat, lab. Tea, lichen      | black             | wet      | smooth  | 170        | 2400E   | 9475N    | May-31 |
| 2121011   | 672411          | 5679469          | marsh, flat, lab. Tea, lichen      | black             | wet      | smooth  | 170        | 2400E   | 9450N    | May-31 |
| 2121012   | 672411          | 5679441          | marsh, flat, lab. Tea, lichen      | black             | wet      | smooth  | 170        | 2400E   | 9425N    | May-31 |
| 2121013   | 672404          | 5679417          | marsh, flat, lab. Tea, lichen      | black             | wet      | smooth  | 170        | 2400E   | 9400N    | May-31 |
| 2121014   | 672405          | 5679388          | marsh, flat, lab. Tea, lichen      | black             | wet      | smooth  | 170        | 2400E   | 9375N    | May-31 |
| 2121015   | 672407          | 5679364          | marsh, flat, lab. Tea, lichen      | black             | wet      | smooth  | 170        | 2400E   | 9350N    | May-31 |
| 2121016   | 672414          | 5679336          | marsh, flat, lab. Tea, lichen      | black             | wet      | smooth  | 170        | 2400E   | 9325N    | May-31 |
| 2121017   | 672413          | 5679261          | thick spruce, moss, marsh          | black             | wet      | smooth  | 100        | 2400E   | 9250N    | May-31 |
| 2121018   | 672414          | 5679235          | thick spruce, moss, marsh          | black             | wet      | smooth  | 100        | 2400E   | 9225N    | May-31 |
| 2121019   | 672414          | 5679210          | thick spruce, moss, marsh          | black             | wet      | smooth  | 20         | 2400E   | 9200N    | May-31 |
| 2121020   | 672419          | 5679158          | swamp, spruce, moss                | black             | soaking  | smooth  | 80         | 2400E   | 9150N    | May-31 |
| 2121021   | 672419          | 5679145          | swamp, spruce, moss                | black             | soaking  | smooth  | 80         | 2400E   |          | May-31 |
| 2121022   | 672608          | 5679311          | sparse spruce, moss, lichen        | black             | moist    | smooth  | 15         |         | 9300N    | May-31 |
| 2121023   | 672608          | 5679358          | spruce, moss, rocky                | black             | damp     | chunky  | 20         |         | 9350N    | May-31 |
| 2121024   | 672590          | 5681391          | beside O/C, beside river, downhill | black             | damp     | smooth  | 15         | 2600E   | 1225N    | Jun-01 |
| 2121025   | 672597          | 5681370          | top of O/C, spruce lichen          | black             | dry      | chunky  | 5          | 2600E   | 1200N    | Jun-01 |
| 2121026   | 672600          | 5681367          | top of O/C, spruce lichen          | black             | dry      | chunky  | 5          | 2600E   | 1200N    | Jun-01 |
| 2121027   | 672600          | 5681342          | top of O/C, spruce lichen          | black             | dry      | chunky  | 5          | 2600E   | 1175N    | Jun-01 |

|         |        |         |                                 |       |         |         |     |       |       |        |
|---------|--------|---------|---------------------------------|-------|---------|---------|-----|-------|-------|--------|
| 2121028 | 672596 | 5681313 | base of O/C, spruce, moss       | black | damp    | stringy | 15  | 2600E | 1150N | Jun-01 |
| 2121029 | 672590 | 5681283 | rocky, moss, lichen             | black | damp    | stringy | 10  | 2600E | 1125N | Jun-01 |
| 2121030 | 672591 | 5681258 | swamp, alder, spruce, moss      | black | soaking | smooth  | 50  | 2600E | 1100N | Jun-01 |
| 2121031 | 672592 | 5681233 | swamp, alder, spruce, moss      | black | soaking | smooth  | 100 | 2600E | 1075N | Jun-01 |
| 2121032 | 672594 | 5681208 | swamp, birch, spruce, moss      | black | soaking | smooth  | 40  | 2600E | 1050N | Jun-01 |
| 2121033 | 672588 | 5681049 | spruce, moss, rocky             | black | moist   | smooth  | 50  | 2600E | 900N  | Jun-01 |
| 2121034 | 672586 | 5681021 | swamp, spruce, moss             | black | soaking | smooth  | 60  | 2600E | 875N  | Jun-01 |
| 2121035 | 672581 | 5680991 | swamp, spruce, moss             | black | soaking | smooth  | 30  | 2600E | 850N  | Jun-01 |
| 2121036 | 672586 | 5680961 | moss, spruce                    | black | damp    | smooth  | 20  | 2600E | 825N  | Jun-01 |
| 2121037 | 672587 | 5680936 | moss, spruce                    | black | damp    | smooth  | 50  | 2600E | 800N  | Jun-01 |
| 2121038 | 672587 | 5680881 | moss, spruce, rocky             | black | damp    | chunky  | 15  | 2600E | 750N  | Jun-01 |
| 2121039 | 672588 | 5680851 | moss, spruce, rocky             | black | damp    | smooth  | 40  | 2600E | 725N  | Jun-01 |
| 2121040 | 672585 | 5680817 | moss, spruce                    | black | moist   | chunky  | 20  | 2600E | 700N  | Jun-01 |
| 2121041 | 672586 | 5680795 | moss, spruce                    | black | moist   | chunky  | 15  | 2600E | 675N  | Jun-01 |
| 2121042 | 672587 | 5680763 | spruce, moss, lab. Tea          | black | damp    | chunky  | 20  | 2600E | 650N  | Jun-01 |
| 2121043 | 672589 | 5680731 | swamp, spruce, moss, lab.       | black | wet     | smooth  | 30  | 2600E | 625N  | Jun-01 |
| 2121044 | 672589 | 5680664 | swamp, spruce, moss, lab.       | black | wet     | smooth  | 100 | 2600E | 575N  | Jun-01 |
| 2121045 | 672596 | 5680596 | swamp, spruce, moss, lab.       | black | wet     | smooth  | 100 | 2600E | 525N  | Jun-01 |
| 2121046 | 672595 | 5680353 | beside O/C, lichen, lab. Tea    | black | damp    | smooth  | 40  | 2600E | 300N  | Jun-01 |
| 2121047 | 672598 | 5680326 | swamp, spruce, moss, lab.       | black | moist   | smooth  | 50  | 2600E | 275N  | Jun-01 |
| 2121048 | 672601 | 5680298 | spruce, lab. Tea, moss          | black | soaking | smooth  | 50  | 2600E | 250N  | Jun-01 |
| 2121049 | 672604 | 5680268 | spruce, lab. Tea, moss          | black | wet     | smooth  | 30  | 2600E | 225N  | Jun-01 |
| 2121050 | 672604 | 5680272 | spruce, lab. Tea, moss          | black | wet     | smooth  | 30  | 2600E | 225N  | Jun-01 |
| 2121051 | 672604 | 5680217 | spruce, lab. Tea, moss          | black | moist   | smooth  | 45  | 2600E | 175N  | Jun-01 |
| 2121052 | 672601 | 5680191 | spruce, lab. Tea, moss, rocky   | black | moist   | smooth  | 30  | 2600E | 150N  | Jun-01 |
| 2121053 | 672602 | 5680164 | spruce, lab. Tea, moss, rocky   | black | moist   | smooth  | 20  | 2600E | 125N  | Jun-01 |
| 2121054 | 672603 | 5680139 | spruce, lab. Tea, moss, rocky   | black | damp    | smooth  | 25  | 2600E | 100N  | Jun-01 |
| 2121055 | 672597 | 5680011 | spruce, lab. Tea, moss, rocky   | black | damp    | smooth  | 40  | 2600E | 9975N | Jun-01 |
| 2121056 | 672598 | 5679985 | swamp, lab. Tea, spruce         | black | soaking | smooth  | 30  | 2600E | 9950N | Jun-01 |
| 2121057 | 672599 | 5679960 | edge of swamp, lab. Tea, spruce | black | wet     | smooth  | 50  | 2600E | 9925N | Jun-01 |
| 2121058 | 672748 | 5681100 | swamp, spruce, alder, moss      | black | wet     | smooth  | 100 | bush  | bush  | Jun-02 |
| 2121059 | 672750 | 5681124 | swamp, spruce, alder, moss      | black | wet     | smooth  | 100 | bush  | bush  | Jun-02 |

|         |        |         |  |       |         |        |     |       |        |        |
|---------|--------|---------|--|-------|---------|--------|-----|-------|--------|--------|
| 2121060 | 672749 | 5681150 | swamp, spruce, alder, moss             | black | wet     | smooth | 150 | bush  | bush   | Jun-02 |
| 2121061 | 672749 | 5681174 | swamp, spruce, alder, moss             | black | wet     | smooth | 125 | bush  | bush   | Jun-02 |
| 2121062 | 672748 | 5681199 | thick swamp, alder, moss, spruce       | black | soaking | smooth | 100 | bush  | bush   | Jun-02 |
| 2121063 | 672748 | 5681224 | thick swamp, alder, moss, spruce       | black | soaking | smooth | 125 | bush  | bush   | Jun-02 |
| 2121064 | 672749 | 5681250 | swamp, moss, spruce                    | black | wet     | smooth | 150 | bush  | bush   | Jun-02 |
| 2121065 | 672751 | 5681275 | swamp, moss, spruce                    | black | wet     | smooth | 150 | bush  | bush   | Jun-02 |
| 2121066 | 672751 | 5681299 | swamp, moss, spruce                    | black | wet     | smooth | 150 | bush  | bush   | Jun-02 |
| 2121067 | 672750 | 5681325 | alder swamp, moss, spruce              | black | wet     | smooth | 150 | bush  | bush   | Jun-02 |
| 2121068 | 672751 | 5681420 | between O/C, gully, alder, spruce      | black | damp    | chunky | 20  | bush  | bush   | Jun-02 |
| 2121069 | 672783 | 5681413 | beside O/C, swamp, spruce              | black | wet     | smooth | 40  | bush  | bush   | Jun-02 |
| 2121070 | 672909 | 5681502 | beside O/C, beside creek, alder        | black | wet     | smooth | 100 | 2900E | 1500N  | Jun-02 |
| 2121071 | 672916 | 5681493 | beside O/C, beside creek, alder, birch | black | wet     | smooth | 45  | 2900E |        | Jun-02 |
| 2121072 | 672903 | 5681379 | beside O/C, spruce, moss               | black | moist   | smooth | 30  | 2900E | 1375N  | Jun-02 |
| 2121073 | 672893 | 5681357 | between O/C, swamp, moss, spruce       | black | soaking | smooth | 200 | 2900E | 1350N  | Jun-02 |
| 2121074 | 672884 | 5681310 | edge of O/C, swamp, moss, spruce       | black | wet     | smooth | 10  | 2900E | 1300N  | Jun-02 |
| 2121075 | 672884 | 5681284 | swamp, rocky, spruce, moss             | black | wet     | smooth | 20  | 2900E | 1275N  | Jun-02 |
| 2121076 | 672884 | 5681281 | swamp, rocky, spruce, moss             | black | wet     | smooth | 20  | 2900E | 1275N  | Jun-02 |
| 2121077 | 672882 | 5681257 | swamp, rocky, spruce, moss, alder      | black | wet     | smooth | 40  | 2900E | 1250N  | Jun-02 |
| 2121078 | 672882 | 5681224 | marsh, spruce, moss                    | black | wet     | smooth | 150 | 2900E | 1225N  | Jun-02 |
| 2121079 | 672882 | 5681205 | marsh, spruce, moss                    | black | wet     | smooth | 50  | 2900E | 1200N  | Jun-02 |
| 2121080 | 672887 | 5681176 | marsh, spruce, moss                    | black | wet     | smooth | 50  | 2900E | 1175N  | Jun-02 |
| 2121081 | 672888 | 5681127 | marsh, spruce, moss                    | black | wet     | smooth | 30  | 2900E | 1125N  | Jun-02 |
| 2121082 | 669502 | 5680882 | thick moss, spruce                     | black | damp    | smooth | 20  |       | 9100N  | Jun-03 |
| 2121083 | 669501 | 5680861 | thick moss, spruce                     | black | damp    | chunky | 30  | L95   | 18+75N | Jun-03 |
| 2121084 | 669499 | 5680835 | swamp, spruce, moss, rocky             | black | soaking | smooth | 100 | L95   | 18+50N | Jun-03 |
| 2121085 | 669501 | 5680808 | swamp, spruce, moss, rocky             | black | wet     | smooth | 50  | L95   | 18+25N | Jun-03 |
| 2121086 | 669500 | 5680784 | alder swamp, spruce, lab., moss        | black | wet     | smooth | 50  | L95   | 18+00N | Jun-03 |
| 2121087 | 669499 | 5680711 | beside O/C, swamp, spruce, moss        | black | wet     | smooth | 30  | L95   | 17+25N | Jun-03 |
| 2121088 | 669499 | 5680632 | swamp, spruce, moss                    | black | wet     | smooth | 150 | L95   | 16+50N | Jun-03 |
| 2121089 | 669504 | 5680554 | swamp, spruce, moss                    | black | wet     | chunky | 30  | L95   | 15+75N | Jun-03 |
| 2121090 | 669502 | 5680535 | swamp, spruce, moss                    | black | wet     | smooth | 50  | L95   | 15+50N | Jun-03 |
| 2121091 | 669492 | 5680356 | serious swamp, alder, spruce           | black | soaking | smooth | 30  | L95   | 13+75N | Jun-03 |

|         |        |         |                               |             |         |        |     |      |        |        |
|---------|--------|---------|-------------------------------|-------------|---------|--------|-----|------|--------|--------|
| 2121092 | 669494 | 5680337 | serious swamp, alder, spruce  | black       | soaking | smooth | 30  | L95  | 13+50N | Jun-03 |
| 2121093 | 669490 | 5680311 | serious swamp, alder, spruce  | black       | soaking | smooth | 50  | L95  | 13+25N | Jun-03 |
| 2121094 | 669486 | 5680290 | serious swamp, alder, spruce  | black       | soaking | chunky | 100 | L95  | 13+00N | Jun-03 |
| 2121095 | 669486 | 5680267 | serious swamp, alder, spruce  | black       | soaking | chunky | 100 | L95  | 12+75N | Jun-03 |
| 2121096 | 669485 | 5680238 | serious swamp, alder, spruce  | black       | soaking | chunky | 15  | L95  | 12+50N | Jun-03 |
| 2121097 | 669486 | 5680218 | swamp, alder, spruce, moss    | black       | soaking | smooth | 150 | L95  | 12+25N | Jun-03 |
| 2121098 | 669485 | 5680196 | swamp, alder, spruce, moss    | black       | soaking | smooth | 150 | L95  | 12+00N | Jun-03 |
| 2121099 | 669485 | 5680169 | swamp, alder, spruce, moss    | black       | soaking | smooth | 150 | L95  | 11+75N | Jun-03 |
| 2121100 | 669486 | 5680169 | swamp, alder, spruce, moss    | black       | soaking | smooth | 150 | L95  | 11+75N | Jun-03 |
| 2121101 | 669614 | 5680202 | swamp, alder, spruce, moss    | black       | soaking | smooth | 150 | L96  | 11+00N | Jun-03 |
| 2121102 | 669612 | 5680224 | swamp, alder, spruce, moss    | black       | soaking | smooth | 150 | L96  | 11+25N | Jun-03 |
| 2121103 | 669608 | 5680249 | swamp, alder, spruce, moss    | black       | soaking | smooth | 150 | L96  | 11+50N | Jun-03 |
| 2121104 | 669605 | 5680273 | swamp, alder, spruce, moss    | black       | soaking | smooth | 150 | L96  | 11+75N | Jun-03 |
| 2121105 | 669599 | 5680300 | swamp, alder, spruce, moss    | black       | soaking | smooth | 150 | L96  | 12+00N | Jun-03 |
| 2121106 | 669591 | 5680326 | swamp, alder, spruce, moss    | black       | soaking | smooth | 150 | L96  | 12+25N | Jun-03 |
| 2121107 | 669591 | 5680350 | swamp, alder, spruce, moss    | black       | soaking | smooth | 150 | L96  | 12+50N | Jun-03 |
| 2121108 | 669592 | 5680372 | swamp, alder, spruce, moss    | black       | soaking | smooth | 150 | L96  | 12+75N | Jun-03 |
| 2121109 | 669592 | 5680404 | swamp, alder, spruce, moss    | black       | soaking | smooth | 150 | L96  | 13+00N | Jun-03 |
| 2121110 | 669592 | 5680426 | swamp, alder, spruce, moss    | black       | soaking | smooth | 150 | L96  | 13+25N | Jun-03 |
| 2121111 | 669599 | 5680529 | swamp, alder, spruce, moss    | black       | soaking | smooth | 150 | L96  | 14+25N | Jun-03 |
| 2121112 | 669597 | 5680547 | swamp, alder, spruce, moss    | black       | soaking | smooth | 150 | L96  | 14+50N | Jun-03 |
| 2121113 | 669595 | 5680604 | moss, spruce, lab. Tea        | black       | damp    | smooth | 10  | L96  | 15+00N | Jun-03 |
| 2121114 | 669594 | 5680626 | moss, spruce, lab. Tea        | black       | moist   | smooth | 40  | L96  | 15+25N | Jun-03 |
| 2121115 | 669592 | 5680677 | moss, spruce, lab. Tea        | black/brown | damp    | chunky | 75  | L96  | 15+75N | Jun-03 |
| 2121116 | 669593 | 5680703 | moss, spruce, lab. Tea        | black       | damp    | chunky | 40  | L96  | 16+00N | Jun-03 |
| 2121117 | 670601 | 5679393 | path beside O/C, spruce       | black       | damp    | chunky | 30  | L106 | 94+00N | Jun-04 |
| 2121118 | 670598 | 5679481 | beside O/C, spruce            | black       | damp    | chunky | 30  | L106 | 94+75N | Jun-04 |
| 2121119 | 670593 | 5679507 | very rocky, moss, spruce      | black       | moist   | smooth | 10  | L106 | 95+00N | Jun-04 |
| 2121120 | 670597 | 5679551 | rocky, near O/C, moss, spruce | black       | moist   | smooth | 30  | L106 | 95+50N | Jun-04 |
| 2121121 | 670600 | 5679628 | swamp, beside creek           | black       | wet     | smooth | 40  | L106 | 96+25N | Jun-04 |
| 2121122 | 670501 | 5679568 | on O/C, spruce, moss, lichen  | black       | damp    | chunky | 20  | L05  | 95+75N | Jun-04 |
| 2121123 | 670498 | 5679472 | beside O/C, begin bog         | black       | damp    | chunky | 30  | L05  | 94+75N | Jun-04 |

|         |        |         |                                  |          |       |        |     |     |        |        |
|---------|--------|---------|----------------------------------|----------|-------|--------|-----|-----|--------|--------|
| 2121124 | 670500 | 5679448 | swamp, spruce, lab. Tea          | dark red | wet   | chunky | 150 | L05 | 94+50N | Jun-04 |
| 2121125 | 670502 | 5679397 | edge of O/C, swamp, moss, spruce | black    | moist | smooth | 40  | L05 | 94+00N | Jun-04 |
| 2121126 | 670495 | 5679394 | edge of O/C, swamp, moss, spruce | black    | moist | smooth | 40  | L05 | 94+00N | Jun-04 |
| 2121127 | 670504 | 5679274 | swamp, alder, spruce, moss       | black    | wet   | smooth | 50  | L05 | 92+75N | Jun-04 |



**APPENDIX D – Certificate of Analysis, B-horizon Mineral Soil Samples**



**Date Submitted:** 08-Jun-15  
**Invoice No.:** A15-04129 (i)  
**Invoice Date:** 22-Jun-15  
**Your Reference:** SKY LAKE

TRI Origin Exploration  
125 Don Hillock Dr.  
Aurora Ontario L4G 0H8

ATTN: Senior Geologist Frank Kendle

## CERTIFICATE OF ANALYSIS

73 Soil samples were submitted for analysis.

The following analytical package was requested:

Code 1A2-Tbay Au - Fire Assay AA (QOP Fire Assay Tbay)

REPORT **A15-04129 (i)**

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. 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". The signature is written over a horizontal line.

Emmanuel Esemé , Ph.D.  
Quality Control





**Date Submitted:** 08-Jun-15  
**Invoice No.:** A15-04129 (i)  
**Invoice Date:** 22-Jun-15  
**Your Reference:** SKY LAKE

TRI Origin Exploration  
125 Don Hillock Dr.  
Aurora Ontario L4G 0H8

ATTN: Senior Geologist Frank Kendle

## CERTIFICATE OF ANALYSIS

73 Soil samples were submitted for analysis.

The following analytical package was requested:

Code UT-1-0.5g Aqua Regia ICP/MS

REPORT **A15-04129 (i)**

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. 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



Results

| Analyte Symbol | Au    | Ti    | S     | P     | Li    | Be    | B     | Na    | Mg    | Al    | K     | Bi    | Ca    | Sc    | V     | Cr    | Mn      | Fe    | Co    | Ni    | Cu    | Zn    | Ga    |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|
| Unit Symbol    | ppb   | %     | %     | %     | ppm   | ppm   | ppm   | %     | %     | %     | %     | ppm   | %     | ppm   | ppm   | ppm   | ppm     | %     | ppm   | ppm   | ppm   | ppm   | ppm   |
| Lower Limit    | 5     | 0.001 | 1     | 0.001 | 0.1   | 0.1   | 1     | 0.001 | 0.01  | 0.01  | 0.01  | 0.02  | 0.01  | 0.1   | 1     | 1     | 1       | 0.01  | 0.1   | 0.1   | 0.01  | 0.1   | 0.02  |
| Method Code    | 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 |
| 2122001        | 13    | 0.004 | < 1   | 0.034 | 0.6   | 0.1   | 10    | 0.024 | 0.28  | 0.27  | 0.02  | 0.06  | 4.36  | 0.2   | 7     | 5     | 187     | 0.18  | 0.8   | 4.0   | 14.6  | 16.7  | 0.42  |
| 2122002        | < 5   | 0.153 | < 1   | 0.048 | 16.8  | 0.1   | 3     | 0.030 | 0.46  | 1.04  | 0.06  | 0.06  | 0.55  | 2.6   | 35    | 26    | 272     | 1.66  | 7.5   | 13.9  | 8.09  | 29.2  | 5.07  |
| 2122003        | < 5   | 0.122 | < 1   | 0.046 | 13.7  | 0.2   | 3     | 0.032 | 0.27  | 0.78  | 0.04  | 0.09  | 0.41  | 2.5   | 28    | 22    | 141     | 1.28  | 4.6   | 10.9  | 6.67  | 15.3  | 3.66  |
| 2122004        | < 5   | 0.131 | < 1   | 0.034 | 10.2  | 0.3   | 3     | 0.029 | 0.21  | 1.43  | 0.04  | 0.06  | 0.31  | 3.0   | 34    | 26    | 114     | 1.50  | 5.3   | 13.1  | 7.52  | 12.1  | 3.99  |
| 2122005        | < 5   | 0.130 | < 1   | 0.039 | 10.4  | 0.3   | 3     | 0.025 | 0.27  | 1.32  | 0.05  | 0.07  | 0.33  | 2.3   | 34    | 25    | 113     | 1.61  | 5.6   | 14.2  | 8.36  | 15.1  | 3.84  |
| 2122006        | < 5   | 0.205 | < 1   | 0.028 | 18.6  | 0.1   | 3     | 0.034 | 0.57  | 1.56  | 0.05  | 0.11  | 0.41  | 3.2   | 50    | 33    | 238     | 1.98  | 7.6   | 15.8  | 9.64  | 34.6  | 6.91  |
| 2122007        | < 5   | 0.150 | < 1   | 0.008 | 14.1  | 0.2   | 3     | 0.026 | 0.26  | 1.42  | 0.04  | 0.10  | 0.24  | 2.4   | 38    | 25    | 125     | 1.32  | 5.9   | 12.8  | 6.94  | 17.5  | 5.82  |
| 2122008        | < 5   | 0.138 | < 1   | 0.037 | 17.0  | 0.4   | 3     | 0.030 | 0.31  | 2.43  | 0.04  | 0.10  | 0.24  | 3.4   | 49    | 35    | 118     | 2.26  | 5.4   | 15.1  | 13.4  | 17.7  | 5.83  |
| 2122009        | < 5   | 0.181 | < 1   | 0.017 | 10.6  | 0.4   | 2     | 0.023 | 0.26  | 1.45  | 0.06  | 0.15  | 0.23  | 2.1   | 56    | 25    | 94      | 2.00  | 3.7   | 10.1  | 15.9  | 20.9  | 8.91  |
| 2122010        | < 5   | 0.242 | < 1   | 0.009 | 6.9   | 0.2   | 2     | 0.070 | 0.47  | 1.83  | 0.05  | 0.21  | 0.28  | 3.1   | 82    | 52    | 97      | 2.02  | 5.1   | 22.6  | 7.05  | 22.8  | 14.4  |
| 2122011        | 27    | 0.156 | < 1   | 0.022 | 13.1  | 0.2   | 3     | 0.028 | 0.41  | 1.17  | 0.05  | 0.09  | 0.30  | 2.4   | 42    | 33    | 148     | 1.62  | 6.0   | 16.5  | 11.8  | 20.4  | 5.54  |
| 2122012        | < 5   | 0.152 | < 1   | 0.019 | 11.2  | 0.3   | 2     | 0.037 | 0.35  | 1.58  | 0.06  | 0.10  | 0.27  | 2.3   | 40    | 51    | 117     | 1.40  | 5.0   | 24.2  | 16.7  | 18.8  | 7.11  |
| 2122013        | < 5   | 0.172 | < 1   | 0.043 | 21.6  | 0.3   | 3     | 0.034 | 0.64  | 2.29  | 0.11  | 0.14  | 0.29  | 3.7   | 54    | 62    | 191     | 2.25  | 10.8  | 32.7  | 24.1  | 44.2  | 7.65  |
| 2122014        | < 5   | 0.137 | < 1   | 0.041 | 13.9  | 0.2   | 4     | 0.023 | 0.23  | 1.39  | 0.05  | 0.12  | 0.20  | 2.3   | 45    | 30    | 142     | 2.00  | 5.8   | 12.0  | 6.13  | 27.3  | 5.91  |
| 2122015        | < 5   | 0.187 | < 1   | 0.025 | 10.9  | 0.2   | 2     | 0.031 | 0.27  | 1.23  | 0.07  | 0.17  | 0.24  | 2.7   | 57    | 32    | 136     | 2.00  | 6.3   | 14.7  | 11.1  | 25.2  | 7.52  |
| 2122016        | < 5   | 0.099 | < 1   | 0.052 | 5.8   | 0.1   | 3     | 0.028 | 0.21  | 0.74  | 0.05  | 0.05  | 0.31  | 2.1   | 27    | 20    | 118     | 1.14  | 3.2   | 10.2  | 9.48  | 14.0  | 3.25  |
| 2122017        | < 5   | 0.153 | < 1   | 0.039 | 23.1  | 0.3   | 5     | 0.044 | 0.73  | 1.64  | 0.10  | 0.09  | 1.11  | 4.0   | 44    | 41    | 270     | 1.94  | 8.7   | 22.8  | 18.1  | 35.7  | 6.37  |
| 2122018        | < 5   | 0.129 | < 1   | 0.036 | 12.0  | 0.2   | 2     | 0.035 | 0.37  | 1.06  | 0.05  | 0.06  | 0.41  | 2.5   | 33    | 27    | 172     | 1.36  | 5.7   | 14.4  | 7.38  | 17.7  | 4.55  |
| 2122019        | < 5   | 0.124 | < 1   | 0.008 | 3.6   | < 0.1 | 2     | 0.020 | 0.11  | 0.75  | 0.05  | 0.14  | 0.10  | 1.1   | 29    | 12    | 52      | 0.54  | 1.1   | 3.6   | 4.00  | 7.1   | 7.70  |
| 2122020        | < 5   | 0.102 | < 1   | 0.026 | 8.9   | 0.2   | 2     | 0.023 | 0.20  | 1.42  | 0.03  | 0.09  | 0.22  | 1.7   | 28    | 22    | 83      | 1.20  | 2.9   | 9.0   | 6.65  | 10.6  | 4.11  |
| 2122021        | < 5   | 0.184 | < 1   | 0.069 | 18.5  | 0.2   | 2     | 0.086 | 0.69  | 1.94  | 0.18  | 0.09  | 0.88  | 3.6   | 50    | 208   | 535     | 2.32  | 14.7  | 118   | 28.8  | 27.9  | 6.53  |
| 2122022        | < 5   | 0.116 | < 1   | 0.034 | 11.0  | 0.2   | 3     | 0.024 | 0.29  | 1.33  | 0.07  | 0.14  | 0.24  | 2.3   | 39    | 34    | 307     | 1.49  | 6.4   | 14.9  | 9.94  | 24.8  | 5.93  |
| 2122023        | < 5   | 0.188 | < 1   | 0.035 | 20.8  | 0.3   | 4     | 0.025 | 0.35  | 1.91  | 0.08  | 0.12  | 0.21  | 3.3   | 72    | 45    | 158     | 2.97  | 7.3   | 16.9  | 9.08  | 35.9  | 8.68  |
| 2122024        | 5     | 0.165 | < 1   | 0.014 | 6.6   | 0.1   | 3     | 0.022 | 0.16  | 0.92  | 0.04  | 0.15  | 0.19  | 1.7   | 40    | 20    | 71      | 1.02  | 2.0   | 6.9   | 3.74  | 14.7  | 8.84  |
| 2122025        | < 5   | 0.187 | < 1   | 0.017 | 3.7   | < 0.1 | 2     | 0.024 | 0.15  | 0.81  | 0.04  | 0.13  | 0.21  | 2.1   | 54    | 22    | 78      | 1.21  | 2.0   | 5.9   | 4.44  | 16.4  | 8.36  |
| 2122026        | < 5   | 0.208 | < 1   | 0.039 | 24.4  | 0.3   | 3     | 0.028 | 0.48  | 2.34  | 0.08  | 0.15  | 0.23  | 3.7   | 77    | 52    | 173     | 3.52  | 7.2   | 20.1  | 18.2  | 40.7  | 10.7  |
| 2122027        | < 5   | 0.159 | < 1   | 0.015 | 14.8  | 0.2   | 3     | 0.029 | 0.35  | 1.78  | 0.05  | 0.17  | 0.29  | 4.1   | 102   | 34    | 143     | 2.25  | 6.2   | 14.8  | 34.5  | 32.8  | 11.1  |
| 2122028        | < 5   | 0.105 | < 1   | 0.015 | 8.6   | 0.2   | 2     | 0.026 | 0.15  | 1.65  | 0.02  | 0.13  | 0.25  | 2.1   | 42    | 24    | 79      | 1.31  | 3.0   | 9.5   | 49.1  | 16.9  | 8.65  |
| 2122029        | 6     | 0.131 | < 1   | 0.005 | 6.1   | < 0.1 | 2     | 0.037 | 0.20  | 0.95  | 0.03  | 0.10  | 0.30  | 2.8   | 57    | 21    | 156     | 1.42  | 3.9   | 8.6   | 12.6  | 21.0  | 7.00  |
| 2122030        | < 5   | 0.125 | < 1   | 0.028 | 8.1   | 0.2   | 2     | 0.023 | 0.19  | 1.10  | 0.03  | 0.06  | 0.26  | 2.4   | 37    | 26    | 92      | 1.34  | 4.6   | 11.8  | 7.45  | 16.5  | 4.31  |
| 2122031        | < 5   | 0.127 | < 1   | 0.043 | 15.1  | 0.2   | 3     | 0.028 | 0.27  | 1.52  | 0.05  | 0.08  | 0.26  | 2.5   | 38    | 30    | 114     | 1.78  | 5.9   | 16.5  | 9.49  | 22.4  | 4.93  |
| 2122032        | < 5   | 0.107 | < 1   | 0.027 | 8.4   | 0.2   | 2     | 0.028 | 0.22  | 1.30  | 0.04  | 0.07  | 0.29  | 2.1   | 27    | 27    | 104     | 1.33  | 5.8   | 14.4  | 8.81  | 12.9  | 2.74  |
| 2122033        | < 5   | 0.122 | < 1   | 0.008 | 1.7   | < 0.1 | 1     | 0.021 | 0.06  | 0.42  | 0.03  | 0.09  | 0.12  | 1.3   | 22    | 9     | 51      | 0.42  | 0.6   | 2.7   | 1.88  | 6.1   | 5.29  |
| 2122034        | 7     | 0.132 | < 1   | 0.030 | 14.8  | 0.2   | 2     | 0.028 | 0.28  | 1.54  | 0.04  | 0.05  | 0.35  | 2.8   | 44    | 34    | 118     | 1.81  | 7.2   | 15.6  | 10.8  | 13.8  | 4.89  |
| 2122035        | < 5   | 0.116 | < 1   | 0.013 | 6.4   | 0.1   | 2     | 0.021 | 0.16  | 0.73  | 0.03  | 0.05  | 0.42  | 2.0   | 32    | 18    | 107     | 0.93  | 2.5   | 6.8   | 4.28  | 8.3   | 4.42  |
| 2122036        | < 5   | 0.104 | < 1   | 0.045 | 7.5   | 0.2   | 2     | 0.024 | 0.25  | 0.89  | 0.04  | 0.03  | 0.46  | 2.2   | 27    | 23    | 116     | 1.19  | 4.6   | 11.7  | 8.78  | 13.0  | 2.49  |
| 2122037        | 5     | 0.083 | < 1   | 0.013 | 2.5   | < 0.1 | 2     | 0.018 | 0.07  | 0.58  | 0.03  | 0.07  | 0.14  | 0.8   | 17    | 11    | 42      | 0.39  | 0.9   | 3.1   | 5.36  | 5.4   | 5.34  |
| 2122038        | < 5   | 0.102 | < 1   | 0.040 | 7.1   | 0.2   | 2     | 0.025 | 0.25  | 0.66  | 0.04  | 0.03  | 0.57  | 2.1   | 25    | 21    | 115     | 0.99  | 3.2   | 8.4   | 5.48  | 11.8  | 3.17  |
| 2122039        | < 5   | 0.117 | < 1   | 0.032 | 11.8  | 0.2   | 2     | 0.027 | 0.31  | 0.86  | 0.04  | 0.05  | 0.78  | 2.2   | 29    | 23    | 150     | 1.21  | 4.3   | 10.7  | 7.48  | 18.8  | 3.94  |
| 2122040        | < 5   | 0.107 | < 1   | 0.032 | 9.3   | 0.2   | 2     | 0.027 | 0.27  | 0.73  | 0.04  | 0.03  | 0.62  | 2.1   | 26    | 22    | 120     | 1.10  | 4.0   | 10.6  | 9.00  | 14.7  | 3.36  |
| 2122041        | 8     | 0.246 | < 1   | 0.029 | 25.6  | 0.2   | 2     | 0.024 | 0.44  | 2.19  | 0.06  | 0.25  | 0.11  | 5.9   | 151   | 104   | 152     | 4.84  | 8.2   | 31.4  | 40.1  | 47.8  | 16.5  |
| 2122042        | < 5   | 0.270 | < 1   | 0.053 | 38.4  | 0.3   | < 1   | 0.247 | 1.59  | 3.21  | 0.15  | 0.19  | 1.37  | 12.3  | 121   | 171   | 455     | 3.85  | 16.8  | 45.8  | 15.3  | 58.9  | 12.1  |
| 2122043        | < 5   | 0.185 | < 1   | 0.007 | 2.7   | < 0.1 | < 1   | 0.021 | 0.27  | 0.39  | 0.05  | 0.17  | 0.16  | 0.8   | 29    | 69    | 30      | 0.39  | 2.2   | 25.8  | 1.74  | 8.0   | 6.41  |
| 2122044        | < 5   | 0.162 | < 1   | 0.007 | 3.9   | < 0.1 | < 1   | 0.021 | 0.36  | 0.53  | 0.07  | 0.07  | 0.16  | 1.0   | 23    | 79    | 41      | 0.48  | 3.1   | 31.2  | 2.43  | 10.9  | 6.05  |
| 2122045        | 14    | 0.101 | < 1   | 0.020 | 7.1   | 0.2   | 2     | 0.022 | 0.17  | 0.75  | 0.03  | 0.04  | 0.24  | 1.7   | 24    | 16    | 71      | 0.87  | 2.5   | 6.7   | 3.82  | 8.8   | 3.70  |
| 2122046        | 7     | 0.192 | < 1   | 0.019 | 17.9  | 0.2   | 3     | 0.023 | 0.45  | 1.59  | 0.05  | 0.08  | 0.29  | 3.1   | 58    | 44    | 157     | 2.43  | 7.5   | 19.5  | 7.96  | 20.7  | 6.66  |
| 2122047        | 8     | 0.182 | < 1   | 0.016 | 45.1  | 0.3   | 2     | 0.040 | 0.64  | 2.36  | 0.04  | 0.12  | 0.36  | 4.5   | 92    | 154   | 167     | 3.49  | 16.7  | 60.4  | 62.1  | 56.9  | 8.90  |
| 2122048        | 55    | 0.015 | < 1   | 0.064 | 3.7   | 0.2   | 6     | 0.022 | 0.10  | 1.33  | 0.03  | 0.08  | 2.74  | 4.4   | 61    | 38    | > 10000 | 15.3  | 46.2  | 68.4  | 140   | 71.9  | 2.90  |
| 2122049        | < 5   | 0.125 | < 1   | 0.014 | 7.6   | 0.1   | 2     | 0.023 | 0.22  | 0.84  | 0.03  | 0.07  | 0.23  | 2.0   | 37    | 23    | 119     | 1.46  | 3.6   | 10.1  | 13.2  | 13.7  | 4.95  |

| Analyte Symbol | Au    | Ti    | S     | P     | Li    | Be    | B     | Na    | Mg    | Al    | K     | Bi    | Ca    | Sc    | V     | Cr    | Mn    | Fe    | Co    | Ni    | Cu    | Zn    | Ga    |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol    | ppb   | %     | %     | %     | ppm   | ppm   | ppm   | %     | %     | %     | %     | ppm   | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   | ppm   | ppm   |
| Lower Limit    | 5     | 0.001 | 1     | 0.001 | 0.1   | 0.1   | 1     | 0.001 | 0.01  | 0.01  | 0.01  | 0.02  | 0.01  | ppm   | 1     | 1     | 1     | 0.01  | 0.1   | 0.1   | 0.01  | 0.1   | 0.02  |
| Method Code    | 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 |
| 2122050        | < 5   | 0.111 | < 1   | 0.019 | 7.3   | 0.1   | 2     | 0.025 | 0.21  | 0.92  | 0.02  | 0.05  | 0.24  | 2.1   | 31    | 25    | 96    | 1.36  | 3.8   | 11.0  | 16.3  | 11.0  | 4.11  |
| 2122051        | 12    | 0.094 | < 1   | 0.015 | 12.6  | 0.3   | 2     | 0.040 | 0.25  | 1.42  | 0.03  | 0.09  | 0.51  | 3.9   | 66    | 35    | 331   | 3.56  | 10.4  | 13.9  | 49.4  | 20.3  | 7.36  |
| 2122052        | < 5   | 0.107 | < 1   | 0.010 | 10.1  | 0.1   | 2     | 0.049 | 0.31  | 1.54  | 0.03  | 0.12  | 0.39  | 4.1   | 100   | 49    | 200   | 2.89  | 6.1   | 17.1  | 52.9  | 31.8  | 11.0  |
| 2122053        | 5     | 0.164 | < 1   | 0.019 | 9.2   | 0.1   | 2     | 0.024 | 0.35  | 0.99  | 0.06  | 0.11  | 0.26  | 2.8   | 41    | 72    | 154   | 1.09  | 5.8   | 19.6  | 19.0  | 16.4  | 5.53  |
| 2122054        | 7     | 0.137 | < 1   | 0.019 | 19.2  | 0.3   | 2     | 0.064 | 0.52  | 1.49  | 0.07  | 0.12  | 0.54  | 2.6   | 42    | 47    | 124   | 1.64  | 8.4   | 26.4  | 21.9  | 22.5  | 6.36  |
| 2122055        | < 5   | 0.118 | < 1   | 0.026 | 10.0  | 0.2   | 2     | 0.027 | 0.33  | 1.05  | 0.05  | 0.05  | 0.44  | 2.0   | 30    | 35    | 150   | 1.24  | 6.0   | 18.4  | 24.4  | 16.8  | 4.37  |
| 2122056        | 11    | 0.225 | < 1   | 0.018 | 13.5  | 0.2   | 3     | 0.022 | 0.42  | 1.45  | 0.12  | 0.17  | 0.09  | 2.8   | 83    | 63    | 93    | 3.59  | 6.3   | 19.9  | 333   | 25.5  | 12.9  |
| 2122057        | 14    | 0.242 | < 1   | 0.012 | 10.8  | < 0.1 | < 1   | 0.032 | 0.97  | 1.44  | 0.45  | 0.09  | 0.13  | 2.3   | 64    | 122   | 184   | 2.19  | 11.4  | 36.4  | 43.1  | 75.9  | 11.8  |
| 2122058        | < 5   | 0.162 | < 1   | 0.015 | 24.3  | 0.3   | 2     | 0.040 | 0.47  | 2.01  | 0.04  | 0.13  | 0.31  | 3.0   | 57    | 45    | 199   | 2.90  | 11.1  | 35.0  | 51.4  | 26.9  | 8.13  |
| 2122059        | 7     | 0.135 | < 1   | 0.013 | 7.3   | 0.1   | 1     | 0.029 | 0.21  | 1.26  | 0.03  | 0.09  | 0.20  | 2.5   | 39    | 30    | 99    | 1.03  | 3.5   | 11.9  | 28.5  | 14.3  | 9.62  |
| 2122060        | < 5   | 0.243 | < 1   | 0.011 | 15.5  | 0.1   | 1     | 0.053 | 0.62  | 1.45  | 0.04  | 0.11  | 0.37  | 3.5   | 77    | 47    | 163   | 2.51  | 7.0   | 28.0  | 16.3  | 22.5  | 10.1  |
| 2122061        | < 5   | 0.075 | < 1   | 0.013 | 2.8   | < 0.1 | 1     | 0.022 | 0.14  | 0.62  | 0.05  | 0.21  | 0.08  | 0.9   | 16    | 15    | 72    | 0.50  | 1.1   | 4.8   | 11.4  | 11.6  | 5.03  |
| 2122062        | < 5   | 0.107 | < 1   | 0.023 | 13.7  | 0.2   | 2     | 0.020 | 0.17  | 2.29  | 0.04  | 0.40  | 0.11  | 2.8   | 120   | 39    | 82    | 3.69  | 2.9   | 9.4   | 23.1  | 27.4  | 18.3  |
| 2122063        | 7     | 0.117 | < 1   | 0.026 | 9.4   | 0.2   | 2     | 0.030 | 0.34  | 1.14  | 0.05  | 0.10  | 0.23  | 2.2   | 39    | 33    | 117   | 1.48  | 5.0   | 15.4  | 20.5  | 18.3  | 6.41  |
| 2122064        | < 5   | 0.190 | < 1   | 0.016 | 26.9  | 0.4   | 2     | 0.031 | 0.36  | 2.66  | 0.04  | 0.16  | 0.12  | 4.4   | 84    | 59    | 93    | 2.83  | 8.1   | 16.4  | 22.1  | 32.3  | 11.6  |
| 2122065        | < 5   | 0.136 | < 1   | 0.005 | 5.9   | < 0.1 | < 1   | 0.026 | 0.34  | 0.94  | 0.02  | 0.15  | 0.10  | 1.6   | 41    | 25    | 79    | 1.07  | 2.8   | 7.2   | 15.5  | 9.5   | 7.36  |
| 2122066        | 5     | 0.224 | < 1   | 0.035 | 41.9  | 0.5   | 2     | 0.035 | 0.91  | 3.44  | 0.15  | 0.31  | 0.22  | 6.8   | 102   | 109   | 206   | 3.75  | 25.5  | 44.3  | 43.9  | 60.8  | 10.7  |
| 2122067        | 6     | 0.194 | < 1   | 0.034 | 30.1  | 0.3   | 1     | 0.036 | 0.80  | 2.52  | 0.15  | 0.22  | 0.18  | 7.5   | 100   | 67    | 194   | 3.18  | 12.1  | 19.7  | 40.3  | 40.9  | 9.71  |
| 2122068        | 8     | 0.075 | < 1   | 0.029 | 18.2  | 0.3   | 1     | 0.019 | 0.25  | 2.40  | 0.04  | 0.39  | 0.07  | 3.2   | 76    | 46    | 137   | 4.70  | 3.8   | 14.0  | 34.0  | 38.7  | 13.2  |
| 2122069        | < 5   | 0.194 | < 1   | 0.008 | 13.2  | 0.2   | 2     | 0.036 | 0.51  | 1.29  | 0.05  | 0.10  | 0.29  | 2.8   | 46    | 27    | 146   | 1.57  | 5.8   | 14.1  | 17.2  | 21.3  | 6.87  |
| 2122070        | < 5   | 0.157 | < 1   | 0.015 | 21.2  | 0.2   | 2     | 0.045 | 0.72  | 2.42  | 0.07  | 0.26  | 0.32  | 3.8   | 82    | 57    | 489   | 6.19  | 11.3  | 40.0  | 63.1  | 30.9  | 9.97  |
| 2122071        | < 5   | 0.632 | < 1   | 0.017 | 10.2  | 0.2   | 2     | 0.034 | 0.55  | 1.51  | 0.15  | 0.23  | 0.37  | 2.6   | 70    | 26    | 170   | 2.07  | 7.8   | 18.5  | 27.5  | 34.4  | 13.2  |
| 2122072        | < 5   | 0.220 | < 1   | 0.011 | 35.3  | 0.4   | 2     | 0.109 | 0.79  | 3.46  | 0.06  | 0.11  | 0.54  | 4.6   | 89    | 86    | 178   | 3.22  | 41.1  | 116   | 105   | 46.2  | 11.9  |
| 2122073        | < 5   | 0.150 | < 1   | 0.011 | 2.9   | < 0.1 | 1     | 0.025 | 0.17  | 0.77  | 0.03  | 0.13  | 0.20  | 2.4   | 53    | 23    | 105   | 1.37  | 3.0   | 10.6  | 17.5  | 13.4  | 6.21  |

## Results

| Analyte Symbol | Ge    | As    | Rb    | Sr    | Y     | Zr    | Nb    | Mo    | Ag    | In     | Sn    | Sb     | Te     | Cs    | Ba    | La    | Ce    | Cd     | Pr    | Nd    | Sm    | Se    | Eu    |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 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   |
| Lower Limit    | 0.1   | 0.1   | 0.1   | 0.5   | 0.01  | 0.1   | 0.1   | 0.01  | 0.002 | 0.02   | 0.05  | 0.02   | 0.02   | 0.02  | 0.5   | 0.5   | 0.01  | 0.01   | 0.1   | 0.02  | 0.1   | 0.1   | 0.1   |
| Method Code    | 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 |
| 2122001        | < 0.1 | 18.7  | 1.6   | 42.5  | 1.88  | 5.1   | 0.2   | 0.60  | 0.465 | < 0.02 | 0.15  | 0.13   | < 0.02 | 0.16  | 98.8  | 5.7   | 7.98  | 0.25   | 1.2   | 4.51  | 0.7   | 0.7   | 0.1   |
| 2122002        | 0.2   | 4.9   | 9.1   | 22.2  | 4.97  | 3.0   | 1.9   | 0.54  | 0.126 | < 0.02 | 0.50  | 0.06   | < 0.02 | 1.05  | 44.4  | 12.5  | 27.3  | 0.05   | 3.1   | 11.6  | 2.2   | 0.6   | 0.4   |
| 2122003        | 0.2   | 8.3   | 4.7   | 19.1  | 5.05  | 2.9   | 2.1   | 0.28  | 0.062 | < 0.02 | 0.39  | 0.12   | < 0.02 | 0.67  | 29.0  | 12.0  | 26.0  | 0.07   | 3.0   | 11.3  | 2.1   | 0.5   | 0.4   |
| 2122004        | 0.2   | 3.1   | 5.5   | 16.8  | 4.49  | 5.5   | 2.3   | 0.35  | 0.032 | < 0.02 | 0.39  | 0.12   | < 0.02 | 0.95  | 31.2  | 11.5  | 44.2  | 0.03   | 2.8   | 11.4  | 2.0   | 0.8   | 0.4   |
| 2122005        | 0.1   | 2.5   | 5.2   | 17.5  | 4.47  | 5.3   | 2.3   | 0.34  | 0.014 | < 0.02 | 0.48  | 0.09   | < 0.02 | 1.16  | 32.0  | 12.6  | 26.4  | 0.03   | 3.0   | 11.3  | 1.9   | 0.3   | 0.4   |
| 2122006        | 0.1   | 2.3   | 5.5   | 22.5  | 3.88  | 5.0   | 2.5   | 0.35  | 0.014 | < 0.02 | 0.56  | 0.07   | < 0.02 | 2.17  | 35.1  | 9.3   | 19.8  | 0.04   | 2.2   | 8.09  | 1.4   | 0.4   | 0.3   |
| 2122007        | 0.1   | 2.0   | 5.5   | 16.8  | 3.33  | 4.8   | 2.4   | 0.39  | 0.022 | < 0.02 | 0.51  | 0.10   | < 0.02 | 2.24  | 41.7  | 10.2  | 20.9  | 0.01   | 2.3   | 8.41  | 1.4   | 0.4   | 0.3   |
| 2122008        | 0.2   | 13.7  | 3.5   | 15.1  | 4.66  | 6.3   | 2.8   | 0.93  | 0.082 | 0.02   | 0.53  | 0.05   | < 0.02 | 1.56  | 26.8  | 17.1  | 32.5  | 0.08   | 3.7   | 13.3  | 2.3   | 1.2   | 0.4   |
| 2122009        | 0.1   | 7.6   | 5.8   | 22.2  | 2.82  | 3.2   | 2.8   | 0.78  | 0.037 | < 0.02 | 0.79  | 0.07   | 0.03   | 1.83  | 58.8  | 10.7  | 20.6  | 0.12   | 2.2   | 7.93  | 1.4   | 0.6   | 0.3   |
| 2122010        | 0.1   | 14.4  | 5.2   | 35.2  | 2.69  | 16.8  | 2.2   | 1.27  | 0.021 | < 0.02 | 0.64  | 0.08   | < 0.02 | 1.53  | 38.8  | 4.0   | 8.20  | 0.04   | 0.9   | 3.05  | 0.5   | 0.4   | 0.2   |
| 2122011        | 0.1   | 6.5   | 4.8   | 19.4  | 3.58  | 7.2   | 2.4   | 0.51  | 0.016 | < 0.02 | 0.48  | 0.08   | < 0.02 | 1.39  | 27.6  | 11.4  | 24.2  | 0.03   | 2.4   | 9.18  | 1.5   | 0.5   | 0.3   |
| 2122012        | 0.2   | 9.7   | 5.9   | 21.1  | 3.68  | 3.7   | 2.4   | 0.57  | 0.019 | < 0.02 | 0.51  | 0.06   | < 0.02 | 2.83  | 45.1  | 12.7  | 25.4  | 0.04   | 2.7   | 10.3  | 1.7   | 0.8   | 0.4   |
| 2122013        | 0.2   | 9.7   | 9.5   | 19.7  | 4.55  | 7.9   | 2.1   | 0.66  | 0.019 | 0.02   | 0.53  | 0.07   | < 0.02 | 4.49  | 75.4  | 20.8  | 39.6  | 0.04   | 4.2   | 15.9  | 2.4   | 1.0   | 0.5   |
| 2122014        | < 0.1 | 3.7   | 12.3  | 13.8  | 2.93  | 6.4   | 2.3   | 0.57  | 0.042 | < 0.02 | 0.42  | 0.10   | 0.03   | 3.37  | 38.1  | 8.2   | 17.5  | 0.08   | 1.9   | 7.25  | 1.3   | 0.3   | 0.3   |
| 2122015        | 0.2   | 6.1   | 10.8  | 11.6  | 3.27  | 8.0   | 1.7   | 0.58  | 0.047 | < 0.02 | 0.53  | 0.10   | < 0.02 | 3.81  | 43.4  | 12.2  | 24.9  | 0.06   | 2.7   | 9.63  | 1.6   | 0.6   | 0.3   |
| 2122016        | 0.2   | 4.0   | 5.5   | 17.6  | 4.45  | 2.8   | 1.8   | 0.45  | 0.023 | < 0.02 | 0.28  | 0.11   | < 0.02 | 0.92  | 23.8  | 16.2  | 29.8  | 0.05   | 3.4   | 12.3  | 2.0   | 0.4   | 0.4   |
| 2122017        | 0.3   | 10.1  | 17.4  | 29.0  | 7.53  | 3.6   | 2.0   | 0.30  | 0.037 | < 0.02 | 0.52  | 0.05   | < 0.02 | 2.43  | 93.0  | 23.3  | 46.6  | 0.10   | 5.2   | 19.6  | 3.0   | 1.0   | 0.7   |
| 2122018        | 0.2   | 2.0   | 6.8   | 25.8  | 4.88  | 4.5   | 1.9   | 0.32  | 0.013 | < 0.02 | 0.43  | 0.04   | < 0.02 | 1.18  | 42.5  | 14.0  | 29.7  | 0.05   | 3.3   | 12.2  | 2.1   | 0.5   | 0.5   |
| 2122019        | < 0.1 | 2.1   | 5.4   | 13.4  | 1.74  | 4.2   | 1.8   | 0.53  | 0.008 | < 0.02 | 0.66  | 0.09   | < 0.02 | 1.84  | 31.7  | 8.4   | 16.8  | 0.04   | 1.8   | 6.63  | 1.0   | 0.4   | 0.2   |
| 2122020        | 0.1   | 3.4   | 2.7   | 13.0  | 3.09  | 3.8   | 2.1   | 0.82  | 0.077 | 0.02   | 0.37  | 0.09   | < 0.02 | 0.83  | 23.0  | 9.3   | 19.1  | < 0.01 | 2.1   | 7.98  | 1.3   | 0.6   | 0.3   |
| 2122021        | 0.2   | 2.4   | 12.0  | 69.3  | 4.96  | 5.2   | 1.6   | 0.52  | 0.048 | < 0.02 | 0.42  | 0.07   | 0.03   | 1.24  | 110   | 17.3  | 39.0  | 0.15   | 4.3   | 16.4  | 2.7   | 0.8   | 0.7   |
| 2122022        | 0.1   | 2.4   | 6.0   | 15.5  | 2.48  | 2.5   | 1.7   | 0.74  | 0.033 | < 0.02 | 0.75  | 0.08   | < 0.02 | 1.15  | 56.5  | 9.5   | 21.2  | 0.12   | 2.2   | 8.60  | 1.4   | 0.9   | 0.2   |
| 2122023        | < 0.1 | 3.9   | 16.6  | 16.3  | 2.93  | 5.4   | 3.1   | 0.72  | 0.032 | < 0.02 | 0.68  | 0.09   | < 0.02 | 2.82  | 50.5  | 8.5   | 17.5  | 0.15   | 1.9   | 6.89  | 1.2   | 0.5   | 0.2   |
| 2122024        | < 0.1 | 3.6   | 6.8   | 14.9  | 2.06  | 4.8   | 2.4   | 0.78  | 0.022 | < 0.02 | 0.80  | 0.24   | < 0.02 | 1.00  | 41.6  | 8.6   | 17.5  | 0.08   | 1.9   | 6.59  | 1.0   | 0.4   | 0.2   |
| 2122025        | < 0.1 | 2.6   | 4.7   | 28.9  | 2.10  | 4.6   | 2.5   | 0.75  | 0.022 | < 0.02 | 0.78  | 0.16   | 0.03   | 0.72  | 33.7  | 9.2   | 17.8  | 0.06   | 1.9   | 6.99  | 1.2   | 0.3   | 0.2   |
| 2122026        | 0.1   | 6.1   | 12.4  | 16.3  | 3.26  | 8.4   | 3.5   | 1.01  | 0.016 | 0.03   | 0.57  | 0.14   | < 0.02 | 2.70  | 43.9  | 9.0   | 18.5  | 0.12   | 2.0   | 7.41  | 1.2   | 0.9   | 0.3   |
| 2122027        | 0.1   | 3.8   | 6.6   | 12.4  | 3.33  | 3.7   | 2.6   | 0.79  | 0.010 | 0.02   | 0.78  | 0.14   | < 0.02 | 1.52  | 36.5  | 10.3  | 21.2  | 0.12   | 2.4   | 8.88  | 1.4   | 0.6   | 0.2   |
| 2122028        | 0.1   | 1.0   | 3.0   | 12.7  | 3.02  | 0.9   | 2.1   | 0.57  | 0.014 | < 0.02 | 0.89  | 0.08   | < 0.02 | 0.59  | 40.3  | 11.3  | 23.2  | 0.04   | 2.6   | 9.85  | 1.5   | 0.4   | 0.3   |
| 2122029        | < 0.1 | 1.2   | 4.8   | 9.6   | 2.51  | 2.7   | 1.3   | 0.64  | 0.009 | < 0.02 | 0.68  | 0.14   | 0.03   | 1.40  | 30.5  | 8.2   | 16.9  | 0.05   | 1.8   | 7.01  | 1.2   | 0.3   | 0.2   |
| 2122030        | 0.1   | 2.1   | 5.4   | 15.4  | 3.48  | 2.2   | 1.9   | 0.30  | 0.006 | < 0.02 | 0.35  | 0.10   | < 0.02 | 0.68  | 24.2  | 9.1   | 20.7  | 0.03   | 2.2   | 8.16  | 1.6   | 0.5   | 0.3   |
| 2122031        | 0.1   | 2.8   | 8.4   | 15.3  | 3.25  | 7.4   | 2.1   | 0.38  | 0.079 | < 0.02 | 0.49  | 0.10   | < 0.02 | 1.25  | 46.7  | 9.4   | 20.1  | 0.05   | 2.2   | 7.89  | 1.4   | 0.4   | 0.3   |
| 2122032        | 0.1   | 3.8   | 5.3   | 14.7  | 3.74  | 6.4   | 2.1   | 0.29  | 0.036 | < 0.02 | 0.28  | 0.08   | < 0.02 | 0.61  | 25.7  | 9.0   | 20.0  | 0.06   | 2.2   | 8.45  | 1.4   | 0.6   | 0.3   |
| 2122033        | < 0.1 | 0.7   | 3.7   | 11.6  | 1.70  | 2.7   | 1.4   | 0.56  | 0.028 | < 0.02 | 0.60  | 0.07   | < 0.02 | 0.46  | 24.3  | 8.4   | 17.5  | 0.09   | 1.9   | 6.73  | 1.2   | 0.3   | 0.2   |
| 2122034        | 0.1   | 3.3   | 5.9   | 17.6  | 4.24  | 2.2   | 2.2   | 0.31  | 0.014 | < 0.02 | 0.31  | 0.11   | < 0.02 | 0.75  | 40.7  | 10.1  | 22.2  | 0.05   | 2.4   | 9.26  | 1.7   | 0.3   | 0.3   |
| 2122035        | 0.1   | 1.1   | 7.5   | 13.6  | 3.42  | 2.3   | 2.0   | 0.42  | 0.008 | < 0.02 | 0.43  | 0.08   | < 0.02 | 0.77  | 32.6  | 9.7   | 21.5  | 0.06   | 2.2   | 8.37  | 1.3   | 0.4   | 0.3   |
| 2122036        | 0.1   | 2.2   | 5.1   | 16.9  | 4.44  | 1.8   | 1.9   | 0.27  | 0.008 | < 0.02 | 0.38  | 0.08   | < 0.02 | 0.58  | 33.3  | 11.3  | 25.6  | 0.03   | 2.8   | 10.7  | 1.7   | 0.6   | 0.4   |
| 2122037        | 0.1   | 0.5   | 4.4   | 11.1  | 1.94  | 1.0   | 1.1   | 0.47  | 0.013 | < 0.02 | 0.51  | 0.07   | < 0.02 | 0.37  | 33.2  | 9.4   | 18.6  | 0.10   | 1.9   | 6.82  | 1.0   | 0.3   | 0.2   |
| 2122038        | 0.1   | 1.0   | 6.5   | 17.9  | 5.01  | 2.4   | 1.8   | 0.28  | 0.016 | < 0.02 | 0.31  | 0.03   | < 0.02 | 0.56  | 32.9  | 12.7  | 25.1  | 0.03   | 3.0   | 11.5  | 1.9   | 0.8   | 0.4   |
| 2122039        | 0.2   | 1.5   | 6.5   | 20.7  | 5.43  | 3.5   | 2.2   | 0.27  | 0.013 | < 0.02 | 0.43  | 0.04   | < 0.02 | 0.86  | 41.2  | 17.2  | 35.0  | 0.05   | 4.0   | 14.7  | 2.3   | 0.5   | 0.5   |
| 2122040        | 0.2   | 1.3   | 5.9   | 18.4  | 5.25  | 2.3   | 1.9   | 0.25  | 0.012 | < 0.02 | 0.37  | 0.05   | < 0.02 | 0.62  | 35.2  | 13.7  | 27.8  | 0.04   | 3.2   | 11.8  | 2.2   | 0.7   | 0.4   |
| 2122041        | < 0.1 | 25.4  | 5.4   | 4.7   | 2.32  | 5.2   | 1.7   | 1.49  | 0.006 | < 0.02 | 0.89  | 0.20   | 0.09   | 3.93  | 46.1  | 5.7   | 11.7  | 0.06   | 1.3   | 4.96  | 1.1   | 0.8   | 0.2   |
| 2122042        | 0.2   | 1.2   | 8.3   | 142   | 5.71  | 9.8   | 0.9   | 0.51  | 0.010 | 0.04   | 0.57  | < 0.02 | 0.06   | 1.75  | 127   | 11.9  | 28.5  | 0.03   | 2.7   | 10.3  | 1.8   | 0.8   | 0.6   |
| 2122043        | < 0.1 | 0.9   | 2.2   | 21.2  | 3.36  | 24.0  | 1.7   | 0.35  | 0.071 | < 0.02 | 0.57  | 0.15   | < 0.02 | 0.42  | 21.9  | 2.8   | 7.88  | 0.03   | 0.9   | 4.73  | 1.5   | 0.5   | 0.4   |
| 2122044        | < 0.1 | 0.4   | 3.7   | 11.0  | 3.41  | 30.6  | 1.2   | 0.50  | 0.033 | < 0.02 | 0.43  | 0.03   | < 0.02 | 0.74  | 56.2  | 4.9   | 9.81  | 0.04   | 1.0   | 4.67  | 1.3   | 0.5   | 0.4   |
| 2122045        | 0.1   | 0.8   | 5.1   | 15.3  | 3.17  | 3.2   | 1.8   | 0.29  | 0.023 | < 0.02 | 0.41  | 0.05   | < 0.02 | 0.75  | 26.9  | 9.9   | 21.0  | 0.04   | 2.2   | 8.06  | 1.3   | 0.4   | 0.3   |
| 2122046        | 0.2   | 2.4   | 6.9   | 18.3  | 3.80  | 6.2   | 2.6   | 0.44  | 0.018 | < 0.02 | 0.49  | 0.12   | < 0.02 | 1.30  | 34.0  | 13.3  | 27.3  | 0.06   | 2.9   | 10.5  | 1.7   | 0.5   | 0.3   |
| 2122047        | < 0.1 | 2.9   | 7.1   | 4.9   | 2.51  | 1.4   | 1.4   | 0.88  | 0.013 | < 0.02 | 0.39  | 0.10   | 0.15   | 2.67  | 43.4  | 4.2   | 9.03  | 0.04   | 1.0   | 3.79  | 0.7   | 0.3   | 0.2   |
| 2122048        | 0.7   | 15.8  | 2.9   | 23.7  | 39.0  | 1.5   | 0.2   | 1.93  | 0.042 | < 0.02 | 0.13  | 0.11   | 0.05   | 0.59  | 1170  | 37.1  | 70.9  | 0.81   | 9.3   | 41.5  | 7.8   | 6.6   | 2.1   |
| 2122049        | 0.1   | 4.8   | 2.7   | 12.7  | 2.76  | 6.4   | 2.0   | 0.75  | 0.151 | < 0.02 | 0.32  | 0.09   | < 0.02 | 0.65  | 22.2  | 7.9   | 16.2  | 0.05   | 1.7   | 6.49  | 1.1   | 0.3   | 0.2   |

| Analyte Symbol | Ge    | As    | Rb    | Sr    | Y     | Zr    | Nb    | Mo    | Ag    | In     | Sn    | Sb    | Te     | Cs    | Ba    | La    | Ce    | Cd    | Pr    | Nd    | Sm    | Se    | Eu    |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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   |
| Lower Limit    | 0.1   | 0.1   | 0.1   | 0.5   | 0.01  | 0.1   | 0.1   | 0.01  | 0.002 | 0.02   | 0.05  | 0.02  | 0.02   | 0.02  | 0.5   | 0.5   | 0.01  | 0.01  | 0.1   | 0.02  | 0.1   | 0.1   | 0.1   |
| Method Code    | 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 |
| 2122050        | 0.1   | 2.5   | 2.9   | 12.7  | 3.24  | 5.4   | 1.8   | 0.52  | 0.049 | < 0.02 | 0.35  | 0.11  | < 0.02 | 0.64  | 21.0  | 9.9   | 20.4  | 0.04  | 2.3   | 8.14  | 1.4   | 0.8   | 0.3   |
| 2122051        | 0.1   | 4.7   | 4.1   | 10.1  | 4.47  | 0.8   | 1.3   | 0.74  | 0.054 | < 0.02 | 0.49  | 0.06  | < 0.02 | 1.98  | 54.1  | 9.8   | 20.8  | 0.04  | 2.3   | 8.99  | 1.7   | 0.7   | 0.4   |
| 2122052        | < 0.1 | 1.3   | 4.1   | 6.1   | 2.81  | 2.3   | 1.3   | 0.90  | 0.029 | < 0.02 | 0.75  | 0.16  | < 0.02 | 1.04  | 35.4  | 7.2   | 14.9  | 0.06  | 1.6   | 6.06  | 1.0   | 0.3   | 0.2   |
| 2122053        | 0.1   | 1.5   | 5.6   | 14.8  | 3.99  | 3.1   | 1.8   | 0.57  | 0.060 | < 0.02 | 0.57  | 0.07  | < 0.02 | 0.75  | 50.6  | 13.1  | 24.0  | 0.07  | 2.5   | 9.79  | 1.7   | 0.6   | 0.4   |
| 2122054        | 0.2   | 7.4   | 10.2  | 24.3  | 4.44  | 4.3   | 1.7   | 0.54  | 0.117 | < 0.02 | 0.39  | 0.04  | < 0.02 | 1.83  | 68.0  | 17.0  | 31.2  | 0.04  | 3.7   | 13.6  | 2.2   | 0.8   | 0.4   |
| 2122055        | 0.2   | 1.4   | 5.8   | 16.3  | 4.48  | 2.2   | 1.8   | 0.42  | 0.047 | < 0.02 | 0.44  | 0.05  | < 0.02 | 0.74  | 62.7  | 15.2  | 28.9  | 0.03  | 3.4   | 12.5  | 2.1   | 0.5   | 0.4   |
| 2122056        | < 0.1 | 1.9   | 18.5  | 7.7   | 1.73  | 10.4  | 2.9   | 2.42  | 0.087 | < 0.02 | 4.30  | 0.13  | 0.05   | 1.74  | 46.1  | 6.2   | 11.8  | 0.09  | 1.2   | 4.57  | 0.8   | 0.5   | 0.2   |
| 2122057        | < 0.1 | 1.3   | 16.4  | 15.6  | 1.63  | 4.5   | 2.2   | 0.45  | 0.038 | < 0.02 | 0.57  | 0.10  | < 0.02 | 0.90  | 262   | 4.5   | 8.87  | 0.08  | 0.9   | 3.37  | 0.6   | 0.3   | 0.2   |
| 2122058        | 0.2   | 38.9  | 3.5   | 13.4  | 3.63  | 5.4   | 1.8   | 0.94  | 0.018 | < 0.02 | 0.49  | 0.14  | 0.03   | 3.19  | 60.4  | 11.0  | 22.6  | 0.04  | 2.5   | 9.43  | 1.6   | 0.6   | 0.4   |
| 2122059        | 0.1   | 13.9  | 2.6   | 8.1   | 2.57  | 2.6   | 1.4   | 0.39  | 0.020 | < 0.02 | 0.66  | 0.03  | < 0.02 | 2.28  | 45.3  | 8.2   | 16.6  | 0.02  | 1.8   | 6.80  | 1.3   | 0.6   | 0.2   |
| 2122060        | < 0.1 | 59.6  | 2.9   | 6.9   | 2.67  | 7.3   | 1.5   | 0.78  | 0.008 | < 0.02 | 0.45  | 0.17  | < 0.02 | 1.80  | 52.1  | 4.1   | 8.68  | 0.05  | 0.9   | 3.40  | 0.6   | 0.5   | 0.1   |
| 2122061        | < 0.1 | 2.6   | 3.6   | 7.0   | 1.97  | 8.7   | 0.8   | 0.66  | 0.015 | < 0.02 | 0.36  | 0.09  | < 0.02 | 1.83  | 44.7  | 4.6   | 9.49  | 0.06  | 1.0   | 3.46  | 0.7   | 0.3   | 0.1   |
| 2122062        | 0.2   | 8.6   | 4.4   | 11.8  | 2.39  | 5.5   | 3.0   | 3.30  | 0.013 | 0.02   | 1.12  | 0.23  | 0.06   | 1.44  | 44.4  | 14.3  | 28.1  | 0.05  | 3.1   | 11.1  | 1.9   | 0.6   | 0.3   |
| 2122063        | 0.1   | 5.5   | 5.1   | 18.4  | 2.90  | 3.9   | 1.7   | 0.73  | 0.022 | < 0.02 | 0.45  | 0.06  | < 0.02 | 1.60  | 62.9  | 10.6  | 21.4  | 0.10  | 2.2   | 8.34  | 1.4   | 0.5   | 0.3   |
| 2122064        | 0.1   | 1.6   | 6.7   | 11.3  | 2.69  | 10.6  | 2.2   | 1.07  | 0.018 | 0.02   | 0.69  | 0.08  | 0.03   | 3.61  | 78.0  | 8.3   | 16.9  | 0.08  | 1.8   | 7.12  | 1.2   | 0.2   | 0.3   |
| 2122065        | < 0.1 | 1.4   | 1.7   | 5.4   | 1.85  | 8.3   | 1.3   | 0.89  | 0.079 | < 0.02 | 0.52  | 0.05  | < 0.02 | 1.17  | 37.3  | 3.9   | 8.16  | 0.03  | 0.8   | 2.99  | 0.5   | 0.3   | 0.1   |
| 2122066        | 0.3   | 1.9   | 14.1  | 15.8  | 5.41  | 14.1  | 2.0   | 1.57  | 0.053 | 0.03   | 0.72  | 0.15  | 0.04   | 8.05  | 108   | 26.2  | 48.5  | 0.06  | 5.2   | 20.0  | 3.1   | 1.0   | 0.6   |
| 2122067        | 0.2   | 3.9   | 10.3  | 13.2  | 4.19  | 14.4  | 1.7   | 1.22  | 0.030 | 0.02   | 0.68  | 0.07  | < 0.02 | 2.52  | 133   | 21.5  | 36.5  | 0.05  | 3.9   | 14.7  | 2.1   | 0.8   | 0.5   |
| 2122068        | 0.2   | 11.0  | 4.5   | 7.2   | 2.37  | 12.4  | 2.2   | 2.57  | 0.021 | 0.03   | 0.81  | 0.35  | 0.06   | 1.52  | 53.2  | 14.4  | 29.2  | 0.08  | 3.2   | 12.0  | 2.1   | 1.1   | 0.3   |
| 2122069        | 0.1   | 2.0   | 4.1   | 19.5  | 2.88  | 14.2  | 2.0   | 0.68  | 0.012 | < 0.02 | 0.48  | 0.06  | < 0.02 | 0.81  | 42.3  | 7.3   | 14.5  | 0.08  | 1.5   | 5.84  | 1.2   | 0.7   | 0.3   |
| 2122070        | < 0.1 | 30.1  | 8.1   | 9.9   | 3.32  | 6.6   | 1.7   | 1.05  | 0.021 | 0.03   | 0.63  | 0.15  | 0.07   | 7.27  | 77.9  | 8.1   | 16.5  | 0.07  | 1.8   | 6.70  | 1.2   | 0.6   | 0.3   |
| 2122071        | 0.2   | 3.8   | 10.8  | 16.3  | 4.41  | 9.2   | 11.1  | 1.63  | 0.022 | < 0.02 | 1.60  | 0.10  | < 0.02 | 2.11  | 94.4  | 18.5  | 39.2  | 0.10  | 4.2   | 15.5  | 2.4   | 0.7   | 0.6   |
| 2122072        | 0.2   | 52.4  | 6.7   | 37.2  | 6.77  | 7.8   | 1.8   | 0.73  | 0.027 | < 0.02 | 0.50  | 0.10  | 0.05   | 7.26  | 109   | 13.7  | 30.6  | 0.06  | 3.5   | 14.1  | 2.7   | 1.1   | 0.6   |
| 2122073        | < 0.1 | 4.8   | 3.4   | 13.7  | 2.20  | 6.1   | 2.2   | 1.08  | 0.014 | < 0.02 | 0.78  | 0.19  | 0.02   | 2.09  | 37.9  | 7.5   | 15.5  | 0.07  | 1.6   | 5.96  | 0.9   | 0.5   | 0.2   |

## Results

| Analyte Symbol | Gd    | Tb    | Dy    | Ho    | Er    | Tm    | Yb    | Lu    | Hf    | Ta     | W     | Re      | Au    | Tl    | Pb    | Th    | U     | Hg    |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|---------|-------|-------|-------|-------|-------|-------|
| Unit Symbol    | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm    | ppm   | ppm     | ppb   | ppm   | ppm   | ppm   | ppm   | ppb   |
| Lower Limit    | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.05   | 0.1   | 0.001   | 0.5   | 0.02  | 0.01  | 0.1   | 0.1   | 10    |
| Method Code    | 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 |
| 2122001        | 0.5   | < 0.1 | 0.3   | < 0.1 | 0.1   | < 0.1 | 0.1   | < 0.1 | 0.2   | < 0.05 | 0.2   | < 0.001 | 1.5   | 0.11  | 3.62  | 0.3   | 0.4   | 100   |
| 2122002        | 1.6   | 0.2   | 0.8   | 0.2   | 0.4   | < 0.1 | 0.4   | < 0.1 | < 0.1 | < 0.05 | 0.1   | < 0.001 | 2.0   | 0.07  | 2.85  | 1.8   | 0.4   | < 10  |
| 2122003        | 1.5   | 0.2   | 0.9   | 0.2   | 0.4   | < 0.1 | 0.4   | < 0.1 | < 0.1 | < 0.05 | 0.2   | < 0.001 | 0.9   | 0.06  | 2.65  | 1.8   | 0.4   | 10    |
| 2122004        | 1.4   | 0.2   | 0.8   | 0.2   | 0.4   | < 0.1 | 0.4   | < 0.1 | 0.1   | < 0.05 | < 0.1 | 0.002   | 1.2   | 0.05  | 3.56  | 2.6   | 0.5   | 10    |
| 2122005        | 1.4   | 0.2   | 0.8   | 0.2   | 0.4   | < 0.1 | 0.4   | < 0.1 | 0.1   | < 0.05 | < 0.1 | < 0.001 | < 0.5 | 0.04  | 3.50  | 2.8   | 0.4   | 20    |
| 2122006        | 1.2   | 0.1   | 0.6   | 0.1   | 0.3   | < 0.1 | 0.3   | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.001 | < 0.5 | 0.06  | 4.59  | 2.2   | 0.4   | 20    |
| 2122007        | 1.1   | 0.2   | 0.5   | 0.1   | 0.3   | < 0.1 | 0.3   | < 0.1 | 0.1   | < 0.05 | < 0.1 | < 0.001 | < 0.5 | 0.06  | 5.27  | 2.5   | 0.5   | 10    |
| 2122008        | 1.7   | 0.2   | 0.8   | 0.2   | 0.4   | < 0.1 | 0.4   | < 0.1 | 0.1   | < 0.05 | 0.3   | 0.002   | 2.3   | 0.18  | 5.31  | 2.9   | 0.6   | 30    |
| 2122009        | 0.9   | 0.1   | 0.6   | 0.1   | 0.2   | < 0.1 | 0.2   | < 0.1 | < 0.1 | < 0.05 | 0.1   | < 0.001 | < 0.5 | 0.13  | 9.27  | 2.2   | 0.6   | 20    |
| 2122010        | 0.5   | < 0.1 | 0.4   | < 0.1 | 0.3   | < 0.1 | 0.3   | < 0.1 | 0.3   | < 0.05 | 0.6   | < 0.001 | 1.3   | 0.11  | 7.16  | 1.4   | 0.4   | 30    |
| 2122011        | 1.1   | 0.2   | 0.6   | 0.1   | 0.3   | < 0.1 | 0.3   | < 0.1 | 0.1   | < 0.05 | 0.1   | < 0.001 | < 0.5 | 0.08  | 4.12  | 2.5   | 0.4   | < 10  |
| 2122012        | 1.2   | 0.2   | 0.7   | 0.2   | 0.3   | < 0.1 | 0.3   | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.001 | 0.7   | 0.10  | 6.10  | 1.6   | 0.5   | 10    |
| 2122013        | 1.8   | 0.2   | 0.9   | 0.2   | 0.4   | < 0.1 | 0.3   | < 0.1 | 0.1   | < 0.05 | 0.1   | < 0.001 | 2.2   | 0.11  | 6.21  | 3.1   | 0.7   | 20    |
| 2122014        | 1.0   | 0.1   | 0.5   | 0.1   | 0.3   | < 0.1 | 0.2   | < 0.1 | 0.1   | < 0.05 | 0.2   | < 0.001 | < 0.5 | 0.08  | 5.05  | 2.3   | 0.4   | 20    |
| 2122015        | 1.2   | 0.1   | 0.6   | 0.1   | 0.3   | < 0.1 | 0.3   | < 0.1 | 0.2   | < 0.05 | 0.1   | < 0.001 | < 0.5 | 0.08  | 5.42  | 3.2   | 0.4   | 20    |
| 2122016        | 1.4   | 0.2   | 0.7   | 0.2   | 0.4   | < 0.1 | 0.3   | < 0.1 | < 0.1 | < 0.05 | 0.2   | < 0.001 | 1.5   | 0.05  | 2.94  | 1.8   | 0.4   | 10    |
| 2122017        | 2.3   | 0.3   | 1.3   | 0.3   | 0.6   | 0.1   | 0.6   | 0.1   | < 0.1 | < 0.05 | 0.1   | 0.001   | 0.6   | 0.11  | 5.50  | 3.5   | 0.5   | 20    |
| 2122018        | 1.5   | 0.2   | 0.8   | 0.2   | 0.4   | < 0.1 | 0.5   | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.001 | < 0.5 | 0.06  | 3.20  | 2.4   | 0.6   | 20    |
| 2122019        | 0.7   | < 0.1 | 0.3   | < 0.1 | 0.2   | < 0.1 | 0.1   | < 0.1 | < 0.1 | < 0.05 | 1.3   | 0.001   | < 0.5 | 0.07  | 7.00  | 1.4   | 0.3   | 10    |
| 2122020        | 1.0   | 0.1   | 0.5   | 0.1   | 0.3   | < 0.1 | 0.3   | < 0.1 | < 0.1 | < 0.05 | 0.3   | < 0.001 | < 0.5 | 0.18  | 3.92  | 1.7   | 0.4   | 20    |
| 2122021        | 2.0   | 0.2   | 0.9   | 0.2   | 0.4   | < 0.1 | 0.5   | < 0.1 | 0.1   | < 0.05 | < 0.1 | < 0.001 | < 0.5 | 0.16  | 6.47  | 4.4   | 0.5   | 10    |
| 2122022        | 1.1   | 0.1   | 0.5   | 0.1   | 0.2   | < 0.1 | 0.2   | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.001 | < 0.5 | 0.10  | 6.22  | 2.5   | 0.4   | 20    |
| 2122023        | 0.9   | 0.1   | 0.5   | 0.1   | 0.2   | < 0.1 | 0.3   | < 0.1 | 0.1   | < 0.05 | 0.7   | < 0.001 | < 0.5 | 0.10  | 6.75  | 2.7   | 0.4   | 30    |
| 2122024        | 0.8   | < 0.1 | 0.4   | < 0.1 | 0.2   | < 0.1 | 0.2   | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.001 | 3.1   | 0.08  | 7.31  | 1.7   | 0.4   | 50    |
| 2122025        | 0.8   | < 0.1 | 0.4   | < 0.1 | 0.2   | < 0.1 | 0.2   | < 0.1 | 0.1   | < 0.05 | 0.2   | < 0.001 | 1.4   | 0.06  | 5.34  | 1.8   | 0.3   | 20    |
| 2122026        | 1.0   | 0.1   | 0.6   | 0.1   | 0.3   | < 0.1 | 0.3   | < 0.1 | 0.2   | < 0.05 | 0.3   | < 0.001 | < 0.5 | 0.09  | 7.05  | 3.0   | 0.5   | 30    |
| 2122027        | 1.1   | 0.2   | 0.5   | 0.1   | 0.3   | < 0.1 | 0.3   | < 0.1 | < 0.1 | < 0.05 | 0.2   | < 0.001 | 1.7   | 0.08  | 6.55  | 2.3   | 0.4   | 20    |
| 2122028        | 1.2   | 0.2   | 0.6   | 0.1   | 0.3   | < 0.1 | 0.3   | < 0.1 | < 0.1 | < 0.05 | 0.1   | < 0.001 | 0.6   | 0.06  | 7.65  | 1.5   | 0.4   | 20    |
| 2122029        | 0.8   | < 0.1 | 0.4   | < 0.1 | 0.2   | < 0.1 | 0.2   | < 0.1 | < 0.1 | < 0.05 | 0.1   | < 0.001 | 1.1   | 0.05  | 4.53  | 1.8   | 0.2   | 10    |
| 2122030        | 1.1   | 0.1   | 0.6   | 0.1   | 0.3   | < 0.1 | 0.3   | < 0.1 | < 0.1 | < 0.05 | 0.4   | < 0.001 | 0.6   | 0.04  | 3.39  | 1.8   | 0.3   | 10    |
| 2122031        | 1.0   | 0.1   | 0.6   | 0.1   | 0.3   | < 0.1 | 0.3   | < 0.1 | 0.2   | < 0.05 | 0.2   | < 0.001 | 0.9   | 0.21  | 4.58  | 2.3   | 0.3   | 20    |
| 2122032        | 1.2   | 0.2   | 0.7   | 0.2   | 0.4   | < 0.1 | 0.3   | < 0.1 | 0.2   | < 0.05 | 0.2   | < 0.001 | < 0.5 | 0.12  | 2.36  | 2.4   | 0.4   | 10    |
| 2122033        | 0.7   | < 0.1 | 0.3   | < 0.1 | 0.1   | < 0.1 | 0.1   | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.001 | 0.6   | 0.10  | 5.07  | 1.3   | 0.3   | 30    |
| 2122034        | 1.3   | 0.2   | 0.8   | 0.2   | 0.3   | < 0.1 | 0.4   | < 0.1 | < 0.1 | < 0.05 | 0.2   | < 0.001 | 1.4   | 0.07  | 3.23  | 1.7   | 0.4   | 20    |
| 2122035        | 1.0   | 0.1   | 0.6   | 0.2   | 0.3   | < 0.1 | 0.3   | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.001 | < 0.5 | 0.06  | 3.69  | 1.5   | 0.3   | 20    |
| 2122036        | 1.4   | 0.2   | 0.8   | 0.2   | 0.4   | < 0.1 | 0.4   | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.001 | 0.9   | 0.05  | 2.47  | 2.1   | 0.4   | < 10  |
| 2122037        | 0.7   | < 0.1 | 0.4   | < 0.1 | 0.2   | < 0.1 | 0.2   | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.001 | < 0.5 | 0.05  | 5.30  | 0.6   | 0.3   | 10    |
| 2122038        | 1.5   | 0.2   | 0.8   | 0.2   | 0.4   | < 0.1 | 0.4   | < 0.1 | < 0.1 | < 0.05 | < 0.1 | 0.001   | 0.9   | 0.04  | 2.30  | 2.0   | 0.4   | 10    |
| 2122039        | 1.8   | 0.2   | 0.9   | 0.2   | 0.5   | < 0.1 | 0.5   | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.001 | < 0.5 | 0.05  | 2.99  | 2.5   | 0.7   | 20    |
| 2122040        | 1.6   | 0.2   | 0.9   | 0.2   | 0.4   | < 0.1 | 0.5   | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.001 | < 0.5 | 0.05  | 2.40  | 2.1   | 0.5   | < 10  |
| 2122041        | 0.9   | 0.1   | 0.5   | 0.1   | 0.2   | < 0.1 | 0.2   | < 0.1 | 0.1   | < 0.05 | 0.7   | < 0.001 | 1.9   | 0.08  | 6.94  | 1.4   | 0.3   | 20    |
| 2122042        | 1.5   | 0.2   | 1.0   | 0.2   | 0.5   | < 0.1 | 0.5   | < 0.1 | 0.2   | < 0.05 | < 0.1 | < 0.001 | < 0.5 | 0.07  | 5.20  | 4.0   | 0.9   | < 10  |
| 2122043        | 1.3   | 0.2   | 0.7   | 0.1   | 0.2   | < 0.1 | 0.2   | < 0.1 | 0.5   | < 0.05 | < 0.1 | < 0.001 | < 0.5 | 0.16  | 4.59  | 0.3   | 0.5   | < 10  |
| 2122044        | 1.3   | 0.2   | 0.6   | 0.1   | 0.3   | < 0.1 | 0.2   | < 0.1 | 0.7   | < 0.05 | < 0.1 | < 0.001 | 1.0   | 0.11  | 3.48  | 0.7   | 0.5   | < 10  |
| 2122045        | 1.0   | 0.1   | 0.5   | 0.1   | 0.3   | < 0.1 | 0.2   | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.001 | < 0.5 | 0.08  | 3.30  | 1.7   | 0.3   | 20    |
| 2122046        | 1.3   | 0.2   | 0.7   | 0.1   | 0.3   | < 0.1 | 0.3   | < 0.1 | 0.2   | < 0.05 | 0.1   | < 0.001 | < 0.5 | 0.08  | 5.62  | 5.5   | 0.5   | 10    |
| 2122047        | 0.7   | < 0.1 | 0.5   | 0.1   | 0.2   | < 0.1 | 0.3   | < 0.1 | < 0.1 | < 0.05 | 2.6   | < 0.001 | 1.0   | 0.09  | 5.88  | 1.3   | 0.2   | 20    |
| 2122048        | 7.7   | 0.9   | 4.5   | 1.2   | 3.0   | 0.6   | 4.2   | 0.8   | < 0.1 | < 0.05 | 0.4   | 0.009   | 4.9   | 0.10  | 4.20  | 0.8   | 1.4   | 80    |
| 2122049        | 0.9   | 0.1   | 0.4   | 0.1   | 0.2   | < 0.1 | 0.3   | < 0.1 | 0.2   | < 0.05 | 0.1   | < 0.001 | 2.7   | 0.07  | 4.32  | 1.7   | 0.3   | 30    |



| Analyte Symbol | Gd    | Tb    | Dy    | Ho    | Er    | Tm    | Yb    | Lu    | Hf    | Ta     | W     | Re      | Au    | Tl    | Pb    | Th    | U     | Hg    |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|---------|-------|-------|-------|-------|-------|-------|
| Unit Symbol    | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm    | ppm   | ppm     | ppb   | ppm   | ppm   | ppm   | ppm   | ppb   |
| Lower Limit    | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.05   | 0.1   | 0.001   | 0.5   | 0.02  | 0.01  | 0.1   | 0.1   | 10    |
| Method Code    | 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 |
| 2122050        | 1.2   | 0.1   | 0.6   | 0.1   | 0.3   | < 0.1 | 0.3   | < 0.1 | 0.1   | < 0.05 | 0.1   | < 0.001 | < 0.5 | 0.05  | 4.28  | 2.5   | 0.3   | 20    |
| 2122051        | 1.3   | 0.2   | 0.8   | 0.2   | 0.4   | < 0.1 | 0.4   | < 0.1 | < 0.1 | < 0.05 | 0.2   | < 0.001 | 3.5   | 0.08  | 6.83  | 1.6   | 0.4   | 30    |
| 2122052        | 0.8   | 0.1   | 0.5   | 0.1   | 0.3   | < 0.1 | 0.3   | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.001 | 0.5   | 0.06  | 5.38  | 1.7   | 0.2   | 10    |
| 2122053        | 1.3   | 0.2   | 0.7   | 0.2   | 0.3   | < 0.1 | 0.3   | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.001 | 1.6   | 0.07  | 5.30  | 1.4   | 0.5   | 30    |
| 2122054        | 1.6   | 0.2   | 0.8   | 0.2   | 0.3   | < 0.1 | 0.4   | < 0.1 | < 0.1 | < 0.05 | 0.2   | < 0.001 | 1.2   | 0.22  | 4.40  | 1.6   | 0.6   | < 10  |
| 2122055        | 1.5   | 0.2   | 0.8   | 0.2   | 0.4   | < 0.1 | 0.4   | < 0.1 | < 0.1 | < 0.05 | 0.4   | < 0.001 | < 0.5 | 0.13  | 3.85  | 1.8   | 0.5   | 20    |
| 2122056        | 0.6   | < 0.1 | 0.3   | < 0.1 | 0.2   | < 0.1 | 0.2   | < 0.1 | 0.3   | < 0.05 | 0.2   | 0.001   | 3.8   | 0.17  | 6.74  | 1.8   | 0.5   | 30    |
| 2122057        | 0.5   | < 0.1 | 0.3   | < 0.1 | 0.1   | < 0.1 | 0.2   | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.001 | 9.7   | 0.18  | 3.88  | 0.8   | 0.3   | < 10  |
| 2122058        | 1.4   | 0.2   | 0.7   | 0.2   | 0.4   | < 0.1 | 0.4   | < 0.1 | 0.1   | < 0.05 | 9.1   | < 0.001 | 1.1   | 0.10  | 7.94  | 2.0   | 0.4   | 40    |
| 2122059        | 0.9   | 0.1   | 0.5   | 0.1   | 0.2   | < 0.1 | 0.3   | < 0.1 | < 0.1 | < 0.05 | 0.4   | < 0.001 | < 0.5 | 0.07  | 6.60  | 0.9   | 0.4   | 40    |
| 2122060        | 0.5   | < 0.1 | 0.4   | 0.1   | 0.3   | < 0.1 | 0.3   | < 0.1 | 0.2   | < 0.05 | 0.6   | < 0.001 | 1.5   | 0.06  | 7.72  | 1.1   | 0.3   | 30    |
| 2122061        | 0.5   | < 0.1 | 0.3   | < 0.1 | 0.2   | < 0.1 | 0.2   | < 0.1 | 0.2   | < 0.05 | 0.1   | < 0.001 | 1.2   | 0.06  | 5.62  | 0.5   | 0.6   | 20    |
| 2122062        | 1.2   | 0.1   | 0.6   | 0.1   | 0.2   | < 0.1 | 0.2   | < 0.1 | 0.1   | < 0.05 | 0.4   | < 0.001 | 1.1   | 0.07  | 14.6  | 3.6   | 0.7   | 40    |
| 2122063        | 1.0   | 0.1   | 0.5   | 0.1   | 0.3   | < 0.1 | 0.3   | < 0.1 | < 0.1 | < 0.05 | 0.4   | < 0.001 | 1.7   | 0.08  | 5.12  | 0.9   | 0.6   | 50    |
| 2122064        | 0.9   | 0.1   | 0.5   | < 0.1 | 0.2   | < 0.1 | 0.3   | < 0.1 | 0.3   | < 0.05 | 0.4   | < 0.001 | 1.8   | 0.10  | 10.5  | 3.0   | 0.6   | 20    |
| 2122065        | 0.5   | < 0.1 | 0.3   | < 0.1 | 0.2   | < 0.1 | 0.2   | < 0.1 | 0.2   | < 0.05 | 1.4   | < 0.001 | < 0.5 | 0.17  | 7.31  | 1.6   | 0.7   | < 10  |
| 2122066        | 2.1   | 0.2   | 1.0   | 0.2   | 0.5   | < 0.1 | 0.5   | < 0.1 | 0.3   | < 0.05 | 0.2   | < 0.001 | 2.9   | 0.27  | 13.7  | 4.7   | 0.9   | 20    |
| 2122067        | 1.5   | 0.2   | 0.8   | 0.2   | 0.4   | < 0.1 | 0.4   | < 0.1 | 0.4   | < 0.05 | 0.2   | < 0.001 | 2.0   | 0.20  | 7.05  | 4.1   | 0.8   | 20    |
| 2122068        | 1.3   | 0.1   | 0.6   | 0.1   | 0.2   | < 0.1 | 0.2   | < 0.1 | 0.3   | < 0.05 | 0.4   | < 0.001 | < 0.5 | 0.14  | 15.2  | 4.2   | 0.6   | 40    |
| 2122069        | 0.9   | 0.1   | 0.5   | 0.1   | 0.3   | < 0.1 | 0.3   | < 0.1 | 0.3   | < 0.05 | 0.1   | < 0.001 | 0.6   | 0.09  | 5.10  | 1.5   | 0.6   | 20    |
| 2122070        | 1.0   | 0.1   | 0.6   | 0.1   | 0.3   | < 0.1 | 0.4   | < 0.1 | 0.2   | < 0.05 | 0.3   | < 0.001 | 3.9   | 0.13  | 7.39  | 2.2   | 0.3   | 50    |
| 2122071        | 1.6   | 0.2   | 0.9   | 0.2   | 0.3   | < 0.1 | 0.3   | < 0.1 | 0.3   | < 0.05 | 0.2   | 0.002   | < 0.5 | 0.14  | 16.9  | 4.5   | 1.1   | 50    |
| 2122072        | 2.2   | 0.3   | 1.4   | 0.3   | 0.6   | 0.1   | 0.6   | < 0.1 | 0.2   | < 0.05 | 37.1  | < 0.001 | < 0.5 | 0.14  | 6.18  | 2.5   | 0.4   | 90    |
| 2122073        | 0.7   | < 0.1 | 0.4   | < 0.1 | 0.2   | < 0.1 | 0.2   | < 0.1 | 0.1   | < 0.05 | 4.6   | < 0.001 | 0.5   | 0.07  | 6.68  | 1.9   | 0.3   | 30    |

QC

| Analyte Symbol              | Au    | Ti    | S      | P      | Li    | Be    | B     | Na     | Mg    | Al    | K     | Bi    | Ca    | Sc    | V     | Cr    | Mn      | Fe     | Co    | Ni    | Cu       | Zn    | Ga    |
|-----------------------------|-------|-------|--------|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|---------|--------|-------|-------|----------|-------|-------|
| Unit Symbol                 | ppb   | %     | %      | %      | ppm   | ppm   | ppm   | %      | %     | %     | %     | ppm   | %     | ppm   | ppm   | ppm   | ppm     | %      | ppm   | ppm   | ppm      | ppm   | ppm   |
| Lower Limit                 | 5     | 0.001 | 1      | 0.001  | 0.1   | 0.1   | 1     | 0.001  | 0.01  | 0.01  | 0.01  | 0.02  | 0.01  | 0.1   | 1     | 1     | 1       | 0.01   | 0.1   | 0.1   | 0.01     | 0.1   | 0.02  |
| Method Code                 | 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 |
| GXR-1 Meas                  |       | 0.007 | < 1    | 0.047  | 4.2   | 0.7   | 10    | 0.051  | 0.14  | 0.38  | 0.03  | 1450  | 1.00  | 1.3   | 85    | 8     | 944     | 24.1   | 7.6   | 37.5  | 1240     | 748   | 5.75  |
| GXR-1 Cert                  |       | 0.036 | 0.257  | 0.0650 | 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  |
| DH-1a Meas                  |       |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| DH-1a Cert                  |       |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| GXR-4 Meas                  |       | 0.132 | < 1    | 0.108  | 9.0   | 1.3   | 3     | 0.137  | 1.48  | 2.71  | 1.69  | 18.1  | 0.86  | 7.1   | 81    | 56    | 134     | 2.78   | 12.8  | 34.3  | 6170     | 62.0  | 12.3  |
| GXR-4 Cert                  |       | 0.29  | 1.77   | 0.120  | 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  |
| GXR-6 Meas                  |       |       | < 1    | 0.029  | 24.2  | 0.8   | 4     | 0.071  | 0.39  | 7.06  | 1.14  | 0.14  | 0.16  | 22.9  | 176   | 80    | 1050    | 5.21   | 12.1  | 21.4  | 67.5     | 114   | 16.9  |
| GXR-6 Cert                  |       |       | 0.0160 | 0.0350 | 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  |
| SAR-M (U.S.G.S.) Meas       |       | 0.052 |        | 0.065  | 12.3  | 1.0   |       | 0.034  | 0.33  | 1.14  | 0.29  | 1.78  | 0.30  | 3.1   | 35    | 89    | 4850    | 2.69   | 9.7   | 40.3  | 334      | 876   | 6.39  |
| SAR-M (U.S.G.S.) Cert       |       | 0.38  |        | 0.07   | 27.4  | 2.20  |       | 1.140  | 0.50  | 6.30  | 2.94  | 1.94  | 0.61  | 7.83  | 67.2  | 79.7  | 5220    | 2.99   | 10.70 | 41.5  | 331.0000 | 930.0 | 17    |
| OREAS 45d (Aqua Regia) Meas |       |       | < 1    | 0.034  | 13.1  |       |       | 0.044  | 0.16  | 6.10  | 0.13  | 0.25  | 0.11  | 43.6  | 220   | 522   | 449     | 13.2   | 26.4  | 198   | 359      | 35.9  | 18.5  |
| OREAS 45d (Aqua Regia) Cert |       |       | 0.045  | 0.035  | 11.9  |       |       | 0.031  | 0.144 | 4.860 | 0.097 | 0.30  | 0     | 41.50 | 201.0 | 467   | 400.000 | 13.650 | 26.2  | 176.0 | 345.0    | 30.6  | 17.9  |
| OxD108 Meas                 | 424   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| OxD108 Cert                 | 414   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| OxD108 Meas                 | 425   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| OxD108 Cert                 | 414   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| OxD108 Meas                 | 428   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| OxD108 Cert                 | 414   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| SE68 Meas                   | 612   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| SE68 Cert                   | 599   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| SE68 Meas                   | 614   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| SE68 Cert                   | 599   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| SE68 Meas                   | 620   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| SE68 Cert                   | 599   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| 2122010 Orig                | < 5   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| 2122010 Dup                 | 5     |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| 2122020 Orig                | < 5   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| 2122020 Dup                 | < 5   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| 2122023 Orig                |       | 0.191 | < 1    | 0.038  | 21.0  | 0.3   | 4     | 0.024  | 0.35  | 1.91  | 0.08  | 0.12  | 0.21  | 3.3   | 73    | 45    | 159     | 2.94   | 7.2   | 16.7  | 9.05     | 36.0  | 8.89  |
| 2122023 Dup                 |       | 0.186 | < 1    | 0.032  | 20.6  | 0.3   | 4     | 0.025  | 0.35  | 1.90  | 0.08  | 0.12  | 0.22  | 3.3   | 72    | 44    | 156     | 2.99   | 7.3   | 17.1  | 9.10     | 35.7  | 8.47  |
| 2122030 Orig                | < 5   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| 2122030 Dup                 | 11    |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| 2122045 Orig                | 6     |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| 2122045 Dup                 | 22    |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| 2122055 Orig                | 6     |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| 2122055 Dup                 | < 5   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| 2122057 Orig                |       | 0.240 | < 1    | 0.016  | 10.7  | < 0.1 | < 1   | 0.032  | 0.96  | 1.43  | 0.45  | 0.09  | 0.13  | 2.2   | 64    | 121   | 182     | 2.17   | 11.2  | 36.5  | 42.8     | 76.1  | 11.6  |
| 2122057 Dup                 |       | 0.243 | < 1    | 0.009  | 10.9  | < 0.1 | < 1   | 0.031  | 0.98  | 1.45  | 0.46  | 0.10  | 0.13  | 2.3   | 64    | 122   | 185     | 2.21   | 11.6  | 36.3  | 43.4     | 75.7  | 12.1  |
| 2122065 Orig                | < 5   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| 2122065 Dup                 | < 5   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| 2122070 Orig                |       | 0.156 | < 1    | 0.015  | 21.3  | 0.2   | 2     | 0.044  | 0.71  | 2.38  | 0.07  | 0.26  | 0.32  | 4.0   | 81    | 58    | 492     | 6.15   | 11.2  | 40.0  | 62.8     | 30.1  | 9.51  |
| 2122070 Dup                 |       | 0.158 | < 1    | 0.014  | 21.1  | 0.2   | 2     | 0.045  | 0.73  | 2.46  | 0.07  | 0.26  | 0.32  | 3.6   | 82    | 57    | 487     | 6.22   | 11.3  | 40.0  | 63.4     | 31.6  | 10.4  |
| 2122072 Orig                | < 5   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| 2122072 Dup                 | < 5   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| Method Blank                | < 5   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |
| Method Blank                | < 5   |       |        |        |       |       |       |        |       |       |       |       |       |       |       |       |         |        |       |       |          |       |       |

| Analyte Symbol | Au    | Ti      | S     | P       | Li    | Be    | B     | Na      | Mg     | Al     | K      | Bi     | Ca     | Sc    | V     | Cr    | Mn    | Fe     | Co    | Ni    | Cu     | Zn    | Ga     |
|----------------|-------|---------|-------|---------|-------|-------|-------|---------|--------|--------|--------|--------|--------|-------|-------|-------|-------|--------|-------|-------|--------|-------|--------|
| Unit Symbol    | ppb   | %       | %     | %       | ppm   | ppm   | ppm   | %       | %      | %      | %      | ppm    | %      | ppm   | ppm   | ppm   | ppm   | %      | ppm   | ppm   | ppm    | ppm   | ppm    |
| Lower Limit    | 5     | 0.001   | 1     | 0.001   | 0.1   | 0.1   | 1     | 0.001   | 0.01   | 0.01   | 0.01   | 0.02   | 0.01   | 0.1   | 1     | 1     | 1     | 0.01   | 0.1   | 0.1   | 0.01   | 0.1   | 0.02   |
| Method Code    | 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  |
| Method Blank   | < 5   |         |       |         |       |       |       |         |        |        |        |        |        |       |       |       |       |        |       |       |        |       |        |
| Method Blank   | < 5   |         |       |         |       |       |       |         |        |        |        |        |        |       |       |       |       |        |       |       |        |       |        |
| Method Blank   | < 5   |         |       |         |       |       |       |         |        |        |        |        |        |       |       |       |       |        |       |       |        |       |        |
| Method Blank   |       | < 0.001 | < 1   | < 0.001 | < 0.1 | < 0.1 | < 1   | < 0.001 | < 0.01 | < 0.01 | < 0.01 | < 0.02 | < 0.01 | < 0.1 | < 1   | < 1   | < 1   | < 0.01 | < 0.1 | < 0.1 | < 0.01 | < 0.1 | < 0.02 |
| Method Blank   |       | < 0.001 | < 1   | < 0.001 | < 0.1 | < 0.1 | < 1   | < 0.001 | < 0.01 | < 0.01 | < 0.01 | < 0.02 | < 0.01 | < 0.1 | < 1   | < 1   | < 1   | < 0.01 | < 0.1 | < 0.1 | < 0.01 | < 0.1 | < 0.02 |

QC

| Analyte Symbol              | Ge    | As    | Rb    | Sr    | Y     | Zr    | Nb    | Mo    | Ag    | In     | Sn    | Sb    | Te     | Cs    | Ba    | La    | Ce    | Cd    | Pr    | Nd    | Sm    | Se    | Eu    |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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   |
| Lower Limit                 | 0.1   | 0.1   | 0.1   | 0.5   | 0.01  | 0.1   | 0.1   | 0.01  | 0.002 | 0.02   | 0.05  | 0.02  | 0.02   | 0.02  | 0.5   | 0.5   | 0.01  | 0.01  | 0.1   | 0.02  | 0.1   | 0.1   | 0.1   |
| Method Code                 | 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                  |       | 435   | 2.0   | 196   | 26.0  | 9.8   | < 0.1 | 18.2  | 33.4  | 0.64   | 22.6  | 85.3  | 13.9   | 2.53  | 376   | 5.4   | 11.7  | 2.51  |       | 6.13  | 2.2   | 13.8  | 0.5   |
| GXR-1 Cert                  |       | 427   | 14.0  | 275   | 32.0  | 38.0  | 0.800 | 18.0  | 31.0  | 0.770  | 54.0  | 122   | 13.0   | 3.00  | 750   | 7.50  | 17.0  | 3.30  |       | 18.0  | 2.70  | 16.6  | 0.690 |
| DH-1a Meas                  |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| DH-1a Cert                  |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| GXR-4 Meas                  |       | 96.0  | 87.7  | 71.3  | 10.7  | 8.4   | 0.2   | 305   | 3.16  | 0.16   | 5.12  | 3.50  | 0.90   | 2.12  | 32.2  | 46.1  | 89.0  | 0.32  |       | 34.2  | 5.2   | 6.2   | 1.2   |
| GXR-4 Cert                  |       | 98.0  | 160   | 221   | 14.0  | 186   | 10.0  | 310   | 4.00  | 0.270  | 5.60  | 4.80  | 0.970  | 2.80  | 1640  | 64.5  | 102   | 0.860 |       | 45.0  | 6.60  | 5.60  | 1.63  |
| GXR-6 Meas                  |       | 245   | 61.9  | 30.6  | 6.29  | 11.9  | < 0.1 | 1.66  | 0.193 | 0.05   | 1.03  | 1.89  | 0.03   | 3.47  | 1000  | 10.9  | 31.2  | 0.12  |       | 11.2  | 2.2   | 0.6   | 0.6   |
| GXR-6 Cert                  |       | 330   | 90.0  | 35.0  | 14.0  | 110   | 7.50  | 2.40  | 1.30  | 0.260  | 1.70  | 3.60  | 0.0180 | 4.20  | 1300  | 13.9  | 36.0  | 1.00  |       | 13.0  | 2.67  | 0.940 | 0.760 |
| SAR-M (U.S.G.S.) Meas       |       | 37.2  | 22.6  | 29.0  | 18.6  |       | 3.5   | 12.6  | 3.16  | 0.97   | 1.70  | 3.99  | 0.89   |       | 187   | 45.6  | 97.0  | 5.38  |       |       |       | 2.1   |       |
| SAR-M (U.S.G.S.) Cert       |       | 38.8  | 146   | 151   | 28.00 |       | 29.9  | 13.1  | 3.64  | 1.08   | 2.76  | 6.0   | 0.96   |       | 801   | 57.4  | 122.0 | 5.27  |       |       |       | 0.39  |       |
| OREAS 45d (Aqua Regia) Meas |       | 5.6   | 24.7  | 13.7  | 4.66  |       |       |       |       | 0.08   | 1.79  |       |        |       | 94.4  | 11.9  | 27.5  |       |       |       |       |       |       |
| OREAS 45d (Aqua Regia) Cert |       | 6.50  | 20.9  | 11.0  | 5.08  |       |       |       |       | 0.085  | 1.950 |       |        |       | 80    | 9.960 | 24.8  |       |       |       |       |       |       |
| OxD108 Meas                 |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| OxD108 Cert                 |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| OxD108 Meas                 |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| OxD108 Cert                 |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| OxD108 Meas                 |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| OxD108 Cert                 |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| SE68 Meas                   |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| SE68 Cert                   |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| SE68 Meas                   |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| SE68 Cert                   |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| SE68 Meas                   |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| SE68 Cert                   |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| 2122010 Orig                |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| 2122010 Dup                 |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| 2122020 Orig                |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| 2122020 Dup                 |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| 2122023 Orig                | 0.1   | 3.8   | 16.4  | 16.4  | 2.82  | 5.2   | 3.1   | 0.81  | 0.034 | < 0.02 | 0.68  | 0.10  | 0.02   | 2.88  | 51.1  | 8.1   | 16.9  | 0.13  | 1.9   | 6.72  | 1.2   | 0.5   | 0.2   |
| 2122023 Dup                 | < 0.1 | 3.9   | 16.8  | 16.2  | 3.03  | 5.6   | 3.1   | 0.63  | 0.030 | 0.03   | 0.69  | 0.07  | < 0.02 | 2.76  | 49.9  | 8.8   | 18.0  | 0.18  | 1.9   | 7.07  | 1.2   | 0.4   | 0.2   |
| 2122030 Orig                |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| 2122030 Dup                 |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| 2122045 Orig                |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| 2122045 Dup                 |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| 2122055 Orig                |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |
| 2122055 Dup                 |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |       |       |

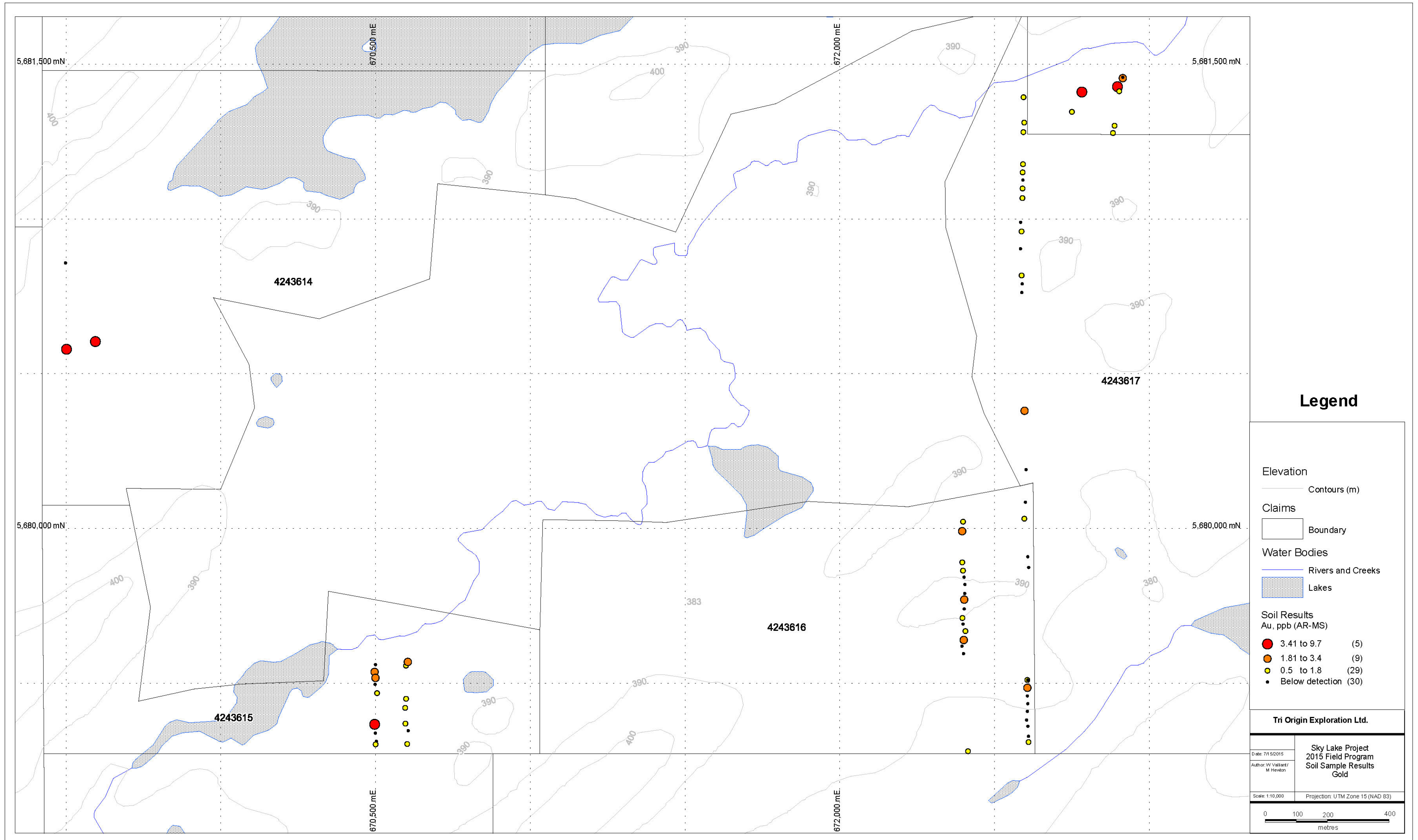
| Analyte Symbol | Ge    | As    | Rb    | Sr    | Y      | Zr    | Nb    | Mo     | Ag      | In     | Sn     | Sb     | Te     | Cs     | Ba    | La    | Ce     | Cd     | Pr    | Nd     | Sm    | Se    | Eu    |
|----------------|-------|-------|-------|-------|--------|-------|-------|--------|---------|--------|--------|--------|--------|--------|-------|-------|--------|--------|-------|--------|-------|-------|-------|
| 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   |
| Lower Limit    | 0.1   | 0.1   | 0.1   | 0.5   | 0.01   | 0.1   | 0.1   | 0.01   | 0.002   | 0.02   | 0.05   | 0.02   | 0.02   | 0.02   | 0.5   | 0.5   | 0.01   | 0.01   | 0.1   | 0.02   | 0.1   | 0.1   | 0.1   |
| Method Code    | 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 |
| 2122057 Orig   | < 0.1 | 1.3   | 16.1  | 15.7  | 1.72   | 4.5   | 2.1   | 0.44   | 0.049   | < 0.02 | 0.53   | 0.10   | < 0.02 | 0.94   | 260   | 4.5   | 8.94   | 0.09   | 0.9   | 3.56   | 0.6   | 0.5   | 0.2   |
| 2122057 Dup    | < 0.1 | 1.4   | 16.6  | 15.5  | 1.54   | 4.5   | 2.2   | 0.46   | 0.027   | < 0.02 | 0.62   | 0.09   | 0.03   | 0.86   | 264   | 4.5   | 8.80   | 0.08   | 0.9   | 3.18   | 0.6   | 0.2   | 0.2   |
| 2122065 Orig   |       |       |       |       |        |       |       |        |         |        |        |        |        |        |       |       |        |        |       |        |       |       |       |
| 2122065 Dup    |       |       |       |       |        |       |       |        |         |        |        |        |        |        |       |       |        |        |       |        |       |       |       |
| 2122070 Orig   | < 0.1 | 29.6  | 8.6   | 9.9   | 3.29   | 6.6   | 1.6   | 1.08   | 0.023   | 0.02   | 0.65   | 0.14   | 0.05   | 7.08   | 77.9  | 8.1   | 16.3   | 0.08   | 1.8   | 6.77   | 1.3   | 0.6   | 0.3   |
| 2122070 Dup    | < 0.1 | 30.7  | 7.7   | 10.0  | 3.36   | 6.7   | 1.7   | 1.02   | 0.019   | 0.03   | 0.61   | 0.16   | 0.08   | 7.47   | 78.0  | 8.1   | 16.6   | 0.07   | 1.8   | 6.64   | 1.1   | 0.5   | 0.3   |
| 2122072 Orig   |       |       |       |       |        |       |       |        |         |        |        |        |        |        |       |       |        |        |       |        |       |       |       |
| 2122072 Dup    |       |       |       |       |        |       |       |        |         |        |        |        |        |        |       |       |        |        |       |        |       |       |       |
| Method Blank   |       |       |       |       |        |       |       |        |         |        |        |        |        |        |       |       |        |        |       |        |       |       |       |
| Method Blank   |       |       |       |       |        |       |       |        |         |        |        |        |        |        |       |       |        |        |       |        |       |       |       |
| Method Blank   |       |       |       |       |        |       |       |        |         |        |        |        |        |        |       |       |        |        |       |        |       |       |       |
| Method Blank   |       |       |       |       |        |       |       |        |         |        |        |        |        |        |       |       |        |        |       |        |       |       |       |
| Method Blank   | < 0.1 | < 0.1 | < 0.1 | < 0.5 | < 0.01 | < 0.1 | < 0.1 | < 0.01 | < 0.002 | < 0.02 | < 0.05 | < 0.02 | < 0.02 | < 0.02 | < 0.5 | < 0.5 | < 0.01 | < 0.01 | < 0.1 | < 0.02 | < 0.1 | < 0.1 | < 0.1 |
| Method Blank   | < 0.1 | < 0.1 | < 0.1 | < 0.5 | < 0.01 | < 0.1 | < 0.1 | < 0.01 | < 0.002 | < 0.02 | < 0.05 | < 0.02 | < 0.02 | < 0.02 | < 0.5 | < 0.5 | < 0.01 | < 0.01 | < 0.1 | < 0.02 | < 0.1 | < 0.1 | < 0.1 |

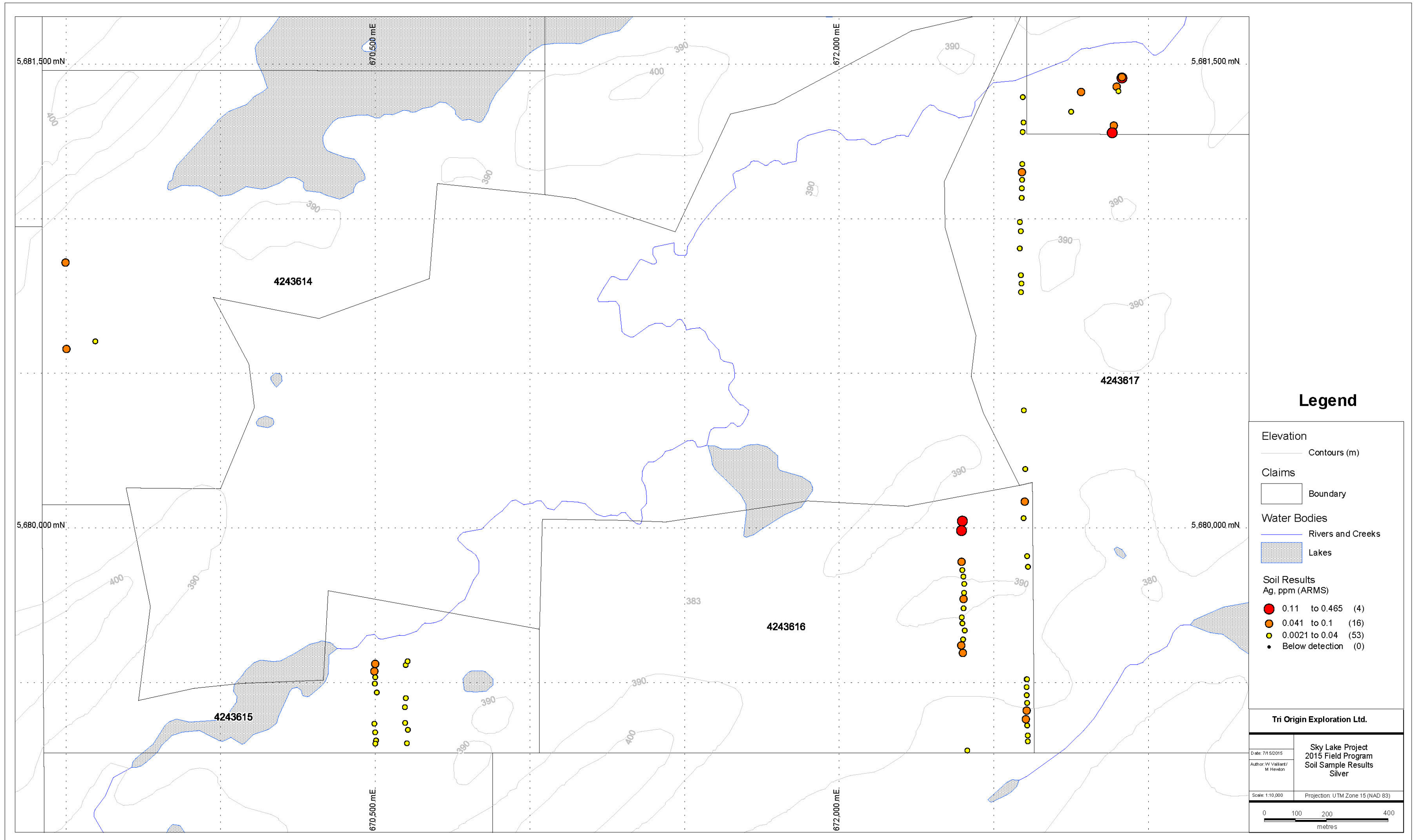
QC

| Analyte Symbol              | Gd    | Tb    | Dy    | Ho    | Er    | Tm    | Yb    | Lu    | Hf    | Ta     | W     | Re    | Au    | Tl    | Pb    | Th    | U     | Hg    |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol                 | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm    | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppb   |
| Lower Limit                 | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.05   | 0.1   | 0.001 | 0.5   | 0.02  | 0.01  | 0.1   | 0.1   | 10    |
| Method Code                 | 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                  | 3.4   | 0.6   | 3.5   |       |       | 0.4   | 2.1   | 0.3   | 0.2   | < 0.05 | 144   |       | 3470  | 0.38  | 680   | 2.3   | 31.9  | 4020  |
| GXR-1 Cert                  | 4.20  | 0.830 | 4.30  |       |       | 0.430 | 1.90  | 0.280 | 0.960 | 0.175  | 164   |       | 3300  | 0.390 | 730   | 2.44  | 34.9  | 3900  |
| DH-1a Meas                  |       |       |       |       |       |       |       |       |       |        |       |       |       |       |       | > 200 | 2300  |       |
| DH-1a Cert                  |       |       |       |       |       |       |       |       |       |        |       |       |       |       |       | 910   | 2629  |       |
| GXR-4 Meas                  | 3.8   | 0.5   | 1.9   |       |       | 0.1   | 0.7   | 0.1   | 0.2   | < 0.05 | 8.1   |       | 443   | 2.46  | 43.1  | 15.5  | 4.8   | 130   |
| GXR-4 Cert                  | 5.25  | 0.360 | 2.60  |       |       | 0.210 | 1.60  | 0.170 | 6.30  | 0.790  | 30.8  |       | 470   | 3.20  | 52.0  | 22.5  | 6.20  | 110   |
| GXR-6 Meas                  | 1.7   | 0.2   | 1.1   |       |       |       | 0.8   | 0.1   | 0.3   | < 0.05 | < 0.1 |       | 78.4  | 1.54  | 94.0  | 4.2   | 0.8   | 60    |
| GXR-6 Cert                  | 2.97  | 0.415 | 2.80  |       |       |       | 2.40  | 0.330 | 4.30  | 0.485  | 1.90  |       | 95.0  | 2.20  | 101   | 5.30  | 1.54  | 68.0  |
| SAR-M (U.S.G.S.) Meas       |       |       |       |       |       |       |       |       |       |        | 4.0   |       |       | 0.81  | 905   | 11.4  | 2.1   |       |
| SAR-M (U.S.G.S.) Cert       |       |       |       |       |       |       |       |       |       |        | 9.78  |       |       | 2.7   | 982   | 17.2  | 3.57  |       |
| OREAS 45d (Aqua Regia) Meas |       |       |       |       |       |       |       |       |       |        |       |       |       |       | 16.2  | 12.0  | 1.6   |       |
| OREAS 45d (Aqua Regia) Cert |       |       |       |       |       |       |       |       |       |        |       |       |       |       | 17.00 | 11.3  | 1.64  |       |
| OxD108 Meas                 |       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |
| OxD108 Cert                 |       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |
| OxD108 Meas                 |       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |
| OxD108 Cert                 |       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |
| OxD108 Meas                 |       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |
| OxD108 Cert                 |       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |
| SE68 Meas                   |       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |
| SE68 Cert                   |       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |
| SE68 Meas                   |       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |
| SE68 Cert                   |       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |
| SE68 Meas                   |       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |
| SE68 Cert                   |       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |

| Analyte Symbol | Gd    | Tb    | Dy    | Ho    | Er    | Tm    | Yb    | Lu    | Hf    | Ta     | W     | Re      | Au    | Tl     | Pb     | Th    | U     | Hg    |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|---------|-------|--------|--------|-------|-------|-------|
| Unit Symbol    | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm    | ppm   | ppm     | ppb   | ppm    | ppm    | ppm   | ppm   | ppb   |
| Lower Limit    | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.05   | 0.1   | 0.001   | 0.5   | 0.02   | 0.01   | 0.1   | 0.1   | 10    |
| Method Code    | 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 |
| 2122010 Orig   |       |       |       |       |       |       |       |       |       |        |       |         |       |        |        |       |       |       |
| 2122010 Dup    |       |       |       |       |       |       |       |       |       |        |       |         |       |        |        |       |       |       |
| 2122020 Orig   |       |       |       |       |       |       |       |       |       |        |       |         |       |        |        |       |       |       |
| 2122020 Dup    |       |       |       |       |       |       |       |       |       |        |       |         |       |        |        |       |       |       |
| 2122023 Orig   | 1.0   | 0.1   | 0.5   | 0.1   | 0.2   | < 0.1 | 0.3   | < 0.1 | 0.1   | < 0.05 | 0.2   | < 0.001 | 0.5   | 0.10   | 6.64   | 2.5   | 0.4   | 30    |
| 2122023 Dup    | 0.9   | 0.1   | 0.5   | 0.1   | 0.3   | < 0.1 | 0.3   | < 0.1 | 0.1   | < 0.05 | 1.1   | < 0.001 | < 0.5 | 0.09   | 6.86   | 2.9   | 0.4   | 30    |
| 2122030 Orig   |       |       |       |       |       |       |       |       |       |        |       |         |       |        |        |       |       |       |
| 2122030 Dup    |       |       |       |       |       |       |       |       |       |        |       |         |       |        |        |       |       |       |
| 2122045 Orig   |       |       |       |       |       |       |       |       |       |        |       |         |       |        |        |       |       |       |
| 2122045 Dup    |       |       |       |       |       |       |       |       |       |        |       |         |       |        |        |       |       |       |
| 2122055 Orig   |       |       |       |       |       |       |       |       |       |        |       |         |       |        |        |       |       |       |
| 2122055 Dup    |       |       |       |       |       |       |       |       |       |        |       |         |       |        |        |       |       |       |
| 2122057 Orig   | 0.5   | < 0.1 | 0.3   | < 0.1 | 0.2   | < 0.1 | 0.2   | < 0.1 | 0.1   | < 0.05 | 0.1   | < 0.001 | 10.2  | 0.19   | 3.90   | 0.8   | 0.3   | < 10  |
| 2122057 Dup    | 0.5   | < 0.1 | 0.3   | < 0.1 | 0.1   | < 0.1 | 0.1   | < 0.1 | < 0.1 | < 0.05 | < 0.1 | 0.001   | 9.2   | 0.18   | 3.86   | 0.7   | 0.3   | 10    |
| 2122065 Orig   |       |       |       |       |       |       |       |       |       |        |       |         |       |        |        |       |       |       |
| 2122065 Dup    |       |       |       |       |       |       |       |       |       |        |       |         |       |        |        |       |       |       |
| 2122070 Orig   | 0.9   | 0.1   | 0.6   | 0.1   | 0.3   | < 0.1 | 0.3   | < 0.1 | 0.1   | < 0.05 | 0.3   | < 0.001 | 6.9   | 0.13   | 7.28   | 2.2   | 0.3   | 50    |
| 2122070 Dup    | 1.0   | 0.1   | 0.6   | 0.1   | 0.3   | < 0.1 | 0.4   | < 0.1 | 0.2   | < 0.05 | 0.3   | < 0.001 | 0.9   | 0.13   | 7.49   | 2.2   | 0.3   | 40    |
| 2122072 Orig   |       |       |       |       |       |       |       |       |       |        |       |         |       |        |        |       |       |       |
| 2122072 Dup    |       |       |       |       |       |       |       |       |       |        |       |         |       |        |        |       |       |       |
| Method Blank   |       |       |       |       |       |       |       |       |       |        |       |         |       |        |        |       |       |       |
| Method Blank   |       |       |       |       |       |       |       |       |       |        |       |         |       |        |        |       |       |       |
| Method Blank   |       |       |       |       |       |       |       |       |       |        |       |         |       |        |        |       |       |       |
| Method Blank   |       |       |       |       |       |       |       |       |       |        |       |         |       |        |        |       |       |       |
| Method Blank   |       |       |       |       |       |       |       |       |       |        |       |         |       |        |        |       |       |       |
| Method Blank   | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.001 | < 0.5 | < 0.02 | < 0.01 | < 0.1 | < 0.1 | < 10  |
| Method Blank   | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.001 | < 0.5 | < 0.02 | < 0.01 | < 0.1 | < 0.1 | < 10  |

APPENDIX E – B-horizon Mineral Soil Geochemical Maps





## **APPENDIX F – Certificate of Analysis, humus samples**





**Date Submitted:** 08-Jun-15  
**Invoice No.:** A15-04130 (i)  
**Invoice Date:** 03-Jul-15  
**Your Reference:** SKY LAKE

TRI Origin Exploration  
125 Don Hillock Dr.  
Aurora Ontario L4G 0H8

ATTN: Senior Geologist Frank Kendle

## CERTIFICATE OF ANALYSIS

127 Humus samples were submitted for analysis.

The following analytical package was requested:

Code 2A-15g Humus INAA(INAAGEO)  
Code 2C1 Ash Aqua Regia ICP(AQUAJA)

REPORT **A15-04130 (i)**

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:

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Esemé". The signature is written over a horizontal line.

Emmanuel Esemé , Ph.D.  
Quality Control



Results

| Analyte Symbol | Au   | Ag   | As   | Ba    | Br   | Ca    | Co   | Cr   | Cs    | Fe   | Hf    | Hg    | Ir   | Mo    | Na    | Ni   | Rb   | Sb    | Sc   | Se   | Sr    | Ta    | Th    |
|----------------|------|------|------|-------|------|-------|------|------|-------|------|-------|-------|------|-------|-------|------|------|-------|------|------|-------|-------|-------|
| Unit Symbol    | ppb  | ppm  | ppm  | ppm   | ppm  | %     | ppm  | ppm  | ppm   | %    | ppm   | ppm   | ppb  | ppm   | ppm   | ppm  | ppm  | ppm   | ppm  | ppm  | ppm   | ppm   | ppm   |
| Lower Limit    | 1    | 2    | 1    | 100   | 1    | 0.5   | 1    | 1    | 0.5   | 0.05 | 0.5   | 0.5   | 5    | 0.5   | 100   | 10   | 20   | 0.1   | 0.1  | 2    | 100   | 0.5   | 0.5   |
| Method Code    | INAA | INAA | INAA | INAA  | INAA | INAA  | INAA | INAA | INAA  | INAA | INAA  | INAA  | INAA | INAA  | INAA  | INAA | INAA | INAA  | INAA | INAA | INAA  | INAA  | INAA  |
| 2121001        | < 1  | < 2  | 1    | < 100 | 14   | 2.8   | 5    | 10   | < 0.5 | 0.32 | < 0.5 | < 0.5 | < 5  | 1.5   | 1000  | < 10 | < 20 | 0.1   | 1.1  | < 2  | < 100 | < 0.5 | 0.9   |
| 2121002        | < 1  | < 2  | 1    | < 100 | 10   | 2.6   | 1    | 5    | < 0.5 | 0.18 | < 0.5 | < 0.5 | < 5  | 1.4   | 200   | < 10 | < 20 | 0.1   | 0.4  | < 2  | < 100 | < 0.5 | 0.5   |
| 2121003        | < 1  | < 2  | 1    | < 100 | 6    | 1.8   | 4    | 4    | < 0.5 | 0.34 | < 0.5 | < 0.5 | < 5  | < 0.5 | 100   | < 10 | < 20 | 0.1   | 0.4  | < 2  | < 100 | < 0.5 | 0.5   |
| 2121004        | < 1  | < 2  | 6    | 100   | 1    | 0.6   | 5    | 32   | < 0.5 | 1.40 | 2.8   | < 0.5 | < 5  | < 0.5 | 5000  | < 10 | < 20 | 0.2   | 6.3  | < 2  | < 100 | < 0.5 | 1.2   |
| 2121005        | < 1  | < 2  | 3    | 100   | 6    | < 0.5 | 4    | 19   | 1.5   | 0.60 | 1.0   | < 0.5 | < 5  | < 0.5 | 2400  | < 10 | < 20 | 0.1   | 2.2  | < 2  | < 100 | < 0.5 | 1.3   |
| 2121006        | < 1  | < 2  | 3    | 100   | 5    | < 0.5 | 7    | 24   | 1.7   | 0.98 | 1.4   | < 0.5 | < 5  | < 0.5 | 4200  | < 10 | < 20 | 0.2   | 4.5  | < 2  | < 100 | < 0.5 | 1.9   |
| 2121007        | < 1  | < 2  | 1    | < 100 | 16   | 3.3   | 6    | 9    | < 0.5 | 0.21 | < 0.5 | < 0.5 | < 5  | 1.4   | 600   | < 10 | < 20 | 0.2   | 1.6  | < 2  | < 100 | < 0.5 | 1.0   |
| 2121008        | < 1  | < 2  | 1    | < 100 | 17   | 2.8   | 3    | 3    | < 0.5 | 0.11 | < 0.5 | < 0.5 | < 5  | 0.7   | 300   | < 10 | < 20 | 0.1   | 0.4  | < 2  | < 100 | < 0.5 | 0.5   |
| 2121009        | < 1  | < 2  | 1    | < 100 | 12   | 2.8   | 1    | 3    | < 0.5 | 0.29 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200   | < 10 | < 20 | 0.1   | 0.3  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121010        | < 1  | < 2  | 1    | < 100 | 19   | 2.1   | < 1  | 1    | < 0.5 | 0.08 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200   | < 10 | < 20 | 0.1   | 0.2  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121011        | < 1  | < 2  | 1    | < 100 | 12   | 1.5   | 1    | 1    | < 0.5 | 0.10 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200   | < 10 | < 20 | 0.1   | 0.3  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121012        | < 1  | < 2  | 2    | < 100 | 10   | 1.8   | 1    | 2    | < 0.5 | 0.19 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200   | < 10 | < 20 | 0.1   | 0.3  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121013        | < 1  | < 2  | 2    | < 100 | 9    | 1.6   | 2    | 2    | < 0.5 | 0.20 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200   | < 10 | < 20 | 0.1   | 0.2  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121014        | < 1  | < 2  | 1    | < 100 | 9    | 1.5   | 2    | 1    | < 0.5 | 0.15 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200   | < 10 | < 20 | < 0.1 | 0.2  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121015        | < 1  | < 2  | 2    | < 100 | 11   | 1.6   | 2    | 2    | < 0.5 | 0.34 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200   | < 10 | < 20 | 0.1   | 0.3  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121016        | < 1  | < 2  | 1    | 100   | 11   | 0.6   | < 1  | 7    | 1.1   | 0.20 | 0.5   | < 0.5 | < 5  | 0.8   | 3600  | < 10 | 30   | 0.1   | 0.5  | < 2  | < 100 | < 0.5 | 1.5   |
| 2121017        | < 1  | < 2  | 2    | < 100 | 9    | 2.0   | 2    | 5    | < 0.5 | 0.28 | < 0.5 | < 0.5 | < 5  | < 0.5 | 300   | < 10 | < 20 | 0.2   | 0.7  | < 2  | < 100 | < 0.5 | 0.9   |
| 2121018        | < 1  | < 2  | 2    | < 100 | 12   | 1.6   | < 1  | 5    | < 0.5 | 0.37 | < 0.5 | < 0.5 | < 5  | 1.2   | 500   | < 10 | < 20 | 0.1   | 1.4  | < 2  | < 100 | < 0.5 | 1.8   |
| 2121019        | < 1  | < 2  | 4    | < 100 | 13   | 1.8   | 6    | 7    | 1.0   | 0.54 | < 0.5 | < 0.5 | < 5  | 2.1   | 500   | < 10 | < 20 | 0.1   | 2.0  | < 2  | < 100 | < 0.5 | 2.5   |
| 2121020        | < 1  | < 2  | 2    | < 100 | 13   | 1.8   | 3    | 5    | < 0.5 | 0.37 | < 0.5 | < 0.5 | < 5  | 0.9   | 300   | < 10 | < 20 | 0.1   | 0.8  | < 2  | < 100 | < 0.5 | 1.0   |
| 2121021        | < 1  | < 2  | 2    | < 100 | 18   | 1.6   | 2    | 3    | < 0.5 | 0.21 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200   | < 10 | < 20 | < 0.1 | 0.4  | < 2  | < 100 | < 0.5 | 0.5   |
| 2121022        | < 1  | < 2  | 2    | 200   | 10   | 2.8   | 9    | 25   | 0.6   | 1.01 | 1.2   | < 0.5 | < 5  | < 0.5 | 6200  | < 10 | < 20 | 0.2   | 3.4  | < 2  | < 100 | < 0.5 | 2.2   |
| 2121023        | < 1  | < 2  | 2    | 200   | 6    | < 0.5 | 2    | 16   | 2.4   | 0.59 | 2.4   | < 0.5 | < 5  | 0.5   | 1800  | < 10 | < 20 | 0.2   | 2.2  | < 2  | < 100 | < 0.5 | 1.9   |
| 2121024        | < 1  | < 2  | 2    | < 100 | 1    | 5.0   | 29   | 90   | < 0.5 | 3.64 | 2.7   | < 0.5 | < 5  | < 0.5 | 6200  | < 10 | < 20 | 0.2   | 17.7 | < 2  | < 100 | < 0.5 | 1.7   |
| 2121025        | < 1  | < 2  | 2    | < 100 | 7    | < 0.5 | 7    | 15   | < 0.5 | 0.81 | 0.6   | < 0.5 | < 5  | < 0.5 | 1000  | < 10 | < 20 | 0.3   | 2.8  | < 2  | < 100 | < 0.5 | 0.8   |
| 2121026        | < 1  | < 2  | 2    | < 100 | 9    | < 0.5 | 8    | 10   | < 0.5 | 0.64 | < 0.5 | < 0.5 | < 5  | < 0.5 | 700   | < 10 | < 20 | 0.3   | 2.1  | < 2  | < 100 | < 0.5 | 0.6   |
| 2121027        | < 1  | < 2  | 2    | < 100 | 3    | 2.0   | 29   | 161  | < 0.5 | 2.83 | 2.6   | < 0.5 | < 5  | < 0.5 | 5600  | < 10 | < 20 | 0.3   | 15.4 | < 2  | < 100 | < 0.5 | 1.9   |
| 2121028        | < 1  | < 2  | 2    | 100   | 5    | < 0.5 | 5    | 16   | < 0.5 | 0.45 | 1.2   | < 0.5 | < 5  | < 0.5 | 1700  | < 10 | < 20 | 0.4   | 1.9  | < 2  | < 100 | < 0.5 | 1.1   |
| 2121029        | < 1  | < 2  | 1    | < 100 | 3    | < 0.5 | 3    | 9    | 1.0   | 0.31 | 0.5   | < 0.5 | < 5  | < 0.5 | 800   | < 10 | < 20 | 0.3   | 1.3  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121030        | < 1  | < 2  | 2    | < 100 | 7    | 1.4   | 3    | 5    | < 0.5 | 1.64 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200   | < 10 | < 20 | < 0.1 | 0.7  | < 2  | < 100 | < 0.5 | 0.6   |
| 2121031        | < 1  | < 2  | 1    | < 100 | 8    | 1.6   | 3    | 9    | < 0.5 | 0.25 | < 0.5 | < 0.5 | < 5  | < 0.5 | 1000  | < 10 | < 20 | 0.1   | 1.2  | < 2  | < 100 | < 0.5 | 0.7   |
| 2121032        | < 1  | < 2  | 14   | 200   | 10   | 1.7   | 13   | 4    | < 0.5 | 1.57 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200   | < 10 | < 20 | 0.1   | 0.3  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121033        | < 1  | < 2  | 2    | 100   | 20   | 3.3   | 5    | 10   | < 0.5 | 0.39 | 0.5   | < 0.5 | < 5  | 1.2   | 1700  | < 10 | < 20 | 0.1   | 1.4  | < 2  | < 100 | < 0.5 | 0.8   |
| 2121034        | < 1  | < 2  | 12   | 100   | 13   | 2.6   | 10   | 8    | < 0.5 | 1.73 | < 0.5 | < 0.5 | < 5  | < 0.5 | 400   | < 10 | < 20 | 0.1   | 1.2  | < 2  | < 100 | < 0.5 | 1.6   |
| 2121035        | < 1  | < 2  | 2    | 100   | 11   | 1.2   | 5    | 12   | < 0.5 | 0.52 | 0.7   | < 0.5 | < 5  | 0.5   | 4100  | < 10 | < 20 | 0.1   | 2.2  | < 2  | < 100 | < 0.5 | 1.4   |
| 2121036        | < 1  | < 2  | 1    | 200   | 2    | 1.4   | 5    | 25   | 0.7   | 0.77 | 2.1   | < 0.5 | < 5  | < 0.5 | 7500  | < 10 | 20   | 0.1   | 3.1  | < 2  | < 100 | < 0.5 | 1.4   |
| 2121037        | < 1  | < 2  | 1    | < 100 | 11   | 2.5   | 2    | 6    | < 0.5 | 0.22 | < 0.5 | < 0.5 | < 5  | 1.2   | 1000  | < 10 | < 20 | 0.1   | 0.7  | < 2  | < 100 | < 0.5 | 0.5   |
| 2121038        | < 1  | < 2  | 1    | < 100 | 5    | 0.8   | 1    | 7    | 0.5   | 0.23 | 0.5   | < 0.5 | < 5  | < 0.5 | 2200  | < 10 | < 20 | 0.1   | 1.2  | < 2  | < 100 | < 0.5 | 0.9   |
| 2121039        | < 1  | < 2  | 1    | < 100 | 12   | 3.1   | 7    | 33   | < 0.5 | 0.66 | 0.5   | < 0.5 | < 5  | 1.2   | 2000  | < 10 | < 20 | 0.1   | 2.8  | < 2  | < 100 | < 0.5 | 1.0   |
| 2121040        | < 1  | < 2  | < 1  | 100   | 9    | 2.7   | 5    | 17   | 0.5   | 0.59 | 1.3   | < 0.5 | < 5  | 0.7   | 5100  | < 10 | < 20 | 0.1   | 2.0  | < 2  | < 100 | < 0.5 | 1.2   |
| 2121041        | < 1  | < 2  | 1    | 300   | 4    | 1.7   | 7    | 26   | < 0.5 | 0.74 | 1.7   | < 0.5 | < 5  | < 0.5 | 10100 | < 10 | < 20 | 0.1   | 2.6  | < 2  | < 100 | < 0.5 | 2.4   |
| 2121042        | < 1  | < 2  | 1    | 100   | 9    | 3.2   | 11   | 46   | 1.2   | 0.95 | 1.2   | < 0.5 | < 5  | 0.8   | 4300  | < 10 | < 20 | 0.1   | 3.7  | < 2  | < 100 | < 0.5 | 1.7   |
| 2121043        | < 1  | < 2  | 1    | < 100 | 12   | 3.0   | 2    | 6    | < 0.5 | 0.15 | < 0.5 | < 0.5 | < 5  | 4.1   | 500   | < 10 | < 20 | 0.1   | 0.4  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121044        | < 1  | < 2  | 1    | < 100 | 12   | 2.1   | 1    | 3    | < 0.5 | 0.20 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200   | < 10 | < 20 | < 0.1 | 0.2  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121045        | < 1  | < 2  | 1    | < 100 | 10   | 1.5   | 1    | 2    | < 0.5 | 0.15 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200   | < 10 | < 20 | 0.1   | 0.2  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121046        | < 1  | < 2  | 2    | 200   | 7    | 1.1   | 22   | 26   | 0.8   | 0.74 | 0.9   | < 0.5 | < 5  | < 0.5 | 6200  | < 10 | < 20 | 0.1   | 4.8  | < 2  | < 100 | < 0.5 | 4.2   |
| 2121047        | < 1  | < 2  | 2    | < 100 | 9    | 1.9   | 7    | 8    | < 0.5 | 0.45 | < 0.5 | < 0.5 | < 5  | < 0.5 | 1500  | < 10 | < 20 | 0.1   | 1.7  | < 2  | < 100 | < 0.5 | 1.6   |
| 2121048        | < 1  | < 2  | 1    | < 100 | 10   | 2.4   | 4    | 6    | < 0.5 | 0.34 | < 0.5 | < 0.5 | < 5  | < 0.5 | 1600  | < 10 | < 20 | 0.2   | 1.1  | < 2  | < 100 | < 0.5 | 0.9   |
| 2121049        | < 1  | < 2  | 1    | < 100 | 13   | 3.3   | 2    | 3    | < 0.5 | 0.14 | < 0.5 | < 0.5 | < 5  | 1.4   | 300   | < 10 | < 20 | 0.1   | 0.4  | < 2  | < 100 | < 0.5 | 0.5   |

| Analyte Symbol | Au   | Ag   | As   | Ba    | Br   | Ca    | Co   | Cr   | Cs    | Fe     | Hf    | Hg    | Ir   | Mo    | Na   | Ni   | Rb   | Sb    | Sc   | Se   | Sr    | Ta    | Th    |
|----------------|------|------|------|-------|------|-------|------|------|-------|--------|-------|-------|------|-------|------|------|------|-------|------|------|-------|-------|-------|
| Unit Symbol    | ppb  | ppm  | ppm  | ppm   | ppm  | %     | ppm  | ppm  | ppm   | %      | ppm   | ppm   | ppb  | ppm   | ppm  | ppm  | ppm  | ppm   | ppm  | ppm  | ppm   | ppm   | ppm   |
| Lower Limit    | 1    | 2    | 1    | 100   | 1    | 0.5   | 1    | 1    | 0.5   | 0.05   | 0.5   | 0.5   | 5    | 0.5   | 100  | 10   | 20   | 0.1   | 0.1  | 2    | 100   | 0.5   | 0.5   |
| Method Code    | INAA | INAA | INAA | INAA  | INAA | INAA  | INAA | INAA | INAA  | INAA   | INAA  | INAA  | INAA | INAA  | INAA | INAA | INAA | INAA  | INAA | INAA | INAA  | INAA  | INAA  |
| 2121050        | < 1  | < 2  | 1    | < 100 | 11   | 2.8   | 1    | 3    | < 0.5 | 0.12   | < 0.5 | < 0.5 | < 5  | 1.6   | 200  | < 10 | < 20 | 0.2   | 0.3  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121051        | < 1  | < 2  | 1    | < 100 | 7    | 2.1   | 1    | 1    | < 0.5 | 0.08   | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.1   | 0.2  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121052        | < 1  | < 2  | 1    | < 100 | 8    | 2.3   | 3    | 9    | < 0.5 | 0.33   | < 0.5 | < 0.5 | < 5  | < 0.5 | 1500 | < 10 | < 20 | 0.1   | 1.2  | < 2  | < 100 | < 0.5 | 0.9   |
| 2121053        | < 1  | < 2  | 1    | < 100 | 5    | 1.0   | 1    | 4    | < 0.5 | 0.14   | < 0.5 | < 0.5 | < 5  | < 0.5 | 500  | < 10 | < 20 | 0.1   | 0.6  | < 2  | < 100 | < 0.5 | 0.5   |
| 2121054        | < 1  | < 2  | 1    | < 100 | 5    | 1.6   | 1    | 3    | < 0.5 | 0.11   | < 0.5 | < 0.5 | < 5  | 1.5   | 300  | < 10 | < 20 | 0.1   | 0.4  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121055        | < 1  | < 2  | 2    | 100   | 15   | 2.3   | 8    | 12   | < 0.5 | 0.51   | < 0.5 | < 0.5 | < 5  | 2.1   | 200  | < 10 | < 20 | 0.1   | 1.2  | < 2  | < 100 | < 0.5 | 1.1   |
| 2121056        | < 1  | < 2  | 1    | < 100 | 18   | 1.9   | 4    | 2    | < 0.5 | 0.23   | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.1   | 0.3  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121057        | < 1  | < 2  | 1    | < 100 | 13   | 2.1   | 3    | 4    | < 0.5 | 0.29   | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.1   | 0.4  | < 2  | < 100 | < 0.5 | 0.5   |
| 2121058        | < 1  | < 2  | 1    | < 100 | 9    | 1.8   | 2    | 2    | < 0.5 | 0.31   | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | < 0.1 | 0.3  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121059        | < 1  | < 2  | 3    | < 100 | 8    | 1.9   | 4    | 1    | < 0.5 | 0.24   | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.1   | 0.3  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121060        | < 1  | < 2  | 3    | < 100 | 6    | 2.0   | 2    | 3    | < 0.5 | 0.31   | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.1   | 0.6  | < 2  | < 100 | < 0.5 | 0.6   |
| 2121061        | < 1  | < 2  | 1    | < 100 | 6    | 1.6   | 2    | 2    | < 0.5 | 0.21   | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.1   | 0.3  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121062        | < 1  | < 2  | 1    | < 100 | 6    | 1.1   | 2    | 3    | < 0.5 | 0.19   | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.1   | 0.4  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121063        | < 1  | < 2  | 1    | < 100 | 5    | 1.4   | 2    | 2    | < 0.5 | 0.23   | < 0.5 | < 0.5 | < 5  | < 0.5 | 300  | < 10 | < 20 | < 0.1 | 0.5  | < 2  | < 100 | < 0.5 | 0.6   |
| 2121064        | < 1  | < 2  | 1    | < 100 | 7    | 1.8   | 1    | 2    | < 0.5 | 0.26   | < 0.5 | < 0.5 | < 5  | < 0.5 | 300  | < 10 | < 20 | 0.1   | 0.4  | < 2  | < 100 | < 0.5 | 0.5   |
| 2121065        | < 1  | < 2  | 1    | < 100 | 7    | 1.1   | 2    | 2    | < 0.5 | 0.15   | < 0.5 | < 0.5 | < 5  | < 0.5 | 300  | < 10 | < 20 | 0.1   | 0.5  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121066        | 1    | < 2  | 4    | 100   | 7    | 1.8   | 6    | 12   | 1.7   | 0.72   | < 0.5 | < 0.5 | < 5  | 0.8   | 700  | < 10 | < 20 | 0.1   | 1.7  | < 2  | < 100 | < 0.5 | 1.9   |
| 2121067        | < 1  | < 2  | 1    | < 100 | 7    | 1.3   | 3    | 6    | < 0.5 | 0.20   | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.1   | 1.4  | < 2  | < 100 | < 0.5 | 0.6   |
| 2121068        | < 1  | < 2  | 1    | 300   | 3    | 1.9   | 18   | 92   | 0.9   | 1.91   | 3.6   | < 0.5 | < 5  | < 0.5 | 9200 | < 10 | < 20 | 0.2   | 9.1  | < 2  | < 100 | < 0.5 | 2.9   |
| 2121069        | 4    | < 2  | 7    | 1100  | 32   | 3.1   | 71   | 34   | < 0.5 | 6.56   | 0.8   | < 0.5 | < 5  | 2.8   | 1400 | < 10 | < 20 | 0.2   | 5.6  | < 2  | < 100 | < 0.5 | 1.2   |
| 2121070        | < 1  | < 2  | 1    | < 100 | 12   | 3.2   | 7    | 6    | < 0.5 | 0.31   | < 0.5 | < 0.5 | < 5  | < 0.5 | 300  | < 10 | < 20 | 0.2   | 1.0  | 2    | < 100 | < 0.5 | 0.5   |
| 2121071        | 3    | < 2  | 1    | < 100 | 9    | 2.2   | 13   | 10   | < 0.5 | 0.64   | < 0.5 | < 0.5 | < 5  | < 0.5 | 900  | < 10 | < 20 | 0.2   | 2.1  | < 2  | < 100 | < 0.5 | 0.9   |
| 2121072        | < 1  | < 2  | 2    | 100   | 10   | 2.8   | 26   | 35   | 1.1   | 1.49   | < 0.5 | < 0.5 | < 5  | < 0.5 | 2300 | < 10 | < 20 | 0.2   | 7.2  | < 2  | < 100 | < 0.5 | 0.5   |
| 2121073        | < 1  | < 2  | 1    | 100   | 6    | 1.5   | 5    | 5    | < 0.5 | 0.35   | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | < 0.1 | 1.6  | < 2  | < 100 | < 0.5 | 0.8   |
| 2121074        | < 1  | < 2  | 3    | < 100 | 5    | < 0.5 | 2    | 13   | < 0.5 | 0.26   | 1.2   | < 0.5 | < 5  | 0.7   | 1500 | < 10 | < 20 | 0.1   | 2.3  | < 2  | < 100 | < 0.5 | 1.5   |
| 2121075        | < 1  | < 2  | 2    | 100   | 10   | 1.5   | 7    | 22   | 0.9   | 0.79   | 1.2   | < 0.5 | < 5  | 0.5   | 3800 | < 10 | < 20 | 0.1   | 3.8  | < 2  | < 100 | < 0.5 | 2.0   |
| 2121076        | 5    | < 2  | 2    | 200   | 14   | 1.3   | 5    | 19   | 1.1   | 0.69   | 1.0   | < 0.5 | < 5  | 0.5   | 3300 | < 10 | < 20 | 0.2   | 3.2  | < 2  | < 100 | < 0.5 | 2.5   |
| 2121077        | < 1  | < 2  | 1    | < 100 | 9    | 2.0   | 2    | 7    | < 0.5 | 0.17   | < 0.5 | < 0.5 | < 5  | < 0.5 | 400  | < 10 | < 20 | 0.1   | 0.7  | < 2  | < 100 | < 0.5 | 0.5   |
| 2121078        | < 1  | < 2  | 1    | < 100 | 8    | 2.7   | 2    | 4    | < 0.5 | 0.29   | < 0.5 | < 0.5 | < 5  | 1.1   | 200  | < 10 | < 20 | 0.1   | 0.5  | < 2  | < 100 | < 0.5 | 0.5   |
| 2121079        | < 1  | < 2  | 4    | < 100 | 10   | 2.4   | 2    | 5    | < 0.5 | 0.62   | < 0.5 | < 0.5 | < 5  | < 0.5 | 400  | < 10 | < 20 | 0.1   | 0.7  | < 2  | < 100 | < 0.5 | 0.7   |
| 2121080        | < 1  | < 2  | 2    | < 100 | 11   | 1.7   | 2    | 4    | < 0.5 | 0.33   | < 0.5 | < 0.5 | < 5  | 0.6   | 600  | < 10 | < 20 | < 0.1 | 0.5  | < 2  | < 100 | < 0.5 | 0.5   |
| 2121081        | < 1  | < 2  | 1    | < 100 | 10   | 2.6   | 1    | 2    | < 0.5 | 0.27   | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.1   | 0.2  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121082        | < 1  | < 2  | 1    | < 100 | 7    | 2.2   | < 1  | 2    | < 0.5 | 0.11   | < 0.5 | < 0.5 | < 5  | < 0.5 | 300  | < 10 | < 20 | 0.1   | 0.4  | < 2  | < 100 | < 0.5 | 0.5   |
| 2121083        | < 1  | < 2  | 1    | 300   | 5    | 0.9   | 4    | 28   | 1.1   | 0.75   | 2.5   | < 0.5 | < 5  | < 0.5 | 7900 | < 10 | < 20 | 0.1   | 3.4  | < 2  | < 100 | < 0.5 | 2.6   |
| 2121084        | < 1  | < 2  | 1    | 100   | 10   | 1.8   | 19   | 13   | 1.0   | 0.43   | < 0.5 | < 0.5 | < 5  | < 0.5 | 1000 | < 10 | < 20 | 0.1   | 2.6  | < 2  | < 100 | < 0.5 | 1.1   |
| 2121085        | < 1  | < 2  | 1    | 100   | 8    | 1.0   | 5    | 15   | 0.5   | 0.70   | 0.7   | < 0.5 | < 5  | 1.0   | 1000 | < 10 | < 20 | 0.1   | 4.6  | < 2  | < 100 | < 0.5 | 0.9   |
| 2121086        | < 1  | < 2  | 1    | < 100 | 9    | 1.8   | 2    | 4    | < 0.5 | 0.41   | < 0.5 | < 0.5 | < 5  | < 0.5 | 300  | < 10 | < 20 | 0.1   | 0.9  | < 2  | < 100 | < 0.5 | 0.5   |
| 2121087        | < 1  | < 2  | < 1  | < 100 | 7    | 1.6   | 2    | 3    | < 0.5 | 0.19   | < 0.5 | < 0.5 | < 5  | 0.7   | 200  | < 10 | < 20 | < 0.1 | 0.7  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121088        | < 1  | < 2  | < 1  | < 100 | 6    | < 0.5 | 1    | 1    | < 0.5 | < 0.05 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.1   | 0.2  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121089        | < 1  | < 2  | 2    | 100   | 11   | 1.7   | 23   | 17   | < 0.5 | 0.68   | < 0.5 | < 0.5 | < 5  | < 0.5 | 400  | < 10 | < 20 | 0.1   | 2.2  | < 2  | < 100 | < 0.5 | 2.6   |
| 2121090        | < 1  | < 2  | 1    | < 100 | 6    | 1.1   | < 1  | 3    | < 0.5 | 0.14   | < 0.5 | < 0.5 | < 5  | < 0.5 | 300  | < 10 | < 20 | 0.1   | 0.5  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121091        | < 1  | < 2  | 1    | < 100 | 8    | 1.3   | 2    | 2    | < 0.5 | 0.25   | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | < 0.1 | 0.3  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121092        | < 1  | < 2  | 2    | < 100 | 12   | 1.5   | 3    | 3    | < 0.5 | 0.59   | < 0.5 | < 0.5 | < 5  | < 0.5 | 300  | < 10 | < 20 | < 0.1 | 0.3  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121093        | < 1  | < 2  | 2    | < 100 | 12   | 1.3   | 3    | 2    | < 0.5 | 0.53   | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | < 0.1 | 0.2  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121094        | < 1  | < 2  | 2    | < 100 | 12   | 1.1   | 4    | 1    | < 0.5 | 0.48   | < 0.5 | < 0.5 | < 5  | < 0.5 | 100  | < 10 | < 20 | < 0.1 | 0.2  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121095        | < 1  | < 2  | 1    | < 100 | 13   | 1.3   | 2    | 2    | < 0.5 | 0.18   | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.1   | 0.2  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121096        | < 1  | < 2  | 3    | < 100 | 9    | 1.5   | 2    | 2    | < 0.5 | 0.26   | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.2   | 0.3  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121097        | < 1  | < 2  | 1    | < 100 | 15   | 1.9   | 2    | 2    | < 0.5 | 0.31   | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.1   | 0.2  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121098        | < 1  | < 2  | 1    | < 100 | 12   | 1.7   | 1    | 2    | < 0.5 | 0.13   | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.1   | 0.2  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121099        | < 1  | < 2  | 1    | < 100 | 13   | 2.1   | < 1  | 1    | < 0.5 | 0.06   | < 0.5 | < 0.5 | < 5  | 0.5   | 200  | < 10 | < 20 | 0.1   | 0.2  | < 2  | < 100 | < 0.5 | < 0.5 |

| Analyte Symbol | Au   | Ag   | As   | Ba    | Br   | Ca    | Co   | Cr   | Cs    | Fe   | Hf    | Hg    | Ir   | Mo    | Na   | Ni   | Rb   | Sb    | Sc   | Se   | Sr    | Ta    | Th    |
|----------------|------|------|------|-------|------|-------|------|------|-------|------|-------|-------|------|-------|------|------|------|-------|------|------|-------|-------|-------|
| Unit Symbol    | ppb  | ppm  | ppm  | ppm   | ppm  | %     | ppm  | ppm  | ppm   | %    | ppm   | ppm   | ppb  | ppm   | ppm  | ppm  | ppm  | ppm   | ppm  | ppm  | ppm   | ppm   | ppm   |
| Lower Limit    | 1    | 2    | 1    | 100   | 1    | 0.5   | 1    | 1    | 0.5   | 0.05 | 0.5   | 0.5   | 5    | 0.5   | 100  | 10   | 20   | 0.1   | 0.1  | 2    | 100   | 0.5   | 0.5   |
| Method Code    | INAA | INAA | INAA | INAA  | INAA | INAA  | INAA | INAA | INAA  | INAA | INAA  | INAA  | INAA | INAA  | INAA | INAA | INAA | INAA  | INAA | INAA | INAA  | INAA  | INAA  |
| 2121100        | < 1  | < 2  | 1    | < 100 | 15   | 2.0   | 1    | 1    | < 0.5 | 0.08 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.1   | 0.3  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121101        | < 1  | < 2  | 1    | < 100 | 11   | 1.2   | < 1  | 2    | < 0.5 | 0.05 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.1   | 0.2  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121102        | < 1  | < 2  | 1    | < 100 | 9    | 1.1   | 1    | 2    | < 0.5 | 0.07 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.1   | 0.2  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121103        | < 1  | < 2  | < 1  | < 100 | 9    | 1.1   | 1    | 1    | < 0.5 | 0.07 | < 0.5 | < 0.5 | < 5  | < 0.5 | 100  | < 10 | < 20 | < 0.1 | 0.2  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121104        | < 1  | < 2  | 1    | < 100 | 14   | 1.6   | 3    | 2    | < 0.5 | 0.38 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.1   | 0.3  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121105        | < 1  | < 2  | 7    | < 100 | 14   | 1.3   | 5    | 3    | < 0.5 | 1.03 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.1   | 0.3  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121106        | < 1  | < 2  | 2    | < 100 | 12   | 1.4   | 4    | 2    | < 0.5 | 0.44 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | < 0.1 | 0.3  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121107        | < 1  | < 2  | 2    | < 100 | 10   | 1.3   | 2    | 1    | < 0.5 | 0.41 | < 0.5 | < 0.5 | < 5  | < 0.5 | 100  | < 10 | < 20 | 0.1   | 0.2  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121108        | < 1  | < 2  | 4    | < 100 | 11   | 1.4   | 4    | 6    | 1.7   | 0.71 | < 0.5 | < 0.5 | < 5  | < 0.5 | 1200 | < 10 | < 20 | 0.1   | 1.2  | < 2  | < 100 | < 0.5 | 1.4   |
| 2121109        | < 1  | < 2  | 1    | < 100 | 10   | 1.4   | 2    | 2    | < 0.5 | 0.42 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.1   | 0.3  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121110        | < 1  | < 2  | 1    | < 100 | 11   | 1.3   | 2    | 3    | < 0.5 | 0.31 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.1   | 0.2  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121111        | < 1  | < 2  | 1    | 100   | 6    | 0.5   | 5    | 6    | < 0.5 | 0.49 | < 0.5 | < 0.5 | < 5  | < 0.5 | 500  | < 10 | < 20 | 0.1   | 1.2  | < 2  | < 100 | < 0.5 | 1.1   |
| 2121112        | < 1  | < 2  | 1    | < 100 | 5    | < 0.5 | 4    | 3    | < 0.5 | 0.13 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.1   | 0.8  | < 2  | < 100 | < 0.5 | 0.5   |
| 2121113        | < 1  | < 2  | 1    | 100   | 6    | < 0.5 | 6    | 23   | < 0.5 | 0.69 | 0.8   | < 0.5 | < 5  | < 0.5 | 5500 | < 10 | < 20 | 0.1   | 2.7  | < 2  | < 100 | < 0.5 | 1.0   |
| 2121114        | < 1  | < 2  | 1    | 100   | 6    | < 0.5 | < 1  | 11   | < 0.5 | 0.25 | 0.9   | < 0.5 | < 5  | 0.8   | 3100 | < 10 | < 20 | 0.1   | 1.6  | < 2  | < 100 | < 0.5 | 1.1   |
| 2121115        | < 1  | < 2  | 1    | < 100 | 8    | < 0.5 | 1    | 1    | < 0.5 | 0.05 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | 0.1   | 0.2  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121116        | 1    | < 2  | 1    | < 100 | 6    | 0.5   | 2    | 1    | < 0.5 | 0.07 | < 0.5 | < 0.5 | < 5  | < 0.5 | 300  | < 10 | < 20 | 0.1   | 0.3  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121117        | < 1  | < 2  | 6    | 200   | 4    | < 0.5 | 8    | 40   | 0.8   | 1.32 | 1.7   | < 0.5 | < 5  | < 0.5 | 5800 | < 10 | < 20 | 0.1   | 4.0  | < 2  | < 100 | < 0.5 | 1.8   |
| 2121118        | < 1  | < 2  | 2    | 200   | 3    | < 0.5 | 4    | 37   | 1.8   | 0.82 | 1.5   | < 0.5 | < 5  | < 0.5 | 3500 | < 10 | 40   | 0.1   | 6.7  | < 2  | < 100 | < 0.5 | 2.5   |
| 2121119        | < 1  | < 2  | 1    | 200   | 4    | < 0.5 | 2    | 25   | 1.3   | 0.55 | 1.2   | < 0.5 | < 5  | 1.1   | 1800 | < 10 | < 20 | 0.2   | 4.7  | < 2  | < 100 | < 0.5 | 2.2   |
| 2121120        | < 1  | < 2  | 1    | 200   | 4    | < 0.5 | 5    | 22   | 0.6   | 0.61 | 0.9   | < 0.5 | < 5  | < 0.5 | 6000 | < 10 | < 20 | 0.1   | 2.7  | < 2  | < 100 | < 0.5 | 1.8   |
| 2121121        | < 1  | < 2  | 2    | < 100 | 10   | 0.6   | 3    | 9    | < 0.5 | 0.24 | < 0.5 | < 0.5 | < 5  | 0.8   | 600  | < 10 | < 20 | 0.2   | 0.9  | < 2  | < 100 | < 0.5 | 0.6   |
| 2121122        | < 1  | < 2  | 1    | 200   | 6    | < 0.5 | 5    | 18   | 0.5   | 0.74 | 0.8   | < 0.5 | < 5  | 0.9   | 2900 | < 10 | < 20 | 0.2   | 2.6  | < 2  | < 100 | < 0.5 | 1.6   |
| 2121123        | < 1  | < 2  | 1    | 200   | 3    | < 0.5 | 4    | 14   | < 0.5 | 0.40 | 1.1   | < 0.5 | < 5  | < 0.5 | 7000 | < 10 | < 20 | 0.1   | 1.6  | < 2  | < 100 | < 0.5 | 0.7   |
| 2121124        | < 1  | < 2  | < 1  | < 100 | 4    | < 0.5 | 1    | 2    | < 0.5 | 0.06 | < 0.5 | < 0.5 | < 5  | < 0.5 | 200  | < 10 | < 20 | < 0.1 | 0.4  | < 2  | < 100 | < 0.5 | < 0.5 |
| 2121125        | < 1  | < 2  | 15   | 200   | 4    | < 0.5 | 9    | 46   | 1.3   | 1.21 | 1.6   | < 0.5 | < 5  | < 0.5 | 5000 | < 10 | < 20 | 0.1   | 4.8  | < 2  | < 100 | < 0.5 | 1.2   |
| 2121126        | < 1  | < 2  | 15   | 100   | 3    | < 0.5 | 7    | 28   | 1.4   | 0.83 | 2.0   | < 0.5 | < 5  | < 0.5 | 4100 | < 10 | < 20 | 0.1   | 3.1  | < 2  | < 100 | < 0.5 | 1.4   |
| 2121127        | < 1  | < 2  | 2    | 100   | 9    | 0.5   | 4    | 16   | 1.1   | 0.52 | < 0.5 | < 0.5 | < 5  | 1.2   | 800  | < 10 | < 20 | < 0.1 | 2.5  | < 2  | < 100 | < 0.5 | 2.5   |

Results

| Analyte Symbol | U     | W    | Zn   | La   | Ce   | Nd   | Sm   | Eu    | Tb    | Yb    | Lu    | Mass | Ag     | Cu     | Mn     | Mo     | Ni     | Pb     | Zn     |
|----------------|-------|------|------|------|------|------|------|-------|-------|-------|-------|------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol    | ppm   | ppm  | ppm  | ppm  | ppm  | ppm  | ppm  | ppm   | ppm   | ppm   | ppm   | g    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Lower Limit    | 0.1   | 1    | 20   | 0.1  | 1    | 3    | 0.1  | 0.2   | 0.2   | 0.1   | 0.1   |      | 0.2    | 1      | 1      | 1      | 1      | 1      | 1      |
| Method Code    | INAA  | INAA | INAA | INAA | INAA | INAA | INAA | INAA  | INAA  | INAA  | INAA  | INAA | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP |
| 2121001        | 2.1   | < 1  | < 20 | 10.1 | 12   | 7    | 0.9  | < 0.2 | < 0.2 | 0.2   | < 0.1 | 4.67 | < 0.2  | 48     | 715    | 4      | 26     | 10     | 43     |
| 2121002        | 0.8   | < 1  | < 20 | 3.5  | 5    | 5    | 0.4  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.29 | 0.3    | 132    | 4110   | 7      | 39     | 8      | 74     |
| 2121003        | 0.3   | < 1  | < 20 | 3.1  | 5    | 3    | 0.4  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.62 | 0.3    | 203    | 3480   | 6      | 39     | 7      | 102    |
| 2121004        | 0.6   | < 1  | < 20 | 4.1  | 6    | < 3  | 0.6  | 0.2   | < 0.2 | 0.7   | 0.1   | 5.75 | < 0.2  | 7      | 123    | 2      | 15     | 9      | 19     |
| 2121005        | 0.5   | < 1  | < 20 | 10.4 | 16   | 8    | 1.0  | 0.4   | < 0.2 | 0.3   | < 0.1 | 5.74 | < 0.2  | 51     | 144    | 2      | 40     | 25     | 37     |
| 2121006        | 0.7   | < 1  | < 20 | 10.0 | 14   | 9    | 1.0  | 0.4   | < 0.2 | 0.5   | < 0.1 | 5.93 | < 0.2  | 40     | 229    | 1      | 30     | 15     | 35     |
| 2121007        | 1.4   | < 1  | < 20 | 17.1 | 10   | 18   | 1.7  | 0.4   | 0.2   | 0.4   | < 0.1 | 5.15 | 1.2    | 367    | 694    | 3      | 79     | 12     | 53     |
| 2121008        | 0.4   | < 1  | < 20 | 1.9  | 2    | < 3  | 0.2  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.60 | 0.4    | 67     | 308    | 3      | 19     | 10     | 77     |
| 2121009        | 0.2   | < 1  | < 20 | 1.3  | 2    | < 3  | 0.2  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.47 | < 0.2  | 21     | 603    | 2      | 10     | 28     | 144    |
| 2121010        | < 0.1 | < 1  | < 20 | 0.9  | 2    | < 3  | 0.1  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.54 | < 0.2  | 25     | 1820   | 3      | 16     | 19     | 137    |
| 2121011        | 0.1   | < 1  | < 20 | 0.8  | 1    | < 3  | 0.1  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.77 | < 0.2  | 27     | 4040   | 3      | 23     | 27     | 80     |
| 2121012        | < 0.1 | < 1  | < 20 | 1.1  | 2    | < 3  | 0.1  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.76 | < 0.2  | 33     | 3490   | 2      | 25     | 38     | 55     |
| 2121013        | < 0.1 | < 1  | < 20 | 1.0  | 2    | < 3  | 0.1  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.63 | < 0.2  | 40     | 3130   | 3      | 29     | 33     | 76     |
| 2121014        | < 0.1 | < 1  | < 20 | 0.8  | 1    | < 3  | 0.1  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.72 | < 0.2  | 29     | 1940   | 2      | 24     | 11     | 82     |
| 2121015        | < 0.1 | < 1  | < 20 | 1.3  | 3    | 3    | 0.2  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.90 | < 0.2  | 30     | 1850   | 4      | 21     | 34     | 66     |
| 2121016        | 0.5   | < 1  | < 20 | 4.1  | 7    | 4    | 0.3  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.98 | < 0.2  | 8      | 150    | 2      | 13     | 11     | 20     |
| 2121017        | 0.7   | < 1  | < 20 | 22.1 | 33   | 27   | 1.7  | 0.3   | < 0.2 | 0.2   | < 0.1 | 5.77 | 0.4    | 111    | 890    | 4      | 52     | 58     | 101    |
| 2121018        | 0.9   | < 1  | < 20 | 34.4 | 51   | 26   | 2.9  | 0.4   | < 0.2 | 0.4   | < 0.1 | 5.66 | 0.4    | 119    | 1950   | 4      | 41     | 17     | 86     |
| 2121019        | 1.1   | < 1  | < 20 | 25.4 | 42   | 26   | 2.1  | 0.4   | < 0.2 | 0.4   | < 0.1 | 5.53 | 0.7    | 94     | 6890   | 5      | 34     | 57     | 110    |
| 2121020        | 0.8   | < 1  | < 20 | 14.9 | 23   | 13   | 1.3  | 0.3   | < 0.2 | 0.3   | < 0.1 | 5.92 | 0.2    | 180    | 2450   | 5      | 42     | 17     | 129    |
| 2121021        | 0.3   | < 1  | < 20 | 8.1  | 14   | 9    | 0.8  | 0.2   | < 0.2 | 0.1   | < 0.1 | 5.23 | 0.3    | 121    | 4290   | 7      | 32     | 24     | 215    |
| 2121022        | 1.0   | < 1  | < 20 | 21.1 | 34   | 21   | 2.1  | 0.6   | 0.2   | 0.5   | 0.1   | 5.77 | < 0.2  | 28     | 260    | 1      | 30     | 10     | 39     |
| 2121023        | 0.8   | 4    | < 20 | 7.5  | 12   | 9    | 0.8  | 0.3   | < 0.2 | 0.5   | 0.1   | 5.61 | < 0.2  | 24     | 160    | 1      | 15     | 35     | 49     |
| 2121024        | < 0.1 | < 1  | < 20 | 6.8  | 13   | 6    | 1.1  | 0.4   | < 0.2 | 1.2   | 0.2   | 5.73 | < 0.2  | 32     | 181    | < 1    | 13     | 11     | 26     |
| 2121025        | 0.1   | < 1  | 20   | 5.4  | 5    | 6    | 0.7  | 0.2   | < 0.2 | 0.4   | 0.1   | 5.60 | < 0.2  | 204    | 242    | 2      | 50     | 101    | 165    |
| 2121026        | < 0.1 | < 1  | 30   | 5.3  | 9    | 7    | 0.7  | 0.2   | < 0.2 | 0.3   | < 0.1 | 5.64 | < 0.2  | 207    | 269    | 2      | 66     | 117    | 219    |
| 2121027        | 0.2   | < 1  | < 20 | 7.4  | 13   | 4    | 1.1  | 0.5   | < 0.2 | 1.0   | 0.1   | 5.83 | < 0.2  | 22     | 133    | < 1    | 17     | 27     | 27     |
| 2121028        | 0.6   | < 1  | < 20 | 4.4  | 8    | 4    | 0.6  | 0.2   | < 0.2 | 0.4   | 0.1   | 5.94 | < 0.2  | 84     | 213    | 3      | 33     | 116    | 62     |
| 2121029        | < 0.1 | < 1  | 30   | 1.8  | 3    | < 3  | 0.2  | < 0.2 | < 0.2 | 0.2   | < 0.1 | 5.61 | < 0.2  | 47     | 1010   | 3      | 27     | 124    | 244    |
| 2121030        | 0.1   | < 1  | < 20 | 4.6  | 10   | 6    | 0.8  | 0.2   | < 0.2 | 0.2   | < 0.1 | 5.66 | 0.4    | 142    | 2430   | 3      | 29     | 16     | 157    |
| 2121031        | 0.2   | < 1  | 20   | 2.4  | 4    | 3    | 0.4  | < 0.2 | < 0.2 | 0.2   | < 0.1 | 5.98 | < 0.2  | 44     | 908    | 2      | 21     | 10     | 104    |
| 2121032        | 0.1   | < 1  | 20   | 1.1  | 2    | < 3  | 0.2  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.84 | 0.6    | 33     | 33900  | 13     | 11     | 41     | 181    |
| 2121033        | 1.0   | < 1  | < 20 | 3.6  | 5    | 8    | 0.5  | < 0.2 | < 0.2 | 0.2   | < 0.1 | 5.96 | 0.3    | 69     | 1830   | 1      | 21     | 8      | 28     |
| 2121034        | 0.5   | < 1  | < 20 | 18.5 | 23   | 21   | 1.8  | 0.4   | < 0.2 | 0.5   | < 0.1 | 5.62 | 0.2    | 133    | 12600  | 2      | 33     | 10     | 85     |
| 2121035        | 0.3   | < 1  | < 20 | 9.2  | 16   | 7    | 1.3  | 0.3   | < 0.2 | 0.4   | < 0.1 | 5.89 | < 0.2  | 19     | 895    | 1      | 15     | 8      | 17     |
| 2121036        | 0.2   | < 1  | < 20 | 5.7  | 9    | 9    | 0.9  | 0.2   | < 0.2 | 0.4   | < 0.1 | 5.70 | < 0.2  | 12     | 176    | 1      | 15     | 12     | 28     |
| 2121037        | 0.3   | < 1  | < 20 | 3.3  | 5    | 4    | 0.4  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.62 | < 0.2  | 45     | 848    | 3      | 28     | 14     | 47     |
| 2121038        | 0.4   | < 1  | < 20 | 4.3  | 8    | 4    | 0.5  | < 0.2 | < 0.2 | 0.2   | < 0.1 | 5.96 | < 0.2  | 20     | 172    | 3      | 16     | 21     | 52     |
| 2121039        | 1.3   | < 1  | < 20 | 6.6  | 12   | 8    | 1.0  | 0.2   | < 0.2 | 0.3   | < 0.1 | 5.67 | < 0.2  | 48     | 344    | 2      | 35     | 4      | 20     |
| 2121040        | 0.8   | < 1  | < 20 | 8.9  | 14   | 6    | 1.1  | 0.3   | < 0.2 | 0.3   | < 0.1 | 5.93 | < 0.2  | 39     | 457    | 2      | 25     | 7      | 24     |
| 2121041        | 0.4   | < 1  | < 20 | 9.1  | 17   | 13   | 1.5  | 0.5   | < 0.2 | 0.3   | < 0.1 | 5.93 | < 0.2  | 9      | 223    | 2      | 18     | 5      | 26     |
| 2121042        | 1.6   | < 1  | < 20 | 14.9 | 21   | 20   | 1.9  | 0.5   | 0.2   | 0.5   | < 0.1 | 5.80 | < 0.2  | 61     | 1470   | 2      | 41     | 5      | 26     |
| 2121043        | 3.0   | < 1  | < 20 | 2.3  | 3    | 4    | 0.3  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.52 | < 0.2  | 39     | 1420   | 5      | 23     | 26     | 48     |
| 2121044        | 0.3   | < 1  | < 20 | 0.8  | 1    | < 3  | 0.1  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.65 | < 0.2  | 19     | 632    | 6      | 12     | 11     | 114    |
| 2121045        | 0.1   | < 1  | < 20 | 0.9  | 1    | < 3  | 0.1  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.54 | < 0.2  | 27     | 702    | 7      | 17     | 33     | 57     |
| 2121046        | 1.3   | < 1  | < 20 | 45.4 | 68   | 42   | 4.4  | 1.0   | < 0.2 | 0.7   | 0.1   | 5.90 | < 0.2  | 86     | 454    | 1      | 52     | 14     | 43     |
| 2121047        | 0.6   | < 1  | < 20 | 29.5 | 51   | 35   | 3.3  | 0.5   | 0.2   | 0.4   | < 0.1 | 5.68 | 0.2    | 129    | 1020   | 2      | 59     | 25     | 87     |
| 2121048        | 0.6   | < 1  | < 20 | 9.4  | 13   | 9    | 1.0  | 0.2   | < 0.2 | 0.2   | < 0.1 | 5.86 | < 0.2  | 118    | 1500   | 4      | 44     | 12     | 51     |
| 2121049        | 1.5   | < 1  | < 20 | 3.2  | 5    | 4    | 0.4  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.70 | < 0.2  | 69     | 506    | 3      | 26     | 13     | 38     |

| Analyte Symbol | U     | W    | Zn   | La   | Ce   | Nd   | Sm   | Eu    | Tb    | Yb    | Lu    | Mass | Ag     | Cu     | Mn     | Mo     | Ni     | Pb     | Zn     |
|----------------|-------|------|------|------|------|------|------|-------|-------|-------|-------|------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol    | ppm   | ppm  | ppm  | ppm  | ppm  | ppm  | ppm  | ppm   | ppm   | ppm   | ppm   | g    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Lower Limit    | 0.1   | 1    | 20   | 0.1  | 1    | 3    | 0.1  | 0.2   | 0.2   | 0.1   | 0.1   | 5.94 | < 0.2  | 1      | 1      | 1      | 1      | 1      | 1      |
| Method Code    | INAA  | INAA | INAA | INAA | INAA | INAA | INAA | INAA  | INAA  | INAA  | INAA  | INAA | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP |
| 2121050        | 1.0   | < 1  | < 20 | 2.4  | 3    | 4    | 0.3  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.94 | < 0.2  | 76     | 275    | 3      | 27     | 18     | 40     |
| 2121051        | 0.2   | < 1  | < 20 | 1.1  | 2    | < 3  | 0.2  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.59 | < 0.2  | 44     | 436    | 5      | 15     | 32     | 141    |
| 2121052        | 0.7   | < 1  | < 20 | 3.7  | 6    | 3    | 0.5  | < 0.2 | < 0.2 | 0.2   | < 0.1 | 5.80 | < 0.2  | 48     | 323    | 3      | 31     | 15     | 60     |
| 2121053        | 0.2   | < 1  | < 20 | 1.8  | 3    | < 3  | 0.2  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.90 | < 0.2  | 36     | 235    | 4      | 29     | 51     | 189    |
| 2121054        | < 0.1 | < 1  | < 20 | 2.5  | 4    | 3    | 0.3  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.87 | < 0.2  | 52     | 799    | 11     | 37     | 47     | 64     |
| 2121055        | 1.1   | < 1  | < 20 | 16.1 | 18   | 28   | 2.4  | 0.5   | < 0.2 | 0.3   | < 0.1 | 5.82 | < 0.2  | 148    | 7660   | 6      | 100    | 20     | 67     |
| 2121056        | < 0.1 | < 1  | < 20 | 1.7  | 2    | 4    | 0.2  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.84 | < 0.2  | 52     | 7190   | 4      | 28     | 20     | 57     |
| 2121057        | 0.4   | < 1  | < 20 | 5.8  | 8    | 7    | 0.6  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.66 | < 0.2  | 86     | 1540   | 3      | 32     | 22     | 73     |
| 2121058        | 0.1   | < 1  | < 20 | 1.3  | 2    | 3    | 0.2  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.68 | < 0.2  | 52     | 852    | 3      | 16     | 22     | 83     |
| 2121059        | 0.1   | < 1  | < 20 | 1.6  | 3    | < 3  | 0.2  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.52 | < 0.2  | 38     | 5290   | 5      | 15     | 35     | 138    |
| 2121060        | 0.4   | < 1  | < 20 | 4.7  | 7    | 5    | 0.5  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.87 | < 0.2  | 71     | 2330   | 4      | 38     | 28     | 121    |
| 2121061        | 0.1   | < 1  | < 20 | 1.6  | 3    | < 3  | 0.2  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.46 | < 0.2  | 64     | 1340   | 8      | 22     | 34     | 119    |
| 2121062        | 0.1   | < 1  | < 20 | 2.4  | 4    | < 3  | 0.3  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.61 | < 0.2  | 80     | 1020   | 8      | 26     | 31     | 103    |
| 2121063        | 0.1   | < 1  | < 20 | 2.6  | 4    | < 3  | 0.3  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.87 | < 0.2  | 48     | 2100   | 5      | 18     | 24     | 66     |
| 2121064        | 0.1   | < 1  | < 20 | 1.9  | 3    | 3    | 0.2  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.83 | < 0.2  | 36     | 1390   | 5      | 26     | 31     | 102    |
| 2121065        | 0.2   | < 1  | < 20 | 1.7  | 3    | 4    | 0.2  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.65 | < 0.2  | 41     | 2410   | 7      | 23     | 38     | 171    |
| 2121066        | 0.4   | < 1  | < 20 | 24.0 | 43   | 27   | 3.0  | 0.6   | < 0.2 | 0.5   | 0.1   | 5.75 | < 0.2  | 95     | 4490   | 4      | 47     | 15     | 71     |
| 2121067        | 0.1   | < 1  | < 20 | 5.5  | 9    | 7    | 0.8  | 0.2   | < 0.2 | 0.3   | < 0.1 | 5.67 | 0.3    | 463    | 702    | 3      | 88     | 23     | 91     |
| 2121068        | 1.1   | < 1  | < 20 | 14.4 | 23   | 11   | 2.1  | 0.6   | 0.4   | 1.1   | 0.2   | 5.97 | < 0.2  | 76     | 155    | < 1    | 29     | 7      | 26     |
| 2121069        | 0.8   | < 1  | 80   | 20.7 | 36   | 26   | 3.7  | 0.8   | < 0.2 | 1.9   | 0.3   | 5.71 | 1.5    | 200    | 54000  | 2      | 188    | 21     | 179    |
| 2121070        | 0.4   | < 1  | < 20 | 2.9  | 4    | 4    | 0.4  | < 0.2 | < 0.2 | 0.3   | < 0.1 | 5.49 | < 0.2  | 642    | 3970   | 2      | 92     | 19     | 47     |
| 2121071        | 0.3   | < 1  | < 20 | 6.4  | 10   | 9    | 1.1  | 0.2   | 0.2   | 0.4   | 0.1   | 5.89 | < 0.2  | 580    | 1950   | 2      | 82     | 48     | 40     |
| 2121072        | 0.1   | < 1  | < 20 | 8.2  | 10   | 12   | 1.7  | 0.4   | < 0.2 | 0.9   | 0.1   | 5.62 | < 0.2  | 534    | 1400   | 1      | 108    | 22     | 44     |
| 2121073        | 0.1   | < 1  | < 20 | 12.2 | 19   | 16   | 2.1  | 0.4   | 0.2   | 0.4   | < 0.1 | 5.74 | 0.5    | 249    | 847    | 5      | 126    | 16     | 145    |
| 2121074        | 0.7   | < 1  | < 20 | 6.4  | 11   | 7    | 0.7  | 0.2   | < 0.2 | 0.4   | < 0.1 | 5.88 | 0.7    | 38     | 175    | 3      | 15     | 28     | 39     |
| 2121075        | 0.7   | < 1  | < 20 | 26.9 | 36   | 25   | 2.9  | 0.7   | < 0.2 | 0.6   | 0.1   | 5.76 | < 0.2  | 53     | 239    | 2      | 37     | 16     | 32     |
| 2121076        | 0.7   | < 1  | < 20 | 37.3 | 52   | 32   | 4.0  | 0.7   | < 0.2 | 0.7   | 0.1   | 5.66 | 0.5    | 91     | 236    | 2      | 46     | 19     | 48     |
| 2121077        | 0.1   | < 1  | < 20 | 4.1  | 6    | 4    | 0.5  | < 0.2 | < 0.2 | 0.2   | < 0.1 | 5.97 | 0.4    | 66     | 411    | 2      | 51     | 39     | 135    |
| 2121078        | 0.1   | < 1  | < 20 | 3.6  | 10   | 6    | 0.4  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.96 | < 0.2  | 83     | 1060   | 8      | 37     | 21     | 120    |
| 2121079        | 0.1   | < 1  | < 20 | 3.2  | 6    | 5    | 0.4  | < 0.2 | < 0.2 | 0.2   | < 0.1 | 5.75 | < 0.2  | 39     | 2570   | 3      | 22     | 26     | 89     |
| 2121080        | 0.2   | < 1  | < 20 | 1.7  | 2    | 4    | 0.2  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.95 | < 0.2  | 37     | 2930   | 3      | 18     | 28     | 96     |
| 2121081        | 0.1   | < 1  | < 20 | 1.0  | 2    | < 3  | 0.1  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.64 | < 0.2  | 19     | 1380   | 2      | 10     | 37     | 139    |
| 2121082        | < 0.1 | < 1  | < 20 | 1.6  | 2    | < 3  | 0.2  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.82 | < 0.2  | 39     | 263    | 2      | 10     | 37     | 129    |
| 2121083        | 0.7   | < 1  | < 20 | 15.3 | 22   | 11   | 1.5  | 0.3   | < 0.2 | 0.6   | 0.1   | 5.99 | < 0.2  | 34     | 98     | < 1    | 14     | 9      | 25     |
| 2121084        | 0.4   | < 1  | < 20 | 5.5  | 10   | 5    | 0.7  | < 0.2 | < 0.2 | 0.2   | < 0.1 | 5.85 | 0.5    | 98     | 2050   | 4      | 37     | 53     | 123    |
| 2121085        | 0.4   | < 1  | < 20 | 4.4  | 8    | 4    | 0.6  | < 0.2 | < 0.2 | 0.4   | 0.1   | 5.97 | < 0.2  | 78     | 443    | 2      | 28     | 20     | 60     |
| 2121086        | 0.2   | < 1  | < 20 | 3.6  | 6    | 5    | 0.4  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.85 | 0.3    | 78     | 1080   | 6      | 33     | 26     | 104    |
| 2121087        | 0.1   | < 1  | < 20 | 1.4  | 2    | < 3  | 0.2  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.77 | 0.2    | 123    | 356    | 7      | 36     | 13     | 156    |
| 2121088        | < 0.1 | < 1  | < 20 | 0.8  | 1    | < 3  | 0.1  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.78 | 0.3    | 63     | 452    | 6      | 32     | 113    | 254    |
| 2121089        | 0.8   | < 1  | < 20 | 34.0 | 78   | 41   | 3.9  | 0.8   | 0.3   | 0.4   | 0.1   | 5.80 | 0.6    | 271    | 12900  | 6      | 74     | 44     | 164    |
| 2121090        | < 0.1 | < 1  | < 20 | 6.5  | 12   | 8    | 0.7  | < 0.2 | < 0.2 | 0.2   | < 0.1 | 5.80 | 0.4    | 109    | 683    | 3      | 37     | 33     | 219    |
| 2121091        | < 0.1 | < 1  | < 20 | 2.1  | 4    | < 3  | 0.3  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.65 | < 0.2  | 75     | 1960   | 4      | 29     | 21     | 190    |
| 2121092        | < 0.1 | < 1  | < 20 | 1.5  | 3    | < 3  | 0.2  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.86 | < 0.2  | 43     | 3060   | 2      | 20     | 23     | 145    |
| 2121093        | 0.1   | < 1  | < 20 | 1.2  | 2    | < 3  | 0.2  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.65 | < 0.2  | 39     | 4730   | 3      | 20     | 18     | 298    |
| 2121094        | < 0.1 | < 1  | < 20 | 0.8  | 1    | < 3  | 0.1  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.71 | < 0.2  | 41     | 5250   | 3      | 19     | 18     | 230    |
| 2121095        | < 0.1 | < 1  | < 20 | 0.8  | 1    | < 3  | 0.1  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.74 | < 0.2  | 31     | 3930   | 3      | 16     | 21     | 146    |
| 2121096        | 0.2   | < 1  | 30   | 1.1  | 2    | 3    | 0.2  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.71 | < 0.2  | 15     | 12000  | 4      | 7      | 99     | 281    |
| 2121097        | 0.1   | < 1  | < 20 | 0.8  | 2    | < 3  | 0.1  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.77 | < 0.2  | 28     | 1050   | 5      | 12     | 19     | 123    |
| 2121098        | < 0.1 | < 1  | < 20 | 0.9  | 1    | < 3  | 0.1  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.92 | < 0.2  | 17     | 1820   | 3      | 8      | 49     | 161    |
| 2121099        | < 0.1 | < 1  | < 20 | 0.8  | 2    | < 3  | 0.1  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.85 | < 0.2  | 15     | 410    | 5      | 6      | 18     | 191    |

| Analyte Symbol | U     | W    | Zn   | La   | Ce   | Nd   | Sm   | Eu    | Tb    | Yb    | Lu    | Mass | Ag     | Cu     | Mn     | Mo     | Ni     | Pb     | Zn     |
|----------------|-------|------|------|------|------|------|------|-------|-------|-------|-------|------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol    | ppm   | ppm  | ppm  | ppm  | ppm  | ppm  | ppm  | ppm   | ppm   | ppm   | ppm   | g    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Lower Limit    | 0.1   | 1    | 20   | 0.1  | 1    | 3    | 0.1  | 0.2   | 0.2   | 0.1   | 0.1   |      | 0.2    | 1      | 1      | 1      | 1      | 1      | 1      |
| Method Code    | INAA  | INAA | INAA | INAA | INAA | INAA | INAA | INAA  | INAA  | INAA  | INAA  | INAA | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP |
| 2121100        | < 0.1 | < 1  | < 20 | 1.0  | 1    | < 3  | 0.2  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.82 | < 0.2  | 17     | 322    | 4      | 8      | 35     | 159    |
| 2121101        | < 0.1 | < 1  | < 20 | 0.8  | 2    | 3    | 0.1  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.78 | < 0.2  | 26     | 762    | 3      | 13     | 33     | 115    |
| 2121102        | 0.1   | < 1  | < 20 | 0.8  | 2    | < 3  | 0.1  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.66 | < 0.2  | 29     | 751    | 3      | 17     | 55     | 95     |
| 2121103        | < 0.1 | < 1  | < 20 | 0.6  | 1    | < 3  | 0.1  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.71 | < 0.2  | 46     | 1220   | 6      | 22     | 19     | 125    |
| 2121104        | < 0.1 | < 1  | < 20 | 1.1  | 2    | < 3  | 0.2  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.75 | < 0.2  | 29     | 4930   | 3      | 19     | 21     | 100    |
| 2121105        | 0.2   | < 1  | < 20 | 1.5  | 3    | < 3  | 0.2  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.61 | 0.3    | 33     | 15400  | 3      | 16     | 26     | 111    |
| 2121106        | < 0.1 | < 1  | < 20 | 1.5  | 2    | < 3  | 0.2  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.79 | < 0.2  | 62     | 2080   | 3      | 19     | 24     | 111    |
| 2121107        | < 0.1 | < 1  | < 20 | 0.8  | 1    | < 3  | 0.1  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.67 | 0.2    | 44     | 5330   | 3      | 16     | 27     | 220    |
| 2121108        | 0.3   | < 1  | < 20 | 3.5  | 6    | 5    | 0.5  | < 0.2 | < 0.2 | 0.2   | < 0.1 | 5.65 | < 0.2  | 25     | 3610   | 1      | 12     | 25     | 128    |
| 2121109        | < 0.1 | < 1  | < 20 | 1.6  | 2    | 4    | 0.2  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.62 | 0.2    | 46     | 5920   | 4      | 14     | 14     | 206    |
| 2121110        | < 0.1 | < 1  | < 20 | 1.1  | 2    | < 3  | 0.2  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.75 | 2.9    | 204    | 2700   | 4      | 15     | 111    | 188    |
| 2121111        | 0.3   | < 1  | < 20 | 12.5 | 21   | 16   | 1.6  | 0.3   | 0.2   | 0.3   | < 0.1 | 5.85 | < 0.2  | 272    | 1790   | 4      | 74     | 25     | 149    |
| 2121112        | < 0.1 | < 1  | < 20 | 5.8  | 10   | 7    | 0.7  | < 0.2 | < 0.2 | 0.2   | < 0.1 | 5.97 | 0.3    | 524    | 708    | 4      | 103    | 77     | 397    |
| 2121113        | 0.7   | < 1  | < 20 | 9.0  | 16   | 7    | 1.1  | 0.2   | < 0.2 | 0.3   | < 0.1 | 5.91 | 0.4    | 118    | 199    | 1      | 41     | 29     | 100    |
| 2121114        | 0.8   | < 1  | < 20 | 4.4  | 7    | < 3  | 0.6  | 0.3   | < 0.2 | 0.3   | < 0.1 | 5.82 | 0.3    | 69     | 163    | 3      | 24     | 37     | 61     |
| 2121115        | < 0.1 | < 1  | < 20 | 0.7  | 1    | < 3  | 0.1  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.60 | < 0.2  | 66     | 552    | 7      | 32     | 58     | 177    |
| 2121116        | < 0.1 | < 1  | < 20 | 0.8  | 2    | < 3  | 0.1  | < 0.2 | < 0.2 | < 0.1 | < 0.1 | 5.73 | < 0.2  | 80     | 631    | 7      | 42     | 79     | 282    |
| 2121117        | 0.5   | < 1  | < 20 | 6.2  | 9    | 4    | 0.8  | 0.2   | < 0.2 | 0.4   | 0.1   | 5.91 | < 0.2  | 24     | 187    | 2      | 30     | 7      | 33     |
| 2121118        | 1.0   | < 1  | < 20 | 6.8  | 10   | 3    | 0.9  | 0.4   | < 0.2 | 0.6   | 0.1   | 5.91 | < 0.2  | 45     | 175    | 1      | 19     | 20     | 43     |
| 2121119        | 1.2   | < 1  | < 20 | 10.0 | 14   | 5    | 0.9  | 0.2   | < 0.2 | 0.7   | 0.1   | 5.60 | < 0.2  | 85     | 148    | 1      | 22     | 32     | 32     |
| 2121120        | 0.4   | < 1  | < 20 | 8.3  | 11   | 5    | 0.9  | 0.2   | < 0.2 | 0.3   | < 0.1 | 5.78 | < 0.2  | 21     | 158    | 3      | 29     | 8      | 24     |
| 2121121        | < 0.1 | < 1  | < 20 | 3.8  | 6    | 6    | 0.5  | < 0.2 | < 0.2 | 0.2   | < 0.1 | 5.71 | < 0.2  | 61     | 150    | 8      | 71     | 40     | 98     |
| 2121122        | 0.7   | < 1  | < 20 | 7.9  | 12   | 5    | 0.7  | 0.2   | < 0.2 | 0.4   | < 0.1 | 5.82 | < 0.2  | 87     | 122    | 2      | 26     | 30     | 26     |
| 2121123        | 0.1   | < 1  | < 20 | 5.7  | 8    | < 3  | 0.6  | < 0.2 | < 0.2 | 0.2   | < 0.1 | 5.77 | < 0.2  | 14     | 88     | 2      | 18     | 15     | 20     |
| 2121124        | < 0.1 | < 1  | < 20 | 1.4  | 2    | < 3  | 0.2  | < 0.2 | < 0.2 | 0.1   | < 0.1 | 5.82 | 0.7    | 110    | 535    | 9      | 61     | 45     | 374    |
| 2121125        | 0.5   | < 1  | < 20 | 12.9 | 19   | 8    | 1.7  | 0.4   | < 0.2 | 0.5   | 0.1   | 5.88 | < 0.2  | 41     | 148    | 2      | 35     | 7      | 29     |
| 2121126        | 0.8   | < 1  | < 20 | 9.9  | 15   | 8    | 1.2  | 0.2   | < 0.2 | 0.5   | 0.1   | 5.76 | < 0.2  | 52     | 186    | 1      | 38     | 10     | 33     |
| 2121127        | 0.9   | < 1  | < 20 | 30.7 | 50   | 25   | 3.1  | 0.6   | 0.3   | 0.5   | 0.1   | 5.80 | < 0.2  | 199    | 143    | 4      | 122    | 22     | 50     |

QC

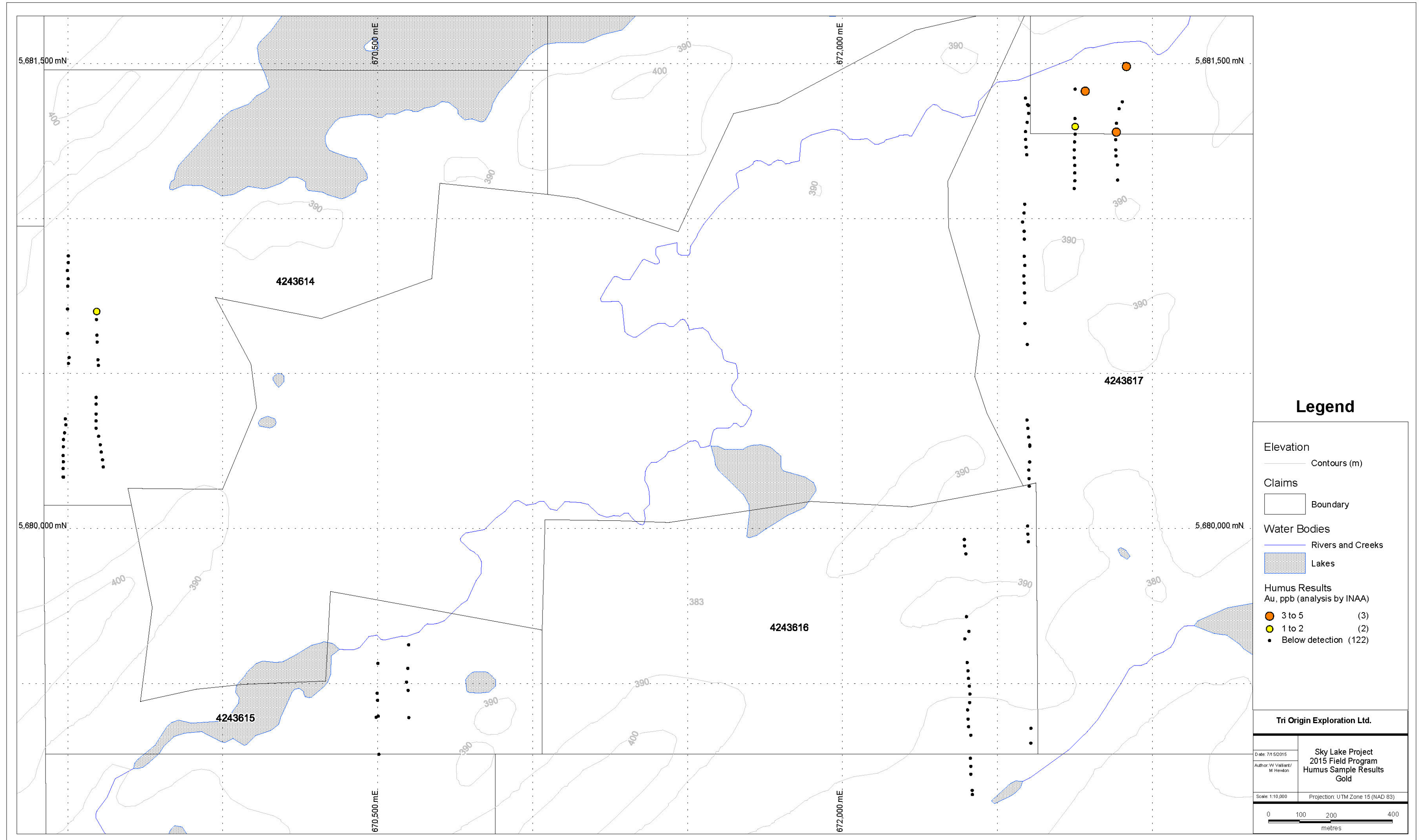
| Analyte Symbol        | Au   | As   | Ba    | Br   | Ca   | Co   | Cr   | Fe   | Hf    | Mo    | Na   | Rb   | Sb   | Sc   | Sr   | U     | Zn   | La   | Ce   | Sm   | Yb    | Lu    | Ag     |       |
|-----------------------|------|------|-------|------|------|------|------|------|-------|-------|------|------|------|------|------|-------|------|------|------|------|-------|-------|--------|-------|
| Unit Symbol           | ppb  | ppm  | ppm   | ppm  | %    | ppm  | ppm  | %    | ppm   | ppm   | ppm  | ppm  | ppm  | ppm  | ppm  | ppm   | ppm  | ppm  | ppm  | ppm  | ppm   | ppm   | ppm    |       |
| Lower Limit           | 1    | 1    | 100   | 1    | 0.5  | 1    | 1    | 0.05 | 0.5   | 0.5   | 100  | 20   | 0.1  | 0.1  | 100  | 0.1   | 20   | 0.1  | 1    | 0.1  | 0.1   | 0.1   | 0.2    |       |
| Method Code           | INAA | INAA | INAA  | INAA | INAA | INAA | INAA | INAA | INAA  | INAA  | INAA | INAA | INAA | INAA | INAA | INAA  | INAA | INAA | INAA | INAA | INAA  | INAA  | AR-ICP |       |
| GXR-1 Meas            |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       | 32.3   |       |
| GXR-1 Cert            |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | 31.0  |
| GXR-1 Meas            |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | 29.4  |
| GXR-1 Cert            |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | 31.0  |
| GXR-4 Meas            |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | 3.8   |
| GXR-4 Cert            |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | 4.0   |
| GXR-4 Meas            |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | 3.8   |
| GXR-4 Cert            |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | 4.0   |
| GXR-6 Meas            |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | 0.5   |
| GXR-6 Cert            |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | 1.30  |
| GXR-6 Meas            |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | 0.3   |
| GXR-6 Cert            |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | 1.30  |
| L-STD-2 Meas          | 20   | < 1  | < 100 | 5    | 4.0  | 1    | 2    | 0.06 | < 0.5 | < 0.5 | 200  | < 20 | 0.1  | 0.1  | 100  | 0.1   | 30   | 0.5  | 1    | 0.1  | < 0.1 | < 0.1 |        |       |
| L-STD-2 Cert          | 20   | 0.22 | 20    | 4.8  | 3.8  | 0.3  | 2.1  | 0.05 | 0.11  | 0.25  | 235  | 6    | 0.13 | 0.1  | 95   | 0.03  | 25   | 0.48 | 0.8  | 0.06 | 0.030 | 0.005 |        |       |
| L-STD-2 Meas          | 20   | < 1  | < 100 | 5    | 4.0  | < 1  | 3    | 0.05 | < 0.5 | < 0.5 | 200  | < 20 | 0.1  | 0.1  | 100  | < 0.1 | 30   | 0.5  | 1    | 0.1  | < 0.1 | < 0.1 |        |       |
| L-STD-2 Cert          | 20   | 0.22 | 20    | 4.8  | 3.8  | 0.3  | 2.1  | 0.05 | 0.11  | 0.25  | 235  | 6    | 0.13 | 0.1  | 95   | 0.03  | 25   | 0.48 | 0.8  | 0.06 | 0.030 | 0.005 |        |       |
| SAR-M (U.S.G.S.) Meas |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | 3.6   |
| SAR-M (U.S.G.S.) Cert |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | 3.64  |
| SAR-M (U.S.G.S.) Meas |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | 3.7   |
| SAR-M (U.S.G.S.) Cert |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | 3.64  |
| 2121013 Orig          |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | < 0.2 |
| 2121013 Dup           |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | < 0.2 |
| 2121027 Orig          |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | < 0.2 |
| 2121027 Dup           |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | < 0.2 |
| 2121040 Orig          |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | < 0.2 |
| 2121040 Dup           |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | < 0.2 |
| 2121054 Orig          |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | < 0.2 |
| 2121054 Dup           |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | < 0.2 |
| 2121077 Orig          |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | 0.4   |
| 2121077 Dup           |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | 0.4   |
| 2121091 Orig          |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | < 0.2 |
| 2121091 Dup           |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | < 0.2 |
| 2121104 Orig          |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | < 0.2 |
| 2121104 Dup           |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | < 0.2 |
| 2121118 Orig          |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | < 0.2 |
| 2121118 Dup           |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | < 0.2 |
| 2121127 Orig          |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | < 0.2 |
| 2121127 Dup           |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | < 0.2 |
| Method Blank          |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | < 0.2 |
| Method Blank          |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | < 0.2 |
| Method Blank          |      |      |       |      |      |      |      |      |       |       |      |      |      |      |      |       |      |      |      |      |       |       |        | < 0.2 |

QC



| Analyte Symbol        | Cu       | Mn     | Mo     | Ni     | Pb     | Zn     |
|-----------------------|----------|--------|--------|--------|--------|--------|
| Unit Symbol           | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Lower Limit           | 1        | 1      | 1      | 1      | 1      | 1      |
| Method Code           | AR-ICP   | AR-ICP | AR-ICP | AR-ICP | AR-ICP | AR-ICP |
| GXR-1 Meas            | 1220     | 828    | 16     | 34     | 686    | 720    |
| GXR-1 Cert            | 1110     | 852    | 18.0   | 41.0   | 730    | 760    |
| GXR-1 Meas            | 1080     | 762    | 16     | 32     | 649    | 673    |
| GXR-1 Cert            | 1110     | 852    | 18.0   | 41.0   | 730    | 760    |
| GXR-4 Meas            | 6700     | 139    | 340    | 39     | 45     | 71     |
| GXR-4 Cert            | 6520     | 155    | 310    | 42.0   | 52.0   | 73.0   |
| GXR-4 Meas            | 6760     | 141    | 348    | 39     | 44     | 71     |
| GXR-4 Cert            | 6520     | 155    | 310    | 42.0   | 52.0   | 73.0   |
| GXR-6 Meas            | 63       | 902    | 3      | 23     | 84     | 108    |
| GXR-6 Cert            | 66.0     | 1010   | 2.40   | 27.0   | 101    | 118    |
| GXR-6 Meas            | 63       | 959    | 3      | 21     | 87     | 114    |
| GXR-6 Cert            | 66.0     | 1010   | 2.40   | 27.0   | 101    | 118    |
| L-STD-2 Meas          |          |        |        |        |        |        |
| L-STD-2 Cert          |          |        |        |        |        |        |
| L-STD-2 Meas          |          |        |        |        |        |        |
| L-STD-2 Cert          |          |        |        |        |        |        |
| SAR-M (U.S.G.S.) Meas | 331      | 5220   | 13     | 42     | 982    | 930    |
| SAR-M (U.S.G.S.) Cert | 331.0000 | 5220   | 13.1   | 41.5   | 982    | 930.0  |
| SAR-M (U.S.G.S.) Meas | 356      | 4880   | 14     | 44     | 1080   | 1020   |
| SAR-M (U.S.G.S.) Cert | 331.0000 | 5220   | 13.1   | 41.5   | 982    | 930.0  |
| 2121013 Orig          | 40       | 3170   | 3      | 29     | 33     | 76     |
| 2121013 Dup           | 39       | 3090   | 3      | 29     | 33     | 75     |
| 2121027 Orig          | 22       | 132    | < 1    | 18     | 28     | 27     |
| 2121027 Dup           | 22       | 133    | 2      | 17     | 26     | 27     |
| 2121040 Orig          | 38       | 442    | 2      | 25     | 7      | 24     |
| 2121040 Dup           | 40       | 471    | 2      | 26     | 7      | 25     |
| 2121054 Orig          | 51       | 776    | 10     | 36     | 45     | 62     |
| 2121054 Dup           | 54       | 821    | 11     | 38     | 48     | 65     |
| 2121077 Orig          | 67       | 411    | 2      | 52     | 39     | 135    |
| 2121077 Dup           | 65       | 411    | 2      | 51     | 39     | 135    |
| 2121091 Orig          | 75       | 1970   | 4      | 29     | 20     | 190    |
| 2121091 Dup           | 75       | 1960   | 4      | 30     | 21     | 190    |
| 2121104 Orig          | 29       | 4940   | 3      | 21     | 21     | 99     |
| 2121104 Dup           | 29       | 4920   | 3      | 18     | 21     | 100    |
| 2121118 Orig          | 48       | 177    | 1      | 19     | 22     | 44     |
| 2121118 Dup           | 42       | 173    | 1      | 18     | 19     | 42     |
| 2121127 Orig          | 195      | 144    | 5      | 120    | 22     | 49     |
| 2121127 Dup           | 203      | 142    | 3      | 124    | 22     | 50     |
| Method Blank          | 2        | 1      | < 1    | < 1    | < 1    | < 1    |
| Method Blank          | < 1      | < 1    | < 1    | < 1    | < 1    | < 1    |
| Method Blank          | < 1      | < 1    | < 1    | < 1    | < 1    | < 1    |

APPENDIX G – Humus Geochemical Maps



### Legend

**Elevation**  
 — Contours (m)

**Claims**  
 □ Boundary

**Water Bodies**  
 — Rivers and Creeks  
 ■ Lakes

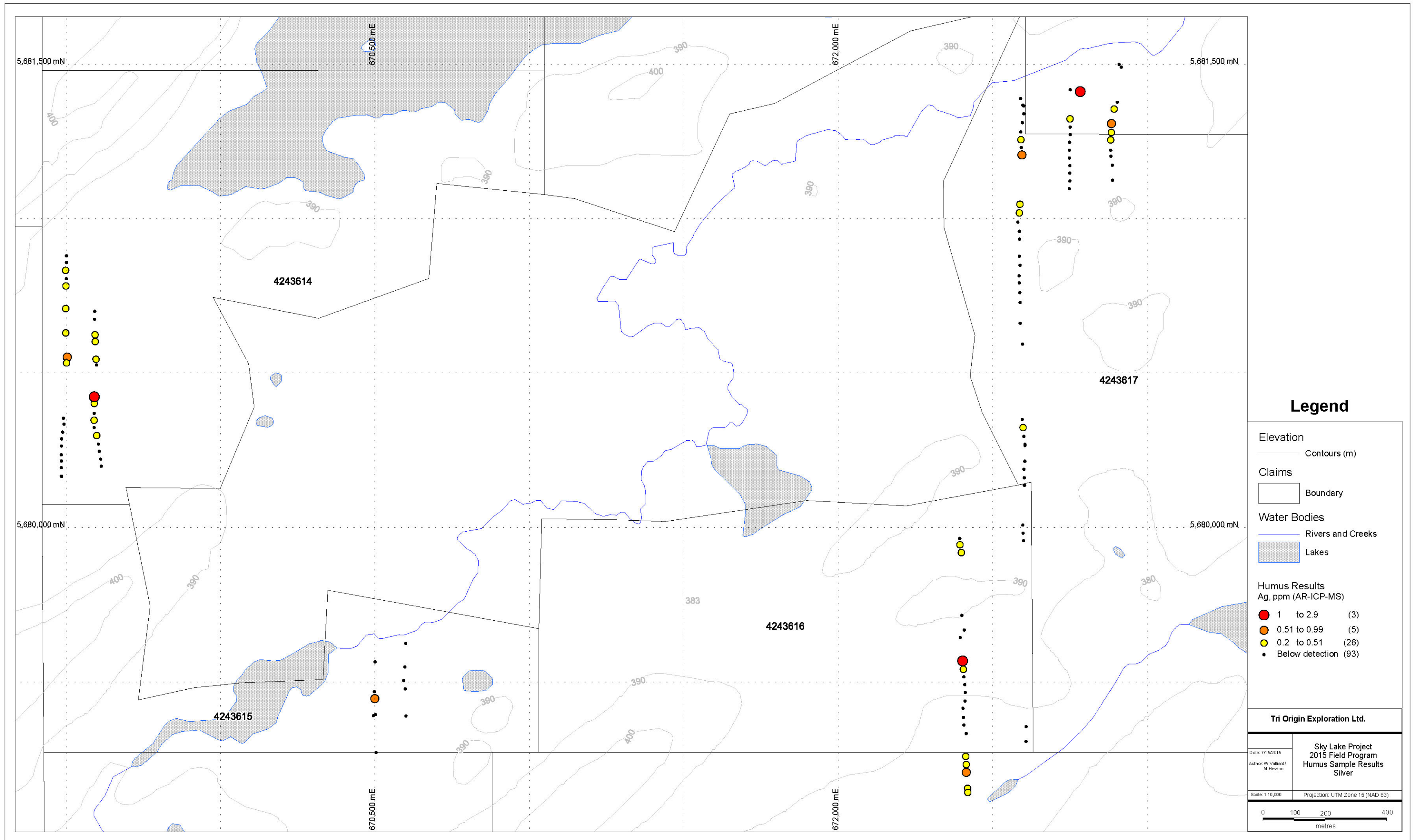
**Humus Results**  
 Au, ppb (analysis by INAA)  
 ● 3 to 5 (3)  
 ● 1 to 2 (2)  
 ● Below detection (122)

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**Tri Origin Exploration Ltd.**

|                                 |  |
|---------------------------------|--|
| Date: 7/15/2015                 | Sky Lake Project<br>2015 Field Program<br>Humus Sample Results<br>Gold |
| Author: W. Valliant / M. Hewson |  |
| Scale: 1:10,000                 | Projection: UTM Zone 15 (NAD 83)                                       |

0 100 200 400 metres



### Legend

- Elevation**  
 — Contours (m)
- Claims**  
 □ Boundary
- Water Bodies**  
 — Rivers and Creeks  
 ■ Lakes
- Humus Results**  
 Ag, ppm (AR-ICP-MS)
- 1 to 2.9 (3)
  - 0.51 to 0.99 (5)
  - 0.2 to 0.51 (26)
  - Below detection (93)

Tri Origin Exploration Ltd.

Date: 7/15/2015  
 Author: W. Vallant  
 M. Hewson

Sky Lake Project  
 2015 Field Program  
 Humus Sample Results  
 Silver

Scale: 1:10,000 Projection: UTM Zone 15 (NAD 83)

