

GM 63360

LAKE-BOTTOM SEDIMENT, SAMPLING PROGRAM, GRENVILLE PROJECT, CHEVERY PROPERTY

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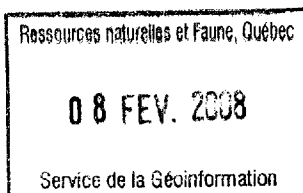
**LAKE-BOTTOM SEDIMENT
SAMPLING PROGRAM
GRENVILLE PROJECT
CHEVERY PROPERTY**

**Presented to:
Mr. Jean-Marc Lulin
EXPLORATION AZIMUT INC.**

GM 63360

**Submitted by
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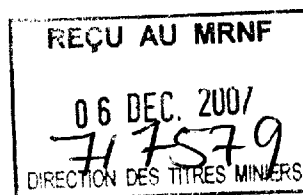
IOS Services Géoscientifiques Inc.



Your project number:
Our project number: 590-06

Ville de Saguenay

September 10, 2007



LAKE-BOTTOM SEDIMENT SAMPLING PROGRAM, GRENVILLE PROJECT
CHEVERY PROPERTY

SUMMARY

The Chevery group of properties has been acquired as a target for copper and uranium potential by Azimut Exploration Inc., based on interpretation of governmental lake-bottom sediment sampling surveys. Azimut Exploration Inc. commissioned IOS Services Géoscientifiques to perform a detailed lake-bottom sediment sampling program on the group of properties, in order to confirm metallic dispersion within the secondary environment.

The Chevery group of properties is made up of 245 map designated cells, divided in two non-contiguous claims blocks and is located about 70 kilometres northwest from the community of Chevery, lower North Shore on the gulf of St-Lawrence. The sampled area exceeds the limits of the property by a rim of about 5 kilometres.

A total of 155 lake-bottom sediment samples were collected over a two day period in June 2006. Samples were processed at IOS facilities and analyzed by Actlabs by ICP-MS after aqua regia digestion and by INAA. Numerous quality control procedures were implemented by IOS during sample preparation, as well as by IOS and Actlabs in the course of sample analysis.

This report presents the relative abundance and distribution of uranium, thorium, copper plus a concise interpretation of the various geochemical results.

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INTRODUCTION

Within a vast targeting project for copper and uranium deposits in the Grenville province, Azimut Exploration Inc. acquired a large number of claims, divided into eight (8) properties or group of properties (Manitou, Mont Merry, Havre, Havre NW, Augustin, Chevery, Aguanish and Baskatong) and collectively termed the Grenville project. These claims have been optioned to Kennecott Exploration Company within a strategic agreement according to which Azimut Exploration Inc. is the operator. Azimut Exploration Inc. requested IOS Services Géoscientifiques to perform a systematic lake-bottom sediment (gyttja) sampling program on these properties. . A total of 1996 samples were collected for the Grenville project in the summer of 2006, 155 of these on the Chevery group of properties.

This report summarizes the sampling program and discusses processing methods, analytical procedures and analytical quality control for the Chevery group of properties. These properties are located about 70 kilometres northwest from the community of Chevery, on the St-Laurent north shore. A total of 155 samples were collected in the summer of 2006 on this group of properties. The samples were collected and prepared with the same protocol and same logistical platform as for all of the 3500 samples collected in 2006 for different projects and clients, and with a very similar protocol as for the summer 2005 lake-bottom sediment sampling program.

Samples were directly shipped from Chevery to IOS facilities in Ville de Saguenay (Chicoutimi). The IOS laboratories were responsible for sample processing while Activation Laboratories Ltd. (Actlabs) of Ancaster, Ontario, performed the chemical analyses. Analytical packages included 63 elements analyzed by inductively coupled plasma mass spectrometry (ICP-MS) and 47 elements by instrumental neutron activation analysis (INAA). Sampling of the Chevery group of properties required two (2) days of field work in the summer of 2006, from the 26th to the 27th of June. Samples were processed at IOS facilities from July 7th to July 31st and shipped to Actlabs from July 27th to August 7th 2006.


GEOLOGICAL MAP OF QUEBEC (CARTE GÉOLOGIQUE DU QUÉBEC)

Québec
Ministère des
Ressources naturelles

Surface area of Quebec
(Superficie du Québec):
1 667 926 km²

MAJOR GEOLOGICAL
DIVISIONS OF QUEBEC
(GRANDS ENSEMBLES
GÉOLOGIQUES DU QUÉBEC)

- Churchill
- Superior (Supérieur)
- Grenville
- Appalaches
- Plate-Forme

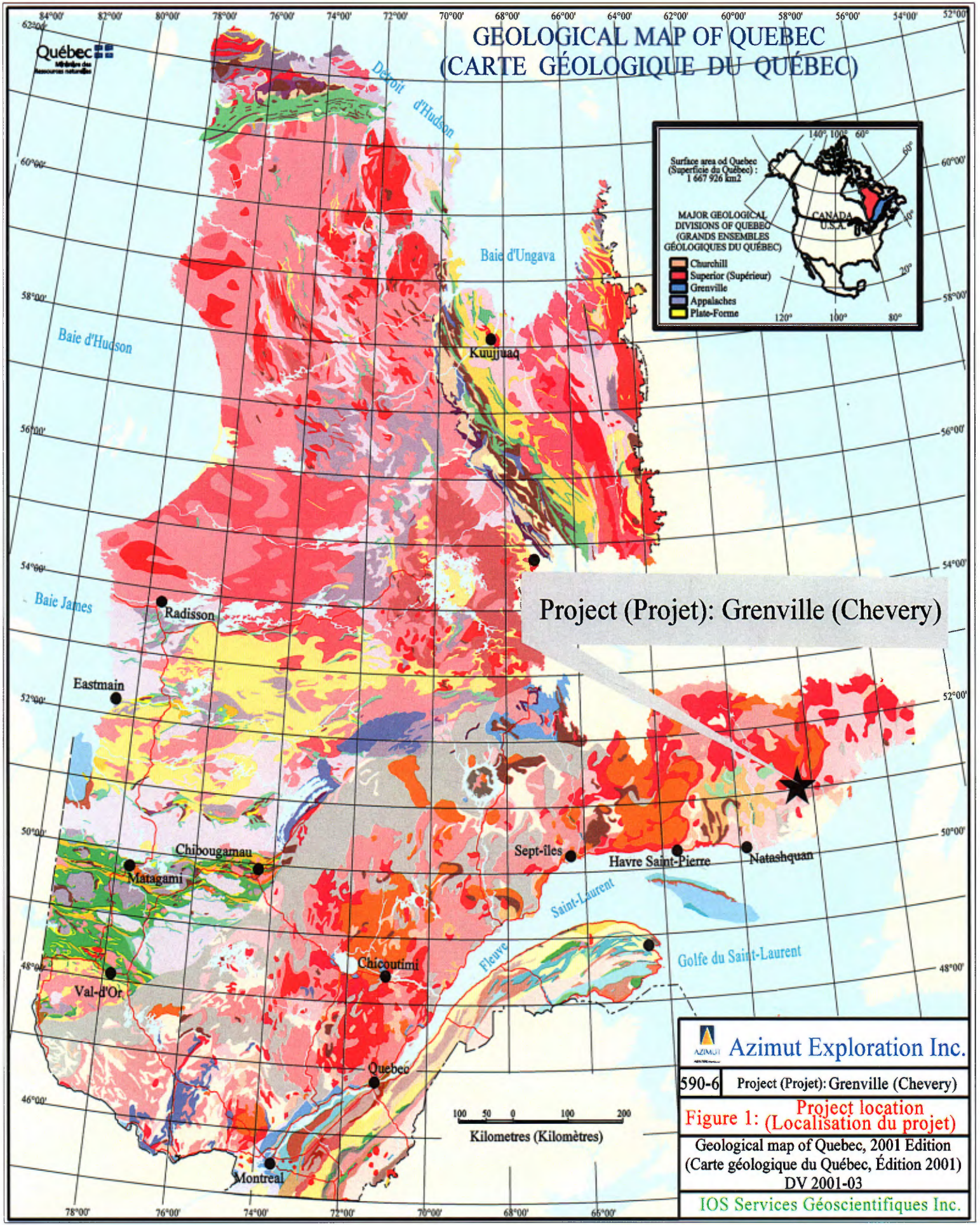


Project (Projet): Grenville (Chevery)

**Project location
Figure 1: (Localisation du projet)**

590-6 Project (Projet): Grenville (Chevery)
Geological map of Quebec, 2001 Edition
(Carte géologique du Québec, Édition 2001)
DV 2001-03

IOS Services Géoscientifiques Inc.



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TERMS OF REFERENCE

Azimut Exploration Inc. contracted *IOS Services Géoscientifiques Inc.* (IOS) to conduct a "turn-key" lake-bottom sediment sampling and analysis program on their Chevery group of properties. IOS was responsible for logistical planning, sampling and sample management, shipment of samples to analytical laboratories, quality control and reporting and interpretation of analytical results. The client indicated he wanted a 3-5 kilometres fringe sampled around the property.

Under the supervision of Réjean Girard, P. Geo, Jonathan Lalancette (engineer-in-training) planned the location of sampling sites. We recommended an optimal sampling grid of one sample per square kilometre, although it was necessary to adjust the grid in some areas according to lakes availability. In addition, a five (5) kilometre rim around the property blocks was also sampled. Final selection of sampling sites was performed in the field in the course of sampling, to account for lake morphology, depth and sediments availability. This report was written by Réjean Girard, P. Geo.

PROPERTY DESCRIPTION

The Chevery group of properties, located about 70 kilometres northwest from the community of Chevery (**figure 1**) in NTS map sheets 12N/01 and 12K/16, is made up 245 map designated cells (MDC), divided into two (2) claims blocks and representing a total area of approximately 133 km².

The two (2) claims blocks lie within traditional Innue territory, but are not entailed by any restrictions with regards to mineral exploration rights.

Access to the property requires airborne transport.

PREVIOUS WORK

The area of the Chevery group of properties was mapped in the 1970's at a scale of 1:250000 by the Ministère des Richesses naturelles.

The MRNQ (Ministère des Ressources naturelles du Québec) carried out a lake-bottom sediment sampling campaign in the

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area in 1989 and 1990 (Beaumier, 1989a; Beaumier, 1989b; Beaumier, 1992).

REGIONAL GEOLOGY

Geologically, the property is located in the eastern part of the Grenville Province, within the allochthonous polycyclic belt (Rivers et al., 1989). This tectonic assemblage is characterized by rocks metamorphosed and tectonized in an orogen prior to the Grenville orogen and made up of various gneisses and migmatites intruded by anorthosite-mangerite-charnokite-granite complexes.

On the regional governmental geological map, the larger southern block overlies migmatites and granitic gneisses as well as anorthosites, gabbroic anorthosites and mangerites. The northern smaller block overlies anorthosites, gabbroic anorthosites and mangerites.

QUATERNARY GEOLOGY

Detailed quaternary geology is not available for the area.

The origin of lake sediments (gyttja) is complex and includes a very fine detrital fraction of organic matter, diatom mud and orthochemical precipitates. Many assume that the detrital fraction accounts for the majority of metals found in Gyttja of some samples. The source of this detrital fraction is complex and largely dominated by the motion of particles in the surface runoff or by eolian deflation. Overburden sediments from a lake's drainage basin are thus usually considered to be the source of most metals present in the gyttja, and an understanding of this relationship is essential for the interpretation of survey results. This simplistic interpretation is however challenged by the author.

SAMPLING PROGRAM

A total of 155 lake-bottom sediment samples were collected on the Chevery group of properties between the 26th and the 27th of June 2006. The samples were shipped from there to IOS laboratories by IOS personnel.

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During the complete sampling program of the Grenville project, the sampling crew consisted of five IOS personnel: Anatole Pilon (mining technician), Jonathan Lalancette (eng. in training), Joannie Béland (geology student at UQAC), Julie Marchand (analytical chemistry student) and Dominique Lavoie (manoeuvre). Canadian Helicopters Ltd. team included André Daneau, pilot and Marc Dubé, mechanic, who attended the pontoon-equipped Bell 206 Jet-Ranger helicopter (C-GMKT). The IOS base camp in Sept-Îles was used as an operational base during the sampling program on the North Shore.

SAMPLING PROTOCOL

Sampling sites locations were planned by Jonathan Lalancette (engineer-in-training) under the supervision of Réjean Girard, P. Geo. Sampling pattern was established as uniformly as possible across the property. In larger lakes, samples were taken away from shore, within bays or near tributary discharges. Sampling methods were rigorously applied over all of the different projects. Moreover, sampling consistency is further assured by the fact that sampling was carried by the same two persons for the entire 2006 lake-bottom sediment sampling program.

Sampling sites were recorded into a GPS device prior to field work to ensure efficient navigation. Sampling runs consisted of 20 to 55 sites, forming a loop. The number of samples depended upon the distance covered, with the base camp or fuel cache as the point of closure. This procedure circumvents the necessity to maintain a fuel cache on the property. The helicopter pilot, in charge of navigation, simply followed the GPS directions from site to site, with the help of a topographic map that indicated the run. The landing site was at the pilot's discretion, ideally located where the water was the darkest, thus the deepest, to ensure best chances of obtaining suitable material (gyttja). It should be noted that on a few occasions on the Chevery group of properties, lakes were too deep to be sampled with the torpedo.

Once the helicopter landed on the lake, the sampler would drop the sampling device to the bottom and pull it back to the surface with a rope. A winch was not necessary. The torpedo-shaped device consisted of a non-alloyed carbon steel tube custom built for the project, 71 cm in length and 7.3 cm in diameter. The pressure exerted by the sediments on the retention valve is enough to ensure that the near-liquid gyttja remained inside the torpedo during its ascent. At the

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surface, the torpedo content is emptied into a "Kraft" paper bag. At a few sites, the torpedo needed to be dropped and rose more than once to recover sufficient material. The sample bag was then placed in a small pail to allow recovery of drained water. Both the bag and the pail were pre-numbered. Once emptied, the torpedo is rinsed several times in the lake water, and re-rinsed at the next site to minimize contamination risk. Then, the pail is sealed, a GPS location (± 10 m) recorded and the sample number linked to the position. Given the pace at which sampling proceeded and the conditions under which it was performed, it was not possible to make a description of the material or of the site. Sample descriptions were made later in the laboratory during sample preparation.

At base camp, samples were removed from pails and shipped directly to IOS facilities in Saguenay (Chicoutimi). Sample locations in UTM nad-27 coordinates are listed in Table 1 of Appendix 2, and sample descriptions are provided in Table 2 of Appendix 2.

SAMPLE PROCESSING

Drying

At the IOS facilities, samples were suspended in a well ventilated warehouse until fully dried, where the water's pH and TDS were measured using an Orion 4-Star pH/conductivity meter. It is important not to heat the samples to avoid losses of volatile elements, and to manipulate them on a regular basis to avoid hardening. During the drying process, lake sediments tend to cement as hard as porcelain, which then require to be hammered with a wooden or rubber mallet. Drying of the samples typically takes about one (1) month.

Hammering

Once sufficiently dried, samples were sorted and queued for processing. First, each sample is weighted in a disposable weighting dish, where a visual description is made (colour; proportions of organic matter, sand, silt and clay). The sample is then placed in a clean paper bag and hammered on a steel plate with a rubber mallet until enough disaggregated gyttja clumps is made available. The sample does not need to be entirely disaggregated during this process.

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Grinding

Disaggregated material is triturerated using a RETSCH RM-0 mechanical agate mortar and pestle or a Retsch RM-100 alumina ceramic mortar and pestle. Pestle weight is removed to reduce pressure and wearing. Some samples were manually triturerated using a porcelain mortar and pestle because of technical difficulties. The mortar and pestle are decontaminated between each sample using compressed air, sugar processing and finally cleaned with demineralised water after each sample. Both mortar and vibrating screen are placed in well-ventilated hoods with external exhaust to eliminate dusting.

Sieving

Ground samples were sieved to -90 μm (170 US standard mesh) using a RETSCH AS 200 vibrating sieve for about 10 minutes. About 30 grams of sieved material, or typically half the sample, is needed. Remaining material were not processed and stored for IRM preparation. Both fine and coarse fractions from sieving are weighted and the mass balance calculated. The two size fractions are bagged and placed in separate trays. The remaining coarse material is stored at the IOS laboratory, pending to be returned to client. Fine fractions are packaged and sent weekly to the analytical laboratory (Actlabs). Any equipment that came into contact with the samples is cleaned between each sample using compressed air and ultrasonic bath for the sieves. Processing measurements are listed in Table 2 of Appendix 2.

Quality control during preparation

Quality control in such projects is a complex issue, and numerous monitoring procedures needed to be implemented.

Quality control in sample processing mainly used weight balances. The before and after weights of samples were recorded at each step and the differences calculated. Material loss, which should not exceed 3.5 grams in total, is largely due to airborne dusting in the course of sieving or spills in the course of grinding. Mass gain should not be recorded; if observed, it suggests that samples were accidentally switched, contaminated or subjected to a weighting discrepancy. A total of 35 samples (or 22%) had weight losses that exceeded the -3.5 grams tolerance level. The majority of losses were caused by unusually large samples

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requiring more processing, and occurred mostly at the grinding stage. The average weight loss for this project hovers around -3.03 grams. None of the samples were doped. Wearing of jewellery both in the workplace and at home was strictly prohibited for the whole duration of the project. Along the whole processing project, cleaning sugar was collected and analyzed, providing cleaning efficiency tests.

Placebos (blanks) and internal reference materials (STDSED06, STD25 and sugar) were inserted in the sample sequence. A sample number was omitted every five (5) to ten (10) samples during field sampling in order to introduce these control materials at the preparation process. Internal reference materials STD25 and STDSED06 were prepared beforehand and are visually indistinguishable from the other samples sent to Actlabs.

SAMPLE ANALYSIS

Analytical Methods

Activation Laboratories (Actlabs) from Ancaster, Ontario, performed the analyses. Two analytical methods were requested: plasma emission mass spectrometry (ICP-MS, package UT-1) and instrumental neutron activation (INAA, package 2A+).

Analysis by ICP-MS provides the following advantages:

- Simultaneous analysis of 59 elements, the majority of which are significant to exploration;
- Very low detection limits, between 0.1 ppb and 1 ppm, major elements being diluted to match specification ranges;
- Excellent stability;
- Gold detection limits at 0.5 ppb. Significant contamination problems occurred with ICP-MS gold in the sampling program of 2005, which were significantly corrected in 2006. However, this contamination problem has not been completely resolved by Actlabs laboratories, and ICP-MS gold values should be used with caution.

The disadvantages of the ICP-MS method are the following:

- The analytical procedure uses only 0.5 grams of material

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and is thus sensitive to the homogeneity of the material and the nugget effect, which is particularly significant for gold;

- About 10% precision on most elements;
- The use of a such a small amount of material renders the method sensitive to contamination, notably for gold;
- Some spectral or matrix interferences require correction;
- Digestion in aqua regia (HCl-HNO₃) is incomplete, leaving most of the silicates undissolved. The quantities measured for a number of elements are thus partial, sodium being the most dramatic example. However, digestion is quasi-complete for sulphides and gold (>90%).

Results of ICP-MS analysis are listed in **Table 1 of Appendix 3**, with analysis certificates in **Table 9 of Appendix 4**.

Analysis by neutron activation (INAA) using pressed pellets offers the following advantages:

- The simultaneous determination of 34 elements, some of which are gold pathfinders;
- Detection limits in the ppm range, although they are higher than ICP-MS detection limits;
- Total analysis: no digestion required;
- Analysis using an average of 15 grams of material, which minimizes the nugget effect;
- Limited spectral or matrix interferences, only europium interferes with gold;
- Considered by the laboratory as the most reliable method for gold. It provides a detection limit of 1 ppb as advertised by the lab. The true detection limit, according to the author's controls, is even lower than indicated.

The main limitation of this analytical method is that the majority of base metals (Cu, Zn, Ni) are not analyzed, or have rather high detection limits.

Results of neutron activation analysis (INAA) are listed in **Table 2 of Appendix 3**, while certificates are provided in **Table 10 of Appendix 4**

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Loss on Ignition Analysis

Loss on ignition (LOI) is a measure of the volatiles lost by burning of the material. Actlabs laboratories calculated the LOI for each of the samples, heating them at a temperature of 1050°C.

As the heat of the sample goes up, several reactions occur that affect its weight:

- At 100°C, free water is vaporized;
- Above 100°C, bound water is liberated (for example, water molecules bound up in clay minerals);
- Above 500°C, molecular water is liberated (for example, from amphiboles and micas);
- Around 550°C, organic matter burns and generates carbon dioxide gas (CO₂) or graphite (C);
- Carbonates decompose and carbon dioxide is liberated (mass loss):
$$\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$$
- Metals oxidize, causing mass gain; for example:
$$\text{FeO} \rightarrow \text{Fe}_2\text{O}_3 \text{ (+11\%)}$$
- Volatile salts vaporize.

For lake sediment samples, loss on ignition primarily represents combustion of organic matter, which is dominated by algal accumulations. The LOI range is typically between 30% and 50% and is a major consideration in the interpretation of the results. Lost on ignition analysis is provided along with neutron activation analysis (INAA) in **Table 2 of Appendix 3**.

Reliability of gold analyses

Analyzing trace quantities of gold in sediments is renowned for being difficult. Detection limits below the usual 5 ppb fire-assay threshold has only been commercially available for a few years, following the introduction of inductively coupled plasma mass spectrometers. It remains highly prone to contamination and sensitive to spectral interpretation, particularly with respect the peak to background ratios. Many geochemists still do not consider this method as reliable enough upon which to base any interpretation. Furthermore, very few lake sediment surveys

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using this method are available to use as references. On the other hand, the author of this report carried out rigorous and thorough quality monitoring and interpretation, establishing the limits of reliability.

Gold was analyzed using two methods: neutron activation with a detection limit of 1 ppb and ICP-MS with a detection limit of 0.5 ppb. No samples were re-analyzed by a different laboratory in 2006.

The gold analyses performed both in 2005 and 2006 were plagued by severe discrepancies between INAA and ICP-MS. In 2005, these discrepancies were considered to be the result of contamination during digestion by aqua regia and were almost, though not completely, corrected by Actlabs in 2006. This type of contamination was not detected in Chevery samples. In 2006, a severe contamination problem with INAA analysis has been detected for part of the samples processed within the Grenville project, in the course of pressed pellets fabrication. Five batches (batches 3,4,5,6, and 7) were plagued by this contamination. Consequently, all samples above 8 ppb, or half of the samples, were requested to be reanalyzed, though about 250 of them lacked sufficient available material for reanalysis. No samples from the Chevery property had to be reanalyzed.

Interpretation of gold analysis is also a tricky task, considering the nuggetty distribution of this metal. This nugget effect is enhanced by ICP-MS, considering the small aliquot used for analysis.

In light of the conclusions based on analytical quality control, the author made the following recommendations in 2005 concerning the gold analyses:

- 1. Gold analysis by neutron activation is the most reliable method. The instrumental discrepancies which can be occasionally detected by INAA for abundant elements are not significant for gold compared to its intrinsic variability;*
- 2. The nugget effect is apparently significant in the area, and is typically in the order of 10 ppb. One of the consequences of the nugget effect is that neighboring samples within an enriched sector can be either anomalous or barren.*
- 3. Analysis by ICP-MS produced a series of samples that we suspect strongly contaminated by gold, and thus unusable. The method otherwise appears relatively*

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reliable for assumed non-contaminated sample series, so the difficulty lay in filtering out the contaminated values. The author's recommendations are as follow:

- a. Do not take into account any series of samples in which three consecutive samples yield values greater than 10 ppb;
 - b. Do not take into account samples yielding more than 10 ppb if other methods did not detect the presence of gold;
 - c. Do not take into account anomalous zones defined by ICP-MS values if they are not supported by another method;
 - d. Do not take into account analyses for which duplicates from the analytical laboratory (Actlabs) did not reproduce the value;
 - e. An upper cut off value of 20 ppb should be applied.
4. Fire assay tests carried in 2005 were relatively reliable except for values that approached the limit of detection. Samples yielding 4 ppb or less by this method must be excluded.
5. Values used for plotting should represent the average of the various available analyses, irrespective of the method, and should include the IOS sample duplicates, but not those inserted by analytical laboratory. The calculation of the average should take into account the limitations outlined above and the geologist should apply his own judgment;
6. The suggested gold values for use in data presentation and interpretation are indicated in Column 14 of Table 1 in Appendix 1.
7. Numbers of INAA gold analyses were discarded as being suspected heavily contaminated.

These recommendations represent the best interpretation offered by the author. It is possible; however, that subsequent work may provide an alternative explanation for problems and discrepancies, in which case these recommendations may not be relevant. The client is warned to use the data with caution.

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QUALITY CONTROL OF ANALYSES

Analytical quality control is a complex process and requires numerous monitoring procedures. For the 2006 lake-bottom sediment sampling campaign, analytical quality control was carried out at two levels: by IOS and by Actlabs laboratories.

IOS carried out the following analytical quality control procedures for the 2006 Grenville project sampling campaign:

1. Insertion of duplicates among the sample sequence.
Thirty (30) duplicates were inserted in 2006 among the Grenville project samples, including four (4) among the Chevery property samples (**Appendix 4, table 1**). Overall, duplicate assay values for the major elements exhibit a good correlation and discrepancies for gold are within tolerance level with regards to the nugget effect.
2. Insertion of the internal reference material **STD25**, graciously provided by the *Ministère des Ressources naturelles du Québec*, which was also routinely used in the 2005 lake-bottom sediment sampling campaign. This sample was prepared beforehand by the former CRM and is visually indistinguishable from the other samples sent to the analytical laboratory. This material is homogenized stream sediment, which was collected in a site reputed anomalous in the Mont-Laurier area. This sample has been demonstrated as prone to generate erratic values, noteworthy for gold, and inconsistent INAA values for iron, chromium, and a few other ferroalloying elements, suggestive of grinding steel contamination. This material was introduced fifty-six (56) times in 2005, thirty-three (33) times in 2006 and three (3) times among the Chevery property samples. The results are presented in **Appendix 4, table 2**. The values that do not fall within the interval of the average plus or minus two times the standard deviation ($\mu + 2\sigma$; 95% confidence) are highlighted in yellow and the values that do not fall within the interval of the average plus or minus three times the standard deviation ($\mu + 3\sigma$; 99% confidence) are highlighted in orange. Results for two of the samples are stable but ICP-MS values for sample 5901633 are often below $\mu - 2\sigma$, indicative of sample inversion.
3. Insertion of the internal IOS reference material **STDSED06** which was produced by blending lake sediment

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leftovers from the 2005 samples. This material has a matrix rigorously identical to the 2006 samples, which provides a great level of confidence when comparing the results. It was analyzed 427 times in 2006, including twenty (20) times by ICP-MS and sixteen (16) times by INAA among Chevery property samples (**Appendix 4, table 3**). The same highlighted colour scheme as for STD25 was used to identify the anomalous values. Most of the results are stable, exceptions being sample 5901573 which has numerous ICP-MS values lower than $\mu - 2\sigma$, and sample 5901641 which has a few elements with INAA values significantly lower than $\mu - 2\sigma$ and often near the detection limits.

4. Placebos (sample blanks) were introduced as samples. These were prepared from clean high purity grenvillian quartz, pulverized with a steel plate pulverizer (Bico-Braun), sieved at -170 meshes and thoroughly blended. Considering the low detection limits allowed by ICP-MS, this placebo appears not to be totally blank, but significantly contaminated from grinding plates:

- 1,15% iron
- 14 ppm nickel
- 20 ppm copper
- 20 ppm molybdenum
- 0,5 ppm tungsten

The presence of chalcophile elements is also observed, the source of which is unexplained. These metals and metalloids were certified as being absent in previous analyses using other methods. The following grades obtained are constant but higher than the ones obtained for other reference materials or samples:

- 20 ppm copper
- 0,5 ppm arsenic
- 0,2 ppm antimony
- 1,4 ppm tin
- 2 ppm lead

This quartz placebo is certified as being gold free. It has been assayed hundreds of times as rock sample in previous projects. It was analyzed 164 times in the 2006 sampling program, including five (5) times among the Chevery property samples (**Appendix 4, table 4**). The same highlighted colour scheme as for STD25 was used to identify the anomalous values. No significant problems were observed among Chevery samples.

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5. Analysis of the sugar used to clean the mortar and pestle in order to detect possible contamination problems. The cleaning sugar was analyzed six (6) times in 2006, including one (1) time among the Chevery samples (**Appendix 4, table 5**). No significant problems were detected among Chevery samples.

Actlabs (Activation Laboratories) released the following control procedures. Numerous other procedures are inserted but not released to the clients.

6. The laboratory introduces, for ICP-MS analysis and at the beginning of each analytical run, a blank (nanopure aqua regia) plus four Certified Reference Materials (GXR-1, GXR-2, GXR-4 and GXR-6; **Appendix 4, table 6**). No significant problems were detected for the blanks. However, for the certified reference materials, numerous elements had assayed values which were stable but significantly lower than the certified values, due to the aqua regia partial digestion. It should be noted that the results presented in **Appendix 4, table 6** represent all the ICP-MS control reference materials analysed in the course of the Grenville project.
7. About 7% of the analyses are re-run by ICP-MS. These replicates allow the estimation of the instrumental stability. They do not detect problems at dissolution or preparation. For the 2006 sampling campaign, Actlabs reanalyzed the samples twice (Rep Orig and Rep Dup). As a result, three analyses are available for each of the replicated samples. In total, twelve (12) samples from the Chevery property were replicated (**Appendix 4, Table 7**). All values show good correlation.
8. For INAA, Actlabs introduced different reference materials (blank, LKSD-1, L-STD 20 ppb Au Spike, IOS STD and NIST 1632c). The reference material IOS STD is in fact the internal reference material STDSED06 which was sent to Actlabs in bulk in the summer of 2006. All samples with gold are recounted, although not released to the client. The results for these control reference materials are presented in **table 8 of Appendix 4**. Severe gold contamination was detected in some analytical batches within this project. It should be noted that the results presented in **Appendix 4, table 8** represent all the INAA reference materials analysed in the course of the Grenville project.

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9. Both internal reference material, certified reference material and STDSED06 IOS reference material were introduced in each analytical batch.

Finally, numerous elements are analyzed with the use of the two methods, enabling counterchecks:

10. Gold is analyzed both by ICP-MS and INAA. Although INAA has higher detection limits, it is considered to be more precise and accurate.
11. Arsenic, silver, cobalt, chromium, molybdenum, iron, nickel and zinc are near to completely dissolved in aqua regia, and typically show similar results both by ICP-MS and INAA.
12. Sodium, hafnium, thorium, tantalum and rare-earth bearing minerals are not adequately dissolved by aqua regia, and ICP-MS analysis may show significant discrepancies with INAA results.

INTERPRETATION OF RESULTS

The author has been instructed to interpret the present results in terms of their relative abundance and distribution in the secondary environment only. No geological nor metallogenic interpretation has been requested.

Lake sediments are made up of a mixture of fine detrital material, diatomaceous ooze, vegetal debris and orthochemical precipitates. Each of these sources contributes differently to the metallic budget of the sample. The composition of an individual sample can be simplistically deciphered using a diagram of organic matter versus total sodium of the sample (**figure 2**). Organic matter can be calculated from the lost on ignition (LOI) values corrected once for oxygen absorption by polyvalent metals. Total sodium, measured by INAA, is predominantly hosted in plagioclase, which can be related to average crustal granitoids. On such a diagram, lake sediments typically stretch along a mixing line between 4% Na₂O / 0% organic matter for the detrital end-member and 0% Na₂O / 50% organic matter for the diatomite. Excess of organic matter is related to accumulation of vegetal detritus, while deficiency of organic matter suggests accumulation of silica spines from diatomite. A similar diagram, of organic matter versus normative composition of the sediment excluding quartz, enables the detection of iron orthoprecipitation and

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ferrochelation of the metals (figure 2).

Three maps were produced, representing the distribution of uranium, thorium and copper. Each sample is plotted with the use of coloured dot. The dots's size relates to abundance with regards to percentile distribution, calculated for the integrated database of the eight properties of the Grenville project. The dots's colour represents the dominant source signature of the sample which is based upon iron, sodium and organic matter abundance, as indicated on figure 2. This classification is implemented as a routine in the database, and is based uniquely upon chemical signature. It does not consider the sediment description made prior to sample processing. The classification scheme, based upon provincial-scale database, is provided on figure 2. The first diagram is of total sodium (INAA), representing plagioclase content, versus organic matter (figure 2). The gyttja mixing trend between the detrital end-member (4% Na₂O typical for granitoid) and diatomaceous ooze (50% silica, 50% organic matter) dominates the distribution. Most Chevery property'S samples are dominated by diatomaceous ooze, more or less ferrochelated, and indicative of a waterborne cationic source for their metal content.

Classification template:

- Brown: Ferrochelated material, characterized by iron enrichment in excess of typical iron related to detritic material abundance.
- Grey: Glacio-marine clays, or salt-rich material typical or areas underlain by glaciomarine clays.
- Red: Clastic material of terrigenous origin characterized by more than 3% sodium, related to plagioclase abundance.
- Blue: Gyttja: A mixture of clastic material and diatomaceous mud, typical of most lakes in the Canadian Shield.
- Violet: Na-rich gyttja, signature is similar to gyttja but abnormally rich in sodium.
- Green: Diatomaceous mud made up of a mixture of silica test and organic matter, free of detrital clastic material.
- Purple: Silica-rich material, likely dominated by diatomaceous tests, almost free of organic matter.
- Black: Organic matter, typically vegetal detritus, free of clastic material and silica tests.

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Uranium, thorium and copper distributions are provided on map #2, #3 and #4 respectively. Labels beside dots refer to analytical values in ppm, indicated only if the value is above the detection limit. Centile ranks for each sample is provided in **tables 1 and 2 of Appendix 5**. Analytical values above the 85th, 95th and 99th centiles are highlighted in yellow, orange and red respectively.

Sample populations can be estimated with the use of a percentile rank - grade diagram for the most important elements. However, a large number of samples tend to smooth out the distribution curve. Therefore, individual, anomalous sub-populations tend to amalgamate into a single log-normal looking population. A composite diagram, including a distribution sketch, the Na₂O-OM diagram and the percentile distribution plot, is provided for most of the relevant analyses.

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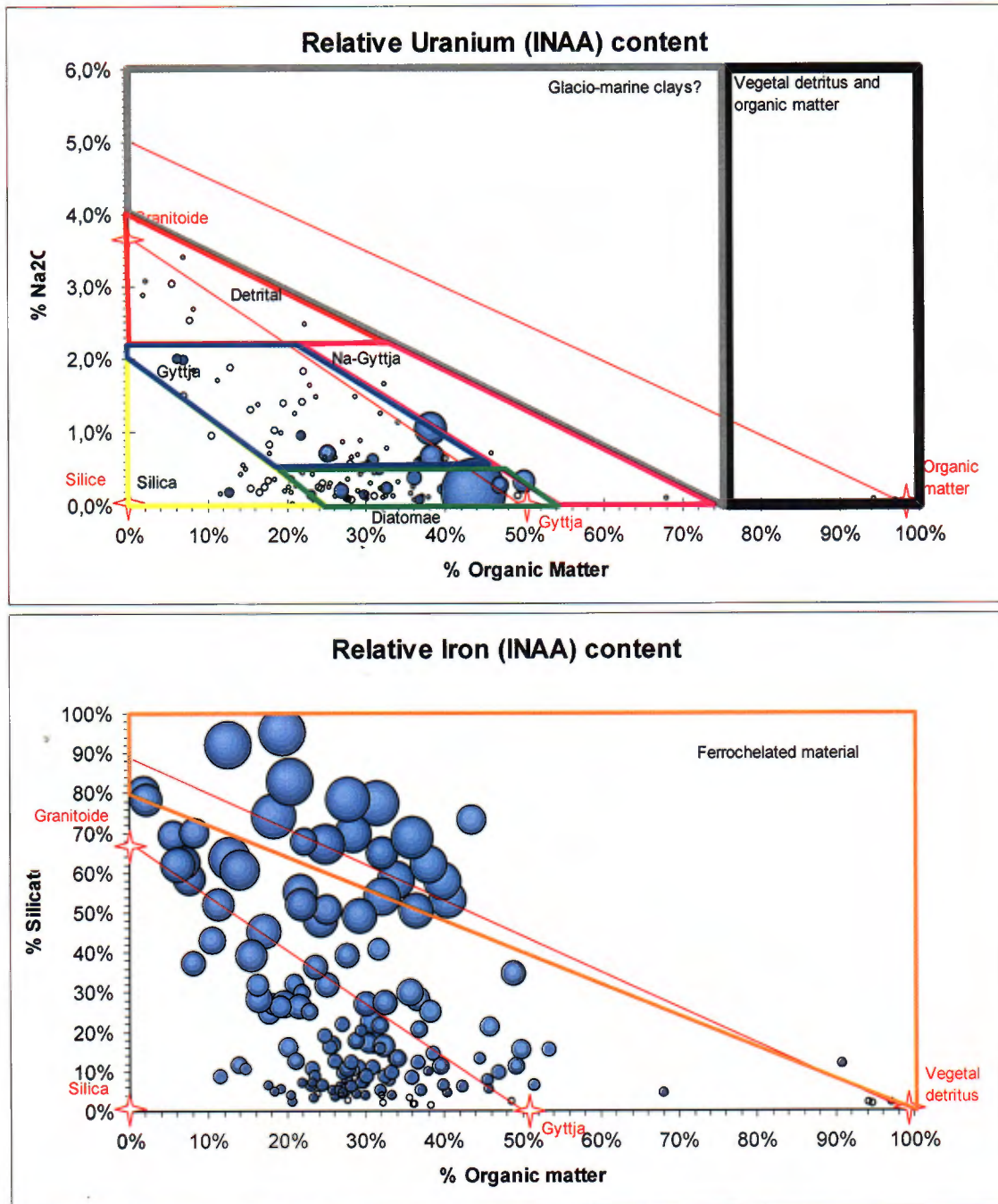


Figure 2: Classification template for source assignation of the samples. Boxes's colour refers to the dots's colour used on the maps. Bubble size represents the relative total uranium content, as measured by INAA (upper template) and iron content (lower template). Notes the uranium bubble size is skewed by the presence of a 1300 ppm value.

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Uranium

According to **figure 2**, uranium is hosted essentially in ooze dominated samples. No detrital dominated sample is apparently enriched in uranium. Chelated uranium scavenged by organic matter is typically soluble in Aqua-regia partial digestion. Uranium-bearing minerals found in detrital component are typically refractory silicates, such as zircon. Since non-refractory uranium minerals are typically not stable in oxidizing environments, such as run-off and stream waters, they are likely not to be sedimented as detrital phases. The presence of refractory uranium phases can be detected if uranium is enriched in total INAA uranium compared to ICP-MS partial digestion uranium (**figure 3**). Only one sample 5901158 show such INAA enrichment, suggesting a non-significant contribution. The co-enrichment of uranium and thorium up to 28 ppm U is suggestive of detrital uranium oxide accumulation. The five most uranium-rich samples are thorium depleted, suggestive a true cationic labile contribution.

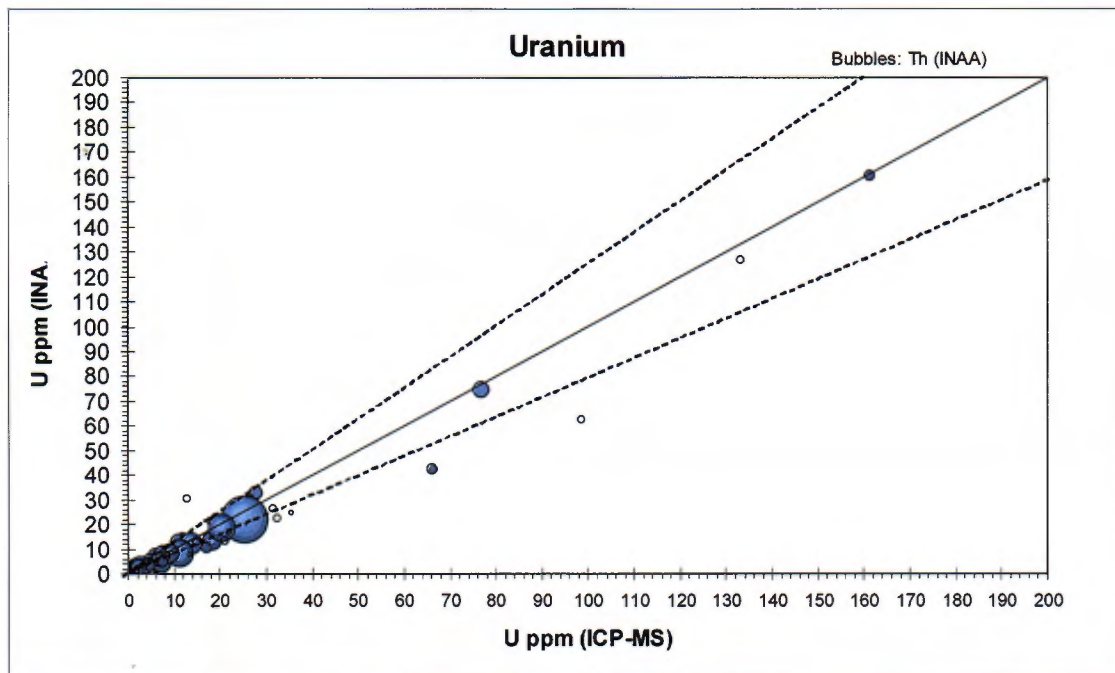


Figure 3: Correlation diagram of soluble uranium as analyzed by ICP-MS after aqua regia versus total uranium as analyzed by INAA. Dash lines beside the 1:1 ratio line represent +/- 10% analytical precision. Uranium rich samples are thorium poor, indicated by bubble size.

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Uranium is slightly enriched in Aguanish samples, compared to the overall Grenville survey, with the property average slightly above the regional average (11.8 ppm versus 8.4 ppm, with the 1310 ppm is excluded). A total of 23 samples, or 15%, are above the 90th percentile, while 7 samples or 5% are above the 99th centile.

Sample 5901709 is outstanding at 1310 ppm (0,13% U), the highest of the whole survey. This sample is ferrochelated, thus representing truly cationic uranium. It is supported by two other samples (5901583 and 1586, respectively at 161 ppm, 133 ppm and 288 ppm) and numerous other enriched samples, which form a definite cluster east of Lac Saint-Lunaire. These samples, with two exceptions, are organic matter rich. They were all collected in isolated lakes on hilltops, at the head of restricted drainage patterns. A second cluster north-east of the property includes the very rich sample 5901631 at 288 ppm. Again, this sample is ferrochelated and from an isolated from the head of a short drainage. It is supported by two anomalous samples very rich in silica (diatoms test?). All the samples above 40 ppm are thorium free. No uranium anomaly is detected on the small block of claim north of Lac du Gas. A co-enrichment with vanadium is noted, sample 5901709 being the richest of the survey both in uranium and vanadium (341 ppm).

Sample 5901709 is followed by about 6 anomalous samples. These are visible both by INAA and ICP-MS, which rules out the "memory effect" of the ICP. Propagation of the anomaly through contamination at the preparation room is unlikely at the level here noticed.

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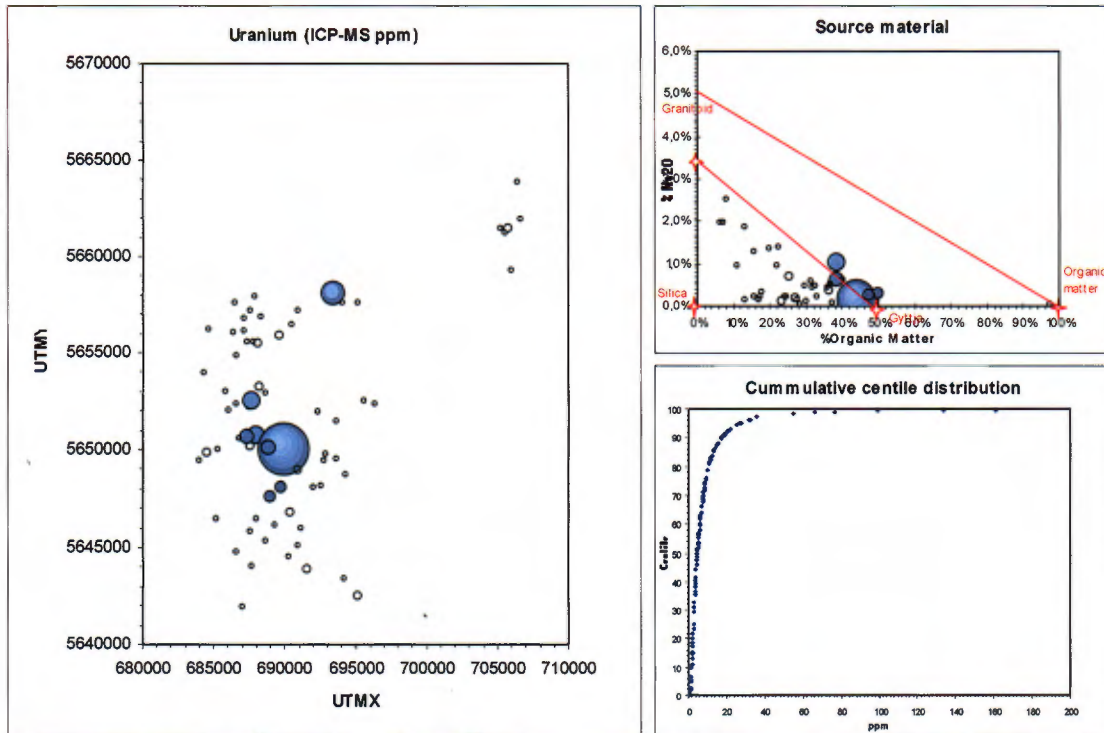


Figure 4: Uranium distribution as analyzed by ICP-MS after aqua regia partial digestion. The left bubble-plot diagram represents the regional relative dispersion, the upper-right diagram is the usual sodium-organic matter provenience diagram, while the lower-right diagram is of the centile-grade curve. Sample 5901709, with its 1310 ppm value, distorts bubble size, rendering other anomalous samples less apparent.

Thorium

Inversely to uranium, thorium is significantly depleted in Chevery, with an INAA average of 2,5 ppm, on third of the regional 6.8 ppm. A similar depletion is noted for soluble thorium, with an average of 0.4 ppm versus the regional 0.9 ppm. One sample 5901653 is slightly anomalous at 13.5 ppm, being the only one above the 80th centile. Notice map #3 uses the ICP-MS measurement, indicating thus only the leachable thorium. Both elements show similar chemical behaviour in water, both being scavenged by organic matter. The source of cationic vanadium is however unclear, this element being usually locked in refractory oxides.

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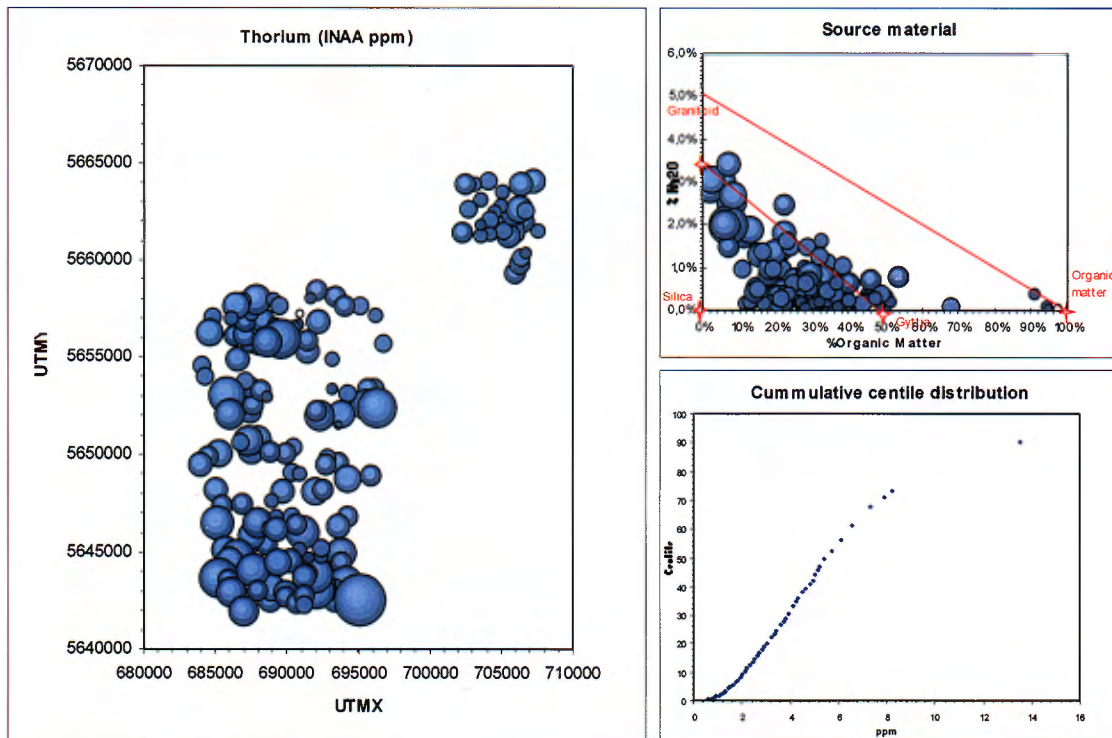


Figure 5: Total (INAA) thorium distribution. Note centile distribution curve (lower-right) lacking anomalous samples.

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Copper and transition metals

Copper is distinctly depleted in Chevery property. The property's average, at 6.8 ppm, is one third the regional average of 21 ppm. No samples exceed the 80th centile of the regional population, indicative of no localized enrichment (figure 6). Copper shows a nice correlation with iron, suggestive of being scavenged by ferrochelation (figure 7).

No significant anomaly is any usual transition metal, such as chromium zinc, nickel, cobalt or silver, is noticed. Exception is vanadium, with four samples above the 99th, and the richest samples of the survey 5901709, at 341 ppm. The meaning of a vanadium anomaly is uncertain but it distinctly has some relation with uranium enrichment. No relation is indicated between vanadium and iron or other transition metal.

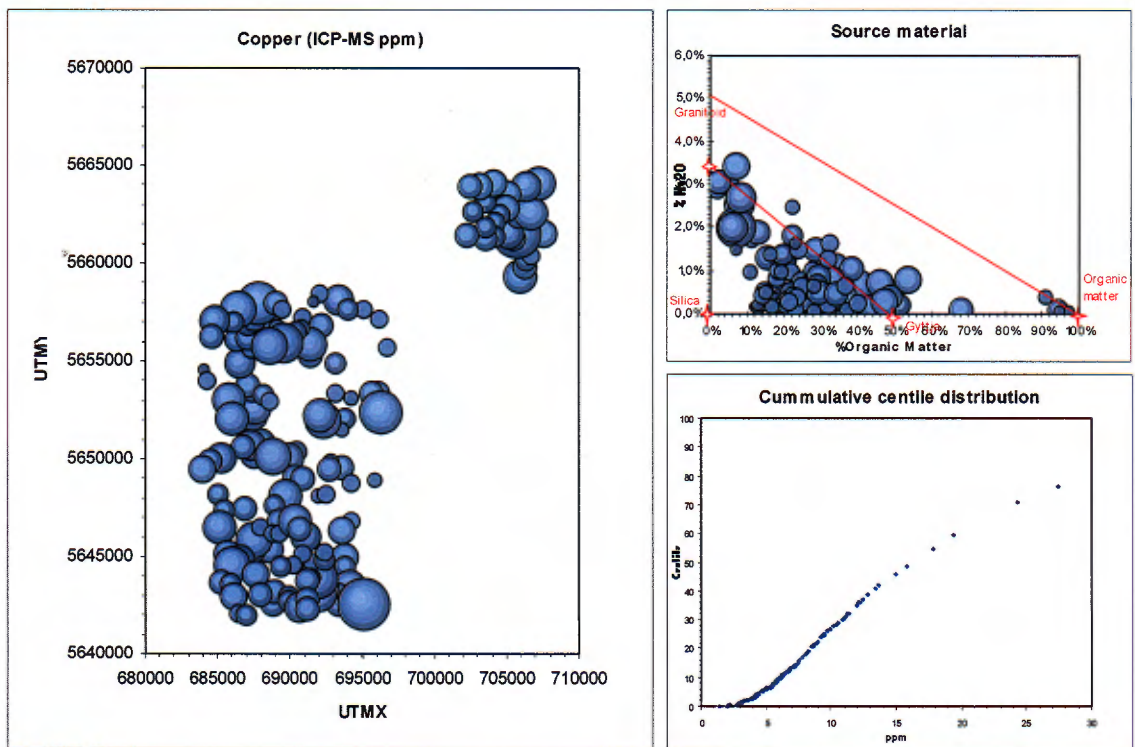


Figure 6: Copper distribution. Note the lack of anomalous values as indicated on the centile distribution curve (lower-right diagram).

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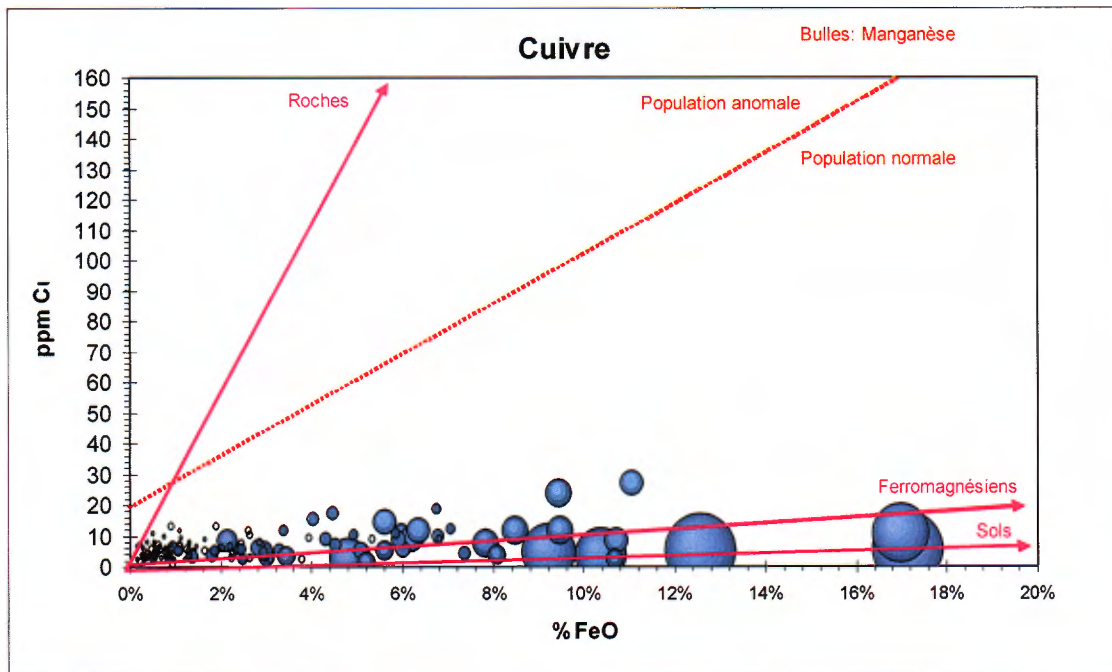


Figure 7: Diagram of copper versus total iron, characterized by a rather clean correlation. The ratio is typical of ferrochelated materials, such as found in soil's B-horizons, also coincident with the typical copper-iron ratio of usual ferromagnesian minerals. No real copper enrichment is noticeable.

Metalloids

Metalloids, such as arsenic and antimony, are near to absent in Chevery. Tellurium is indicated as highly anomalous in sample 5901703 to 5901732, and almost absent for other samples. Such distribution is suggestive of an instrumental drift, and thus a false anomaly.

Gold

Gold is near to absent in Chevery, being detected in only 32 samples by ICP-MS with a maximum value of 4.9 ppb, or detected in 28 samples by INAA to a maximum of 5 ppb. The ICP-MS gold makes a small cluster to the northwest, as well as a unusual thin ribbon of sample along a southwest northeast trend. Such distribution correspond to a faint topographic feature, likely a fault. Concentration of cationic gold in lakes along fault is an occasional feature.

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Gold measured by INAA is not more enriched than ICP-MS, but shows a completely different distribution. It makes two dim clusters, first one on northwest corner and oriented north-south, while the second, in southwest corner, is oriented northwest-southeast. The meaning of these is uncertain. Gold measured by INAA typically do not correlate with gold by ICP-MS, and is interpreted as more detrital in origin.

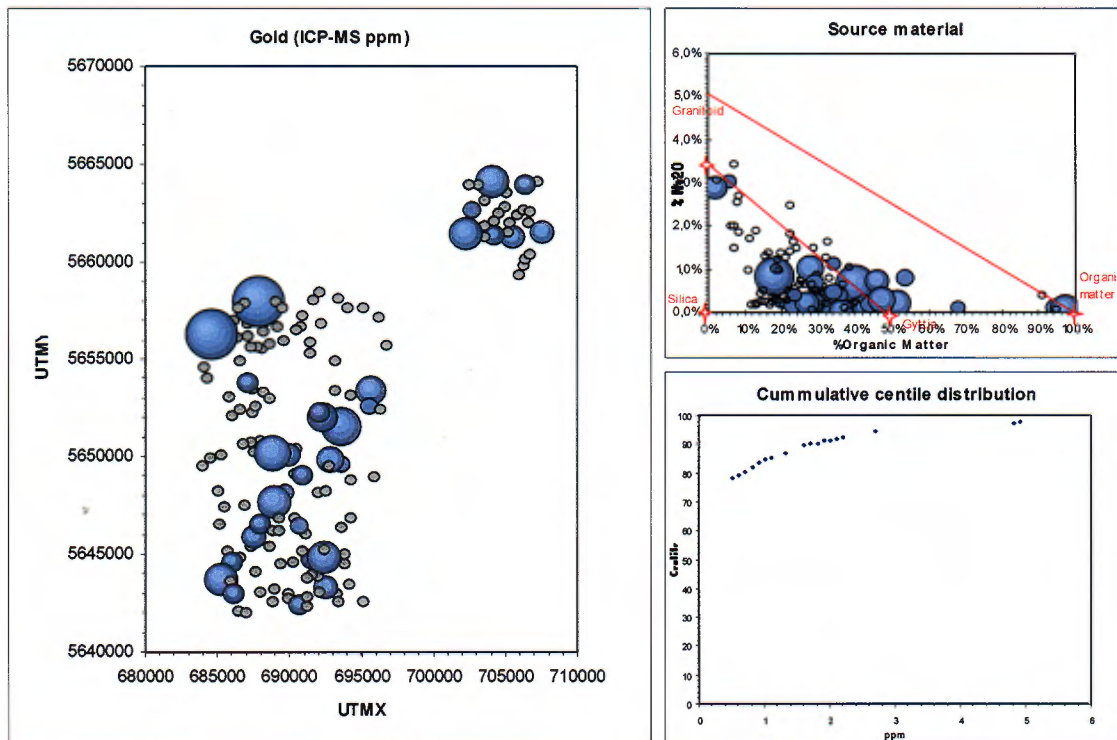


Figure 10: Gold distribution as analyzed by ICP-MS after aqua regia. None of these values are significantly above the detection limit. The northeastern trending alignment in the center of the property is intriguing, coincident with a faint topographic feature.

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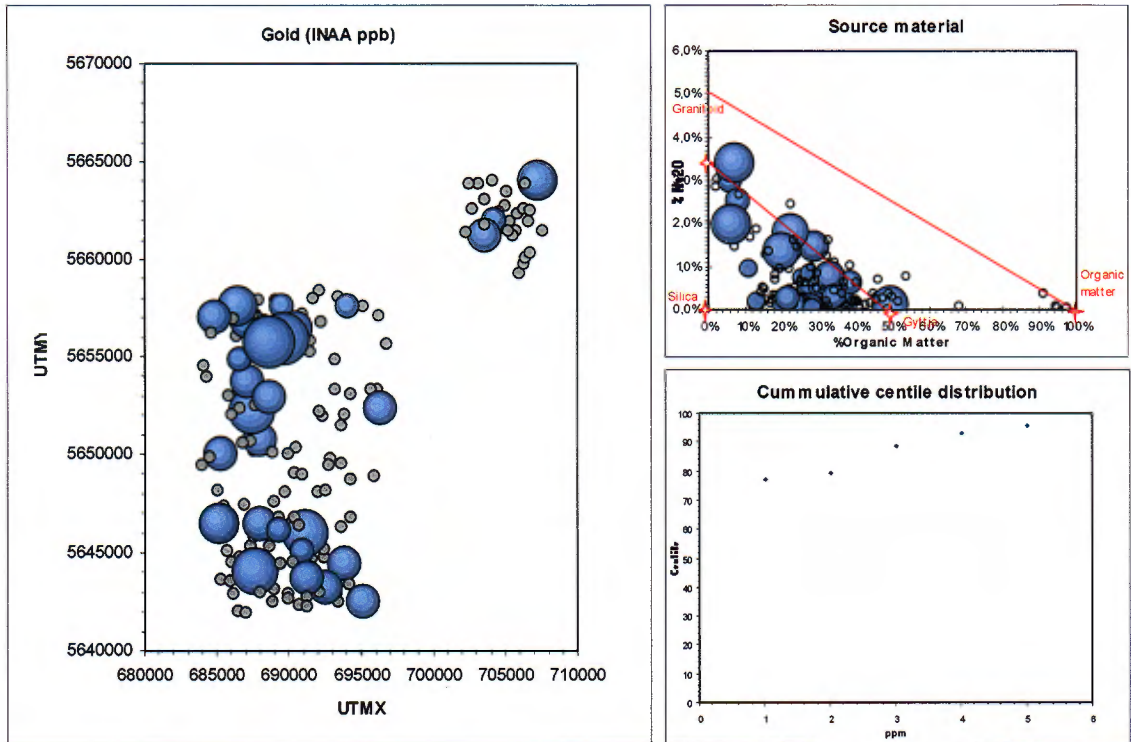
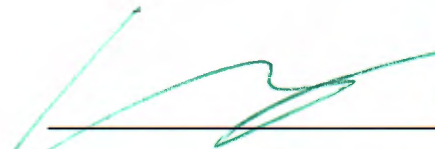


Figure 11: Gold distribution as analyzed by INAA. None of these values are significantly above the detection limit. Two dim clusters can be outlined.

RECOMMENDATIONS

The author considers that only uranium is significantly anomalous within Chevery. The outstanding 1310 ppm value, as well as all values above 100 ppm, deserves field evaluation. In the author experience, any labile uranium anomaly in lakes sediment is closely associated with an uranium source, which can be found by ground prospecting assuming sufficient outcrop exposure.


 Réjean Girard, P. Geo.

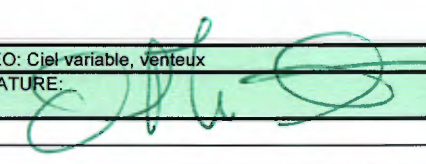


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APPENDIX 1
DAILY REPORTS

RAPPORT JOURNALIER	Date: 2006-06-26	PROJET: 590	CAMPEMENT: Sept-îles	MÉTÉO: Ciel variable, venteux
		CLIENT: Kennecott- Azimut	RESP: J. Lalancette	SIGNATURE: 
		APPEL QUOTIDIEN: 1		

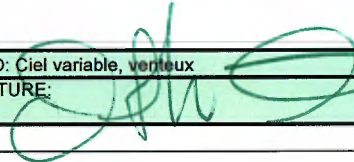
COMMENTAIRES SUR LES TRAVAUX:
 Pilote + Mécanicien mobilisés tôt le matin pour Chevery, préparation de l'envoi des échantillons pour Havre-Saint-Pierre, par Jonathan et Anatole.
 2ème voyage d'hélico pour mobiliser Jonathan et Anatole.
 Préparation du terrain en après-midi (brume en après-midi sur Chevery).
 0 échantillons.
 Le pilote et le mécanicien couchent au hangar de Canadian et fournissent un camion.
 Julie et Johanné au laboratoire de Sept-îles.

COMMENTAIRES SUR LA GÉOLOGIE:

PERSONNEL	TÂCHES	Couché	Heures	Hors camps	Échant: De	Échant: A	FACT.
1: Jonathan Lalancette	Mobilisation et logistique	Chevery		x			
2: Anatole Pilon	Mobilisation et logistique	Chevery		x			
3: André Nadeau	Mobilisation et pilotage	Chevery		x			
4: Marc Dubé	Mobilisation et mécanique	Chevery		x			
5: Julie Marchand	Laboratoire	Sept-îles					
6: Johanné Béland	Laboratoire	Sept-îles					
7:							
8:							
9:							
10:							
11:							
12:							
13:							
14:							
15:							

VOLS D'HYDRAVIONS:	AVARIS MÉCANIQUES:
TEMPS D'HÉLICOPTÈRE: 2,6 h	ACCIDENTS:
VOYAGES DE CAMION: Local Sept-îles	TEMPS MORT:
EXPÉDITION D'ÉCHANTILLONS:	AMÉLIORATIONS À PRÉVOIR:
ACHATS:	
MOBILISATION: de Saint-Augustin à Chevery.	
DEMOBILISATION:	AVIS DISCIPLINAIRE:
FORAGE- # TROU: DE: À:	VÉRIFICATION:
BUDGET RÉSIDUEL: DÉPENSES:	FACTURATION:

IOS Services Géoscientifiques Inc

RAPPORT JOURNALIER		Date: 2006-06-27	PROJET: 590	CAMPEMENT: Sept-Îles	MÉTÉO: Ciel variable, venteux				
			CLIENT: Kennecott- Azimut	RESP: J. Lalancette	SIGNATURE:				
			APPEL QUOTIDIEN: 1						
COMMENTAIRES SUR LES TRAVAUX:									
Jonathan a échantillonné 3 traverses (155 échantillons) au Nord-Ouest de Chevery (Distance des échantillons : 70 km)									
Anatole s'est occupé de la logistique concernant l'envoi des échantillons par bateau, les billets d'avions et le matériel nécessaire pour Havre-Saint-Pierre.									
Julie et Joannie ont passé la journée au laboratoire de Sept-Îles.									
Échantillonnage terminé pour Chevery.									
COMMENTAIRES SUR LA GÉOLOGIE:									
PERSONNEL	TÂCHES	Couché	Heures	Hors camps	Échant: De	Échant: A	FACT.		
1: Jonathan Lalancette	Échantillonnage	Chevery		x	5 901 553	5901732			
2: Anatole Pilon	Logistique	Chevery		x					
3: André Nadeau	Pilote	Chevery		x					
4: Marc Dubé	Mécanicien	Chevery		x					
5: Julie Marchand	Laboratoire	Sept-Îles							
6: Joannie Béland	Laboratoire	Sept-Îles							
7:									
8:									
9:									
10:									
11:									
12:									
13:									
14:									
15:									
VOLS D'HYDRAVIONS:				AVARIS MÉCANIQUES:					
TEMPS D'HELICOPTÈRE: 7,6 h				ACCIDENTS:					
VOYAGES DE CAMION: Local Sept-Îles				TEMPS MORT:					
EXPÉDITION D'ÉCHANTILLONS: 155 échantillons de Chevery à Havre-Saint-Pierre.				AMÉLIORATIONS À PRÉVOIR:					
ACHATS:									
MOBILISATION:									
DEMOBILISATION:				AVIS DISCIPLINAIRE:					
FORAGE- # TROU:		DE:	À:	VÉRIFICATION:		IOS Services Géoscientifiques Inc			
BUDGET RÉSIDUEL:		DÉPENSES:		FACTURATION:					

APPENDIX 2

LOCATION AND SAMPLING

Table 1: Sample location and interstitial water analysis

Table 2: Sample preparation and description

Table with columns: PROJECT NUMBER, SAMPLE, CONTENTS, EASTING, NORTHING, NTS Sheet, MDC, SAMPLING (Gold), INTERSTITIAL WATER (pH, Conductivity, Temperature, Date, Comments). Rows include various sample IDs and their corresponding analytical results.

PROJECT NUMBER	SAMPLE	CONTENTS	EASTING	NORTHING	NTS Sheet	MDC	SAMPLING								INTERSTITIAL WATER					
							Gold								pH	Conductivity (µs/cm)	Temperature (°C)	Date	Comments	
							ICP-MS ppb	ICP-MS" (dupl.) ppb	ICP-MS" (Rep Orig) ppb	ICP-MS" (Rep Dup) ppb	ICP-MS Y/N	INAA ppb	INAA" (dupl.) ppb	FA-ICP ppb						Average ppb
Nb Analyses:	184																			
Count	Historic						6261	31	238	301	6261	6034	82	356	6261	5608	5574	5155		
99 Percentile	Historic						35,5	6,2	5,9	8,5	14,4	12	8	34	10,0	7,25	2580,4	29,10		
Average	Historic						2,9	0,8	0,5	0,5	0,8	1	0	2	0,9	5,76	193,8	20,45		
Maximum	Historic						5110,0	7,3	19,2	33,0	20,0	484	11	95	248,1	8,51	5020,0	32,90		
Minimum	Historic						-0,5	0,0	-0,5	-0,5	0,0	-2	0	0	-1,0	0,49	0,0	8,80		
Count	Project						184		12	12	184	184	4	0	184	156	158	158		
Average	Project						0,4		0,4	0,3	0,4	1	1	#DIV/0!	0,45	6,15	99,0	20,69		
Std. Dev.	Project						0,9		0,7	0,8	0,9	2	1	#DIV/0!	1,0	0,61	54,7	1,51		
Maximum	Project						4,9		2,2	2,7	4,9	19	2	0	10,7	7,64	544,0	25,00		
Minimum	Project						0,0		0,0	0,0	0,0	0	-	-	0,0	4,42	48,0	19,10		
590	5901721		690825	5645199	12K/16	108101	0,0				0,0	1			0,5	6,97	170,6	19,30	2006-07-07	
Stdsed06	5901722	Stdsed06					0,6				0,6	0			0,3					
590	5901723		690162	5644632	12K/16	108861	0,0				0,0	0			0,0	6,47	132,4	19,60	2006-07-07	
590	5901724		689366	5644532	12K/16	108860	0,0				0,0	0			0,0	5,27	64,8	19,20	2006-07-07	
590	5901725		691437	5643950	12K/16	108863	0,0				0,0	0			0,0	7,19	256,6	19,30	2006-07-07	
590	5901726		691184	5643792	12K/16	108856	0,0				0,0	2			1,0	6,06	83,3	19,50	2006-07-07	
590	5901727		689857	5643003	12K/16	108854	0,0				0,0	0			0,0	5,82	85,0	19,30	2006-07-07	
590	5901728		689812	5642723	12K/16	108853	0,0				0,0	0			0,0	6,04	67,0	22,20	2006-07-11	
Stdsed06	5901729	Stdsed06					0,0		2,2	0,0	0,0	0			0,0					
590	5901730		690580	5642396	12K/16	108855	0,8				0,8	0			0,4	6,18	82,6	19,40	2006-07-07	
590	5901731		691109	5642854	12K/16	108856	0,0				0,0	0			0,0		68,0	22,00	2006-07-11	
590	5901732		691146	5642350	12K/16	108856	0,0				0,0	0			0,0	5,54	64,0	22,20	2006-07-11	
Duplicat	5902308	Duplicat 5901586	687626	5652541	12K/16	107682	0,0				0,0	2			1,1	6,51	103,9	19,40	2006-07-07	
Duplicat	5902309	Duplicat 5901613	687248	5650722	12K/16	108876	1,4				1,4	0			0,7	6,09	149,5	19,50	2006-07-07	
Duplicat	5902310	Duplicat 5901709	689846	5650087	12K/16	106830	0,0				0,0	0			0,0	5,96	116,1	19,30	2006-07-07	
Duplicat	5902311	Duplicat 5901713	689635	5648177	12K/16	106814	3,6				3,6	0			1,8	5,64	88,0	19,50	2006-07-07	

APPENDIX 3
SAMPLE ANALYSIS

Table 1: ICP-MS analysis

Table 2: INAA and LOI analysis

Table with columns for PROJECT NUMBER, SAMPLE, CONTENTS, and various elements (Sn, Sb, Te, Cs, Ba, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Hf, Ta, W, Re, Au, Pb, Bi, Th, U) showing concentrations in ppm and detection limits. Includes sub-headers for 'Nb Analyses' and 'ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS'.

Table with columns: PROJECT NUMBER, SAMPLE, CONTENTS, CERTIFICATE, and Neutron Activation Analysis (INAA) 2A-HUMUS results for elements Au through Pb. The table includes analytical data for 184 different samples, categorized by material (e.g., quartz, std-225) and analysis type (Nb Analyses, Stdsed06, Quartz). Each row provides the concentration of an element in various units (ppm, ppb, g/g) and includes a LoI (%) column.

APPENDIX 4
QUALITY CONTROL

- Table 1: IOS duplicates analysis
- Table 2: STD25 internal reference material analysis
- Table 3: STDSED06 internal reference material analysis
- Table 4: Quartz internal reference material analysis
- Table 5: Processing sugar analysis
- Table 6: ICP-MS certified reference materials analysis
- Table 7: ICP-MS replicate analyses
- Table 8: INAA reference materials analyses
- Table 9: ICP-MS analysis certificates
- Table 10: INAA analysis certificates
- Table 11: LOI (Loss on ignition) analysis certificates

			ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																													
PROJECT NUMBER	SAMPLE	CERTIFICATE	Li	Be	B	Na	Mg	Al	K	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In
			ppm	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
590	5901586	A06-1824 (i)	0.1	0.4	1	0.001	0.05	1.05	0.01	0.58	0.2	30	6.0	40	0.97	4.5	6.8	9.40	32.9	2.87	-0.1	-0.1	1.4	0.9	50.0	17.70	0.2	1.1	7.40	0.127	0.24	-0.02
590	5902308	A06-1824 (i)	0.7	0.6	5	0.033	0.08	1.22	0.03	0.73	0.6	35	7.5	68	1.12	5.7	9.6	13.80	55.5	3.22	-0.1	0.4	1.0	2.5	59.5	22.30	0.3	1.6	9.06	0.155	0.35	0.02
590	5901613	A06-1824 (i)	2.4	0.7	6	0.038	0.08	1.37	0.02	0.54	1.3	61	20.4	139	2.58	9.3	10.6	9.62	65.0	2.61	0.2	-0.1	1.2	2.3	76.1	38.50	0.2	1.6	5.37	0.044	0.25	0.02
590	5902309	A06-1824 (i)	2.8	0.8	7	0.048	0.13	1.54	0.04	0.84	2.5	68	23.4	209	2.94	11.0	15.4	13.50	92.7	2.85	0.2	0.4	2.0	2.8	87.8	45.00	0.2	2.3	6.35	0.041	0.31	0.03
590	5901709	A06-1824 (i)	2.0	1.5	16	0.039	0.09	2.00	0.04	0.83	1.9	34	29.1	292	3.42	20.1	10.0	9.11	83.9	3.77	0.2	1.4	4.7	2.2	79.1	61.30	0.2	1.2	7.99	0.113	0.54	0.04
590	5902310	A06-1824 (i)	2.2	1.8	9	0.032	0.10	2.17	0.04	0.88	1.2	370	32.4	297	3.94	20.9	10.0	10.00	82.3	3.89	0.3	4.4	7.2	2.2	86.3	64.70	0.3	1.8	9.14	0.100	0.62	0.03
590	5901713	A06-1824 (i)	1.3	1.2	7	0.026	0.05	1.74	0.03	0.32	2.1	67	16.7	1370	6.51	18.8	9.4	12.00	85.5	4.66	0.2	-0.1	2.9	1.9	33.3	58.80	0.2	1.7	6.39	0.148	0.57	0.05
590	5902311	A06-1824 (i)	1.8	1.2	4	0.034	0.06	1.93	0.04	0.34	2.1	66	17.6	1340	6.58	19.9	10.1	12.40	84.6	4.21	0.2	0.6	2.9	2.5	34.3	59.80	0.3	1.2	7.07	0.172	0.57	0.04

PROJECT NUMBER	SAMPLE	CERTIFICATE	ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																												
			Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Bi	Th	U
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm
590	5901586	A06-1824 (i)	0.28	0.02	0.03	0.15	76.8	35.5	49.80	8.8	32.30	5.5	0.9	4.4	0.6	3,250	0.7	1.8	0.3	1.4	0.2	-0.1	-0.05	-0.1	0.003	-0.5	0.07	1.83	0.12	0.1	133.0
590	5902308	A06-1824 (i)	0.20	0.03	-0.02	0.19	84.6	54.6	82.90	12.9	44.20	7.4	1.1	5.4	0.7	4,140	0.9	2.5	0.3	2.0	0.2	-0.1	-0.05	0.1	0.003	-0.5	0.09	2.91	0.03	0.2	137.0
590	5901613	A06-1824 (i)	0.27	0.03	-0.02	0.24	50.4	55.7	73.30	16.1	63.10	11.7	1.6	9.6	1.2	6,880	1.4	4.0	0.6	3.3	0.5	-0.1	-0.05	-0.1	0.002	-0.5	0.19	1.69	-0.02	0.2	75.5
590	5902309	A06-1824 (i)	0.34	0.04	-0.02	0.27	58.6	77.6	110.00	22.2	82.30	14.9	2.0	10.9	1.4	7,990	1.8	5.1	0.7	4.5	0.7	-0.1	-0.05	0.8	0.001	1.4	0.21	2.15	0.03	0.5	92.5
590	5901709	A06-1824 (i)	0.22	0.05	0.03	0.25	105.0	74.2	58.90	20.9	83.40	15.9	2.4	12.8	1.7	9,930	2.0	5.8	0.8	4.9	0.8	-0.1	-0.05	-0.1	0.006	1.0	0.12	3.47	0.10	0.4	1310.0
590	5902310	A06-1824 (i)	0.29	0.07	-0.02	0.25	131.0	79.0	83.40	22.3	87.50	16.6	2.5	14.0	1.8	10,300	2.1	5.9	0.8	5.3	0.8	-0.1	-0.05	3.6	0.004	-0.5	0.12	3.31	0.06	-0.1	1550.0
590	5901713	A06-1824 (i)	0.48	0.05	0.08	0.28	128.0	85.7	107.00	22.7	85.50	15.6	2.2	12.9	1.8	10,400	2.2	6.1	0.9	5.0	0.7	-0.1	-0.05	-0.1	0.002	0.6	0.10	6.61	0.05	0.5	65.7
590	5902311	A06-1824 (i)	0.32	0.06	-0.02	0.31	140.0	104.0	155.00	27.2	94.10	17.0	2.2	13.2	1.8	10,400	2.5	7.2	1.0	6.0	0.8	-0.1	-0.05	-0.1	-0.001	3.6	0.10	6.38	0.05	0.3	69.4

PROJECT NUMBER	SAMPLE	CERTIFICATE	NEUTRON ACTIVATION ANALYSIS (2A-HUMUS-INAA)																														LOI (%)					
			Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Na	Ni	Rb	Sb	Sc	Se	Sr	Ta	Th	U	W	Zn	La	Ce	Nd	Sm		Eu	Tb	Yb	Lu	Mass
			ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		ppm	ppm	ppm	ppm	ppm
590	5901586	A06-1824 (i)	-1	-2	-1	200	28	-0.5	6	13	-0.5	1.28	1.8	-0.5	-5	-0.5	2500	-10	-20	-0.1	3.8	-2	-10	0.5	2.2	127.0	-1	40	41.4	76	32	7.0	0.9	0.7	1.7	-0.1	15.30	49.95
590	5902308	A06-1824 (i)	2	-2	2	152	31	-0.5	6	10	-0.5	1.17	1.4	-0.5	-5	-0.5	2170	-10	-20	-0.1	3.8	-2	-100	-0.5	2.2	119.0	-1	45	44.7	69	30	6.1	1.0	0.6	1.5	-0.1	15.22	58.39
590	5901613	A06-1824 (i)	-1	-2	-1	300	31	1.9	11	29	-0.5	3.05	3.7	-0.5	-5	-0.5	5400	-10	-20	-0.1	7.5	-2	-10	-0.5	4.5	75.1	-1	60	58.0	97	56	12.0	1.7	1.4	4.0	0.6	15.10	25.49
590	5902309	A06-1824 (i)	-2	-2	-1	361	34	-0.5	10	28	-0.5	3.38	2.9	-0.5	-5	-0.5	5170	-20	21	-0.1	8.0	-2	-100	-0.5	4.9	85.3	-1	70	65.8	93	49	12.4	1.9	1.3	4.4	0.7	15.72	30.29
590	5901709	A06-1824 (i)	-1	-2	-1	100	38	5.2	22	40	-0.5	3.34	-0.5	-0.5	-5	-0.5	1460	-10	-20	-0.1	5.0	-2	-10	-0.5	2.4	1100.0	-1	20	114.0	133	139	25.6	2.6	1.8	4.5	-0.1	15.50	44.00
590	5902310	A06-1824 (i)	-5	-2	6	95	46	-1.0	23	58	-0.5	4.25	-0.5	-4.0	-10	-0.5	1500	-20	-20	-0.1	6.8	-5	-200	-0.5	2.1	1050.0	-2	95	123.5	-1	-3	25.7	2.2	2.2	4.1	-0.1	8.20	47.31
590	5901713	A06-1824 (i)	-1	-2	1	300	27	-0.5	20	18	-0.5	6.58	2.9	-0.5	-5	-0.5	2900	-10	-20	0.2	6.6	-4	-10	-0.5	2.9	43.0	-1	90	86.3	138	71	11.4	2.1	1.8	5.5	0.7	11.80	36.87
590	5902311	A06-1824 (i)	-2	-2	-1	352	45	-0.5	21	24	-0.5	7.36	1.8	-0.5	-5	-0.5	3070	-10	-20	0.2	7.5	-2	-100	-0.5	3.4	64.6	-1	67	95.0	143	72	15.2	2.1	1.8	5.8	0.9	10.53	39.38

PROJECT NUMBER	SAMPLE	CERTIFICATE	ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																														
			Li	Be	B	Na	Mg	Al	K	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	
			ppm	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
			D.L. 2005	0.5	0.1	1	0.901	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	0.01	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.01
Count	Historic		89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89		
N > LD	Historic		89	89	31	89	89	89	89	89	75	89	89	89	89	89	89	89	89	89	20	49	78	89	89	89	84	89	89	81	87		
Average	Historic		7.7	0.2	1	0.022	0.35	0.76	0.04	0.29	1.4	28	19.4	218	1.38	7.6	11.4	9.45	37.3	3.71	0.0	0.2	0.4	2.6	13.5	5.68	0.4	0.9	0.53	0.045	0.18	0.00	
Std. Dev. (σ)	Historic		0.7	0.1	1	0.010	0.04	0.07	0.01	0.05	0.8	3	1.8	21	0.11	0.5	1.4	1.26	7.8	0.25	0.1	0.3	0.3	0.2	1.0	0.72	0.2	0.2	0.22	0.019	0.08	0.00	
Maximum	Historic		10.8	0.5	7	0.046	0.46	0.98	0.06	0.43	2.6	37	23.8	266	1.57	8.8	18.0	15.10	95.2	4.31	0.1	2.1	1.5	3.2	16.1	8.10	1.2	1.3	1.09	0.074	0.77	0.02	
Minimum	Historic		6.5	0.1	0	0.006	0.23	0.60	0.02	0.12	0.0	19	15.4	164	1.11	6.2	7.9	5.85	23.3	2.81	0.0	0.0	0.0	2.1	10.9	3.85	0.0	0.6	0.30	0.000	0.00	0.00	
X+2σ	Historic		9.0	0.4	4	0.043	0.43	0.90	0.06	0.39	3.0	34	23.0	259	1.60	8.6	14.1	11.98	52.9	4.21	0.1	0.9	0.9	3.0	15.5	7.13	0.8	1.3	0.98	0.083	0.34	0.00	
X-2σ	Historic		6.3	0.1	-2	0.002	0.27	0.62	0.03	0.19	-0.1	22	15.8	176	1.16	6.6	6.6	6.92	21.7	3.20	-0.1	-0.4	-0.2	2.2	11.4	4.23	-0.1	0.6	0.09	0.006	0.03	0.00	
N > X+2σ	Historic		1	7	8	2	2	3	2	3	0	2	4	1	0	1	2	2	1	2	7	2	6	1	3	2	5	1	10	0	1	1	
N < X-2σ	Historic		0	0	0	0	4	2	6	3	0	3	1	3	3	1	4	4	0	3	0	0	0	4	3	6	0	3	0	0	0	0	
Count	Project		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Average	Project		7.1	0.2	2	0.030	0.29	0.71	0.04	0.27	1.4	25	16.9	213	1.27	6.7	9.3	8.08	30.8	3.32	#DIV/0!	0.1	0.4	2.5	12.9	5.45	0.4	0.8	0.53	0.061	0.16	#DIV/0!	
Std. Dev. (σ)	Project		0.4	0.0	1	0.007	0.06	0.06	0.01	0.02	0.3	2	1.3	12	0.11	0.5	1.5	1.63	7.4	0.22	#DIV/0!	#DIV/0!	0.1	0.3	0.9	0.44	0.1	0.1	0.16	0.001	0.01	#DIV/0!	
Maximum	Project		7.5	0.2	2	0.034	0.35	0.77	0.04	0.29	1.7	26	17.7	222	1.37	7.1	10.9	9.91	39.2	3.47	0.0	0.1	0.5	2.8	13.5	5.82	0.5	0.8	0.63	0.062	0.17	0.00	
Minimum	Project		6.8	0.2	1	0.022	0.23	0.66	0.03	0.25	1.2	23	15.4	199	1.16	6.2	7.9	6.80	25.2	3.06	0.0	0.1	0.3	2.3	11.8	4.97	0.4	0.7	0.35	0.060	0.16	0.00	
X+2σ	Project		7.8	0.2	3	0.043	0.41	0.82	0.05	0.31	1.9	28	19.5	238	1.48	7.6	12.3	11.33	45.6	3.76	#DIV/0!	#DIV/0!	0.6	3.0	14.7	6.32	0.5	0.9	0.84	0.063	0.17	#DIV/0!	
X-2σ	Project		6.4	0.2	1	0.016	0.17	0.60	0.03	0.23	0.9	22	14.3	188	1.06	5.8	6.3	4.83	16.0	2.87	#DIV/0!	#DIV/0!	0.1	2.0	11.0	4.58	0.3	0.7	0.22	0.059	0.15	#DIV/0!	
590	5901566	A06-1824 (i)	7.5	0.2	1	0.034	0.35	0.77	0.04	0.29	1.7	26	17.6	222	1.37	7.1	10.9	9.91	39.2	3.47	-0.1	-0.1	0.3	2.8	13.3	5.82	0.4	0.8	0.63	0.061	0.16	-0.02	
590	5901633	A06-1824 (i)	6.8	0.2	2	0.022	0.23	0.66	0.03	0.25	1.2	23	15.4	199	1.16	6.2	7.9	6.80	25.2	3.06	-0.1	-0.1	0.3	2.3	11.8	4.97	0.4	0.7	0.61	0.062	0.16	-0.02	
590	5901694	A06-1824 (i)	7.0	0.2	2	0.033	0.29	0.71	0.04	0.28	1.4	26	17.7	218	1.27	6.7	9.1	7.53	28.0	3.42	-0.1	0.1	0.5	2.5	13.5	5.56	0.5	0.8	0.35	0.060	0.17	-0.02	

		ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																													
PROJECT NUMBER	SAMPLE	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Bi	Th	U	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.02	0.02	0.1	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	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	0.02	0.1
Count	Historic	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	
N > LD	Historic	88	89	40	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	
Average	Historic	0.76	0.06	0.02	0.32	63.3	19.4	36.57	5.1	18.93	3.0	0.5	2.1	0.2	1.243	0.2	0.6	0.0	0.5	0.0	0.0	0.001	7.8	0.08	10.02	0.05	0.8	0.6			
Std. Dev. (σ)	Historic	0.25	0.02	0.03	0.32	5.5	1.5	3.18	0.4	1.50	0.2	0.1	0.2	0.0	0.133	0.0	0.1	0.0	0.1	0.0	0.0	0.001	26.6	0.02	0.86	0.05	0.5	0.1			
Maximum	Historic	1.28	0.15	0.09	0.37	83.5	22.8	44.40	5.9	22.44	3.5	0.6	2.5	0.3	1.579	0.3	0.8	0.0	0.6	0.0	0.2	0.003	209.0	0.17	13.77	0.25	3.1	0.9			
Minimum	Historic	0.00	0.03	0.00	0.26	52.3	15.0	25.40	4.3	15.60	2.3	0.4	1.6	0.2	0.898	0.2	0.4	0.0	0.3	0.0	0.0	0.000	0.0	0.05	7.23	0.00	0.3	0.5			
X+2σ	Historic	1.27	0.09	0.07	0.36	74.4	22.4	42.94	5.8	21.95	3.5	0.6	2.5	0.3	1.509	0.3	0.8	0.0	0.6	0.0	0.1	0.000	0.1	0.002	61.0	0.11	11.75	0.15	1.9	0.7	
X-2σ	Historic	0.26	0.03	-0.03	0.27	52.3	16.5	30.20	4.3	15.97	2.5	0.4	1.7	0.2	0.978	0.2	0.5	0.0	0.3	0.0	-0.1	0.00	-0.1	-0.001	-45.3	0.05	8.30	-0.05	-0.2	0.5	
N > X+2σ	Historic	1	2	3	1	5	1	1	2	2	1	1	1	9	1	7	1	0	2	0	6	0	9	2	3	3	2	4	4		
N < X-2σ	Historic	3	1	0	3	1	2	2	4	3	4	3	3	0	4	1	4	0	0	0	0	0	0	0	0	0	0	0	0		
Count	Project	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Average	Project	0.70	0.07	0.09	0.29	57.4	18.6	29.50	4.9	17.80	2.9	0.5	2.0	0.2	1.150	0.2	0.6	#DIV/0!	0.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.001	2.7	0.06	8.13	0.05	0.5	0.5	
Std. Dev. (σ)	Project	0.12	0.02	#DIV/0!	0.02	2.7	2.4	4.00	0.6	2.11	0.3	0.0	0.2	0.0	0.125	0.0	0.1	#DIV/0!	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.000	0.3	0.00	1.34	#DIV/0!	0.2	0.0	
Maximum	Project	0.83	0.08	0.09	0.31	60.3	20.9	33.40	5.5	19.80	3.2	0.5	2.2	0.2	1.280	0.2	0.6	0.0	0.4	0.0	0.0	0.001	3.0	0.06	9.67	0.05	0.7	0.5			
Minimum	Project	0.61	0.05	0.09	0.28	54.9	16.2	25.40	4.3	15.60	2.6	0.5	1.9	0.2	1.030	0.2	0.5	0.0	0.4	0.0	0.0	0.001	2.4	0.06	7.23	0.05	0.3	0.5			
X+2σ	Project	0.93	0.10	#DIV/0!	0.32	62.8	23.3	37.51	6.1	22.01	3.5	0.5	2.3	0.2	1.401	0.2	0.7	#DIV/0!	0.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.001	3.3	0.06	10.81	#DIV/0!	0.9	0.5	
X-2σ	Project	0.47	0.04	#DIV/0!	0.26	52.0	13.9	21.49	3.7	13.59	2.3	0.5	1.7	0.2	0.899	0.2	0.5	#DIV/0!	0.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.001	2.1	0.06	5.44	#DIV/0!	0.1	0.5	
590	5901566	0.66	0.07	-0.02	0.31	60.3	20.9	33.40	5.5	19.80	3.2	0.5	2.2	0.2	1.280	0.2	0.6	-0.1	0.4	-0.1	-0.1	-0.05	-0.1	0.001	2.4	0.06	9.67	0.05	0.7	0.5	
590	5901633	0.81	0.05	0.09	0.28	54.9	16.2	25.40	4.3	15.60	2.6	0.5	1.9	0.2	1.030	0.2	0.5	-0.1	0.4	-0.1	-0.1	-0.05	-0.1	-0.001	2.7	0.06	7.23	-0.02	0.3	0.5	
590	5901694	0.83	0.08	-0.02	0.29	57.0	18.8	29.70	4.8	18.00	3.0	0.5	2.0	0.2	1.140	0.2	0.6	-0.1	0.4	-0.1	-0.1	-0.05	-0.1	0.001	3.0	0.06	7.48	-0.02	0.5	0.5	

		NEUTRON ACTIVATION ANALYSIS (2A-HUMUS-INAA)																												Mass (g)	LOI (%)							
PROJECT NUMBER	SAMPLE	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Na	Ni	Rb	Sb	Sc	Se	Sr	Ta	Th	U	W	Zn	La	Ce			Nd	Sm	Eu	Tb	Yb	Lu	
		ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm			ppm	ppm	ppm	ppm	ppm	ppm	ppm
Count	Historic	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	
N > LD	Historic	60	0	13	88	88	63	88	88	17	88	88	0	0	6	88	1	13	17	88	1	4	5	88	30	0	21	88	88	88	88	88	88	88	88	88	88	
Average	Historic	21	0	0	447	5	2,1	18	75	0,2	3,84	12,2	0,0	0	0,1	21144	3	5	0,0	18,4	0	25	0,1	2,8	0,4	0	21	28,8	49	26	5,9	1,6	0,4	2,5	0,3	15,00	12,87	
Std. Dev. (σ)	Historic	61	0	1	110	1	1,5	3	16	0,5	0,67	2,2	0,0	0	0,6	2785	23	13	0,1	3,2	0	119	0,3	0,6	0,7	0	43	4,9	11	8	1,6	0,3	0,4	0,4	0,1	1,29	4,03	
Maximum	Historic	484	0	4	750	9	5,6	26	110	1,9	5,96	17,3	0,0	0	3,9	30900	220	60	0,3	26,0	3	710	1,8	4,4	3,0	0	180	40,0	76	52	10,0	2,6	1,2	3,5	0,6	16,80	42,59	
Minimum	Historic	0	0	0	200	3	0,0	13	38	0,0	2,78	7,3	0,0	0	0,0	15800	0	0	0,0	13,6	0	0	0,0	1,9	0,0	0	0	20,0	32	13	4,1	1,0	0,0	1,8	0,2	8,19	10,95	
X+2σ	Historic	143	0	2	667	8	5,1	24	107	1,1	5,18	16,7	0,0	0	1,4	26675	49	32	0,2	24,8	1	262	0,7	4,1	1,8	0	106	36,6	70	42	9,1	2,3	1,1	3,3	0,5	17,59	20,93	
N > X+2σ	Historic	-100	0	-1	227	-3	-0,9	12	43	-0,7	2,49	7,8	0,0	0	-1,1	15614	-44	-21	-0,1	11,9	-1	-213	-0,6	1,5	-0,9	0	-65	17,0	28	10	2,8	0,9	-0,4	1,6	0,2	12,41	4,81	
N < X-2σ	Historic	3	0	8	3	7	1	7	7	8	4	3	0	0	5	5	1	6	6	7	1	4	4	4	4	0	5	6	3	6	8	7	3	2	3	0	2	
Count	Project	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Average	Project	12	#DIV/0!	#DIV/0!	2	500	6	2,5	16	84	1,1	4,14	10,9	#DIV/0!	#DIV/0!	#DIV/0!	20933	#DIV/0!	30	0,3	18,0	#DIV/0!	310	#DIV/0!	3,0	1,2	#DIV/0!	47	25,1	49	29	6,9	1,5	0,9	2,4	0,3	15,43	11,95
Std. Dev. (σ)	Project	11	#DIV/0!	#DIV/0!	0	1	0,6	1	2	#DIV/0!	0,01	0,1	#DIV/0!	#DIV/0!	#DIV/0!	306	#DIV/0!	0	0,1	0,0	#DIV/0!	#DIV/0!	#DIV/0!	0,2	#DIV/0!	#DIV/0!	6	0,1	3	2	0,2	0,1	0,1	0,1	0,1	0,21	0,16	
Maximum	Project	19	0	2	500	6	3,1	17	85	1,1	4,14	11,0	0,0	0	0,0	21200	0	30	0,3	18,0	0	310	0,0	3,2	1,2	0	50	25,2	52	30	7,0	1,5	0,9	2,5	0,4	15,60	12,14	
Minimum	Project	4	0	2	500	5	1,9	16	82	1,1	4,13	10,8	0,0	0	0,0	20600	0	30	0,2	18,0	0	310	0,0	2,8	1,2	0	40	25,0	47	27	6,7	1,4	0,8	2,4	0,3	15,20	11,84	
X+2σ	Project	33	#DIV/0!	#DIV/0!	500	6	3,7	17	87	#DIV/0!	4,15	11,2	#DIV/0!	#DIV/0!	#DIV/0!	21544	#DIV/0!	30	0,4	18,0	#DIV/0!	#DIV/0!	#DIV/0!	3,4	#DIV/0!	#DIV/0!	58	25,3	54	32	7,2	1,6	1,0	2,5	0,4	15,85	12,28	
X-2σ	Project	-10	#DIV/0!	#DIV/0!	500	4	1,3	15	81	#DIV/0!	4,13	10,7	#DIV/0!	#DIV/0!	#DIV/0!	20322	#DIV/0!	30	0,1	18,0	#DIV/0!	#DIV/0!	#DIV/0!	2,6	#DIV/0!	#DIV/0!	35	24,8	44	26	6,6	1,4	0,7	2,3	0,2	15,02	11,63	
590	5901566	19	-2	-1	500	6	3,1	16	85	-0,5	4,14	10,8	-0,5	-5	-0,5	21000	-10	30	0,2	18,0	-2	310	-0,5	2,8	-0,1	-1	50	25,2	52	30	7,0	1,4	0,8	2,4	0,4	15,20	12,14	
590	5901633	4	-2	2	500	5	1,9	16	82	-0,5	4,14	11,0	-0,5	-6	-0,5	21200	-10	30	0,3	18,0	-2	-10	-0,5	3,0	1,2	-1	40	25,0	47	27	6,7	1,5	0,9	2,4	0,3	15,50	11,84	
590	5901694	-1	-2	-1	500	5	2,4	17	84	1,1	4,13	11,0	-0,5	-5	-0,5	20600	-10	-20	-0,1	18,0	-2	-10	-0,5	3,2	-0,1	-1	50	25,0	49	29	6,9	1,5	-0,2	2,5	0,3	15,80	11,88	

PROJECT NUMBER	SAMPLE	ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																													
		Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Bi	Th	U	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
Count	Historic	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	
N > LD	Historic	352	354	32	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	
Average	Historic	0.43	0.09	0.01	1.47	0.6	0.6	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.5	0.02	0.01	0.02	0.1	0.1	
Std. Dev. (σ)	Historic	0.11	0.02	0.02	0.10	8.2	2.5	5.17	0.5	1.88	0.3	0.0	0.2	0.1	0.121	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.7	0.002	0.9	0.22	9.24	0.11	0.9	8.8	
Maximum	Historic	0.74	0.20	0.19	1.70	107.0	43.9	68.20	10.0	33.30	5.8	0.7	3.5	0.4	2.100	0.4	1.1	0.2	0.9	0.1	0.1	0.00	2.0	0.006	27.8	0.28	36.90	0.87	2.6	10.8	
Minimum	Historic	0.00	0.00	0.00	0.92	21.4	19.8	34.70	4.6	16.70	2.8	0.4	2.0	0.2	1.190	0.2	0.8	0.0	0.5	0.0	0.0	0.00	0.0	0.000	0.0	0.00	1.50	0.00	0.0	4.6	
X+2σ	Historic	0.65	0.13	0.04	1.66	82.4	35.5	64.82	8.4	29.50	4.9	0.7	3.5	0.4	2.043	0.4	1.0	0.1	0.8	0.1	0.0	0.00	1.3	0.004	7.0	0.29	13.02	0.26	1.5	10.3	
X-2σ	Historic	0.22	0.05	-0.03	1.28	49.6	25.2	44.15	6.1	21.94	3.6	0.5	2.6	0.2	1.559	0.2	0.8	0.1	0.6	-0.1	0.0	0.00	0.1	-0.001	-5.2	0.15	5.47	-0.05	0.3	7.3	
N > X+2σ	Historic	1	3	18	2	2	2	8	6	8	6	8	36	3	0	3	0	6	2	26	0	1	0	2	10	8	0	1	11	12	2
N < X-2σ	Historic	10	7	0	18	20	10	20	12	14	14	19	16	4	14	4	7	0	8	0	0	0	4	0	0	6	8	0	5	13	
Count	Project	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
Average	Project	0.42	0.09	0.08	1.45	67.1	30.5	46.13	7.3	25.84	4.3	0.6	3.1	0.4	1.797	0.3	0.9	0.1	0.7	0.1	#DIV/0!	#DIV/0!	0.3	0.002	1.8	0.21	8.34	0.13	0.8	8.8	
Std. Dev. (σ)	Project	0.05	0.01	0.06	0.08	4.7	1.9	3.54	0.5	1.59	0.3	0.0	0.2	0.1	0.111	0.0	0.0	0.0	0.1	0.0	#DIV/0!	#DIV/0!	0.2	0.001	0.9	0.01	1.28	0.05	0.3	0.5	
Maximum	Project	0.52	0.14	0.19	1.54	75.9	31.8	50.30	7.8	27.40	4.7	0.6	3.3	0.4	1.880	0.3	0.9	0.1	0.7	0.1	0.0	0.00	0.5	0.004	2.7	0.22	10.60	0.20	1.5	10.1	
Minimum	Project	0.33	0.07	0.02	1.13	50.8	22.9	34.70	5.5	19.30	3.3	0.5	2.3	0.3	1.370	0.3	0.7	0.1	0.5	0.1	0.0	0.00	0.1	0.001	0.5	0.17	6.95	0.03	0.2	6.8	
X+2σ	Project	0.52	0.12	0.20	1.62	76.6	34.3	53.22	8.2	29.23	4.9	0.6	3.5	0.5	2.019	0.3	1.0	0.1	0.8	0.1	#DIV/0!	#DIV/0!	0.6	0.004	3.5	0.24	10.87	0.24	1.3	10.1	
X-2σ	Project	0.32	0.06	-0.03	1.28	57.6	26.7	39.04	6.4	22.45	3.7	0.6	2.7	0.3	1.575	0.3	0.8	0.1	0.6	0.1	#DIV/0!	#DIV/0!	-0.1	0.000	0.1	0.19	5.81	0.03	0.3	7.5	
590	5901573	0.33	0.07	-0.02	1.13	50.8	22.9	34.70	5.5	19.30	3.3	0.5	2.3	0.3	1.370	0.3	0.7	-0.1	0.5	-0.1	-0.1	-0.05	-0.1	0.001	-0.5	0.17	7.36	0.13	0.2	6.5	
590	5901579	0.38	0.10	-0.02	1.48	67.6	31.0	46.00	7.3	26.00	4.4	0.6	3.2	0.4	1.850	0.3	0.9	0.1	0.7	-0.1	-0.1	-0.05	-0.1	-0.001	2.7	0.22	9.87	0.17	0.8	8.7	
590	5901587	0.40	0.09	-0.02	1.41	65.9	31.2	44.40	7.4	26.50	4.3	0.6	3.1	0.4	1.860	0.3	0.9	0.1	0.7	-0.1	-0.1	-0.05	-0.1	-0.001	2.7	0.22	7.14	0.03	0.8	9.1	
590	5901600	0.43	0.09	-0.02	1.42	65.0	29.7	43.50	7.1	24.70	4.1	0.6	3.0	0.3	1.740	0.3	0.9	0.1	0.6	-0.1	-0.1	-0.05	-0.1	0.002	-0.5	0.21	7.26	-0.02	0.6	8.8	
590	5901606	0.40	0.09	-0.02	1.43	65.8	30.3	44.20	7.2	25.80	4.2	0.6	3.0	0.3	1.760	0.3	0.9	0.1	0.7	-0.1	-0.1	-0.05	-0.1	0.001	-0.5	0.21	7.46	-0.02	0.7	8.7	
590	5901614	0.45	0.10	-0.02	1.49	68.5	31.2	46.80	7.5	26.40	4.4	0.6	3.3	0.4	1.840	0.3	0.9	0.1	0.7	-0.1	-0.1	-0.05	-0.1	0.001	-0.5	0.22	8.01	-0.02	0.7	9.0	
590	5901620	0.42	0.09	-0.02	1.44	67.4	30.3	45.80	7.3	26.20	4.3	0.6	3.1	0.4	1.820	0.3	0.9	0.1	0.7	-0.1	-0.1	-0.05	-0.1	0.001	-0.5	0.21	7.65	-0.02	0.6	9.0	
590	5901627	0.43	0.09	-0.02	1.52	68.0	31.5	47.50	7.4	26.40	4.4	0.6	3.1	0.4	1.830	0.3	0.9	0.1	0.7	-0.1	-0.1	-0.05	-0.1	0.001	0.5	0.22	7.18	-0.02	0.8	9.2	
590	5901641	0.42	0.09	-0.02	1.44	67.4	30.0	48.10	7.2	25.30	4.1	0.6	3.0	0.3	1.780	0.3	0.9	0.1	0.6	-0.1	-0.1	-0.05	-0.1	0.002	2.4	0.22	7.41	-0.02	0.7	8.7	
590	5901657	0.36	0.08	-0.02	1.48	67.9	31.0	50.30	7.5	26.20	4.4	0.6	3.1	0.4	1.820	0.3	0.9	0.1	0.7	-0.1	-0.1	-0.05	-0.1	0.003	-0.5	0.21	7.08	-0.02	1.1	9.1	
590	5901673	0.40	0.09	-0.02	1.44	75.9	30.2	50.10	7.1	25.80	4.3	0.6	3.0	0.3	1.730	0.3	0.9	0.1	0.6	-0.1	-0.1	-0.05	-0.1	0.002	1.6	0.20	7.62	-0.02	0.7	8.8	
590	5901681	0.46	0.14	0.09	1.47	69.0	30.5	50.10	7.1	25.40	4.3	0.6	3.2	0.4	1.820	0.3	0.9	0.1	0.7	-0.1	-0.1	-0.05	0.5	0.002	-0.5	0.21	6.95	-0.02	0.9	8.7	
590	5901687	0.44	0.09	-0.02	1.50	68.6	31.8	50.20	7.4	26.30	4.4	0.6	3.1	0.3	1.850	0.3	0.9	0.1	0.7	-0.1	-0.1	-0.05	0.2	0.002	1.3	0.22	7.48	-0.02	0.6	8.8	
590	5901708	0.40	0.08	0.10	1.43	60.9	31.0	42.50	7.5	27.20	4.6	0.6	3.1	0.3	1.850	0.3	0.9	0.1	0.7	-0.1	-0.1	-0.05	-0.1	0.001	-0.5	0.21	9.89	0.12	1.5	10.1	
590	5901722	0.52	0.08	0.19	1.47	68.0	31.3	44.40	7.4	25.90	4.3	0.6	3.1	0.3	1.780	0.3	0.9	0.1	0.7	0.1	-0.1	-0.05	-0.1	0.004	0.6	0.22	9.18	0.09	0.8	8.6	
590	5901729	0.50	0.09	0.08	1.54	70.6	31.7	47.70	7.8	27.40	4.7	0.6	3.2	0.4	1.880	0.3	0.9	0.1	0.7	0.1	-0.1	-0.05	-0.1	0.004	-0.5	0.22	10.60	0.20	1.0	9.0	
590	5901579 Rep Orig	0.35	0.10	-0.02	1.46	67.3	30.5	45.70	7.3	25.70	4.3	0.6	3.2	0.3	1.770	0.3	0.9	0.1	0.7	-0.1	-0.1	-0.05	-0.1	-0.001	1.4	0.21	9.67	0.11	0.9	8.7	
590	5901579 Rep Dup	0.38	0.10	-0.02	1.48	67.6	31.0	46.00	7.3	26.00	4.4	0.6	3.2	0.4	1.850	0.3	0.9	0.1	0.7	-0.1	-0.1	-0.05	-0.1	-0.001	2.7	0.22	9.49	0.17	0.7	8.6	
590	5901729 Rep Orig	0.50	0.09	0.08	1.44	68.7	31.7	47.70	7.8	27.40	4.7	0.6	3.1	0.4	1.880	0.3	0.9	0.1	0.7	0.1	-0.1	-0.05	-0.1	0.001	2.2	0.22	10.60	0.20	1.0	9.0	
590	5901729 Rep Dup	0.47	0.08	0.02	1.54	70.6	31.7	47.10	7.8	27.10	4.7	0.6	3.2	0.4	1.880	0.3	0.9	0.1	0.7	0.1	-0.1	-0.05	-0.1	0.004	-0.5	0.22	9.28	0.11	1.0	8.9	

PROJECT NUMBER	SAMPLE	CERTIFICATE	ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																													
			Li	Be	B	Na	Mg	Al	K	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In
			ppm	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Count	Historic		0.1	0.1	1	0.001	0.01	0.01	0.01	0.01	0.1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.6	0.01	0.1	0.1	0.01	0.002	0.01	0.02	
N > LD	Historic		164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	
Average	Historic		22	47	45	164	1	13	61	3	12	164	164	164	164	164	164	141	157	3	114	52	158	24	164	111	144	164	101	4	0	
Std. Dev. (σ)	Historic		0.1	0.1	1	0.058	0.00	0.01	0.01	0.00	0.0	111.0	92	1.15	1.1	14.8	19.09	1.5	0.14	0.0	0.2	0.1	0.2	0.3	0.53	0.1	0.2	23.65	0.007	0.00	0.00	
Maximum	Historic		4.9	1.0	33	0.089	0.06	0.71	0.03	0.25	0.6	16	138.0	117	1.51	1.4	22.9	28.4	2.52	0.2	1.0	1.0	2.8	22.7	13.40	0.3	1.8	27.30	0.153	0.19	0.00	
Minimum	Historic		0.0	0.0	0	0.020	0.00	0.00	0.00	0.00	0.0	0	4.2	47	0.40	0.7	5.4	7.44	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.07	0.000	0.00	0.00	
X+2σ	Historic		1.2	0.3	9	0.090	0.01	0.12	0.02	0.04	0.1	3	133.7	116	1.39	1.3	18.2	23.92	8.3	0.59	0.0	0.6	0.4	0.7	4.5	2.57	0.3	0.5	28.84	0.042	0.03	0.00
X-2σ	Historic		-1.0	-0.2	-6	0.026	-0.01	-0.11	-0.01	-0.04	-0.1	-2	88.4	69	0.91	0.9	11.4	14.26	-5.2	-0.30	0.0	-0.2	-0.2	-0.3	-3.9	-1.50	-0.1	-0.1	18.45	-0.028	-0.03	0.00
N > X+2σ	Historic		4	5	3	0	1	1	1	1	1	1	2	5	1	1	1	3	1	3	2	9	2	2	1	1	1	0	6	1	0	
N < X-2σ	Historic		0	0	0	0	0	0	0	0	0	0	4	10	5	4	10	0	0	0	0	0	0	0	0	0	0	0	6	0	0	
Count	Project		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Average	Project		4.9	0.1	#DIV/0!	0.058	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	107.6	81	1.12	1.0	12.9	16.18	1.1	0.12	#DIV/0!	0.2	0.2	0.2	#DIV/0!	0.47	0.2	0.2	20.18	0.007	#DIV/0!	#DIV/0!	
Std. Dev. (σ)	Project		#DIV/0!	#DIV/0!	#DIV/0!	0.016	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	5.6	11	0.05	0.1	1.2	1.86	1.2	0.01	#DIV/0!	0.1	0.0	0.0	#DIV/0!	0.06	0.0	0.1	1.44	0.004	#DIV/0!	#DIV/0!	
Maximum	Project		4.9	0.1	0	0.079	0.00	0.00	0.00	0.00	0.0	0	114.0	101	1.18	1.1	14.9	19.10	3.3	0.13	0.0	0.3	0.2	0.3	0.0	0.53	0.2	0.2	22.10	0.014	0.00	0.00
Minimum	Project		4.9	0.1	0	0.042	0.00	0.00	0.00	0.00	0.0	0	100.0	72	1.03	1.0	12.0	14.00	0.4	0.11	0.0	0.1	0.2	0.2	0.0	0.40	0.1	0.1	18.20	0.004	0.00	0.00
X+2σ	Project		#DIV/0!	#DIV/0!	#DIV/0!	0.090	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	118.8	104	1.23	1.1	15.2	19.89	3.6	0.14	#DIV/0!	0.3	0.2	0.3	#DIV/0!	0.59	0.3	0.3	23.07	0.015	#DIV/0!	#DIV/0!	
X-2σ	Project		#DIV/0!	#DIV/0!	#DIV/0!	0.026	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	96.4	59	1.01	0.9	10.5	12.47	-1.3	0.11	#DIV/0!	0.1	0.2	0.1	#DIV/0!	0.35	0.1	0.1	17.29	-0.002	#DIV/0!	#DIV/0!	
590	5901559	A06-1824 (i)	-0.1	0.1	-1	0.042	-0.01	-0.01	-0.01	-0.01	-0.1	-1	104.0	101	1.13	1.1	14.9	19.10	0.9	0.12	-0.1	0.1	-0.1	0.2	-0.5	0.41	0.1	0.2	20.50	0.004	-0.01	-0.02
590	5901593	A06-1824 (i)	-0.1	-0.1	-1	0.068	-0.01	-0.01	-0.01	-0.01	-0.1	-1	111.0	76	1.12	1.0	12.4	16.00	0.4	0.13	-0.1	0.3	0.2	0.2	-0.5	0.53	0.2	0.2	20.60	0.007	-0.01	-0.02
590	5901649	A06-1824 (i)	-0.1	-0.1	-1	0.079	-0.01	-0.01	-0.01	-0.01	-0.1	-1	114.0	80	1.18	1.0	12.0	16.30	0.5	0.13	-0.1	0.2	0.2	0.2	-0.5	0.52	0.2	-0.1	18.20	0.005	-0.01	-0.02
590	5901665	A06-1824 (i)	4.9	-0.1	-1	0.059	-0.01	-0.01	-0.01	-0.01	-0.1	-1	109.0	78	1.13	1.1	12.7	15.50	0.5	0.12	-0.1	0.2	-0.1	0.3	-0.5	0.49	0.2	0.2	22.10	0.004	-0.01	-0.02
590	5901702	A06-1824 (i)	-0.1	-0.1	-1	0.042	-0.01	-0.01	-0.01	-0.01	-0.1	-1	100.0	72	1.03	1.0	12.3	14.00	3.3	0.11	-0.1	0.2	-0.1	0.2	-0.5	0.40	0.2	0.1	19.50	0.014	-0.01	-0.02

		ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																													
PROJECT NUMBER	SAMPLE	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Bi	Th	U	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
Count	Historic	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	
N > LD	Historic	164	164	20	1	164	5	164	7	164	4	1	8	1	35	1	2	1	1	1	0	0	163	149	10	2	164	31	6	10	
Average	Historic	1.18	0.26	0.01	0.00	8.2	0.3	1.43	0.1	0.45	0.0	0.0	0.0	0.031	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.002	0.1	0.00	1.69	0.01	0.0	0.0	
Std. Dev. (σ)	Historic	0.22	0.10	0.02	0.02	6.4	3.4	5.13	0.7	2.56	0.4	0.1	0.3	0.0	0.202	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.001	0.7	0.00	0.53	0.04	0.0	0.1		
Maximum	Historic	3.46	0.63	0.09	0.28	87.0	43.4	66.70	9.4	33.00	5.3	0.7	3.7	0.5	2.570	0.5	1.3	0.2	0.9	0.1	0.0	0.00	0.7	0.006	7.8	0.04	4.24	0.27	0.2	1.9	
Minimum	Historic	0.45	0.02	0.00	0.00	3.6	0.0	0.29	0.0	0.14	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.000	0.0	0.00	1.06	0.00	0.0	0.0	
X+2σ	Historic	1.62	0.45	0.04	0.05	21.0	7.1	11.70	1.5	5.56	0.9	0.1	0.6	0.1	0.435	0.1	0.2	0.0	0.1	0.0	0.0	0.00	0.8	0.004	1.5	0.01	2.74	0.09	0.1	0.3	
X-2σ	Historic	0.74	0.07	-0.03	-0.04	-4.6	-6.5	-8.84	-1.4	-4.67	-0.8	-0.1	-0.6	-0.1	-0.373	-0.1	-0.2	0.0	-0.1	0.0	0.0	0.00	0.3	-0.001	-1.3	-0.01	0.63	-0.07	-0.1	-0.2	
N > X+2σ	Historic	2	5	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	13	3	2	9	8	6	3
N < X-2σ	Historic	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
Count	Project	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Average	Project	1.14	0.27	#DIV/0!	#DIV/0!	8.2	#DIV/0!	0.93	#DIV/0!	0.28	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.4	0.002	#DIV/0!	#DIV/0!	1.47	0.02	0.2	#DIV/0!	
Std. Dev. (σ)	Project	0.20	0.06	#DIV/0!	#DIV/0!	0.7	#DIV/0!	0.08	#DIV/0!	0.04	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.1	0.001	#DIV/0!	#DIV/0!	0.34	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Maximum	Project	1.45	0.34	0.00	0.00	9.3	0.0	1.06	0.0	0.32	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.6	0.002	0.0	0.00	1.33	0.02	0.2	0.0	
Minimum	Project	0.96	0.20	0.00	0.00	7.3	0.0	0.85	0.0	0.22	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.2	0.001	0.0	0.00	1.11	0.02	0.2	0.0	
X+2σ	Project	1.53	0.39	#DIV/0!	#DIV/0!	9.6	#DIV/0!	1.09	#DIV/0!	0.36	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.7	0.003	#DIV/0!	#DIV/0!	2.16	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
X-2σ	Project	0.75	0.14	#DIV/0!	#DIV/0!	6.7	#DIV/0!	0.76	#DIV/0!	0.21	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.1	0.000	#DIV/0!	#DIV/0!	0.79	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
590	5901559	1.18	0.32	-0.02	-0.02	7.3	-0.5	0.85	-0.1	0.29	-0.1	-0.1	-0.1	-0.1	-0.001	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.05	0.6	0.001	-0.5	-0.02	1.93	0.02	-0.1	-0.1	
590	5901593	1.09	0.21	-0.02	-0.02	9.3	-0.5	0.93	-0.1	0.30	-0.1	-0.1	-0.1	-0.1	-0.001	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.05	0.4	0.001	-0.5	-0.02	1.27	-0.02	-0.1	-0.1	
590	5901649	1.00	0.20	-0.02	-0.02	8.1	-0.5	1.06	-0.1	0.32	-0.1	-0.1	-0.1	-0.1	-0.001	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.05	0.2	0.002	-0.5	-0.02	1.11	-0.02	-0.1	-0.1	
590	5901665	1.45	0.26	-0.02	-0.02	8.2	-0.5	0.87	-0.1	0.22	-0.1	-0.1	-0.1	-0.1	-0.001	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.05	0.4	0.002	-0.5	-0.02	1.32	-0.02	0.2	-0.1	
590	5901702	0.96	0.34	-0.02	-0.02	8.0	-0.5	0.92	-0.1	0.28	-0.1	-0.1	-0.1	-0.1	-0.001	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.05	0.4	-0.001	-0.5	-0.02	1.73	-0.02	-0.1	-0.1	

		NEUTRON ACTIVATION ANALYSIS (2A-HUMUS-INAA)																																						
PROJECT NUMBER	SAMPLE	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Na	Ni	Rb	Sb	So	Se	Sr	Ta	Th	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	LOI			
		ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	(%)
Count	Historic	130	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	134
N > LD	Historic	31	0	4	0	12	2	101	142	3	144	0	0	0	143	143	21	0	143	34	0	0	0	1	9	24	0	124	40	0	31	0	0	11	0	144	134			
Average	Historic	2	0	0	0	0	0	2	123	0	1,28	0,0	0,0	0	21,6	485	4	0	0,3	0,0	0	0	0,0	0,0	0,0	0	0	0,4	0	0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	15,40	0,43
Std. Dev. (σ)	Historic	5	0	0	0	1	0,2	14	41	0,1	0,36	0,0	0,0	0	7,1	206	9	0	0,1	0,1	0	0	0,0	0,4	0,0	1	0	0,3	1	0	0,1	0,0	0,0	0,0	0,0	0,0	0,0	8,79	3,14	
Maximum	Historic	38	0	3	0	6	1,8	126	420	1,3	4,11	0,0	0,0	0	73,0	1600	40	0	0,8	0,3	0	0	0,0	5,0	0,3	5	0	1,8	6	0	0,3	0,0	0,0	0,3	0,0	116,00	36,47			
Minimum	Historic	0	0	0	0	0	0,0	0	0	0,0	0,15	0,0	0,0	0	0,0	0	0	0	0,0	0,0	0	0	0,0	0,0	0,0	0	0	0,0	0	0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	-1,05	-0,18	
X+2σ	Historic	11	0	1	0	2	0,4	30	204	0,3	2,00	0,0	0,0	0	35,7	897	22	0	0,6	0,2	0	0	0,0	0,9	0,1	2	0	1,0	2	0	0,2	0,0	0,0	0,1	0,0	32,97	6,71			
X-2σ	Historic	-8	0	-1	0	-1	-0,3	-25	41	-0,3	0,56	0,0	0,0	0	7,4	74	-15	0	0,1	-0,1	0	0	0,0	-0,8	-0,1	-1	0	-0,2	-1	0	-0,1	0,0	0,0	-0,1	0,0	-2,18	-5,85			
N > X+2σ	Historic	6	0	4	0	9	2	2	3	3	3	0	0	0	2	2	10	0	7	12	0	0	0	1	5	9	0	5	3	0	8	0	0	10	0	1	1			
N < X-2σ	Historic	0	0	0	0	0	0	0	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Count	Project	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5			
Average	Project	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	2	147	#DIV/0!	1,46	#DIV/0!	#DIV/0!	#DIV/0!	25,2	500	30	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	2	#DIV/0!	0,6	1	#DIV/0!	0,2	#DIV/0!	#DIV/0!	0,1	#DIV/0!	15	-0,01			
Std. Dev. (σ)	Project	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1	32	#DIV/0!	0,29	#DIV/0!	#DIV/0!	#DIV/0!	5,2	212	0	#DIV/0!	0,1	0,1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1	#DIV/0!	0,1	1	#DIV/0!	0,1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0,08	0,18			
Maximum	Project	0	0	0	0	0	0,0	2	196	0,0	1,92	0,0	0,0	0	33,3	800	30	0	0,5	0,2	0	0	0,0	0,0	0,0	2	0	0,7	2	0	0,2	0,0	0,0	0,1	0,0	15,40	0,27			
Minimum	Project	0	0	0	0	0	0,0	1	115	0,0	1,22	0,0	0,0	0	19,5	300	30	0	0,2	0,1	0	0	0,0	0,0	0,0	1	0	0,5	1	0	0,1	0,0	0,0	0,1	0,0	15,20	-0,18			
X+2σ	Project	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	3	211	#DIV/0!	2,03	#DIV/0!	#DIV/0!	#DIV/0!	35,6	924	30	#DIV/0!	0,6	0,3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	3	#DIV/0!	0,7	2	#DIV/0!	0,3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	15,45	0,34			
X-2σ	Project	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0	84	#DIV/0!	0,89	#DIV/0!	#DIV/0!	#DIV/0!	14,8	76	30	#DIV/0!	0,1	0,1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0	#DIV/0!	0,4	0	#DIV/0!	0,0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	15,11	-0,37			
590	5901559	-1	-2	-1	-100	-1	-0,5	-1	135	-0,5	1,32	-0,5	-0,5	-5	25,2	300	-10	-20	0,4	0,2	-2	-10	-0,5	-0,5	-0,1	1	-20	0,5	-1	-3	0,2	-0,2	-0,2	-0,1	-0,1	15,40	0,27			
590	5901593	-1	-2	-1	-100	-1	-0,5	2	196	-0,5	1,92	-0,5	-0,5	-5	33,3	800	-10	-20	0,3	0,2	-2	-10	-0,5	-0,5	-0,1	2	-20	0,7	1	-3	0,2	-0,2	-0,2	0,1	-0,1	15,30	0,03			
590	5901649	-1	-2	-1	-100	-1	-0,5	1	130	-0,5	1,29	-0,5	-0,5	-5	22,0	500	30	-20	0,2	0,1	-2	-10	-0,5	-0,5	-0,1	-1	-20	0,6	1	-3	0,1	-0,2	-0,2	-0,1	-0,1	15,20	-0,08			
590	5901665	-1	-2	-1	-100	-1	-0,5	2	160	-0,5	1,56	-0,5	-0,5	-5	28,0	600	-10	-20	0,3	0,2	-2	-10	-0,5	-0,5	-0,1	-1	-20	0,6	2	-3	0,1	-0,2	-0,2	-0,1	-0,1	15,30	-0,11			
590	5901702	-1	-2	-1	-100	-1	-0,5	1	115	-0,5	1,22	-0,5	-0,5	-5	19,5	300	30	-20	0,5	0,1	-2	-10	-0,5	-0,5	-0,1	-1	-20	0,5	1	-3	-0,1	-0,2	-0,2	-0,1	-0,1	15,20	-0,18			

			ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																														
PROJECT NUMBER	SAMPLE	CERTIFICATE	Li	Be	B	Na	Mg	Al	K	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	
			ppm	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Count	Historic		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
N > LD	Historic		1	1	2	6	0	0	4	0	0	0	6	1	2	0	4	4	4	0	0	1	2	3	0	5	5	2	6	0	0	0	
Average	Historic		0.1	0.0	1	0.019	0.00	0.00	0.01	0.00	0.0	0	1.0	1	0.01	0.0	0.2	0.09	1.4	0.00	0.0	0.0	0.1	0.1	0.0	0.08	0.2	0.1	0.09	0.000	0.00	0.00	
Std. Dev. (σ)	Historic		0.3	0.1	1	0.005	0.00	0.00	0.01	0.00	0.0	0	0.2	1	0.02	0.0	0.2	0.11	1.5	0.00	0.0	0.1	0.1	0.2	0.0	0.06	0.3	0.1	0.08	0.000	0.00	0.00	
Maximum	Historic		0.7	0.2	2	0.029	0.00	0.00	0.01	0.00	0.0	0	1.3	3	0.06	0.0	0.6	0.23	3.9	0.00	0.0	0.2	0.3	0.3	0.0	0.14	0.7	0.2	0.23	0.000	0.00	0.00	
Minimum	Historic		0.0	0.0	0	0.013	0.00	0.00	0.00	0.00	0.0	0	0.6	0	0.00	0.0	0.0	0.00	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	
X+2σ	Historic		0.7	0.2	2	0.030	0.00	0.00	0.02	0.00	0.0	0	1.4	3	0.06	0.0	0.6	0.31	4.4	0.00	0.0	0.2	0.3	0.4	0.0	0.19	0.7	0.2	0.25	0.000	0.00	0.00	
X-2σ	Historic		-0.5	-0.1	-1	0.006	0.00	0.00	0.00	0.00	0.0	0	0.5	-2	-0.04	0.0	-0.3	-0.13	-1.7	0.00	0.0	-0.1	-0.2	-0.2	0.0	-0.04	-0.3	-0.1	-0.07	0.000	0.00	0.00	
N > X+2σ	Historic		1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
N < X-2σ	Historic		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Count	Project		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Average	Project		#DIV/0!	#DIV/0!	#DIV/0!	0.017	#DIV/0!	#DIV/0!	0.01	#DIV/0!	#DIV/0!	#DIV/0!	0.8	#DIV/0!	#DIV/0!	#DIV/0!	0.2	#DIV/0!	2.2	#DIV/0!	#DIV/0!	#DIV/0!	0.2	0.3	#DIV/0!	0.14	0.1	#DIV/0!	0.15	#DIV/0!	#DIV/0!	#DIV/0!	
Std. Dev. (σ)	Project		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Maximum	Project		0.0	0.0	0	0.017	0.00	0.00	0.01	0.00	0.0	0	0.8	0	0.00	0.0	0.2	0.00	2.2	0.00	0.0	0.0	0.2	0.3	0.0	0.14	0.1	0.0	0.15	0.000	0.00	0.00	
Minimum	Project		0.0	0.0	0	0.017	0.00	0.00	0.01	0.00	0.0	0	0.8	0	0.00	0.0	0.2	0.00	2.2	0.00	0.0	0.0	0.2	0.3	0.0	0.14	0.1	0.0	0.15	0.000	0.00	0.00	
X+2σ	Project		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
X-2σ	Project		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
590	5901716	A06-1824 (i)	-0.1	-0.1	-1	0.017	-0.01	-0.01	0.01	-0.01	-0.1	-1	0.8	-1	-0.01	-0.1	0.2	-0.01	2.2	-0.02	-0.1	-0.1	0.2	0.3	-0.5	0.14	0.1	-0.1	0.15	-0.002	-0.01	-0.02	

		ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																													
PROJECT NUMBER	SAMPLE	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Bi	Th	U	
		ppm 0.05	ppm 0.02	ppm 0.02	ppm 0.02	ppm 0.5	ppm 0.5	ppm 0.01	ppm 0.1	ppm 0.02	ppm 0.1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 0.001	ppm 0.1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 0.05	ppm 0.1	ppm 0.001	ppb 0.5	ppm 0.02	ppm 0.01	ppm 0.02	ppm 0.1	ppm 0.1
Count	Historic	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
N > LD	Historic	4	0	1	0	6	0	6	0	6	0	0	0	0	0	0	0	0	0	0	0	1	0	3	5	1	0	6	6	1	1
Average	Historic	0.14	0.00	0.01	0.00	6.3	0.0	1.06	0.0	0.14	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.1	0.001	0.2	0.00	0.12	0.14	0.1	0.2	
Std. Dev. (σ)	Historic	0.16	0.00	0.01	0.00	0.5	0.0	0.29	0.0	0.09	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.1	0.001	0.5	0.00	0.07	0.18	0.2	0.4	
Maximum	Historic	0.43	0.00	0.03	0.00	6.8	0.0	1.46	0.0	0.25	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.1	0.00	0.3	0.002	1.3	0.00	0.21	0.49	0.5	1.0	
Minimum	Historic	0.00	0.00	0.00	0.00	5.4	0.0	0.72	0.0	0.03	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.000	0.0	0.00	0.01	0.03	0.0	0.0	
X+2σ	Historic	0.46	0.00	0.03	0.00	7.3	0.0	1.64	0.0	0.31	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.1	0.00	0.3	0.002	1.3	0.00	0.27	0.50	0.5	1.0	
X-2σ	Historic	-0.18	0.00	-0.02	0.00	5.3	0.0	0.48	0.0	-0.04	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0	-0.1	0.00	-0.2	0.000	-0.8	0.00	-0.03	-0.22	-0.3	-0.6	
N > X+2σ	Historic	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	
N < X-2σ	Historic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Count	Project	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Average	Project	0.19	#DIV/0!	0.03	#DIV/0!	6.8	#DIV/0!	1.30	#DIV/0!	0.18	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.3	0.001	#DIV/0!	#DIV/0!	0.10	0.17	#DIV/0!	1.0
Std. Dev. (σ)	Project	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Maximum	Project	0.19	0.00	0.03	0.00	6.8	0.0	1.30	0.0	0.18	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.3	0.001	0.0	0.00	0.10	0.17	0.0	1.0	
Minimum	Project	0.19	0.00	0.03	0.00	6.8	0.0	1.30	0.0	0.18	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.3	0.001	0.0	0.00	0.10	0.17	0.0	1.0	
X+2σ	Project	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
X-2σ	Project	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
590	5901716	0.19	-0.02	0.03	-0.02	6.8	-0.5	1.30	-0.1	0.18	-0.1	-0.1	-0.1	-0.1	-0.001	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.05	0.3	0.001	-0.5	-0.02	0.10	0.17	-0.1	1.0	

		NEUTRON ACTIVATION ANALYSIS (2A-HUMUS-INAA)																																					
PROJECT NUMBER	SAMPLE	Au ppb	Ag ppm	As ppm	Ba ppm	Br ppm	Ca %	Co ppm	Cr ppm	Cs ppm	Fe %	Hf ppm	Hg ppm	Ir ppb	Mo ppm	Na ppm	Ni ppm	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sr ppm	Ta ppm	Th ppm	U ppm	W ppm	Zn ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm	Mass (g)	LOI (%)		
		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	10	0.5	0.5	0.1	1	20	0.1	1	3	0.1	0.2	0.1	0.1	0.1				
Count	Historic	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
N > LD	Historic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average	Historic	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.63	99.12
Std. Dev. (σ)	Historic	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	1.01	
Maximum	Historic	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	1	0	0.1	0.00	0.00	0.00	0.00	0.00	0.00	15.86	100.30	
Minimum	Historic	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.3	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.30	98.17	
X+2σ	Historic	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	1	0	0.1	0.00	0.00	0.00	0.00	0.00	0.00	16.10	101.13	
X-2σ	Historic	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	-1	0	-0.1	0.00	0.00	0.00	0.00	0.00	0.00	15.15	97.11	
N > X+2σ	Historic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
N < X-2σ	Historic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Count	Project	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Average	Project	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	15.30	99.86
Std. Dev. (σ)	Project	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Maximum	Project	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.3	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.30	99.86
Minimum	Project	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.3	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.30	99.86
X+2σ	Project	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
X-2σ	Project	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
590	5901716	-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	-10	-0.5	-0.5	-0.1	-1	-20	0.3	-1	-3	-0.1	-0.2	-0.2	-0.1	-0.1	15.30	99.86		

Table with columns for PROJECT NUMBER, SAMPLE, CERTIFICATE (D.L. 2005, D.L. 2006), and ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS. The analysis columns list elements Li through In with their respective ppm values and detection limits. The table includes historical and project data for various samples, including 590 Blank and 590 GXR-1 Certified values.

PROJECT NUMBER	SAMPLE	CERTIFICATE	ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																														
			Li	B _e	B	Na	Mg	Al	K	Ca	Se	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	
			ppm	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
			D.L. 2006	D.L. 2006	D.L. 2006	0.001	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.02
		Count	Historic	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	38	40	39	40	40	40	40	40	40	40	40		
		Average	Historic	46.6	1.0	10	0.129	0.46	3.19	0.61	0.67	3.8	40	22.4	925	1.69	7.9	16.1	73.28	507.3	9.72	-0.1	10.0	0.0	52.6	87.2	10.13	7.8	1.4	0.83	15,712	3.50	0.04
		Std. Dev. (σ)	Historic	2.5	0.1	10	0.046	0.04	0.17	0.04	0.04	0.9	5	1.3	68	0.12	0.3	1.4	6.56	42.4	1.94	0.1	2.8	1.7	5.1	3.8	0.85	1.7	0.4	0.40	1,835	0.19	0.00
		Maximum	Historic	52.9	1.3	22	0.183	0.54	3.51	0.69	0.78	5.0	48	24.9	1030	1.91	8.5	19.1	87.70	607.0	13.96	0.2	14.9	1.4	74.9	98.3	11.70	10.7	2.1	3.12	17,400	3.99	0.05
		Minimum	Historic	41.8	0.8	-1	0.063	0.31	2.82	0.51	0.54	-0.1	23	18.8	788	1.37	7.1	10.7	45.91	316.5	6.50	-0.1	2.6	-10.0	46.5	77.5	6.64	2.2	0.2	0.28	10,452	3.14	0.03
		Count	Project	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	15	17	16	17	17	17	17	17	17	17	17		
		Average	Project	47.5	1.1	19	0.167	0.46	3.16	0.60	0.67	4.0	21.8	956	1.68	7.8	16.0	73.74	503.4	8.45	-0.1	10.6	-0.4	51.9	85.4	10.26	7.6	1.4	0.85	16,112	3.37	0.04	
		Std. Dev. (σ)	Project	2.0	0.1	1	0.009	0.03	0.17	0.03	0.04	0.3	4	1.4	38	0.10	0.3	1.1	5.47	36.6	1.01	0.0	2.7	2.6	6.3	3.6	0.52	1.1	0.4	0.60	0.567	0.19	0.00
		Maximum	Project	52.9	1.3	22	0.183	0.54	3.51	0.66	0.78	5.0	46	24.9	1030	1.86	8.4	18.6	87.70	607.0	10.60	-0.1	14.9	0.5	74.9	91.3	11.70	10.0	2.0	3.12	17,000	3.99	0.05
		Minimum	Project	44.5	0.9	16	0.151	0.43	2.82	0.54	0.62	3.6	29	18.8	904	1.54	7.1	14.1	64.80	445.0	6.53	-0.1	5.0	-10.0	46.5	77.5	5.24	2.0	0.6	0.52	15,200	3.14	0.04
		GXR-2	Certified values (2006)	54.0	1.7	42	0.556	0.85	16.46	1.37	0.9	62	36.0	1007	1.86	8.6	21.0	78.00	630.0	37.00	-	25.0	0.6	78.0	160.0	17.00	269.0	11.0	2.10	17,000	4.1	0.26	
		GXR-2	Certified values (2006)	54.0	1.7	42	0.556	0.85	16.50	1.40	0.9	6.9	62	36.0	1010	1.86	8.6	21.0	78.00	630.0	37.00	-	25.0	0.6	78.0	160.0	17.00	270.0	11.0	2.10	17,000	4.10	0.20
		GXR-2	A06-1824 (I)	48.2	1.1	18	0.173	0.46	3.16	0.61	0.70	4.1	37	22.1	1000	1.56	8.0	16.5	70.20	483.0	9.28	-0.1	9.4	-0.1	50.8	86.9	10.50	6.6	1.0	0.65	16,400	3.46	0.04
		GXR-2	A06-1824 (I)	47.0	1.1	20	0.173	0.48	3.23	0.62	0.69	4.0	41	22.5	1020	1.79	7.9	16.0	77.30	540.0	8.52	-0.1	11.3	0.4	51.6	87.2	10.40	8.2	1.5	0.83	16,800	3.51	0.04
		GXR-2	A06-1824 (I)	44.7	1.0	16	0.154	0.44	2.82	0.57	0.62	3.6	29	18.8	908	1.54	7.1	14.1	69.90	469.0	8.01	-0.1	12.2	0.2	47.6	77.5	9.24	5.3	0.8	0.52	16,700	3.14	0.04
		GXR-2	A06-1824 (I)	47.4	1.1	19	0.154	0.45	3.05	0.58	0.65	3.8	39	21.2	946	1.61	7.7	15.3	69.00	501.0	9.17	-0.1	11.3	0.3	49.5	83.5	9.94	7.8	1.6	0.81	15,500	3.25	0.04
		GXR-2	A06-1824 (I)	46.4	1.2	18	0.169	0.46	3.00	0.59	0.66	4.2	39	21.4	936	1.65	7.7	15.4	73.90	505.0	8.10	-0.1	9.7	0.3	51.6	85.2	10.20	7.5	1.4	0.71	15,500	3.30	0.04
		GXR-2	A06-1824 (I)	46.4	1.1	20	0.170	0.46	3.05	0.58	0.67	4.0	39	21.6	936	1.57	7.6	16.0	73.50	484.0	9.42	-0.1	5.9	0.2	49.0	89.4	10.10	7.5	1.0	0.56	15,200	3.22	0.04
		GXR-2	A06-1824 (I)	46.9	1.2	18	0.151	0.44	2.94	0.55	0.78	3.6	46	20.4	927	1.61	7.8	16.6	87.70	607.0	6.53	-0.1	13.8	0.3	46.9	80.6	11.70	8.7	1.5	0.64	15,400	3.25	0.04
		GXR-2	A06-1824 (I)	52.9	1.3	21	0.164	0.49	3.20	0.61	0.71	4.2	43	23.0	990	1.74	8.2	16.6	74.30	511.0	9.28	-0.1	11.7	0.2	54.2	87.3	10.60	8.5	1.6	0.72	16,100	3.39	0.04
		GXR-2	A06-1824 (I)	49.7	1.2	18	0.161	0.47	3.21	0.62	0.69	4.4	42	23.1	955	1.71	7.9	16.3	73.50	488.0	9.06	-0.1	13.0	0.3	50.6	84.6	10.10	7.4	1.4	0.70	15,800	3.29	0.04
		GXR-2	A06-1824 (I)	45.7	1.1	18	0.164	0.45	3.14	0.57	0.63	3.9	38	21.1	926	1.73	7.5	15.1	72.40	501.0	8.10	-0.1	8.6	0.5	50.0	83.4	9.70	7.4	1.2	0.64	15,700	3.24	0.04
		GXR-2	A06-1824 (I)	46.6	1.0	19	0.159	0.43	3.00	0.54	0.62	3.7	38	20.0	932	1.68	7.6	15.3	72.80	500.0	8.30	-0.1	10.4	-0.1	46.5	80.5	9.80	7.9	1.4	3.12	16,000	3.32	0.05
		GXR-2	A06-1824 (I)	49.0	1.1	20	0.172	0.46	3.22	0.59	0.65	4.1	40	21.7	971	1.63	7.7	14.7	64.80	445.0	6.93	-0.1	8.4	0.2	52.0	85.1	10.20	7.2	1.2	0.61	16,100	3.36	0.05
		GXR-2	A06-1824 (I)	47.9	1.1	19	0.176	0.45	3.28	0.60	0.67	4.0	40	22.1	928	1.86	7.8	15.6	74.70	498.0	8.29	-0.1	10.5	0.3	50.7	85.3	10.20	7.9	1.4	0.69	16,300	3.42	0.04
		GXR-2	A06-1824 (I)	48.4	1.0	20	0.167	0.45	3.29	0.60	0.66	3.8	40	21.8	956	1.68	7.8	16.0	74.90	508.0	7.35	-0.1	10.7	0.1	50.3	86.2	10.40	8.1	1.7	0.72	16,400	3.41	0.04
		GXR-2	A06-1824 (I)	48.0	1.1	22	0.171	0.47	3.42	0.63	0.70	3.8	42	22.7	992	1.83	8.4	16.9	79.30	532.0	8.89	-0.1	14.0	0.3	50.5	88.3	10.50	10.0	2.0	0.99	17,000	3.42	0.05
		GXR-2	A06-1824 (I)	46.0	0.9	19	0.179	0.48	3.51	0.66	0.70	5.0	45	24.9	1030	1.76	8.0	17.6	79.80	529.0	10.60	-	14.9	-10.0	55.1	89.6	10.70	8.0	1.7	0.83	17,000	3.99	0.04
		GXR-2	A06-1824 (I)	44.5	1.0	20	0.183	0.47	3.17	0.61	0.64	4.2	37	21.4	904	1.55	7.5	15.8	65.50	457.0	7.76	-	5.0	-0.1	74.9	91.3	10.10	5.2	0.6	0.71	16,200	3.37	0.04
		Count	Historic	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	38	40	40	40	40	40	40	40	40	40	40		
		Average	Historic	9.6	1.5	2	0.113	1.57	2.72	1.71	0.85	6.4	82	56.7	159	3.46	14.4	39.8	6196.51	82.5	11.28	0.3	103.7	5.8	102.7	78.2	12.27	5.2	0.1	314.72	3.557	0.12	0.22
		Std. Dev. (σ)	Historic	0.9	0.1	2	0.040	0.09	0.13	0.13	0.07	1.0	9	2.1	61	1.41	0.9	4.3	199.73	48.8	0.54	0.1	22.6	1.2	10.4	11.6	2.25	1.2	0.2	8.24	0.283	0.23	0.04
		Maximum	Historic	13.6	1.7	6	0.175	1.90	3.03	2.16	1.02	7.4	103	62.6	365	8.25	16.8	48.9	6520.00	249.9	12.53	0.5	177.5	10.0	160.0	114.2	19.12	7.5	0.8	336.37	4.424	0.85	0.37
		Minimum	Historic	8.2	1.2	-1	0.054	1.39	2.49	1.33	0.75	2.1	51	52.4	101	2.33	13.4	24.4	5680.00	39.9	9.60	0.2	61.3	0.7	92.8	66.9	7.19	2.5	-0.1	299.85	3.310	-0.10	0.19
		Count	Project	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	15	17	17	17	17	17	17	17	17	17	17		
		Average	Project	9.9	1.5	4	0.146	1.60	2.72	1.68	0.85	6.5	81	55.7	142	3.02	14.0	39.2	6208.24	69.9	11.02	0.3	99.2	5.7	103.7	73.5	12.02	5.1	0.1	314.88	3.423	0.06	0.21
		Std. Dev. (σ)	Project	1.0	0.1	1	0.013	0.09	0.11	0.10	0.05	0.7	4	1.5	7	0.07	0.4	2.7	206.65	4.6	0.52	0.1	4.8	1.1	14.8	3.7	0.71	1.0	0.2	9.55	0.177	0.07	0.01
		Maximum	Project	13.6	1.7	6	0.175	1.90	2.92	1.90	0.99	7.4	96	58.1	156	3.15	14.6	46.3	6480.00	84.4	11.70	0.4	105.0	10.0	160.0	81.4	14.20	6.6	0.8	336.00	3.800	0.14	0.23
		Minimum	Project	9.0	1.3	3	0.128	1.48	2.56	1.52	0.76	4.3	76	52.4	128	2.89	13.4	35.1	5680.00	80.1	9.60	0.2	86.8	5.1	93.8	66.9	11.20	3.1	-0.1	303.00	3.310	-0.01	0.19
		GXR-4	Certified values (2006)	11.1	1.9	8	0.664	1.66	7.20	4.01	1.0	87	64.0	166	3.09	14.6	42.0	6620.00	73.0														

PROJECT NUMBER	SAMPLE	CERTIFICATE	ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																														
			Sr	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Bi	Th	U		
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
			D.L. 2006 0.06	D.L. 2006 0.02	D.L. 2006 0.02	D.L. 2006 0.1	D.L. 2006 0.5	D.L. 2006 0.5	D.L. 2006 0.01	D.L. 2006 0.1	D.L. 2006 0.02	D.L. 2006 0.1	D.L. 2006 0.1	D.L. 2006 0.1	D.L. 2006 0.1	D.L. 2006 0.1	D.L. 2006 0.001	D.L. 2006 0.1	D.L. 2006 0.1	D.L. 2006 0.1	D.L. 2006 0.1	D.L. 2006 0.1	D.L. 2006 0.1	D.L. 2006 0.1	D.L. 2006 0.06	D.L. 2006 0.1	D.L. 2006 0.001	D.L. 2006 0.5	D.L. 2006 0.02	D.L. 2006 0.01	D.L. 2006 0.02	D.L. 2006 0.1	D.L. 2006 0.1
	Count	Historic	40	40	40	40	40	40	40	40	40	40	40	40	38	40	40	38	38	40	39	38	38	38	38	40	40	40	40	40	40	40	
	Average	Historic	0.73	19.63	0.30	4.15	1250.0	20.6	41.70	4.7	16.96	3.1	0.6	2.6	0.3	1.941	0.4	1.0	0.1	0.7	0.0	-0.1	-0.050	-0.1	-0.001	34.8	0.80	630.95	0.19	4.0	4.0	1.4	
	Std. Dev. (σ)	Historic	0.25	5.80	0.14	0.22	84.0	1.1	3.22	0.2	0.76	0.1	0.0	0.1	0.0	0.096	0.0	0.1	0.0	0.1	0.1	0.1	0.000	0.1	0.001	9.7	0.09	53.82	0.08	0.4	0.1		
	Maximum	Historic	1.10	29.94	0.57	4.63	1430.0	23.8	46.70	5.1	18.41	3.4	0.6	2.8	0.4	2.150	0.4	1.1	0.1	0.9	0.1	-0.1	-0.050	0.3	0.002	66.1	0.73	885.68	0.48	4.8	1.6		
	Minimum	Historic	0.14	4.74	0.03	3.52	1080.0	18.0	34.10	4.1	15.10	2.8	0.5	2.3	0.3	1.670	0.3	0.9	0.1	0.2	-0.1	-0.1	-0.050	-0.1	-0.001	9.0	0.22	556.00	-0.02	2.8	1.2		
	Count	Project	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	15	15	15	15	15	15	17	17	17	17	17	17	17	
	Average	Project	0.71	19.41	0.24	4.04	1222.9	20.2	39.45	4.6	16.54	3.1	0.6	2.6	0.3	1.903	0.4	1.0	0.1	0.7	0.0	0.0	-0.050	-0.1	-0.001	31.8	0.58	615.35	0.19	3.9	1.4		
	Std. Dev. (σ)	Project	0.21	4.43	0.11	0.24	78.2	1.3	2.89	0.2	0.72	0.1	0.0	0.1	0.0	0.090	0.0	0.0	0.1	0.1	0.0	0.1	0.000	0.1	0.001	8.7	0.04	34.33	0.07	0.4	0.1		
	Maximum	Project	1.05	26.80	0.44	4.63	1430.0	23.8	46.70	4.8	18.00	3.4	0.6	2.8	0.4	2.060	0.4	1.0	0.1	0.8	0.1	-0.1	-0.050	0.2	0.001	50.9	0.64	678.00	0.37	4.5	1.6		
	Minimum	Project	0.17	8.54	0.06	3.52	1080.0	18.0	34.10	4.1	15.10	2.8	0.5	2.3	0.3	1.670	0.3	0.9	0.1	0.6	-0.1	-0.1	-0.050	-0.1	-0.001	20.4	0.49	556.00	0.09	2.8	1.2		
	GXR-2	Certified values (2005)	1.70	49.00	0.69	5.2	2240.0	25.6	61.40	19.00	3.5	0.8	3.3	0.5	3.3				0.3	2.0	0.3	8.3	0.9	1.9		36.0	1.03	690.00	0.69	8.80	2.9		
	GXR-2	Certified values (2006)	1.70	49.00	0.69	5.20	2240.0	25.6	61.40	19.00	3.5	0.8	3.3	0.5	3.300				0.3	2.0	0.3	8.0	0.9	2.0		36.0	1.00	690.00	0.69	8.80	2.9		
590	GXR-2	A06-1824 (i)	0.49	17.50	0.11	4.17	1220.0	20.5	41.00	4.7	17.10	3.2	0.6	2.7	0.3	1.930	0.4	1.0	0.1	0.8	0.1	-0.1	-0.05	-0.1	-0.001	39.6	0.61	623.00	0.13	3.9	1.4		
590	GXR-2	A06-1824 (i)	0.81	23.10	0.34	4.24	1250.0	20.4	41.20	4.7	16.90	3.2	0.6	2.7	0.3	1.940	0.4	1.0	0.1	0.8	0.1	0.1	-0.05	-0.1	-0.001	59.9	0.62	657.00	0.17	4.3	1.4		
590	GXR-2	A06-1824 (i)	0.52	23.90	0.15	3.80	1080.0	18.0	37.10	4.1	15.10	2.8	0.5	2.3	0.3	1.670	0.3	0.9	0.1	0.7	-0.1	-0.1	-0.05	-0.1	-0.001	20.4	0.49	559.00	0.15	2.8	1.2		
590	GXR-2	A06-1824 (i)	0.89	22.90	0.40	3.89	1160.0	19.2	39.30	4.4	15.90	3.0	0.6	2.5	0.3	1.860	0.4	1.0	0.1	0.7	-0.1	0.1	-0.05	-0.1	-0.001	37.1	0.57	637.00	0.27	3.6	1.4		
590	GXR-2	A06-1824 (i)	0.68	21.10	0.27	4.18	1210.0	20.0	39.90	4.5	16.30	3.1	0.6	2.6	0.3	1.930	0.4	1.0	0.1	0.7	-0.1	-0.1	-0.05	-0.1	0.001	27.1	0.62	607.00	0.10	4.2	1.4		
590	GXR-2	A06-1824 (i)	0.45	8.54	0.06	4.00	1330.0	20.0	39.70	4.6	16.30	3.1	0.5	2.6	0.3	1.860	0.4	1.0	0.1	0.7	0.1	-0.1	-0.05	-0.1	-0.001	22.6	0.52	589.00	0.21	3.8	1.4		
590	GXR-2	A06-1824 (i)	0.72	17.60	0.31	3.70	1200.0	18.9	38.10	4.4	15.70	3.0	0.5	2.5	0.3	1.820	0.3	0.9	0.1	0.7	-0.1	-0.1	-0.05	0.2	-0.001	34.7	0.61	555.00	0.24	3.4	1.4		
590	GXR-2	A06-1824 (i)	0.79	20.70	0.28	4.03	1200.0	20.8	41.80	4.7	17.00	3.2	0.6	2.7	0.3	2.010	0.4	1.0	0.1	0.6	-0.1	0.1	-0.05	-0.1	0.001	45.0	0.58	639.00	0.37	3.7	1.4		
590	GXR-2	A06-1824 (i)	0.85	19.30	0.14	4.13	1200.0	19.8	40.00	4.6	16.30	3.1	0.6	2.6	0.3	1.900	0.4	1.0	0.1	0.8	0.1	-0.1	-0.05	-0.1	-0.001	31.3	0.61	601.00	0.09	3.6	1.4		
590	GXR-2	A06-1824 (i)	0.69	16.00	0.18	3.99	1180.0	19.5	36.20	4.5	15.90	3.1	0.6	2.5	0.3	1.860	0.4	1.0	0.1	0.6	-0.1	-0.1	-0.05	-0.1	-0.001	22.5	0.55	600.00	0.17	3.7	1.4		
590	GXR-2	A06-1824 (i)	0.81	17.90	0.20	3.52	1140.0	19.5	37.80	4.5	16.10	3.1	0.5	2.5	0.3	1.830	0.3	0.9	0.1	0.7	-0.1	-0.1	-0.05	-0.1	-0.001	25.8	0.55	631.00	0.18	4.5	1.3		
590	GXR-2	A06-1824 (i)	0.67	17.20	0.11	4.08	1210.0	20.4	36.20	4.7	16.70	3.2	0.6	2.6	0.4	1.960	0.4	1.0	0.1	0.6	-0.1	-0.1	-0.05	-0.1	-0.001	26.0	0.56	641.00	0.13	4.2	1.4		
590	GXR-2	A06-1824 (i)	0.78	19.00	0.23	4.10	1210.0	20.0	38.90	4.6	16.40	3.2	0.6	2.6	0.3	1.940	0.4	1.0	0.1	0.7	0.1	0.1	-0.05	-0.1	-0.001	29.9	0.57	590.00	0.18	4.0	1.4		
590	GXR-2	A06-1824 (i)	0.88	17.50	0.24	4.07	1210.0	20.3	40.30	4.7	16.70	3.2	0.6	2.7	0.3	1.930	0.4	1.0	0.1	0.7	0.1	-0.1	-0.05	-0.1	-0.001	29.4	0.59	643.00	0.20	3.8	1.4		
590	GXR-2	A06-1824 (i)	0.87	25.90	0.40	4.04	1300.0	20.8	34.10	4.8	17.10	3.3	0.6	2.7	0.4	2.000	0.4	1.0	0.1	0.8	-0.1	-0.1	-0.05	-0.1	-0.001	41.4	0.64	678.00	0.22	4.2	1.5		
590	GXR-2	A06-1824 (i)	1.05	26.80	0.44	4.63	1260.0	22.1	46.70	18.00	3.4	0.6	2.8	0.4	2.060			0.1	0.6	-0.1	-0.1	-0.05	-0.1		31.4	0.64	634.00	0.24	4.5	1.6			
590	GXR-2	A06-1824 (i)	0.17	15.10	0.21	4.15	1430.0	23.8	42.40	17.60	3.3	0.6	2.6	0.3	1.850			0.1	-0.1	-0.1	-0.1	-0.05	-0.1		23.9	0.58	576.00	0.16	4.3	1.5			
	Count	Historic	40	40	40	40	40	40	40	40	38	40	40	40	40	38	38	40	40	40	40	40	38	40	38	40	40	40	40	40	40		
	Average	Historic	5.11	3.42	1.03	2.58	76.6	51.1	92.04	10.8	37.44	6.0	1.3	4.4	0.5	2.592	0.4	1.2	0.1	0.9	0.1	0.1	-0.050	12.1	0.171	410.8	2.90	54.36	44.21	16.5	5.3		
	Std. Dev. (σ)	Historic	1.35	3.18	0.74	0.21	135.3	4.6	9.29	0.7	2.78	0.4	0.1	0.3	0.0	0.308	0.1	0.2	0.0	0.1	0.0	0.1	0.000	5.6	0.005	100.8	0.22	41.16	102.10	1.4	1.8		
	Maximum	Historic	9.60	14.33	3.53	3.20	872.0	66.6	110.00	12.2	44.60	7.2	1.5	5.1	0.6	3.582	0.6	1.7	0.2	1.3	0.2	0.2	-0.050	27.6	0.184	836.8	3.34	196.80	397.99	20.0	11.5		
	Minimum	Historic	3.66	1.33	0.50	2.27	18.5	42.4	64.40	9.3	31.60	5.3	1.2	3.9	0.4	2.310	0.4	1.0	0.1	0.8	-0.1	-0.1	-0.050	7.3	0.161	219.0	2.32	38.14	6.96	13.8	4.4		
	Count	Project	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	15	15	15	15	15	17	17	17	17	17	17	17		
	Average	Project	4.79	2.45	0.73	2.47	88.4	49.7	87.08	10.3	36.29	5.9	1.3	4.3	0.5	2.462	0.4	1.1	0.1	0.8	0.1	0.1	-0.050	9.0	0.170	427.7	2.72	42.22	12.46	16.4	4.7		
	Std. Dev. (σ)	Project	0.43	0.39	0.12	0.08	202.6	5.6	10.72	0.6	3.12	0.4	0.1	0.2	0.0	0.082	0.0	0.0	0.0	0.0	0.0	0.1	0.000	1.1	0.004	57.2	0.07	1.71	3.39	1.6	0.2		
	Maximum	Project	5.77	3.14	0.93	2.65	872.0	66.6	110.00	11.2	44.60	7.2	1.5	4.9	0.5	2.640	0.4	1.1	0.2	1.0	0.1	0.2	-0.050	11.4	0.174	542.0	2.89	46.00	18.90	19.4	5.4		
	Minimum	Project	4.04	1.33	0.50	2.27	18.5	42.4	64.40	9.3	31.60	5.3	1.2	3.9	0.4	2.310																	

PROJECT NUMBER	SAMPLE	CERTIFICATE	ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																														
			Li	Be	B	Na	Mg	Al	K	Ca	So	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	
			ppm	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
			0.5	0.1	1	0.001	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.01	0.02	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.1
	Count	Historic	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	38	40	39	40	40	40	40	38	40	40	40	40		
	Average	Historic	27.1	0.9	3	0.069	0.39	7.10	1.14	0.17	21.6	160	77.4	1004	5.37	13.1	23.0	65.16	117.0	16.65	0.0	201.6	0.1	70.9	34.9	6.49	7.4	-0.1	1.31	0.248	0.00	0.06	
	Std. Dev. (σ)	Historic	1.5	0.1	3	0.022	0.03	0.41	0.06	0.04	0.9	14	3.6	64	0.28	0.4	1.8	5.69	10.1	1.86	0.1	41.1	1.7	7.5	3.2	0.58	2.8	0.1	0.28	0.031	0.09	0.00	
	Maximum	Historic	30.0	1.2	6	0.096	0.47	8.25	1.25	0.21	23.6	179	87.2	1110	6.03	14.4	27.5	79.90	143.0	20.83	0.4	254.0	2.0	112.0	40.2	7.89	13.6	0.4	1.75	0.318	0.12	0.07	
	Minimum	Historic	24.0	0.6	-1	0.035	0.26	5.86	0.99	-0.01	19.5	92	70.8	841	4.47	12.5	14.5	39.11	70.4	9.17	-0.1	1.3	-10.0	63.4	28.3	4.03	1.7	-0.1	0.69	0.163	-0.10	0.05	
	Count	Project	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	15	17	16	17	17	17	17	15	17	17	17	17		
	Average	Project	27.2	1.0	5	0.086	0.40	7.12	1.13	0.16	21.9	160	77.2	1048	5.44	13.0	23.2	67.05	119.4	15.56	-0.1	201.3	-0.3	71.6	33.2	6.73	6.3	-0.1	1.19	0.258	0.05	0.06	
	Std. Dev. (σ)	Project	1.3	0.1	1	0.004	0.02	0.27	0.05	0.02	0.9	6	2.2	31	0.12	0.3	1.4	4.27	7.4	1.77	0.1	55.3	2.6	10.7	2.2	0.34	2.2	0.1	0.24	0.030	0.06	0.00	
	Maximum	Project	30.0	1.2	7	0.096	0.47	7.51	1.22	0.20	23.6	172	80.5	1110	5.75	13.5	27.5	79.90	143.0	16.80	0.1	254.0	0.7	112.0	38.7	7.89	10.9	0.4	1.58	0.318	0.12	0.07	
	Minimum	Project	25.7	0.8	4	0.081	0.36	6.62	1.02	0.14	20.6	146	72.8	1000	5.26	12.5	21.5	59.00	106.0	9.17	-0.1	1.3	-10.0	64.7	30.3	6.34	3.1	-0.1	0.77	0.163	-0.01	0.06	
	GXR-6	Certified values (2006)	32.0	1.4	10	0.104	0.61	17.68	1.87	0.18	-	186	96.0	1067	5.58	13.8	27.0	66.00	118.0	35.00	-	330.0	0.9	90.0	35.0	14.00	110.0	7.8	2.40	1.900	1.0	0.28	
	GXR-6	Certified values (2006)	32.0	1.0	10	0.100	0.61	17.70	1.87	0.18	27.6	186	96.0	1010	5.58	13.8	27.0	66.00	118.0	35.00	-	330.0	0.9	90.0	35.0	14.00	110.0	8.0	2.40	1.900	1.00	0.30	
590	GXR-6	A06-1824 (i)	28.3	1.2	5	0.096	0.40	7.31	1.22	0.18	23.3	156	80.5	1100	5.30	13.4	23.7	63.60	115.0	16.80	-0.1	1.3	-0.1	72.6	35.6	6.97	3.2	-0.1	1.20	0.262	-0.01	0.06	
590	GXR-6	A06-1824 (i)	27.0	1.0	4	0.087	0.40	7.14	1.13	0.17	21.7	162	79.6	1080	5.75	13.2	23.1	69.00	123.0	16.20	-0.1	219.0	0.4	68.9	34.1	6.64	6.0	-0.1	1.56	0.252	0.10	0.06	
590	GXR-6	A06-1824 (i)	26.6	1.0	5	0.088	0.41	6.90	1.11	0.16	21.3	151	74.8	1030	5.39	12.7	21.9	67.80	113.0	14.90	-0.1	189.0	0.4	66.1	32.8	6.37	5.1	-0.1	1.23	0.242	0.12	0.06	
590	GXR-6	A06-1824 (i)	27.8	1.0	6	0.081	0.39	7.01	1.11	0.17	21.3	165	76.9	1040	5.44	13.1	22.5	62.90	120.0	16.60	-0.1	228.0	0.5	68.4	33.7	6.58	9.2	-0.1	1.39	0.248	0.11	0.06	
590	GXR-6	A06-1824 (i)	27.2	1.0	5	0.091	0.40	6.62	1.10	0.16	21.6	146	73.3	1000	5.26	12.7	22.4	66.10	119.0	15.40	-0.1	171.0	0.3	70.9	34.8	6.65	3.1	-0.1	1.02	0.237	-0.01	0.07	
590	GXR-6	A06-1824 (i)	29.1	1.2	6	0.087	0.39	6.81	1.10	0.17	22.1	161	76.3	1040	5.35	13.0	23.2	69.60	116.0	16.00	-0.1	212.0	0.3	68.7	34.8	6.67	4.5	-0.1	0.77	0.267	-0.01	0.06	
590	GXR-6	A06-1824 (i)	27.3	1.1	6	0.085	0.39	6.94	1.10	0.20	20.9	157	76.2	1040	5.45	13.0	27.5	79.90	143.0	9.17	-0.1	254.0	0.3	67.9	33.1	7.89	8.1	-0.1	1.03	0.267	-0.01	0.06	
590	GXR-6	A06-1824 (i)	29.5	1.2	7	0.082	0.41	6.96	1.10	0.17	22.1	165	77.7	1040	5.46	13.3	23.2	64.90	115.0	15.90	-0.1	231.0	0.4	71.6	33.7	6.70	8.6	-0.1	1.21	0.257	-0.01	0.06	
590	GXR-6	A06-1824 (i)	30.0	1.2	8	0.089	0.41	7.12	1.19	0.18	23.1	165	77.4	1040	5.43	13.1	23.2	65.80	117.0	16.20	-0.1	221.0	0.4	69.7	34.9	6.77	6.7	-0.1	1.13	0.264	-0.01	0.06	
590	GXR-6	A06-1824 (i)	25.7	0.9	5	0.086	0.40	7.13	1.11	0.15	20.9	160	75.9	1030	5.44	12.8	22.3	67.00	122.0	16.50	-0.1	205.0	0.7	69.8	32.0	6.49	5.6	-0.1	0.97	0.262	0.11	0.06	
590	GXR-6	A06-1824 (i)	25.7	0.9	6	0.081	0.36	6.73	1.02	0.14	20.6	151	72.8	1000	5.40	12.5	21.7	64.60	116.0	15.60	-0.1	201.0	0.2	64.7	30.3	6.34	5.4	-0.1	1.18	0.257	0.10	0.07	
590	GXR-6	A06-1824 (i)	27.1	1.1	5	0.083	0.39	7.30	1.12	0.14	22.7	161	77.9	1080	5.40	13.0	21.5	59.00	106.0	15.20	-0.1	184.0	0.3	73.4	31.3	6.78	5.4	-0.1	0.95	0.274	-0.01	0.07	
590	GXR-6	A06-1824 (i)	26.9	1.0	5	0.090	0.47	7.44	1.12	0.15	22.2	164	79.1	1030	5.30	13.2	22.7	67.70	120.0	16.50	-0.1	219.0	0.3	70.1	30.8	6.69	7.8	-0.1	1.10	0.268	0.12	0.06	
590	GXR-6	A06-1824 (i)	25.8	0.9	5	0.081	0.38	7.29	1.09	0.14	21.1	161	77.3	1050	5.46	13.1	23.1	67.20	120.0	15.00	-0.1	220.0	0.2	67.9	30.7	6.60	5.9	-0.1	0.94	0.268	-0.01	0.06	
590	GXR-6	A06-1824 (i)	25.7	0.9	5	0.082	0.39	7.40	1.12	0.17	21.3	167	78.8	1030	5.65	13.5	23.5	69.20	122.0	16.70	0.1	238.0	0.3	65.4	32.7	6.63	10.9	0.4	1.58	0.274	-0.01	0.07	
590	GXR-6	A06-1824 (i)	27.0	0.8	5	0.090	0.40	7.51	1.20	0.18	23.6	172	79.8	1070	5.44	12.7	23.3	66.70	119.0	16.80	-	219.0	-10.0	69.3	38.7	6.62	8.6	-0.1	1.55	0.163	0.09	0.06	
590	GXR-6	A06-1824 (i)	26.0	0.9	5	0.081	0.40	7.50	1.22	0.14	23.0	161	78.7	1110	5.55	13.5	25.2	68.80	123.0	15.00	-	209.0	-0.1	112.0	31.0	7.00	3.7	-0.1	1.45	0.318	0.12	0.07	

PROJECT NUMBER	SAMPLE	CERTIFICATE	ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																														
			Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Bi	Th	U		
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
			D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006	D.L. 2006
	Count	Historic	40	40	39	40	40	40	40	38	40	40	40	40	40	38	38	40	39	38	39	38	38	38	40	40	40	40	40	40	40		
	Average	Historic	0.88	1.30	0.03	3.62	1050.8	11.5	32.18	2.9	11.29	2.3	0.6	1.9	0.3	1.467	0.3	0.8	0.1	0.6	-0.1	0.0	-0.050	-0.1	0.000	50.8	1.83	95.94	0.10	2.8	0.8		
	Std. Dev. (σ)	Historic	0.19	0.38	0.04	0.15	89.7	0.7	2.23	0.1	0.48	0.1	0.0	0.1	0.0	0.056	0.0	0.0	0.0	0.1	0.0	0.1	0.000	0.0	0.001	22.9	0.13	3.95	0.06	0.4	0.1		
	Maximum	Historic	1.21	1.88	0.09	4.01	1220.0	15.0	35.90	3.1	13.20	2.7	0.6	2.1	0.3	1.600	0.3	0.9	0.1	0.8	0.1	0.2	-0.050	0.1	0.003	95.5	2.10	104.00	0.27	4.1	1.1		
	Minimum	Historic	0.13	0.51	-0.02	3.31	892.0	10.5	25.10	2.8	10.70	2.1	0.5	1.8	0.2	1.346	0.3	0.7	0.1	0.1	-0.1	-0.1	-0.050	-0.1	-0.001	17.3	1.41	82.36	-0.02	2.1	0.7		
	Count	Project	17	17	16	17	17	17	17	17	17	17	17	17	17	17	17	15	17	16	15	16	15	15	15	17	17	17	17	17	17		
	Average	Project	0.84	1.16	0.02	3.62	1000.2	11.5	30.98	2.9	11.22	2.4	0.6	1.9	0.3	1.464	0.3	0.8	0.1	0.7	-0.1	0.0	-0.050	-0.1	0.000	42.8	1.83	96.06	0.10	2.8	0.8		
	Std. Dev. (σ)	Project	0.09	0.32	0.04	0.17	83.0	1.0	2.33	0.1	0.60	0.1	0.0	0.1	0.0	0.049	0.0	0.0	0.0	0.1	0.1	0.1	0.000	0.1	0.001	19.2	0.07	3.59	0.07	0.4	0.0		
	Maximum	Project	1.04	1.65	0.08	4.01	1200.0	15.0	35.90	3.1	13.20	2.7	0.6	2.1	0.3	1.600	0.3	0.8	0.1	0.7	0.1	0.2	-0.050	0.1	0.002	88.1	2.01	104.00	0.24	3.5	0.9		
	Minimum	Project	0.66	0.51	-0.02	3.32	892.0	10.5	25.10	2.8	10.70	2.2	0.5	1.8	0.2	1.370	0.3	0.8	0.1	0.5	-0.1	-0.1	-0.050	-0.1	-0.001	19.7	1.73	88.50	-0.02	2.3	0.8		
	GXR-6	Certified values (2005)	1.70	3.60	0.02	4.2	1300.0	13.9	36.00	-	13.00	2.7	0.8	3.0	0.4	2.8				0.0	2.4	0.3	4.3	0.466	1.9	95.0	2.20	101.00	0.29	5.30	1.6		
	GXR-6	Certified values (2006)	1.70	3.60	0.02	4.20	1300.0	13.9	36.00	-	13.00	2.7	0.8	3.0	0.4	2.800				0.0	2.0	0.3	4.0	0.6	2.0	95.0	2.20	101.00	0.30	5.30	2.0		
590	GXR-6	A06-1824 (I)	0.66	1.24	-0.02	3.93	1060.0	11.8	32.90	3.1	11.80	2.5	0.6	1.9	0.3	1.500	0.3	0.8	0.1	0.7	-0.1	-0.1	-0.05	-0.1	-0.001	19.7	1.89	97.90	0.02	2.9	0.8		
590	GXR-6	A06-1824 (I)	0.85	1.47	-0.02	3.63	1010.0	11.1	31.60	2.9	11.10	2.3	0.6	1.9	0.3	1.470	0.3	0.8	0.1	0.7	-0.1	-0.1	-0.05	-0.1	-0.001	28.7	1.82	98.60	0.14	2.9	0.8		
590	GXR-6	A06-1824 (I)	0.80	1.14	-0.02	3.51	971.0	10.5	30.70	2.8	10.70	2.2	0.5	1.8	0.2	1.370	0.3	0.8	0.1	0.7	-0.1	-0.1	-0.05	-0.1	-0.001	27.0	1.73	92.90	0.08	2.4	0.8		
590	GXR-6	A06-1824 (I)	0.94	1.58	0.05	3.51	990.0	10.9	31.10	2.8	10.80	2.3	0.6	1.9	0.2	1.440	0.3	0.8	0.1	0.7	-0.1	0.2	-0.05	-0.1	-0.001	35.2	1.78	96.80	0.18	2.6	0.8		
590	GXR-6	A06-1824 (I)	0.70	1.07	0.05	3.63	1050.0	11.3	31.20	2.9	11.00	2.4	0.6	1.9	0.3	1.480	0.3	0.8	0.1	0.6	-0.1	-0.1	-0.05	-0.1	0.002	24.5	1.87	92.30	-0.02	2.5	0.9		
590	GXR-6	A06-1824 (I)	0.83	0.51	-0.02	3.63	1040.0	11.4	31.30	3.0	11.20	2.4	0.6	1.9	0.3	1.460	0.3	0.8	0.1	0.7	-0.1	-0.1	-0.05	-0.1	-0.001	40.2	1.85	94.70	0.12	2.4	0.8		
590	GXR-6	A06-1824 (I)	0.76	1.11	0.08	3.52	1200.0	10.9	30.70	2.9	10.80	2.3	0.5	1.8	0.3	1.430	0.3	0.8	0.1	0.7	-0.1	-0.1	-0.05	-0.1	-0.001	34.6	1.83	104.00	0.10	2.7	0.8		
590	GXR-6	A06-1824 (I)	0.86	1.32	0.07	3.45	982.0	11.2	31.50	2.9	10.80	2.3	0.6	1.9	0.2	1.460	0.3	0.8	0.1	0.5	-0.1	0.1	-0.05	-0.1	-0.001	20.9	1.77	95.00	0.24	2.4	0.8		
590	GXR-6	A06-1824 (I)	0.88	1.35	-0.02	3.69	1040.0	11.4	31.60	2.9	11.30	2.4	0.6	1.9	0.3	1.470	0.3	0.8	0.1	0.7	-0.1	-0.1	-0.05	-0.1	-0.001	36.2	1.81	94.30	-0.02	2.3	0.8		
590	GXR-6	A06-1824 (I)	0.84	0.78	0.06	3.60	941.0	11.4	29.00	2.9	11.20	2.4	0.6	1.9	0.3	1.470	0.3	0.8	0.1	0.6	-0.1	-0.1	-0.05	-0.1	-0.001	40.7	1.79	94.80	0.10	2.6	0.8		
590	GXR-6	A06-1824 (I)	0.86	0.83	-0.02	3.32	892.0	10.9	29.40	2.9	10.90	2.3	0.6	1.8	0.2	1.380	0.3	0.8	0.1	0.7	-0.1	-0.1	-0.05	-0.1	-0.001	54.4	1.77	94.30	0.07	3.5	0.8		
590	GXR-6	A06-1824 (I)	0.82	0.95	0.03	3.76	929.0	11.7	28.80	3.0	11.60	2.5	0.6	2.0	0.3	1.490	0.3	0.8	0.1	0.6	-0.1	-0.1	-0.05	-0.1	-0.001	44.1	1.88	88.50	0.05	2.9	0.8		
590	GXR-6	A06-1824 (I)	0.86	1.08	-0.02	3.64	914.0	11.1	30.30	2.9	11.20	2.4	0.6	1.9	0.3	1.470	0.3	0.8	0.1	0.7	0.1	0.2	-0.05	-0.1	0.002	59.5	1.83	96.90	0.09	2.9	0.8		
590	GXR-6	A06-1824 (I)	0.89	0.82	0.04	3.54	907.0	11.2	31.20	2.9	11.10	2.3	0.6	2.0	0.3	1.460	0.3	0.8	0.1	0.7	-0.1	-0.1	-0.05	-0.1	0.001	39.8	1.85	98.50	0.10	2.9	0.8		
590	GXR-6	A06-1824 (I)	0.90	1.62	0.07	3.44	999.0	10.9	25.10	2.9	10.70	2.3	0.5	1.8	0.2	1.470	0.3	0.8	0.1	0.7	-0.1	0.1	-0.05	-0.1	-0.001	88.1	1.75	98.50	0.12	3.2	0.9		
590	GXR-6	A06-1824 (I)	1.04	1.65	0.06	3.69	1140.0	12.1	34.40		11.40	2.4	0.6	1.9	0.3	1.460				0.1	0.5	-0.1	0.1	-0.05	-0.1		55.8	1.81	94.00	0.12	2.8	0.9	
590	GXR-6	A06-1824 (I)	0.82	1.24	-0.02	4.01	939.0	15.0	35.90		13.20	2.7	0.6	2.1	0.3	1.600				0.1	-0.1	-0.1	-0.05	-0.1		78.5	2.01	101.00	0.14	3.4	0.9		

PROJECT NUMBER	SAMPLE	CERTIFICATE	ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																													
			Li ppm	Be ppm	B ppm	Na %	Mg %	Al %	K %	Ca %	Sc ppm	V ppm	Cr ppm	Mn ppm	Fe %	Co ppm	Ni ppm	Cu ppm	Zn ppm	Ga ppm	Ge ppm	As ppm	Se ppm	Rb ppm	Sr ppm	Y ppm	Zr ppm	Nb ppm	Mo ppm	Ag ppm	Cd ppm	In ppm
			0.1	0.1	1	0.001	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.1	0.01	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02	
590	5901565 Orig	A06-1824 (i)	2.4	1.0	2	0.046	0.09	1.21	0.03	0.21	2.6	49	20.5	1250	2.58	13.5	7.1	3.10	63.5	2.34	0.2	<0.1	1.0	3.2	16.3	49.30	<0.1	0.8	4.03	0.010	0.19	0.03
590	5901565 Rep Orig	A06-1824 (i)	2.4	1.0	1	0.046	0.09	1.19	0.03	0.21	2.6	49	20.5	1250	2.58	13.5	7.1	3.08	63.5	2.34	0.2	<0.1	0.9	3.2	16.3	48.80	<0.1	0.8	3.78	0.010	0.19	0.03
590	5901565 Rep Dup	A06-1824 (i)	2.3	0.8	2	0.046	0.09	1.21	0.03	0.20	2.5	49	20.3	1230	2.55	13.3	7.1	3.10	62.3	2.25	0.2	<0.1	1.0	3.2	16.2	49.30	0.2	0.8	4.03	0.007	0.19	0.02
590	5901579 Orig	A06-1824 (i)	7.4	0.4	1	0.040	0.23	1.18	0.10	0.32	1.8	32	45.2	204	1.55	9.0	21.4	24.50	48.6	3.32	<0.1	3.6	0.6	11.0	25.6	9.05	0.9	1.3	3.30	0.124	0.29	<0.02
590	5901579 Rep Orig	A06-1824 (i)	7.4	0.4	1	0.035	0.22	1.17	0.10	0.30	1.6	31	45.2	204	1.55	9.0	21.4	24.50	48.6	3.32	<0.1	3.6	0.6	10.7	24.1	8.96	0.7	1.2	3.30	0.124	0.29	<0.02
590	5901579 Rep Dup	A06-1824 (i)	7.2	0.3	1	0.040	0.23	1.18	0.10	0.32	1.8	32	44.9	204	1.54	8.9	21.3	24.20	46.4	3.31	0.1	3.2	0.5	11.0	25.6	9.05	0.9	1.3	3.27	0.121	0.29	<0.02
590	5901590 Orig	A06-1824 (i)	2.1	0.8	2	0.029	0.06	1.51	0.02	0.20	1.3	49	10.8	1320	4.81	28.0	7.2	8.12	54.7	3.40	0.1	0.3	1.5	2.0	15.2	29.60	0.2	0.9	2.24	0.060	0.51	0.04
590	5901590 Rep Orig	A06-1824 (i)	2.0	0.7	2	0.029	0.06	1.51	0.02	0.20	1.3	49	10.8	1320	4.81	28.0	7.2	7.57	54.7	3.40	0.1	0.2	1.3	2.0	14.9	29.60	0.2	0.9	2.07	0.060	0.51	0.04
590	5901590 Rep Dup	A06-1824 (i)	2.1	0.8	2	0.021	0.06	1.49	0.02	0.19	1.1	48	10.7	1300	4.63	27.1	7.0	8.12	54.2	3.32	0.1	0.3	1.5	2.0	15.2	29.40	0.2	0.9	2.24	0.057	0.50	0.04
590	5901605 Orig	A06-1824 (i)	0.6	<0.1	4	0.019	0.02	0.46	<0.01	0.18	<0.1	7	4.2	19	0.19	1.0	7.0	4.11	9.2	0.99	<0.1	<0.1	0.8	1.0	25.2	9.84	0.2	0.5	0.84	0.041	0.14	<0.02
590	5901605 Rep Orig	A06-1824 (i)	0.5	<0.1	2	0.019	0.02	0.46	<0.01	0.18	<0.1	7	4.1	19	0.19	0.9	6.9	4.01	9.2	0.95	<0.1	0.2	0.8	1.0	25.2	9.84	0.2	0.5	0.84	0.041	0.14	<0.02
590	5901605 Rep Dup	A06-1824 (i)	0.6	<0.1	4	0.018	0.02	0.46	<0.01	0.18	<0.1	7	4.2	19	0.17	1.0	7.0	4.11	8.7	0.99	<0.1	<0.1	0.8	1.0	24.9	9.76	0.1	0.5	0.72	0.040	0.13	<0.02
590	5901618 Orig	A06-1824 (i)	0.7	0.3	2	0.019	0.04	1.06	0.01	0.20	<0.1	38	10.6	212	1.16	6.5	7.3	5.43	44.0	1.75	<0.1	<0.1	1.3	1.0	18.5	16.40	<0.1	0.7	1.28	0.033	0.26	<0.02
590	5901618 Rep Orig	A06-1824 (i)	0.7	0.3	2	0.019	0.04	1.06	0.01	0.20	<0.1	38	10.6	212	1.16	6.5	7.3	5.38	44.0	1.75	<0.1	<0.1	1.3	1.0	18.5	16.40	<0.1	0.7	1.27	0.030	0.25	<0.02
590	5901618 Rep Dup	A06-1824 (i)	0.6	0.3	2	0.019	0.04	1.02	0.01	0.19	<0.1	37	10.4	204	1.13	6.4	7.1	5.43	43.6	1.75	<0.1	<0.1	1.0	0.8	18.3	15.80	0.3	0.6	1.28	0.033	0.26	<0.02
590	5901632 Orig	A06-1824 (i)	0.6	0.4	1	0.014	0.02	1.11	<0.01	0.08	1.0	36	13.7	588	5.89	20.7	5.2	4.16	11.9	1.91	0.1	<0.1	1.1	0.7	11.0	28.60	0.2	0.5	6.03	0.036	<0.01	<0.02
590	5901632 Rep Orig	A06-1824 (i)	0.6	0.3	1	0.014	0.02	1.08	<0.01	0.08	0.9	35	13.5	583	5.73	20.2	5.2	3.88	11.9	1.86	0.1	<0.1	0.9	0.7	10.7	28.00	0.2	0.4	6.03	0.036	<0.01	<0.02
590	5901632 Rep Dup	A06-1824 (i)	0.5	0.4	1	0.014	0.02	1.11	<0.01	0.07	1.0	36	13.7	588	5.89	20.7	5.2	4.16	11.8	1.91	0.1	<0.1	1.1	0.7	11.0	28.60	0.1	0.5	5.93	0.035	<0.01	<0.02
590	5901655 Orig	A06-1824 (i)	0.6	0.8	5	0.038	0.04	1.15	0.01	0.62	0.2	33	8.4	140	0.52	4.3	7.3	6.18	30.6	1.77	0.1	<0.1	1.4	1.0	28.1	37.10	<0.1	1.1	2.62	0.017	0.37	<0.02
590	5901655 Rep Orig	A06-1824 (i)	0.6	0.8	5	0.021	0.04	1.15	0.01	0.62	0.2	33	8.4	140	0.52	4.3	7.3	6.18	30.6	1.77	0.1	<0.1	1.1	1.0	28.1	37.10	0.1	1.1	2.62	0.010	0.37	0.02
590	5901655 Rep Dup	A06-1824 (i)	0.6	0.8	5	0.038	0.04	1.13	0.01	0.59	0.2	32	8.3	135	0.50	4.1	7.2	5.91	30.2	1.75	0.1	<0.1	1.4	0.9	26.9	35.90	<0.1	1.1	2.47	0.017	0.34	<0.02
590	5901669 Orig	A06-1824 (i)	<0.1	<0.1	3	0.025	0.03	0.16	<0.01	0.17	<0.1	3	4.4	28	0.07	0.3	2.6	2.60	21.5	0.44	<0.1	0.7	0.9	0.8	26.0	1.39	0.6	0.2	0.46	0.036	0.46	<0.02
590	5901669 Rep Orig	A06-1824 (i)	<0.1	<0.1	2	0.025	0.03	0.16	<0.01	0.16	<0.1	3	4.2	28	0.07	0.3	2.5	2.56	17.9	0.44	<0.1	0.7	0.9	0.8	25.7	1.37	0.6	0.2	0.46	0.034	0.45	<0.02
590	5901669 Rep Dup	A06-1824 (i)	<0.1	<0.1	3	0.022	0.03	0.16	<0.01	0.17	<0.1	3	4.4	28	0.06	0.3	2.6	2.60	21.5	0.44	<0.1	0.6	0.7	0.6	26.0	1.39	0.5	0.2	0.42	0.036	0.46	<0.02
590	5901682 Orig	A06-1824 (i)	2.0	0.3	3	0.036	0.06	0.81	0.02	0.17	0.7	27	7.1	131	1.05	3.3	4.2	3.28	16.0	3.16	<0.1	0.2	0.9	2.5	14.6	18.90	0.1	1.2	1.00	0.038	0.12	0.02
590	5901682 Rep Orig	A06-1824 (i)	1.8	0.3	3	0.036	0.06	0.81	0.02	0.17	0.7	27	7.1	131	1.05	3.3	4.2	3.28	16.0	3.16	<0.1	0.2	0.8	2.5	14.6	18.90	0.1	1.2	1.00	0.038	0.12	0.02
590	5901682 Rep Dup	A06-1824 (i)	2.0	0.3	2	0.029	0.05	0.76	0.02	0.16	0.6	25	6.8	121	0.97	3.0	3.9	3.11	13.8	2.96	<0.1	0.2	0.9	2.1	13.4	17.90	0.1	1.1	0.91	0.037	0.11	0.02
590	5901696 Orig	A06-1824 (i)	0.8	0.4	2	0.018	0.03	1.43	<0.01	0.18	1.4	26	10.3	724	7.42	9.3	4.8	2.81	13.6	1.46	0.2	<0.1	0.9	1.0	18.3	35.40	0.2	0.4	3.39	0.032	<0.01	<0.02
590	5901696 Rep Orig	A06-1824 (i)	0.8	0.4	2	0.014	0.03	1.39	<0.01	0.18	1.4	25	9.7	702	7.24	9.1	4.8	2.81	13.1	1.40	0.1	<0.1	0.7	0.8	17.5	34.70	0.2	0.4	3.06	0.032	<0.01	<0.02
590	5901696 Rep Dup	A06-1824 (i)	0.8	0.4	2	0.018	0.03	1.43	0.01	0.18	1.4	26	10.3	724	7.42	9.3	4.8	2.75	13.6	1.46	0.2	<0.1	0.9	1.0	18.3	35.40	0.2	0.4	3.39	0.024	<0.01	<0.02
590	5901715 Orig	A06-1824 (i)	<0.1	0.4	3	0.029	0.03	0.29	0.02	0.20	<0.1	6	2.8	23	0.11	0.5	4.1	6.34	7.6	1.46	0.1	0.5	1.2	0.9	38.4	12.00	0.2	0.7	0.84	0.066	0.16	<0.02
590	5901715 Rep Orig	A06-1824 (i)	<0.1	0.4	2	0.025	0.03	0.29	0.02	0.20	<0.1	6	2.8	23	0.11	0.5	4.1	6.34	7.5	1.46	0.1	0.5	1.2	0.9	38.4	12.00	0.2	0.7	0.84	0.066	0.16	<0.02
590	5901715 Rep Dup	A06-1824 (i)	<0.1	0.3	3	0.029	0.03	0.26	0.02	0.19	<0.1	5	2.5	22	0.11	0.5	3.7	6.07	7.6	1.25	0.1	0.4	0.6	0.9	36.2	11.30	0.1	0.6	0.71	0.059	0.16	<0.02
590	5901729 Orig	A06-1824 (i)	7.0	0.5	3	0.045	0.22	1.12	0.11	0.32	2.0	33	46.4	208	1.47	9.5	23.0	23.90	45.6	3.46	<0.1	4.0	0.9	11.3	26.5	9.44	1.0	1.4	3.32	0.124	0.29	<0.02
590	5901729 Rep Orig	A06-1824 (i)	6.7	0.5	3	0.045	0.20	1.05	0.11	0.32	1.8	31	44.1	198	1.39	8.9	22.3	22.60	45.6	3.38	<0.1	3.7	0.9	10.6	25.1	9.21	0.9	1.3	3.07	0.124	0.29	<0.02
590	5901729 Rep Dup	A06-1824 (i)	7.0	0.5	2	0.042	0.22	1.12	0.11	0.32	2.0	33	46.4	208	1.47	9.5	23.0	23.90	45.4	3.46	<0.1	4.0	0.9	11.3	26.5	9.44	1.0	1.4	3.32	0.117	0.28	<0.02

PROJECT NUMBER	SAMPLE	ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																												
		Sn ppm	Sb ppm	Te ppm	Cs ppm	Ba ppm	La ppm	Ce ppm	Pr ppm	Nd ppm	Sm ppm	Eu ppm	Gd ppm	Tb ppm	Dy ppm	Ho ppm	Er ppm	Tm ppm	Yb ppm	Lu ppm	Hf ppm	Ta ppm	W ppm	Re ppm	Au ppb	TI ppm	Pb ppm	Bi ppm	Th ppm	U ppm
590	5901565 Orig	0.49	0.04	< 0.02	0.25	107.0	89.6	98.30	24.2	89.10	14.7	2.2	11.6	1.4	8,170	1.7	4.7	0.7	3.7	0.6	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.10	7.07	0.03	0.3	4.0
590	5901565 Rep Orig	0.49	0.04	< 0.02	0.25	103.0	88.7	98.30	23.8	89.10	14.5	2.2	11.3	1.4	8,120	1.7	4.7	0.7	3.7	0.6	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.10	6.51	0.03	0.3	3.8
590	5901565 Rep Dup	0.46	0.04	< 0.02	0.25	107.0	89.6	98.30	24.2	88.80	14.7	2.2	11.6	1.4	8,170	1.7	4.7	0.7	3.7	0.6	< 0.1	< 0.05	< 0.1	0.001	< 0.5	0.09	7.07	0.03	0.3	4.0
590	5901579 Orig	0.38	0.10	< 0.02	1.48	67.6	31.0	46.00	7.3	26.00	4.4	0.6	3.2	0.4	1,850	0.3	0.9	0.1	0.7	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	2.7	0.22	9.67	0.17	0.8	8.7
590	5901579 Rep Orig	0.35	0.10	< 0.02	1.46	67.3	30.5	45.70	7.3	25.70	4.3	0.6	3.2	0.3	1,770	0.3	0.9	0.1	0.7	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	1.4	0.21	9.67	0.11	0.8	8.7
590	5901579 Rep Dup	0.38	0.10	< 0.02	1.48	67.6	31.0	46.00	7.3	26.00	4.4	0.6	3.2	0.4	1,850	0.3	0.9	0.1	0.7	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	2.7	0.22	9.49	0.17	0.7	8.6
590	5901590 Orig	1.00	0.15	< 0.02	0.28	54.9	40.3	60.90	11.8	45.30	8.4	1.2	7.0	0.9	5,330	1.1	3.1	0.4	2.5	0.4	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.10	38.30	< 0.02	0.4	5.9
590	5901590 Rep Orig	1.00	0.15	0.03	0.28	54.2	40.1	60.90	11.7	45.20	8.3	1.2	7.0	0.9	5,240	1.1	3.0	0.4	2.4	0.4	< 0.1	< 0.05	< 0.1	< 0.001	0.5	0.08	38.30	< 0.02	0.4	5.8
590	5901590 Rep Dup	0.98	0.14	< 0.02	0.28	54.9	40.3	60.40	11.8	45.30	8.4	1.2	7.0	0.9	5,330	1.1	3.1	0.4	2.5	0.4	< 0.1	< 0.05	< 0.1	0.001	< 0.5	0.10	38.30	< 0.02	0.3	5.9
590	5901605 Orig	0.24	< 0.02	< 0.02	0.15	69.4	14.4	15.00	3.9	15.30	2.8	0.5	2.4	0.3	1,870	0.4	1.0	0.1	0.8	0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	< 0.02	2.69	< 0.02	< 0.1	1.2
590	5901605 Rep Orig	0.24	< 0.02	< 0.02	0.15	69.4	14.4	14.80	3.9	15.10	2.8	0.5	2.4	0.3	1,870	0.4	1.0	0.1	0.8	0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	< 0.02	2.69	0.05	< 0.1	1.2
590	5901605 Rep Dup	0.21	< 0.02	< 0.02	0.14	68.5	14.4	15.00	3.9	15.30	2.8	0.5	2.4	0.3	1,810	0.4	1.0	0.1	0.8	0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	< 0.02	2.53	< 0.02	< 0.1	1.2
590	5901618 Orig	0.19	< 0.02	< 0.02	0.13	62.6	20.0	29.70	5.9	24.00	4.6	1.0	4.1	0.5	2,910	0.6	1.6	0.2	1.3	0.2	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.04	1.49	< 0.02	< 0.1	0.3
590	5901618 Rep Orig	0.13	< 0.02	< 0.02	0.13	62.6	20.0	29.70	5.9	24.00	4.6	1.0	4.1	0.5	2,910	0.6	1.6	0.2	1.3	0.2	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.04	1.49	< 0.02	< 0.1	0.3
590	5901618 Rep Dup	0.19	< 0.02	< 0.02	0.12	61.9	19.6	29.10	5.7	22.90	4.4	0.9	3.8	0.5	2,810	0.6	1.6	0.2	1.2	0.2	< 0.1	< 0.05	< 0.1	0.001	< 0.5	0.03	1.29	< 0.02	0.2	0.3
590	5901632 Orig	0.20	< 0.02	< 0.02	0.14	47.5	35.5	43.70	10.6	42.00	7.8	1.4	6.8	0.9	5,060	1.0	2.9	0.4	2.2	0.3	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.04	1.95	< 0.02	0.2	17.2
590	5901632 Rep Orig	0.20	0.02	0.08	0.14	47.1	35.4	43.40	10.6	42.00	7.7	1.4	6.8	0.9	5,060	1.0	2.9	0.4	2.2	0.3	< 0.1	< 0.05	< 0.1	< 0.001	0.8	0.04	1.95	< 0.02	0.2	17.2
590	5901632 Rep Dup	0.19	< 0.02	< 0.02	0.13	47.5	35.5	43.70	10.5	41.80	7.8	1.4	6.7	0.9	5,060	1.0	2.9	0.4	2.2	0.3	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.04	1.93	< 0.02	0.1	17.0
590	5901655 Orig	0.23	0.05	< 0.02	< 0.02	57.7	54.5	65.40	15.7	61.00	11.7	1.7	9.3	1.2	6,720	1.3	3.7	0.5	3.0	0.5	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.04	4.90	< 0.02	0.3	31.2
590	5901655 Rep Orig	0.23	0.05	< 0.02	0.10	57.7	54.5	65.40	15.7	61.00	11.7	1.7	9.3	1.2	6,720	1.3	3.7	0.5	3.0	0.5	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.04	3.98	0.06	0.3	31.2
590	5901655 Rep Dup	0.22	0.05	< 0.02	< 0.02	56.6	53.2	63.40	15.2	60.10	11.2	1.6	9.1	1.2	6,560	1.3	3.6	0.5	3.0	0.4	< 0.1	< 0.05	< 0.1	< 0.001	1.1	0.04	4.00	< 0.02	0.2	30.2
590	5901669 Orig	0.62	0.23	< 0.02	< 0.02	43.6	2.8	6.02	0.7	2.51	0.4	< 0.1	0.4	< 0.1	0.256	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	< 0.02	13.60	0.12	0.4	0.2
590	5901669 Rep Orig	0.62	0.23	< 0.02	< 0.02	43.6	2.8	5.45	0.7	2.51	0.4	< 0.1	0.4	< 0.1	0.253	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	< 0.02	13.60	0.11	0.4	0.2
590	5901669 Rep Dup	0.54	0.21	< 0.02	< 0.02	43.1	2.8	6.02	0.7	2.46	0.4	< 0.1	0.4	< 0.1	0.256	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	< 0.02	13.10	0.12	0.2	0.2
590	5901682 Orig	0.65	0.08	< 0.02	0.32	43.7	32.6	46.60	9.1	34.60	6.5	0.9	5.3	0.7	3,730	0.7	2.0	0.3	1.5	0.2	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.04	11.20	< 0.02	0.2	4.9
590	5901682 Rep Orig	0.65	0.08	< 0.02	0.32	43.7	32.6	46.60	9.1	34.60	6.5	0.9	5.3	0.7	3,730	0.7	2.0	0.3	1.5	0.2	< 0.1	< 0.05	< 0.1	0.001	< 0.5	0.04	11.20	< 0.02	0.2	4.9
590	5901682 Rep Dup	0.60	0.06	< 0.02	0.29	40.9	30.8	43.50	8.4	32.00	5.9	0.9	4.8	0.6	3,450	0.7	1.9	0.3	1.4	0.2	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.04	10.70	< 0.02	0.1	4.8
590	5901696 Orig	0.16	< 0.02	< 0.02	0.16	88.2	41.0	53.20	12.4	49.30	9.4	1.6	8.0	1.0	6,110	1.3	3.7	0.5	2.9	0.4	< 0.1	< 0.05	< 0.1	0.001	< 0.5	0.03	1.47	< 0.02	0.3	1.6
590	5901696 Rep Orig	0.16	0.02	< 0.02	0.16	84.5	40.2	51.10	12.2	48.00	9.4	1.6	7.8	1.0	6,110	1.3	3.6	0.5	2.9	0.4	< 0.1	< 0.05	< 0.1	0.001	< 0.5	0.02	1.47	< 0.02	0.3	1.6
590	5901696 Rep Dup	0.12	< 0.02	< 0.02	0.16	88.2	41.0	53.20	12.4	49.30	9.4	1.6	8.0	1.0	6,100	1.3	3.7	0.5	2.9	0.4	< 0.1	< 0.05	< 0.1	0.001	< 0.5	0.03	1.46	< 0.02	0.2	1.6
590	5901715 Orig	0.35	0.03	0.06	0.11	149.0	20.8	20.90	4.9	17.90	3.2	0.4	2.5	0.4	2,160	0.5	1.2	0.2	0.9	0.1	< 0.1	< 0.05	< 0.1	0.002	< 0.5	< 0.02	2.04	0.14	< 0.1	1.6
590	5901715 Rep Orig	0.35	0.03	0.04	0.11	149.0	20.8	20.90	4.9	17.90	3.2	0.4	2.5	0.4	2,160	0.5	1.2	0.2	0.9	0.1	< 0.1	< 0.05	< 0.1	0.002	< 0.5	< 0.02	2.04	0.14	< 0.1	1.6
590	5901715 Rep Dup	0.31	0.02	0.06	0.11	144.0	19.3	19.70	4.6	16.80	3.0	0.4	2.5	0.4	2,160	0.4	1.2	0.2	0.9	0.1	< 0.1	< 0.05	< 0.1	0.001	< 0.5	< 0.02	2.01	0.13	< 0.1	1.2
590	5901729 Orig	0.50	0.09	0.08	1.54	70.6	31.7	47.70	7.8	27.40	4.7	0.6	3.2	0.4	1,880	0.3	0.9	0.1	0.7	0.1	< 0.1	< 0.05	< 0.1	0.004	< 0.5	0.22	10.60	0.20	1.0	9.0
590	5901729 Rep Orig	0.50	0.09	0.08	1.44	68.7	31.7	47.70	7.8	27.40	4.7	0.6	3.1	0.4	1,880	0.3	0.9	0.1	0.7	0.1	< 0.1	< 0.05	< 0.1	0.001	2.2	0.22	10.60	0.20	1.0	9.0
590	5901729 Rep Dup	0.47	0.08	0.02	1.54	70.6	31.7	47.10	7.6	27.10	4.7	0.6	3.2	0.4	1,880	0.3	0.9	0.1	0.7	0.1	< 0.1	< 0.05	< 0.1	0.004	< 0.5	0.22	9.26	0.11	1.0	8.9

Table with columns for PROJECT NUMBER, SAMPLE, CERTIFICATE, and NEUTRON ACTIVATION ANALYSIS (INAA). Rows include historical and project data for various elements like Au, Ag, As, Ba, Br, Ca, Co, Cr, Cs, Fe, Hf, Hg, Ir, Mo, Ni, Pb, Rb, S, Sb, Se, Sr, Ta, Th, U, W, Zn, La, Ce, Nd, Sm, Eu, Tb, Yb, Lu, and Mass. Includes data for samples 590 and LKSD-1 with certified values for 2006 and 2009.



Date Submitted: 09-Jun-06
Invoice No.: A06-1824 (i)
Invoice Date: 09-Mar-07
Your Reference:

IOS Services Geoscientifiques Inc.
1319 Bo-1, St. Pa-1
Chicoutimi PQ G7J-3Y2
Canada

ATTN: Rejean Girard

CERTIFICATE OF ANALYSIS

6602 Pulp samples were submitted for analysis.

The following analytical packages were requested: Code 2A-15g Humus INAA(INAAGEO)
Code 4F-LOI LOI
REPORT A06-1824 (i) Code UT-1-0.5g Aqua Regia ICP/MS

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

Notes:

Assays are recommended for values >10,000 for Cu and Au.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman", written over a horizontal line.

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

Final Report
Activation Laboratories

Element:	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In
Units:	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit:	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02	
Reference Method:	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
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Final Report
Activation Laboratories

Element:	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
Units:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
Detection Limit:	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	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
Reference Method:	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
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Final Report
Activation Laboratories

Element:	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In
Units:	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Detection Limit:	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.01	0.002	0.01	0.02	
Reference Method:	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
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Final Report
Activation Laboratories

Element:	Sn	Sb	Te	Ca	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
Units:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm
Detection Limit:	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	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
Reference Method:	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
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Final Report
Activation Laboratories

Element:	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In
Units:	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Detection Limit:	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.01	0.002	0.01	0.02	
Reference Method:	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
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5901553	0.9	1	3	0.033	0.05	1.28	0.03	<0.02	0.27	3.3	41	13.3	671	4.77	29.6	10.3	11.3	67.7	1.81	0.2	<0.1	2.1	2.6	31.7	56.7	0.1	0.8	4.95	0.112	0.45	<0.02
5901554	2.6	0.4	2	0.041	0.1	0.69	0.02	<0.02	0.33	0.7	21	8.7	106	0.61	2.9	6.3	5.56	26.6	2.66	<0.1	<0.1	0.5	2.1	26	17.6	0.4	1.6	1.39	0.034	0.18	<0.02
5901555	0.9	0.2	2	0.029	0.04	0.69	0.02	<0.02	0.13	0.1	15	6.6	65	0.43	1.5	4.6	4.03	10.9	1.53	<0.1	<0.1	0.8	1.3	13	19.9	0.1	0.5	0.85	0.036	0.13	<0.02
5901556	<0.1	0.2	2	0.024	0.03	0.18	<0.01	0.04	0.16	0.2	4	2.5	19	0.09	0.4	4.5	2.88	6.4	0.29	<0.1	<0.1	0.4	0.7	19.5	7	0.3	0.4	0.79	0.012	0.17	<0.02
5901557	<0.1	0.3	4	0.03	0.02	0.44	0.01	0.22	0.35	0.1	11	5.1	41	0.12	0.8	5.1	7.17	24.9	0.92	<0.1	0.2	1.8	0.9	31.3	9.1	0.7	0.7	0.51	0.056	0.2	<0.02
5901558	0.9	0.2	2	0.023	0.04	0.47	0.01	0.54	0.18	0.2	15	5.5	457	0.82	1.9	4.1	3.47	26.6	0.58	<0.1	<0.1	0.5	0.9	18.6	11.2	<0.1	0.4	2.32	0.015	<0.12	<0.02
5901559	<0.1	0.1	<1	0.042	<0.01	<0.01	<0.01	0.02	<0.01	<0.1	<1	104	101	1.13	1.1	14.9	19.1	0.9	0.12	<0.1	0.1	<0.1	0.2	<0.5	0.41	0.1	0.2	20.5	0.004	<0.01	<0.02
5901560	2.5	1	3	0.031	0.1	2.4	0.03	<0.02	0.24	3.8	68	28.5	1430	7.17	12.8	13.1	24.2	135	3.7	0.2	<0.1	3.5	3.6	21.9	56.7	0.2	0.8	12.8	0.286	0.76	0.04
5901561	1.9	0.6	2	0.033	0.09	1.16	0.02	<0.02	0.31	1.1	32	11.8	230	1.38	3.3	7	5.97	80.3	1.9	<0.1	<0.1	0.8	2.5	21.4	26.4	<0.1	0.6	4.82	0.029	0.41	<0.02
5901562	0.7	0.3	2	0.034	0.04	0.72	0.02	<0.02	0.24	0.1	23	7.7	141	0.49	2.6	6.4	6.77	33.2	1.7	<0.1	0.2	1.1	1	20.7	14.7	0.4	0.9	1.41	0.035	0.28	<0.02
5901563	<0.1	0.5	3	0.028	0.03	1.28	0.01	0.04	0.25	0.7	41	8.4	796	1.45	21.4	6.8	8.83	72.4	2.1	<0.1	<0.1	1.1	0.9	22.2	22.2	<0.1	0.6	2.52	0.053	0.57	0.02
5901564	1.2	0.6	1	0.031	0.06	1.08	0.02	0.05	0.22	0.8	30	12.9	91	0.77	2.4	7.3	5.23	34.8	2.19	0.1	<0.1	0.8	1.8	19.9	39.7	0.1	1.2	1.54	0.027	0.17	<0.02
5901565	2.4	1	2	0.046	0.09	1.21	0.03	0.03	0.21	2.6	49	20.5	1250	2.58	13.5	7.1	3.1	63.5	2.34	0.2	<0.1	1	3.2	16.3	49.3	<0.1	0.8	4.03	0.01	0.19	0.03
5901566	7.5	0.2	1	0.034	0.35	0.77	0.04	0.05	0.29	1.7	26	17.8	222	1.37	7.1	10.9	9.91	39.2	3.47	<0.1	<0.1	0.3	2.8	13.3	5.82	0.4	0.8	0.63	0.061	0.16	<0.02
5901567	0.8	0.6	3	0.024	0.04	1.21	0.02	0.1	0.2	0.9	51	15	378	4.8	26.4	9	10.3	77.6	1.58	0.1	<0.1	1.9	1.5	19.3	35.1	0.2	1.1	10.2	0.137	0.5	<0.02
5901568	2.1	0.4	2	0.048	0.13	1.03	0.03	0.05	0.43	2.4	60	14.8	633	3.82	25.2	16.6	10.1	78.7	3.38	0.2	<0.1	1.5	2.8	34.9	22.1	0.4	2.6	7.34	0.079	0.42	0.02
5901569	1.6	0.3	4	0.041	0.09	1.08	0.03	0.06	0.37	2	61	13	1130	3.69	12.8	6.7	9.25	59.3	3.51	0.1	<0.1	1	2.4	28.6	24.5	0.2	1.7	2.61	0.085	0.32	0.03
5901570	<0.1	0.2	1	0.022	0.03	0.43	0.01	0.28	0.15	<0.1	11	5.6	34	0.33	0.9	4.7	7.44	77.5	1.12	<0.1	<0.1	0.5	0.9	13.2	6.45	<0.1	0.6	1.16	0.061	0.13	<0.02
5901571	<0.1	0.3	2	0.027	0.04	0.59	0.01	0.29	0.25	<0.1	13	6	41	0.21	1.6	6.4	7.09	13	1.28	<0.1	<0.1	0.5	0.6	22	10.6	0.4	0.8	0.57	0.033	0.14	<0.02
5901572	<0.1	0.2	1	0.03	0.03	0.28	0.02	0.28	0.2	<0.1	6	4.3	35	0.22	0.8	4.2	3.77	9.5	0.92	<0.1	<0.1	0.4	1.1	20.1	3.78	0.1	0.6	0.44	0.025	0.11	<0.02
5901573	5.4	0.3	2	0.039	0.17	0.91	0.08	0.13	0.23	0.8	24	33.8	157	1.16	6.9	15.9	19.6	37.4	2.51	<0.1	2.6	0.4	7.9	19.3	6.58	0.4	0.9	2.29	0.098	0.21	<0.02
5901574	0.9	0.4	<1	0.024	0.05	1.05	0.02	0.05	0.07	1.4	50	9.1	6060	7.07	35.5	3.1	5.1	26.4	2.95	0.2	<0.1	1	1.4	5.2	28.7	0.1	0.3	2.76	0.051	<0.01	0.03
5901575	1.4	0.7	1	0.025	0.05	1.51	0.02	<0.02	0.08	3.5	96	15.9	>10000	14.2	90.1	6.7	6.27	39	3.47	0.2	<0.1	1	1.5	8.9	40.4	0.2	0.3	5.18	0.039	<0.01	0.04
5901576	<0.1	0.3	1	0.032	0.03	0.41	0.01	0.3	0.13	0.4	11	4.3	129	0.38	1	4.5	7.27	7.2	1.4	<0.1	0.2	0.7	1	14.6	9.88	0.2	1.2	1.55	0.109	0.13	<0.02
5901577	<0.1	0.2	2	0.028	0.02	0.35	0.01	0.3	0.11	0.1	11	4.8	26	0.2	0.4	4.7	8.15	5.1	1.18	<0.1	0.2	0.8	0.8	13.3	6.32	0.2	0.8	0.75	0.063	<0.01	<0.02
5901578	1.1	0.8	2	0.029	0.05	1.58	0.02	0.11	0.3	0.7	75	14.1	144	2.11	4.2	6.9	12.3	48.6	5.19	0.1	<0.1	1.3	1.5	23.2	32.3	0.2	1.9	3.91	0.129	0.38	0.03
5901579	7.4	0.4	1	0.04	0.23	1.18	0.1	0.17	0.32	1.8	32	45.2	204	1.55	9	21.4	24.5	48.6	3.32	<0.1	3.6	0.6	11	25.6	9.05	0.9	1.3	3.3	0.124	0.29	<0.02
5901580	1.8	0.3	<1	0.043	0.09	0.66	0.02	<0.02	0.26	2	33	7.1	132	0.94	3.7	2.9	2.95	16.2	2.4	<0.1	<0.1	0.5	1.7	9.4	20.1	0.4	1.8	1.43	0.011	<0.01	0.02

Final Report
Activation Laboratories

Element:	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
Units:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
Detection Limit:	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	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
Reference Method:	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
Client ID:																												
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5901553	0.15	< 0.02	< 0.02	0.23	205	83.8	85.3	23.1	85.7	15.5	2.2	11.9	1.6	9.62	2	6	0.8	4.9	0.8	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.25	2.02	0.5	15.3
5901554	0.41	< 0.02	< 0.02	0.23	77.2	29.8	37.8	8.1	31.1	5.7	0.9	4.5	0.6	3.36	0.7	1.8	0.2	1.4	0.2	< 0.1	< 0.05	< 0.1	0.001	< 0.5	0.04	1.85	0.1	4
5901555	0.21	0.03	< 0.02	0.15	46.2	29.5	34	8.8	34.4	6.4	1	5	0.6	3.67	0.7	2	0.3	1.5	0.2	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.02	4.83	< 0.1	4.2
5901556	0.12	< 0.02	< 0.02	< 0.02	72.8	10.6	9.31	2.6	9.74	1.9	0.3	1.5	0.2	1.19	0.2	0.7	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	< 0.02	1.14	< 0.1	0.4
5901557	0.39	0.04	< 0.02	0.14	96.5	10.7	17.3	2.8	10.6	2	0.4	1.7	0.2	1.61	0.3	1	0.2	0.8	0.1	< 0.1	< 0.05	< 0.1	< 0.001	0.9	< 0.02	4.54	0.1	0.5
5901558	< 0.05	< 0.02	< 0.02	< 0.02	98.4	17.5	24.8	4.6	17	3	0.5	2.4	0.3	1.88	0.4	1.1	0.2	0.8	0.1	< 0.1	< 0.05	< 0.1	0.001	< 0.5	0.06	0.63	< 0.1	12.7
5901559	1.18	0.32	< 0.02	< 0.02	7.3	< 0.5	0.85	< 0.1	0.29	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	0.6	0.001	< 0.5	< 0.02	1.93	< 0.1	< 0.1	
5901560	0.24	0.03	< 0.02	0.43	138	96.3	106	25.1	92.1	16.2	2.8	13.3	1.7	10.2	2	5.8	0.8	4.7	0.7	< 0.1	< 0.05	< 0.1	0.002	< 0.5	0.17	3.32	0.6	19.2
5901561	0.17	< 0.02	< 0.02	0.25	71.2	37.2	53.7	10.6	41	7.5	1.3	5.9	0.8	4.58	0.9	2.6	0.4	2.1	0.3	< 0.1	< 0.05	< 0.1	< 0.001	0.9	0.06	1.39	0.1	5.8
5901562	0.42	0.05	< 0.02	0.11	63.2	30.6	40.3	8.2	30.3	5.3	0.9	4	0.5	2.94	0.6	1.6	0.2	1.2	0.2	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.04	7	0.2	4.6
5901563	0.27	0.07	< 0.02	< 0.02	109	45.7	82.2	12.4	45	7.9	1.3	6.1	0.7	4.36	0.8	2.3	0.3	1.8	0.3	< 0.1	< 0.05	< 0.1	0.001	< 0.5	0.14	10.5	0.2	7.1
5901564	0.22	0.02	< 0.02	0.18	71.3	101	89.1	23.5	84.3	13.3	2	10.1	1.2	6.67	1.4	3.7	0.5	2.8	0.4	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.03	1.88	0.1	3.7
5901565	0.49	0.04	< 0.02	0.25	107	89.6	98.3	24.2	89.1	14.7	2.2	11.6	1.4	8.17	1.7	4.7	0.7	3.7	0.6	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.1	7.07	0.3	4
5901566	0.66	0.07	< 0.02	0.31	60.3	20.9	33.4	5.5	19.8	3.2	0.5	2.2	0.2	1.28	0.2	0.8	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1	0.001	2.4	0.06	9.67	0.7	0.5
5901567	0.1	0.04	< 0.02	0.14	57.4	61.6	60.2	14.5	51.6	8.9	1.3	7.3	0.9	5.55	1.2	3.4	0.5	2.7	0.4	< 0.1	< 0.05	< 0.1	0.001	< 0.5	0.12	2.15	0.2	3.6
5901568	0.38	0.02	< 0.02	0.28	154	40.4	56.4	10.9	39.7	7.1	1.2	5.6	0.7	4.2	0.9	2.4	0.3	1.9	0.3	< 0.1	< 0.05	< 0.1	0.002	< 0.5	0.23	3.33	0.8	4.6
5901569	0.38	0.03	< 0.02	0.26	162	38.5	55.3	10.7	39.8	7.3	1.3	5.8	0.8	4.46	0.9	2.6	0.4	2.1	0.3	< 0.1	< 0.05	< 0.1	0.001	0.7	0.1	4.43	0.3	5.6
5901570	6.03	0.1	< 0.02	< 0.02	60.6	10.1	15.3	2.9	10.9	2.1	0.4	1.7	0.2	1.29	0.3	0.7	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 0.5	< 0.02	0.95	< 0.1	1.2
5901571	0.41	0.04	< 0.02	< 0.02	88.8	15.8	21.6	4.3	16.5	3.2	0.6	2.5	0.3	1.99	0.4	1.1	0.2	0.8	0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	< 0.02	1.83	0.2	0.9
5901572	0.25	0.03	< 0.02	< 0.02	47.3	6	8.91	1.6	5.98	1.1	0.2	0.9	0.1	0.72	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	< 0.02	3.72	< 0.1	0.2
5901573	0.33	0.07	< 0.02	1.13	50.8	22.9	34.7	5.5	19.3	3.3	0.5	2.3	0.3	1.37	0.3	0.7	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 0.5	0.17	7.36	0.2	6.5
5901574	0.46	0.05	< 0.02	0.2	29.4	46.9	70.8	12.8	47.3	8.8	1.3	7	0.9	5.51	1.1	3.1	0.4	2.5	0.4	< 0.1	< 0.05	< 0.1	0.002	< 0.5	0.11	15.6	0.3	3.1
5901575	0.19	0.02	< 0.02	0.24	83.1	61.4	120	18.9	71.5	13.2	1.8	10.7	1.4	8.35	1.7	4.8	0.7	3.9	0.6	< 0.1	< 0.05	< 0.1	0.001	< 0.5	0.31	5.07	1.4	4.4
5901576	0.36	0.03	< 0.02	0.17	46.7	20.1	29.2	4.6	16.3	3	0.4	2.3	0.3	1.87	0.4	1.1	0.1	0.8	0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	< 0.02	3.77	0.1	5.3
5901577	0.25	0.03	< 0.02	0.13	44.4	15	21.4	3.2	11.3	2	0.3	1.6	0.2	1.3	0.3	0.7	0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	< 0.02	3.6	< 0.1	0.9
5901578	0.28	0.02	< 0.02	0.23	76.4	57.7	86.4	16.4	60.2	11.1	1.6	8.7	1.1	6.39	1.3	3.5	0.5	2.7	0.4	< 0.1	< 0.05	< 0.1	0.001	1	0.06	3.47	0.1	10.7
5901579	0.38	0.1	< 0.02	1.48	67.6	31	46	7.3	26	4.4	0.6	3.2	0.4	1.85	0.3	0.9	0.1	0.7	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	2.7	0.22	9.67	0.8	8.7
5901580	0.39	< 0.02	< 0.02	0.21	24.7	30.3	51.5	8.7	33.3	6.3	0.9	5.3	0.7	4.03	0.8	2.2	0.3	1.8	0.3	< 0.1	< 0.05	< 0.1	< 0.001	0.7	0.04	2.47	0.6	5.8

QC Results
Activation Laboratories

Element:	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In
Units:	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Detection Limit:	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.01	0.002	0.01	0.02	
Reference Method:	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
Client ID:																															
Method Blank	< 0.1	< 0.1	< 1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1	< 1	< 0.5	< 1	< 0.01	< 0.1	< 0.1	< 0.01	< 0.02	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	< 0.01	< 0.1	< 0.1	< 0.01	< 0.002	< 0.01	< 0.02	
GXR-6 Meas	25.7	0.9	5	0.086	0.4	7.13	1.11	0.1	0.15	20.9	160	75.9	1030	5.44	12.8	22.3	67	122	16.5	< 0.1	205	0.7	69.8	32	6.49	5.6	< 0.1	0.97	0.262	0.11	0.06
GXR-6 Cert	32	1	10	0.1	0.61	17.7	1.87	0.3	0.18	27.6	186	96	1010	5.58	13.8	27	66	118	35	330	0.9	90	35	14	110	8	2.4	1.3	1	0.3	
GXR-2 Meas	45.7	1.1	18	0.164	0.45	3.14	0.57	0.17	0.63	3.9	38	21.1	926	1.73	7.5	15.1	72.4	501	8.1	< 0.1	8.6	0.5	50	83.4	9.7	7.4	1.2	0.64	15.7	3.24	0.04
GXR-2 Cert	54	1.7	42	0.556	0.85	16.5	1.4	0.69	0.93	6.9	52	36	1010	1.86	8.6	21	76	530	37	25	0.6	78	160	17	270	11	2.1	1.7	4.1	0.3	
GXR-1 Meas	4.9	0.8	12	0.056	0.14	0.36	0.03	1180	0.81	1	76	7.4	896	25.3	7.7	38	1150	786	4.21	0.9	387	15	2.2	198	27.2	7.3	< 0.1	17.2	29.9	2.39	0.77
GXR-1 Cert	8.2	1	15	0.052	0.22	3.5	0.05	1380	0.96	1.6	80	12	852	23.6	8.2	41	1110	760	13.8	427	16.6	14	275	32	38	0.8	18	31	3.3	0.77	
GXR-4 Meas	9	1.5	3	0.145	1.55	2.7	1.6	12.7	0.8	6.2	77	53.6	142	2.87	13.4	36.4	5910	68.9	10.8	0.3	92.5	5.2	97	71.7	11.3	4.7	0.1	303	3.35	0.13	0.2
GXR-4 Cert	11	1.9	5	0.564	1.66	7.2	4.01	19	1	7.7	87	64	155	3.09	14.6	42	6520	73	20	98	5.6	160	221	14	190	10	310	4	0.86	0.27	
5901413 Rep Orig																															
5901413 Rep Dup																															
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5901518 Rep Orig																															
5901518 Rep Dup																															
5901552 Rep Orig																															
5901552 Rep Dup																															
5901565 Rep Orig	2.4	1	1	0.046	0.09	1.19	0.03	0.03	0.21	2.6	49	20.5	1250	2.58	13.5	7.1	3.08	63.5	2.34	0.2	< 0.1	0.9	3.2	16.3	48.8	< 0.1	0.8	3.78	0.01	0.19	0.03
5901565 Rep Dup	2.3	0.8	2	0.046	0.09	1.21	0.03	0.03	0.2	2.5	49	20.3	1230	2.55	13.3	7.1	3.1	62.3	2.25	0.2	< 0.1	1	3.2	16.2	49.3	0.2	0.8	4.03	0.007	0.19	0.02
5901579 Rep Orig	7.4	0.4	1	0.035	0.22	1.17	0.1	0.11	0.3	1.6	31	45.2	204	1.55	9	21.4	24.5	48.6	3.32	< 0.1	3.6	0.6	10.7	24.1	8.96	0.7	1.2	3.3	0.124	0.29	< 0.02
5901579 Rep Dup	7.2	0.3	1	0.04	0.23	1.18	0.1	0.17	0.32	1.8	32	44.9	204	1.54	8.9	21.3	24.2	46.4	3.31	0.1	3.2	0.5	11	25.6	9.05	0.9	1.3	3.27	0.121	0.29	< 0.02

QC Results
Activation Laboratories

Element:	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
Units:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm
Detection Limit:	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	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	
Reference Method:	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
Client ID:																												
Method Blank	< 0.05	< 0.02	< 0.02	< 0.02	< 0.5	< 0.5	< 0.01	0.1	< 0.02	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 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	
GXR-6 Meas	0,84	0,78	0,06	3,6	941	11,4	29	2,9	11,2	2,4	0,6	1,9	0,3	1,47	0,3	0,8	0,1	0,6	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	40,7	1,79	94,8	2,6	0,8
GXR-6 Cert	1,7	3,6	0,02	4,2	1300	13,9	36		13	2,7	0,8	3	0,4	2,8		0,03	2	0,3	4	0,5	2		95	2,2	101	5,3	2	
GXR-2 Meas	0,69	16	0,18	3,99	1180	19,5	36,2	4,5	15,9	3,1	0,6	2,5	0,3	1,86	0,4	1	0,1	0,6	< 0.1	< 0.05	< 0.1	< 0.001	22,5	0,55	600	3,7	1,4	
GXR-2 Cert	1,7	49	0,69	5,2	2240	25,6	51,4		19	3,5	0,8	3,3	0,5	3,3		0,3	2	0,3	8	0,9	2		36	1	690	8,8	2,9	
GXR-1 Meas	23	67,6	15,9	2,73	456	5,7	10,2	1,5	6,58	2,5	0,6	3,6	0,7	4,46	0,9	2,6	0,4	2	0,3	0,1	< 0.05	152	0,004	3350	0,36	704	3,2	32
GXR-1 Cert	54	122	13	3	750	7,5	17		18	2,7	0,7	4,2	0,8	4,3		0,4	1,9	0,3	1	0,2	164		3300	0,39	730	2,4	34,9	
GXR-4 Meas	4,73	2,27	0,76	2,38	32	51,7	86,4	10,9	37,1	6	1,3	4,3	0,5	2,46	0,4	1,1	0,1	0,8	0,1	0,1	< 0.05	7,6	0,161	479	2,64	42,2	16,2	4,6
GXR-4 Cert	5,6	4,8	0,97	2,8	1640	64,5	102		45	6,6	1,6	5,3	0,4	2,6		0,2	2	0,2	6	0,8	31		470	3,2	52	22,5	6,2	
5901413 Rep Orig																												
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5901518 Rep Orig																												
5901518 Rep Dup																												
5901552 Rep Orig																												
5901552 Rep Dup																												
5901565 Rep Orig	0,49	0,04	< 0.02	0,25	103	88,7	98,3	23,8	89,1	14,5	2,2	11,3	1,4	8,12	1,7	4,7	0,7	3,7	0,6	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0,1	6,51	0,3	3,8
5901565 Rep Dup	0,46	0,04	< 0.02	0,25	107	89,6	98,3	24,2	88,8	14,7	2,2	11,6	1,4	8,17	1,7	4,7	0,7	3,7	0,6	< 0.1	< 0.05	< 0.1	0,001	< 0.5	0,09	7,07	0,3	4
5901579 Rep Orig	0,35	0,1	< 0.02	1,46	67,3	30,5	45,7	7,3	25,7	4,3	0,6	3,2	0,3	1,77	0,3	0,9	0,1	0,7	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	1,4	0,21	9,67	0,8	8,7
5901579 Rep Dup	0,38	0,1	< 0.02	1,48	67,6	31	46	7,3	26	4,4	0,6	3,2	0,4	1,85	0,3	0,9	0,1	0,7	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	2,7	0,22	9,49	0,7	8,6

Final Report
Activation Laboratories

Table with columns for Element, Units, Detection Limit, Reference Method, and Client ID. Rows list various elements (Li, Be, B, Na, Mg, Al, K, Bi, Ca, Sc, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ga, Ge, As, Se, Rb, Sr, Y, Zr, Nb, Mo, Ag, Cd, In) and their corresponding values for each of the 24 samples (5901545 to 5901653).

Final Report
Activation Laboratories

Element:	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Ti	Pb	Th	U	
Units:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm
Detection Limit:	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	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	
Reference Method:	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
Client ID.																													
5901545																													
5901581	0.46	0.04	0.11	0.14	66.1	19.4	27.3	4.8	18.1	3.3	0.5	2.9	0.4	2.22	0.4	1.2	0.2	0.9	0.1	<0.1	<0.05	<0.1	<0.001	<0.5	0.03	2.47	0.3	3.4	
5901582	0.3	0.03	<0.02	0.2	61.4	55.9	74.2	16.2	62	11.4	1.7	9.4	1.2	6.54	1.3	3.5	0.5	2.7	0.4	<0.1	<0.05	<0.1	<0.001	<0.5	0.05	1.98	0.2	27.7	
5901583	0.49	0.02	<0.02	0.31	65.3	49.2	62.2	13.6	52.1	9.2	1.4	7.5	1	5.49	1.1	3	0.4	2.4	0.4	<0.1	<0.05	<0.1	0.001	<0.5	0.06	3.28	0.2	161	
5901584	0.31	0.03	0.08	0.2	81.4	43.8	54.2	11.8	44.6	7.9	1.3	6.3	0.9	5.01	1	2.8	0.4	2.2	0.3	<0.1	<0.05	<0.1	<0.001	<0.5	0.04	2.37	0.2	11.5	
5901585	0.19	<0.02	<0.02	0.16	59.4	35	44.6	9.9	38.9	6.9	1	5.3	0.6	3.79	0.7	2	0.3	1.5	0.2	<0.1	<0.05	<0.1	<0.001	<0.5	0.02	1.3	<0.1	17.9	
5901586	0.28	0.02	0.03	0.15	76.8	35.5	49.8	8.8	32.3	5.5	0.9	4.4	0.6	3.25	0.7	1.8	0.3	1.4	0.2	<0.1	<0.05	<0.1	0.003	<0.5	0.07	1.83	0.1	133	
5901587	0.4	0.09	<0.02	1.41	65.9	31.2	44.4	7.4	26.5	4.3	0.6	3.1	0.4	1.86	0.3	0.9	0.1	0.7	<0.1	<0.1	<0.05	<0.1	<0.001	2.7	0.22	7.14	0.8	9.1	
5901588	0.32	0.03	0.04	0.2	44.3	15.4	20.6	3.8	14.3	2.7	0.4	2.1	0.3	1.73	0.3	0.9	0.1	0.7	0.1	<0.1	<0.05	<0.1	0.001	<0.5	0.02	4.49	<0.1	2.1	
5901589	0.18	<0.02	0.02	0.1	59.8	16.9	19.7	4.1	15.6	2.8	0.4	2.4	0.3	1.97	0.4	1.1	0.2	0.8	0.1	<0.1	<0.05	<0.1	0.001	0.8	<0.02	1.16	<0.1	1.6	
5901590	1	0.15	<0.02	0.28	54.9	40.3	60.9	11.8	45.3	8.4	1.2	7	0.9	5.33	1.1	3.1	0.4	2.5	0.4	<0.1	<0.05	<0.1	<0.001	<0.5	0.1	38.3	0.4	5.9	
5901591	0.15	<0.02	0.02	0.16	94.9	33.3	37.1	9.5	36.1	6.7	1.1	5.7	0.8	4.56	1	2.8	0.4	2.3	0.3	<0.1	<0.05	<0.1	<0.001	<0.5	0.21	1.18	0.3	13	
5901592	0.31	0.02	0.02	0.11	64.3	38.8	40.4	11.2	44.2	7.9	1.2	6.5	0.8	4.55	0.9	2.6	0.4	2.1	0.3	<0.1	<0.05	<0.1	0.003	<0.5	0.05	1.64	0.1	26.2	
5901593	1.09	0.21	<0.02	<0.02	9.3	<0.5	0.93	<0.1	0.3	<0.1	<0.1	<0.1	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	0.4	0.001	<0.5	<0.02	1.27	<0.1	<0.1	
5901594	0.32	<0.02	<0.02	0.11	51.4	24.1	26.1	6.5	25.2	4.6	0.7	3.8	0.5	2.68	0.5	1.4	0.2	1.1	0.2	<0.1	<0.05	<0.1	0.001	<0.5	0.03	0.9	<0.1	7.6	
5901595	0.22	<0.02	<0.02	<0.02	35.6	20.4	21.8	5.2	19	3.4	0.5	2.8	0.3	2.01	0.4	1	0.1	0.7	0.1	<0.1	<0.05	<0.1	0.002	<0.5	<0.02	1.21	<0.1	11.4	
5901596	0.26	0.02	<0.02	0.23	107	38.9	44.2	11	41.9	7.9	1.2	6.4	0.9	5.07	1.1	3	0.4	2.5	0.4	<0.1	<0.05	<0.1	0.001	<0.5	0.14	1.61	0.2	19	
5901597	0.09	<0.02	<0.02	0.12	57.8	19	19.8	5.5	22	4.1	0.7	3.6	0.5	2.8	0.6	1.7	0.2	1.4	0.2	<0.1	<0.05	<0.1	<0.001	<0.5	0.05	0.89	<0.1	4.4	
5901598	0.28	0.02	<0.02	0.23	94.5	66.8	54.7	19.1	73.6	13.8	2.2	11.8	1.6	9.68	2	5.9	0.8	4.7	0.7	<0.1	<0.05	<0.1	<0.001	<0.5	0.08	2.25	0.2	8.7	
5901599	0.33	<0.02	0.03	0.21	39.5	18.2	21.3	5	19.2	3.6	0.6	3	0.4	2.08	0.4	1.1	0.2	0.8	0.1	<0.1	<0.05	<0.1	<0.001	<0.5	0.02	1.98	0.1	10.6	
5901600	0.43	0.09	<0.02	1.42	65	29.7	43.5	7.1	24.7	4.1	0.6	3	0.3	1.74	0.3	0.9	0.1	0.6	<0.1	<0.1	<0.05	<0.1	0.002	<0.5	0.21	7.26	0.6	8.8	
5901601	0.18	0.02	<0.02	0.17	51.6	23.3	22.5	6.4	24.6	4.7	0.9	4	0.6	3.32	0.7	1.9	0.3	1.4	0.2	<0.1	<0.05	<0.1	0.001	<0.5	<0.02	2.19	0.1	5.1	
5901603	0.11	<0.02	<0.02	0.12	54.2	28	31.5	8.2	32	6.1	1	5	0.6	3.77	0.8	2.2	0.3	1.8	0.3	<0.1	<0.05	<0.1	<0.001	<0.5	0.06	1.03	<0.1	3.2	
5901604	0.3	0.04	<0.02	0.38	89	65.8	60.9	18.5	71	13.5	2.3	11.8	1.6	9.67	2	5.7	0.8	4.7	0.7	<0.1	<0.05	<0.1	<0.001	<0.5	0.16	2.73	0.3	8.4	
5901605	0.24	<0.02	<0.02	0.15	69.4	14.4	15	3.9	15.3	2.8	0.5	2.4	0.3	1.87	0.4	1	0.1	0.8	0.1	<0.1	<0.05	<0.1	<0.001	<0.5	<0.02	2.69	<0.1	1.2	
5901606	0.4	0.09	<0.02	1.43	65.8	30.3	44.2	7.2	25.6	4.2	0.6	3	0.3	1.76	0.3	0.9	0.1	0.7	<0.1	<0.1	<0.05	<0.1	0.001	<0.5	0.21	7.46	0.7	8.7	
5901607	0.24	0.02	<0.02	0.13	77.7	24	28.7	6.6	25.5	4.7	0.7	3.7	0.5	2.96	0.6	1.7	0.2	1.3	0.2	<0.1	<0.05	<0.1	0.001	<0.5	0.03	0.95	0.1	3	
5901608	0.43	0.06	<0.02	0.26	205	69.4	159	20.5	78.6	14.6	2	12.3	1.6	9.56	2	5.6	0.8	4.7	0.7	<0.1	<0.05	<0.1	<0.001	4.8	0.46	8.15	0.5	8.3	
5901609	0.17	0.02	<0.02	0.28	34.3	14.8	18.7	4.1	15.9	3.1	0.5	2.6	0.4	1.98	0.4	1	0.1	0.8	0.1	<0.1	<0.05	<0.1	<0.001	<0.5	0.03	2.26	<0.1	1.4	
5901610	0.14	<0.02	<0.02	0.14	31	19	18.7	5.8	23.6	4.7	0.7	3.8	0.5	2.66	0.5	1.5	0.2	1.1	0.2	<0.1	<0.05	<0.1	<0.001	<0.5	<0.02	1.06	<0.1	9.7	
5901611	0.42	<0.02	<0.02	0.43	39.3	70	138	20.3	77.8	14.5	2	11.7	1.5	8.56	1.7	4.9	0.7	4.1	0.6	<0.1	<0.05	<0.1	<0.001	<0.5	0.12	2.02	1	13.4	
5901612	0.43	0.03	<0.02	0.36	67.8	66.6	162	19.3	73.1	13.5	2	11.7	1.5	8.86	1.8	5.1	0.7	4.3	0.6	<0.1	<0.05	<0.1	<0.001	<0.5	0.14	2.41	1.3	11.9	
5901613	0.27	0.03	<0.02	0.24	50.4	55.7	73.3	16.1	63.1	11.7	1.6	9.6	1.2	6.88	1.4	4	0.6	3.3	0.5	<0.1	<0.05	<0.1	0.002	<0.5	0.19	1.69	0.2	76.5	
5901614	0.45	0.1	<0.02	1.49	68.5	31.2	46.8	7.5	26.4	4.4	0.6	3.3	0.4	1.84	0.3	0.9	0.1	0.7	<0.1	<0.1	<0.05	<0.1	0.001	<0.5	0.22	8.01	0.7	9	
5901615	0.16	<0.02	<0.02	0.14	55	29.9	36.8	8.6	33.6	6.4	0.9	5.1	0.6	3.31	0.6	1.6	0.2	1.2	0.2	<0.1	<0.05	<0.1	<0.001	<0.5	0.03	1.06	0.1	7.8	
5901616	0.35	0.03	<0.02	0.16	49.9	8.6	13.4	2.2	8.6	1.6	0.3	1.3	0.2	0.966	0.2	0.5	<0.1	0.4	<0.1	<0.1	<0.05	<0.1	0.001	<0.5	<0.02	1.8	<0.1	0.4	
5901617	0.22	<0.02	<0.02	0.11	65.4	8.3	11.4	2.3	9.15	1.7	0.3	1.5	0.2	1.07	0.2	0.6	<0.1	0.5	<0.1	<0.1	<0.05	<0.1	0.001	0.8	<0.02	1.48	<0.1	0.4	
5901618	0.19	<0.02	<0.02	0.13	62.6	20	29.7	5.9	24	4.6	1	4.1	0.5	2.91	0.6	1.6	0.2	1.3	0.2	<0.1	<0.05	<0.1	<0.001	<0.5	0.04	1.49	<0.1	0.3	
5901619	0.24	<0.02	<0.02	<0.02	52.3	4.9	7.14	1.3	5.32	1.1	0.2	0.9	0.1	0.661	0.1	0.4	<0.1	0.3	<0.1	<0.1	<0.05	<0.1	<0.001	<0.5	<0.02	0.65	<0.1	0.2	
5901620	0.42	0.09	<0.02	1.44	67.4	30.3	45.6	7.3	26.2	4.3	0.6	3.1	0.4	1.82	0.3	0.9	0.1	0.7	<0.1	<0.1	<0.05	<0.1	0.001	<0.5	0.21	7.65	0.6	9	
5901621	0.15	<0.02	<0.02	<0.02	49.4	5.5	8.3	1.5	6	1.1	0.2	1	0.1	0.7	0.1	0.4	<0.1	0.3	<0.1	<0.1	<0.05	<0.1	<0.001	<0.5	<0.02	0.82	<0.1	0.6	
5901622	0.22	<0.02	<0.02	0.11	111	14.8	22.1	4.3	17.6	3.5	0.8	3.1	0.4	2.32	0.5	1.3	0.2	1	0.1	<0.1	<0.05	<0.1	<0.001	2.1	<0.02	1.44	<0.1	1.3	
5901623	0.18	0.02	<0.02	<0.02	134	18.7	25.4	5.4																					

Final Report
Activation Laboratories

Table with columns for Element, Units, Detection Limit, Reference Method, Client ID, and concentrations for various elements (Li, Be, B, Na, Mg, Al, K, Bi, Ca, Sc, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ga, Ge, As, Se, Rb, Sr, Y, Zr, Nb, Mo, Ag, Cd, In). Each row represents a different sample ID.

Final Report
Activation Laboratories

Element: Units: Detection Limit: Reference Method:	Sn ppm 0.05 AR-MS	Sb ppm 0.02 AR-MS	Te ppm 0.02 AR-MS	Cs ppm 0.02 AR-MS	Ba ppm 0.5 AR-MS	La ppm 0.5 AR-MS	Ce ppm 0.01 AR-MS	Pr ppm 0.1 AR-MS	Nd ppm 0.02 AR-MS	Sm ppm 0.1 AR-MS	Eu ppm 0.1 AR-MS	Gd ppm 0.1 AR-MS	Tb ppm 0.1 AR-MS	Dy ppm 0.001 AR-MS	Ho ppm 0.1 AR-MS	Er ppm 0.1 AR-MS	Tm ppm 0.1 AR-MS	Yb ppm 0.1 AR-MS	Lu ppm 0.1 AR-MS	Hf ppm 0.1 AR-MS	Ta ppm 0.05 AR-MS	W ppm 0.1 AR-MS	Re ppm 0.001 AR-MS	Au ppb 0.5 AR-MS	Tl ppm 0.02 AR-MS	Pb ppm 0.01 AR-MS	Th ppm 0.1 AR-MS	U ppm 0.1 AR-MS
5901654	0.34	<0.02	<0.02	0.24	47.4	52.3	84.2	15.1	58.3	10.8	1.5	8.5	1.1	6.05	1.2	3.3	0.5	2.6	0.4	<0.1	<0.05	<0.1	0.001	<0.5	0.05	2.29	0.9	8.1
5901655	0.23	0.05	<0.02	<0.02	57.7	54.5	65.4	15.7	61	11.7	1.7	9.3	1.2	6.72	1.3	3.7	0.5	3	0.5	<0.1	<0.05	<0.1	<0.001	<0.5	0.04	4	0.3	31.2
5901656	0.21	0.03	<0.02	0.19	51.3	55.3	71.8	15.3	58.1	10.5	1.6	8.7	1.1	6.55	1.3	3.6	0.5	2.8	0.4	<0.1	<0.05	<0.1	<0.001	<0.5	<0.02	3.07	0.3	5.8
5901657	0.36	0.09	<0.02	0.19	67.9	31	50.3	7.5	26.2	4.4	0.6	3.1	0.4	1.82	0.3	0.9	0.1	0.7	<0.1	<0.05	<0.1	0.003	<0.5	0.21	7.08	1.1	9.1	
5901658	0.34	<0.02	<0.02	0.21	47.5	20	32.6	5.2	19.6	3.5	0.5	2.9	0.4	2.09	0.4	1.1	0.2	0.9	0.1	<0.1	<0.05	<0.1	<0.001	<0.5	0.03	2.42	0.1	2.9
5901659	0.6	0.09	<0.02	0.19	61.1	12	18.1	2.9	10.5	1.9	0.3	1.7	0.2	1.3	0.3	0.7	0.1	0.6	<0.1	<0.05	<0.1	<0.001	<0.5	<0.02	8	0.2	1.2	
5901660	0.41	0.02	<0.02	0.27	49.5	74.8	152	21.5	81.7	14.9	2.2	11.6	1.5	8.4	1.6	4.4	0.6	3.5	0.5	<0.1	<0.05	<0.1	<0.001	<0.5	0.08	2.8	0.3	6.2
5901661	0.44	<0.02	<0.02	0.23	66.4	35.3	53.8	9	33.3	5.9	0.9	4.6	0.6	3.24	0.6	1.7	0.2	1.3	0.2	<0.1	<0.05	<0.1	0.001	<0.5	0.03	2.37	0.1	2.7
5901662	0.48	<0.02	<0.02	0.31	124	75.6	162	21.6	83.9	14.2	1.8	11.4	1.4	7.76	1.6	4.6	0.6	3.7	0.6	<0.1	<0.05	<0.1	<0.001	<0.5	0.11	3.2	0.5	6.9
5901663	0.5	<0.02	<0.02	0.23	102	33.1	49.9	7.7	27.4	4.9	0.7	3.9	0.5	2.97	0.6	1.5	0.2	1.1	0.2	<0.1	<0.05	<0.1	<0.001	0.8	0.02	2.36	0.1	1.8
5901664	1.18	0.03	<0.02	1.08	86.6	38	88	11.5	43.7	9	1.4	7.6	1.1	6.28	1.2	3.6	0.5	3	0.4	<0.1	<0.05	<0.1	<0.001	1.9	0.12	4.35	4.5	1.8
5901665	1.45	0.26	<0.02	<0.02	8.2	<0.5	0.87	<0.1	0.22	<0.1	<0.1	<0.1	<0.1	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	0.4	0.002	<0.5	<0.02	1.32	0.2	<0.1	
5901666	0.45	0.03	<0.02	0.14	46	29.1	4.1	7.2	26.4	4.7	0.7	3.9	0.5	2.96	0.6	1.6	0.2	1.2	0.2	<0.1	<0.05	<0.1	0.002	<0.5	0.02	4.66	0.3	2.1
5901667	0.46	0.05	0.02	0.34	51.6	54.9	95.8	15.5	58.8	10.8	1.6	8.9	1.2	6.81	1.3	3.7	0.5	3.1	0.4	<0.1	<0.05	<0.1	0.001	<0.5	0.14	4.01	1	7
5901668	0.38	0.07	<0.02	0.29	73.2	48	71.7	12.6	48.2	9	1.3	7.5	1	5.4	1.1	3	0.4	2.4	0.3	<0.1	<0.05	<0.1	0.001	0.8	0.05	2.8	0.2	4.7
5901669	0.62	0.23	<0.02	<0.02	43.6	2.8	6.02	0.7	2.51	0.4	<0.1	0.4	<0.1	0.256	<0.1	0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.001	<0.5	<0.02	13.6	0.4	0.2	
5901670	0.2	0.05	<0.02	0.22	45.3	58.2	145	16.4	62.3	11.2	1.7	9.5	1.3	7.52	1.5	4.3	0.6	3.5	0.5	<0.1	<0.05	<0.1	0.001	<0.5	0.17	8.86	0.4	7.4
5901671	0.29	0.02	<0.02	0.14	65.2	26.9	42.7	6.4	23.7	4	0.6	3.4	0.4	2.51	0.5	1.3	0.2	1.1	0.1	<0.1	<0.05	<0.1	<0.001	<0.5	0.02	2.15	0.2	1.5
5901672	0.31	<0.02	<0.02	0.27	75.2	51.6	63.2	13.9	53.7	9.7	1.4	7.9	1	5.41	1.1	3	0.4	2.4	0.4	<0.1	<0.05	<0.1	0.001	1.1	0.05	2.64	0.1	1.9
5901673	0.4	0.09	<0.02	1.44	75.9	30.2	50.1	7.1	25.8	4.3	0.6	3	0.3	1.73	0.3	0.9	0.1	0.6	<0.1	<0.1	<0.05	0.2	0.002	1.6	0.2	7.62	0.7	8.6
5901674	0.82	0.02	<0.02	0.91	77.8	40.5	74.1	11.1	43.6	8.6	1.2	7.5	1	5.91	1.1	3.2	0.5	2.7	0.4	<0.1	<0.05	<0.1	<0.001	<0.5	0.14	3.19	3.9	2
5901675	0.78	0.03	0.03	0.63	71.4	46	78.4	12	45.4	8.6	1.3	7.1	1	5.55	1.1	3.1	0.4	2.6	0.4	<0.1	<0.05	<0.1	0.002	<0.5	0.16	2.91	3	2.6
5901676	0.39	0.03	0.07	<0.02	155	12.9	12.9	2.8	10.5	1.9	0.3	1.7	0.2	1.34	0.3	0.8	0.1	0.6	<0.1	<0.1	<0.05	<0.1	0.001	0.7	<0.02	1.15	0.5	0.3
5901677	0.28	0.03	<0.02	0.12	49.7	21.3	22.9	5.1	19.2	3.5	0.5	3	0.4	2.15	0.4	1.2	0.2	1.9	0.1	<0.1	<0.05	<0.1	0.001	2	<0.02	1.76	0.2	0.8
5901678	0.46	0.06	0.05	0.14	28.4	2.4	5.06	0.5	1.85	0.4	<0.1	0.4	<0.1	0.293	<0.1	0.2	<0.1	0.1	<0.1	<0.05	0.2	<0.001	<0.5	<0.02	3.12	0.4	0.2	
5901679	0.43	0.06	<0.02	0.41	45.1	63.1	151	18.5	13.6	1.8	11.3	1.5	8.71	1.8	5.2	0.7	4.4	0.7	<0.1	<0.05	<0.1	0.002	<0.5	0.09	6.56	1.5	8.8	
5901680	0.48	0.03	<0.02	0.35	26.9	40.1	60.2	11	43.3	8.1	1.2	6.8	0.9	5.32	1.1	2.9	0.4	2.3	0.3	<0.1	<0.05	<0.1	<0.001	<0.5	0.05	2.93	0.6	7.9
5901681	0.46	0.14	0.09	1.47	69	30.5	50.1	7.1	25.4	4.3	0.6	3.2	0.4	1.82	0.3	0.9	0.1	0.7	<0.1	<0.05	<0.1	0.002	<0.5	0.21	6.95	0.9	8.7	
5901682	0.65	0.08	<0.02	0.32	43.7	32.6	46.6	9.1	34.6	6.5	0.9	5.3	0.7	3.73	0.7	2	0.3	1.5	0.2	<0.1	<0.05	<0.1	<0.001	<0.5	0.04	11.2	0.2	4.9
5901683	0.29	<0.02	0.03	0.14	42.6	23.9	28.8	6.1	23.2	4.2	0.6	3.4	0.4	2.55	0.5	1.4	0.2	1.1	0.2	<0.1	<0.05	<0.1	<0.001	1.3	<0.02	2.17	0.1	5
5901684	0.17	<0.02	0.03	0.12	49.8	35.8	40.2	9.4	35.8	6.6	0.9	5.3	0.7	3.82	0.8	2.3	0.3	1.9	0.3	<0.1	<0.05	<0.1	0.001	<0.5	0.03	1.32	0.2	18.7
5901685	0.55	0.03	<0.02	0.32	78.4	60.3	84.7	16.3	62.8	11.6	1.7	9.8	1.2	7.27	1.4	3.9	0.5	3	0.4	<0.1	<0.05	<0.1	0.001	1.7	0.04	2.55	0.3	6.5
5901686	0.35	0.03	<0.02	0.15	62.2	31.1	44.9	8.6	33.7	6.2	0.9	5.4	0.7	3.95	0.8	2.2	0.3	1.8	0.3	<0.1	<0.05	<0.1	<0.001	0.7	0.11	1.38	0.2	3.9
5901687	0.44	0.09	<0.02	1.5	68.6	31.8	50.2	7.4	26.3	4.4	0.6	3.1	0.3	1.85	0.3	0.9	0.1	0.7	<0.1	<0.1	<0.05	0.2	0.002	1.3	0.22	7.46	0.6	8.8
5901688	0.18	<0.02	<0.02	<0.02	72	13.1	11.3	3	11.1	1.9	0.3	1.5	0.2	1.13	0.2	0.7	<0.1	0.6	<0.1	<0.1	<0.05	<0.1	0.001	<0.5	<0.02	1.03	0.1	0.5
5901689	0.23	0.03	<0.02	<0.02	63.3	23.7	22.1	5.7	21.4	3.6	0.5	2.8	0.3	1.89	0.4	1.1	0.2	0.9	0.1	<0.1	<0.05	<0.1	0.001	<0.5	<0.02	2.09	0.1	0.9
5901690	0.4	0.03	<0.02	0.31	78.7	29	38.5	7.9	30.8	5.6	0.9	4.7	0.6	3.29	0.7	1.8	0.3	1.4	0.2	<0.1	<0.05	<0.1	<0.001	<0.5	0.05	3.06	0.1	3.3
5901691	0.42	0.04	<0.02	0.28	57.3	28.8	42.7	7.9	30.5	5.8	0.9	4.6	0.6	3.36	0.7	1.9	0.3	1.4	0.2	<0.1	<0.05	<0.1	<0.001	<0.5	0.06	6.2	0.1	3.7
5901692	0.52	0.03	<0.02	0.24	58	14.6	21.9	3.8	14.8	2.7	0.5	2.2	0.3	1.66	0.3	0.9	0.1	0.7	<0.1	<0.05	<0.1	<0.001	<0.5	0.03	4.32	<0.1	2	
5901693	0.15	<0.02	<0.02	<0.02	41.1	6.5	9.2	1.6	6.21	1.2	0.2	1	0.1	0.713	0.1	0.4	<0.1	0.3	<0.1	<0.1	<0.05	<0.1	0.001	<0.5	<0.02	1.22	<0.1	0.3
5901694	0.83	0.08	<0.02	0.29	57	18.8	29.7	4.8	18	3	0.5	2	0.2	1.14	0.2	0.6	<0.1	0.4	<0.1	<0.1	<0.05	<0.1	0.001	3	0.06	7.48	0.5	0.5
5901695	0.18	0.03	<0.02	0.1	52	20.5	34.7	6.1	24.8	4.8	0.8	4	0.5	2.84	0.6	1.6	0.2	1.2	0.2	<0.1	<0.05	<0.1	<0.001	<0.5	<0.02	1.49	0.2	1.4
5901696	0.16	<0.02	<0.02	0.16	88.2	41	53.2	12.4	49.3	9.4	1.6	8	1	6.11	1.3	3.7	0.5	2.9	0.4	<0.1	<0.05	<0.1	0.001	<0.5	0.03	1.47	0.3	1.6
5901697	0.28	0.04	<0.02	0.1	82.1	21	24.3	5.9	23.2	4.6	0.8	3.9	0.5	2.82	0.6	1.5	0.2	1.1	0.1	<0.1	<0.05	<0.1	<0.001	<0.5	<0.02	3.59	<0.1	2.1

Final Report
Activation Laboratories

Element:	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In
Units:	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Detection Limit:	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.01	0.002	0.01	0.02	
Reference Method:	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
Client I.D.																															
5901727	1,3	0,2	2	0,029	0,04	0,61	0,03	0,07	0,12	0,4	17	6,6	37	0,33	0,6	3,2	3,76	12,6	3,07	<0,1	<0,1	0,7	1,6	14,4	15,7	0,2	0,8	0,4	0,056	<0,01	0,02
5901728	0,8	0,4	3	0,036	0,03	0,34	0,03	0,23	0,14	0,3	8	3,4	29	0,23	0,6	5	4,16	13,3	1,65	<0,1	0,3	0,7	1,9	14,9	6,97	0,2	1,1	0,5	0,034	0,12	<0,02
5901729	7	0,5	3	0,045	0,22	1,12	0,11	0,2	0,32	2	33	46,4	208	1,47	9,5	23	23,9	45,6	3,46	<0,1	4	0,9	11,3	26,5	9,44	1	1,4	3,32	0,124	0,29	<0,02
5901730	1,7	0,4	2	0,039	0,06	0,63	0,04	0,25	0,25	0,4	31	7,6	60	0,68	1,3	6,3	9,81	28,3	3,36	0,1	0,8	1,4	2,8	26,4	14,9	0,4	1,7	1,4	0,158	0,32	0,03
5901731	0,8	0,1	3	0,038	0,04	0,32	0,04	0,26	0,13	0,2	12	4,1	36	0,31	0,6	4,7	5,25	22,2	1,62	0,1	0,7	1,1	1,7	12,1	8,14	0,8	1,5	0,9	0,054	0,16	<0,02
5901732	0,7	0,2	4	0,03	0,03	0,34	0,03	0,23	0,2	0,1	9	4,7	31	0,29	0,6	6	5,48	31,3	1,53	<0,1	0,7	1,1	1,6	20,2	9,63	0,3	0,9	0,65	0,057	0,17	<0,02
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Final Report
Activation Laboratories

Element:	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
Units:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
Detection Limit:	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	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
Reference Method:	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
Client I.D.																												
5901727	0.42	0.03	0.05	0.25	31	29.5	42.7	8	30.2	5.7	0.8	4.4	0.6	3.41	0.7	1.8	0.3	1.4	0.2	< 0.1	< 0.05	< 0.1	0.004	< 0.5	0.02	5.27	< 0.1	2.2
5901728	0.57	0.07	0.03	0.21	59.5	15	21.2	3.7	13.3	2.4	0.4	1.9	0.3	1.44	0.3	0.7	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 0.5	0.02	7.61	< 0.1	1.4
5901729	0.5	0.09	0.08	1.54	70.6	31.7	47.7	7.8	27.4	4.7	0.6	3.2	0.4	1.88	0.3	0.9	0.1	0.7	0.1	< 0.1	< 0.05	< 0.1	0.004	< 0.5	0.22	10.6	1	9
5901730	0.78	0.06	0.06	0.32	60.6	28.3	39.3	7.1	25.9	4.7	0.7	3.7	0.5	2.92	0.6	1.6	0.2	1.3	0.2	< 0.1	< 0.05	< 0.1	0.003	0.8	0.04	9.33	0.2	1.4
5901731	1.11	0.16	0.1	0.21	48.3	14.7	20.5	3.5	12.9	2.4	0.3	1.9	0.3	1.59	0.3	0.9	0.1	0.7	0.1	< 0.1	< 0.05	< 0.1	0.002	< 0.5	0.03	16	0.2	0.8
5901732	0.7	0.09	0.08	0.2	56.9	17.7	23.7	4.2	15.6	2.8	0.4	2.2	0.3	1.78	0.4	1	0.1	0.8	0.1	< 0.1	< 0.05	< 0.1	0.001	< 0.5	0.02	9.17	0.1	0.9
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QC Results
Activation Laboratories

Element:	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	
Units:	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Detection Limit:	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.01	0.002	0.01	0.02		
Reference Method:	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS		
Client I.D.																																
Method Blank	< 0.1	< 0.1	< 1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1	< 1	< 0.5	< 1	< 0.01	< 0.1	< 0.1	< 0.01	< 0.1	< 0.02	< 0.1	< 0.1	< 0.1	< 0.5	< 0.01	< 0.1	< 0.1	< 0.01	< 0.002	< 0.01	< 0.02		
GXR-6 Meas	27.1	1.1	5	0.083	0.39	7.3	1.12	0.05	0.14	22.7	161	77.9	1080	5.4	13	21.5	59	106	15.2	< 0.1	184	0.3	73.4	31.3	6.78	5.4	< 0.1	0.95	0.274	< 0.01	0.07	
GXR-6 Cert	32	1.4	10	0.1	0.61	17.7	1.87	0.3	0.18	27.6	186	96	1010	5.58	13.8	27	66	118	35	330	0.9	90	35	14	110	8	2.4	1.3	1	0.3		
GXR-2 Meas	49	1.1	20	0.172	0.46	3.22	0.59	0.13	0.65	4.1	40	21.7	971	1.63	7.7	14.7	64.8	445	6.93	< 0.1	8.4	0.2	52	85.1	10.2	7.2	1.2	0.61	16.1	3.36	0.05	
GXR-2 Cert	54	1.7	42	0.556	0.85	16.5	1.4	0.69	0.93	6.9	52	36	1010	1.86	8.6	21	76	530	37	25	0.6	78	160	17	270	11	2.1	17	4.1	0.3		
GXR-1 Meas	4.9	0.9	12	0.052	0.12	0.33	0.04	1510	0.81	1.1	77	7.4	916	24.6	7.7	36.3	1040	688	3.57	1	356	15	2.3	192	28.8	7.8	< 0.1	17.6	30.6	2.42	0.83	
GXR-1 Cert	8.2	1	15	0.052	0.22	3.5	0.05	1380	0.96	1.6	80	12	852	23.6	8.2	41	1110	760	13.8	427	16.6	14	275	32	38	0.8	18	31	3.3	0.77		
GXR-4 Meas	9.7	1.5	4	0.139	1.58	2.71	1.6	10.6	0.8	6.7	79	54.8	126	2.91	13.4	35.1	6080	60.1	10.9	0.3	86.8	5.2	101	72	11.7	5.7	0.2	308	3.4	0.13	0.21	
GXR-4 Cert	11	1.9	5	0.564	1.66	7.2	4.01	19	1	7.7	87	64	155	3.09	14.6	42	6520	73	20	98	5.6	160	221	14	190	10	310	4	0.86	0.27		
5901590 Rep Orig	2	0.7	2	0.029	0.06	1.51	0.02	< 0.02	0.2	1.3	49	10.8	1320	4.81	28	7.2	7.57	54.7	3.4	0.1	0.2	1.3	2	14.9	29.8	0.2	0.9	2.07	0.06	0.51	0.04	
5901590 Rep Dup	2.1	0.8	2	0.021	0.06	1.49	0.02	< 0.02	0.19	1.1	48	10.7	1300	4.63	27.1	7	8.12	54.2	3.32	0.1	0.3	1.5	2	15.2	29.4	0.2	0.9	2.24	0.057	0.5	0.04	
5901605 Rep Orig	0.5	< 0.1	2	0.019	0.02	0.48	< 0.01	0.05	0.18	< 0.1	7	4.1	19	0.19	0.9	6.9	4.01	9.2	0.95	< 0.1	0.2	0.8	1	25.2	9.84	0.2	0.5	0.84	0.041	0.14	< 0.02	
5901605 Rep Dup	0.6	< 0.1	4	0.018	0.02	0.46	< 0.01	< 0.02	0.18	< 0.1	7	4.2	19	0.17	1	7	4.11	8.7	0.99	< 0.1	< 0.1	0.8	1	24.9	9.76	0.1	0.5	0.72	0.04	0.13	< 0.02	
5901618 Rep Orig	0.7	0.3	2	0.019	0.04	1.06	0.01	< 0.02	0.2	< 0.1	38	10.6	212	1.16	6.5	7.3	5.38	44	1.75	< 0.1	< 0.1	1.3	1	18.5	16.4	< 0.1	0.7	1.27	0.03	0.25	< 0.02	
5901618 Rep Dup	0.6	0.3	2	0.019	0.04	1.02	0.01	< 0.02	0.19	< 0.1	37	10.4	204	1.13	6.4	7.1	5.43	43.6	1.75	< 0.1	< 0.1	1	0.8	18.3	15.8	0.3	0.6	1.28	0.033	0.26	< 0.02	
5901632 Rep Orig	0.6	0.3	1	0.014	0.02	1.08	< 0.01	< 0.02	0.08	0.9	35	13.5	583	5.73	20.2	5.2	3.88	11.9	1.86	0.1	< 0.1	0.9	0.7	10.7	28	0.2	0.4	6.03	0.036	< 0.01	< 0.02	
5901632 Rep Dup	0.5	0.4	1	0.014	0.02	1.11	< 0.01	< 0.02	0.07	1	36	13.7	588	5.89	20.7	5.2	4.16	11.8	1.91	0.1	< 0.1	1.1	0.7	11	28.6	0.1	0.5	5.93	0.035	< 0.01	< 0.02	
5901655 Rep Orig	0.6	0.8	5	0.021	0.04	1.15	0.01	0.06	0.62	0.2	33	8.4	140	0.52	4.3	7.3	6.18	30.6	1.77	0.1	< 0.1	1.1	1	28.1	37.1	0.1	1.1	2.62	0.01	0.37	0.02	
5901655 Rep Dup	0.6	0.8	5	0.038	0.04	1.13	0.01	< 0.02	0.59	0.2	32	8.3	135	0.5	4.1	7.2	5.91	30.2	1.75	0.1	< 0.1	1.4	0.9	26.9	35.9	< 0.1	1.1	2.47	0.017	0.34	< 0.02	
5901669 Rep Orig	< 0.1	0.1	2	0.025	0.03	0.16	< 0.01	0.11	0.16	< 0.1	3	4.2	28	0.07	0.3	2.5	2.56	17.9	0.44	< 0.1	0.7	0.9	0.8	25.7	1.37	0.6	0.2	0.46	0.034	0.45	< 0.02	
5901669 Rep Dup	< 0.1	< 0.1	3	0.022	0.03	0.16	< 0.01	0.12	0.17	< 0.1	3	4.4	28	0.06	0.3	2.6	2.6	21.5	0.44	< 0.1	0.6	0.7	0.6	26	1.39	0.5	0.2	0.42	0.036	0.46	< 0.02	
5901682 Rep Orig	1.8	0.3	3	0.036	0.06	0.81	0.02	< 0.02	0.17	0.7	27	7.1	131	1.05	3.3	4.2	3.28	16	3.16	< 0.1	0.2	0.8	2.5	14.6	18.9	0.1	1.2	1	0.038	0.12	0.02	
5901682 Rep Dup	2	0.3	2	0.029	0.05	0.76	0.02	< 0.02	0.16	0.6	25	6.8	121	0.97	3	3.9	3.11	13.8	2.96	< 0.1	0.2	0.9	2.1	13.4	17.9	0.1	1.1	0.91	0.037	0.11	0.02	
5901696 Rep Orig	0.8	0.4	2	0.014	0.03	1.39	< 0.01	< 0.02	0.18	1.4	25	9.7	702	7.24	9.1	4.8	2.81	13.1	1.4	0.1	< 0.1	0.7	0.8	17.5	34.7	0.2	0.4	3.06	0.032	< 0.01	< 0.02	
5901696 Rep Dup	0.8	0.4	2	0.018	0.03	1.43	0.01	< 0.02	0.18	1.4	26	10.3	724	7.42	9.3	4.8	2.75	13.5	1.46	0.2	< 0.1	0.9	1	18.3	35.4	0.2	0.4	3.39	0.024	< 0.01	< 0.02	
5901715 Rep Orig	< 0.1	0.4	2	0.025	0.03	0.29	0.02	0.14	0.2	< 0.1	6	2.8	23	0.11	0.5	4.1	6.34	7.5	1.46	0.1	0.5	1.2	0.9	38.4	12	0.2	0.7	0.84	0.066	0.16	< 0.02	
5901715 Rep Dup	< 0.1	0.3	3	0.029	0.03	0.28	0.02	0.13	0.19	< 0.1	5	2.5	22	0.11	0.5	3.7	6.07	7.6	1.25	0.1	0.4	0.6	0.9	36.2	11.3	0.1	0.6	0.71	0.059	0.16	< 0.02	
5901729 Rep Orig	6.7	0.5	3	0.045	0.2	1.05	0.11	0.2	0.32	1.8	31	44.1	198	1.39	8.9	22.3	22.6	45.6	3.38	< 0.1	3.7	0.9	10.6	25.1	9.21	0.9	1.3	3.07	0.124	0.29	< 0.02	
5901729 Rep Dup	7	0.5	2	0.042	0.22	1.12	0.11	0.11	0.32	2	33	46.4	208	1.47	9.5	23	23.9	45.4	3.46	< 0.1	4	0.9	11.3	26.5	9.44	1	1.4	3.32	0.117	0.28	< 0.02	
5901742 Rep Orig																																
5901742 Rep Dup																																

QC Results
Activation Laboratories

Element:	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
Units:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
Detection Limit:	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	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	
Reference Method:	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
Client ID:																												
Method Blank	<0.05	<0.02	<0.02	<0.02	<0.5	<0.5	<0.01	0.1	<0.02	<0.1	<0.1	<0.1	<0.1	<0.001	<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	
GXR-6 Meas	0.82	0.95	0.03	3.76	929	11.7	28.8	3	11.6	2.5	0.6	2	0.3	1.49	0.3	0.8	0.1	0.6	<0.1	<0.1	<0.05	<0.1	<0.001	44.1	1.88	88.5	2.9	0.8
GXR-6 Cert	1.7	3.6	0.02	4.2	1300	13.9	36	13	2.7	0.8	3	0.4	2.8	0.4	1	0.03	2	0.3	4	0.5	2	95	2.2	101	5.3	2		
GXR-2 Meas	0.67	17.2	0.11	4.08	1210	20.4	36.2	4.7	16.7	3.2	0.6	2.6	0.4	1.96	0.4	1	0.1	0.6	<0.1	<0.1	<0.05	<0.1	<0.001	26	0.56	641	4.2	1.4
GXR-2 Cert	1.7	49	0.69	5.2	2240	25.6	51.4	19	3.5	0.8	3.3	0.5	3.3	0.7	3.3	0.3	2	0.3	8	0.9	2	36	1	690	8.8	2.9		
GXR-1 Meas	22.7	76.3	16.9	2.82	497	5.6	9.9	1.5	6.6	2.5	0.6	3.7	0.7	4.65	0.9	2.7	0.4	2.1	0.3	0.1	<0.05	151	0.002	3430	0.37	751	4.6	32.8
GXR-1 Cert	54	122	13	3	750	7.5	17	18	2.7	0.7	4.2	0.8	4.3	0.4	0.4	1.9	0.3	1	0.2	164	3300	0.39	730	2.4	34.9			
GXR-4 Meas	4.7	2.49	0.69	2.44	33.7	49.3	78.1	10.4	35.5	5.9	1.3	4.2	0.5	2.45	0.4	1.1	0.1	0.8	0.1	0.2	<0.05	7.7	0.169	374	2.68	38.4	18	4.7
GXR-4 Cert	5.6	4.8	0.97	2.8	1640	64.5	102	45	6.6	1.6	5.3	0.4	2.6	0.2	2	0.2	6	0.8	31	470	3.2	52	22.5	6.2				
5901590 Rep Orig	1	0.15	0.03	0.28	54.2	40.1	60.9	11.7	45.2	8.3	1.2	7	0.9	5.24	1.1	3	0.4	2.4	0.4	<0.1	<0.05	<0.1	<0.001	0.5	0.08	38.3	0.4	5.8
5901590 Rep Dup	0.98	0.14	<0.02	0.28	54.9	40.3	60.4	11.8	45.3	8.4	1.2	7	0.9	5.33	1.1	3.1	0.4	2.5	0.4	<0.1	<0.05	<0.1	0.001	<0.5	0.1	38.3	0.3	5.9
5901605 Rep Orig	0.24	<0.02	<0.02	0.15	69.4	14.4	14.8	3.9	15.1	2.8	0.5	2.4	0.3	1.87	0.4	1	0.1	0.8	0.1	<0.1	<0.05	<0.1	<0.001	<0.5	<0.02	2.69	<0.1	1.2
5901605 Rep Dup	0.21	<0.02	<0.02	0.14	68.5	14.4	15	3.9	15.3	2.8	0.5	2.4	0.3	1.81	0.4	1	0.1	0.8	0.1	<0.1	<0.05	<0.1	<0.001	<0.5	<0.02	2.53	<0.1	1.2
5901618 Rep Orig	0.13	<0.02	<0.02	0.13	62.6	20	29.7	5.9	24	4.6	1	4.1	0.5	2.81	0.6	1.6	0.2	1.3	0.2	<0.1	<0.05	<0.1	<0.001	<0.5	0.04	1.49	<0.1	0.3
5901618 Rep Dup	0.19	<0.02	<0.02	0.12	61.9	19.6	29.1	5.7	22.9	4.4	0.9	3.8	0.5	2.81	0.6	1.6	0.2	1.2	0.2	<0.1	<0.05	<0.1	0.001	<0.5	0.03	1.29	0.2	0.3
5901632 Rep Orig	0.2	0.02	0.08	0.14	47.1	35.4	43.4	10.6	42	7.7	1.4	6.8	0.9	5.06	1	2.9	0.4	2.2	0.3	<0.1	<0.05	<0.1	<0.001	0.8	0.04	1.95	0.2	17.2
5901632 Rep Dup	0.19	<0.02	<0.02	0.13	47.5	35.5	43.7	10.5	41.8	7.8	1.4	6.7	0.9	5.06	1	2.9	0.4	2.2	0.3	<0.1	<0.05	<0.1	<0.001	<0.5	0.04	1.93	0.1	17
5901655 Rep Orig	0.23	0.05	<0.02	0.1	57.7	54.5	65.4	15.7	61	11.7	1.7	9.3	1.2	6.72	1.3	3.7	0.5	3	0.5	<0.1	<0.05	<0.1	<0.001	<0.5	0.04	3.98	0.3	31.2
5901655 Rep Dup	0.22	0.05	<0.02	<0.02	56.6	53.2	63.4	15.2	60.1	11.2	1.6	9.1	1.2	6.56	1.3	3.6	0.5	3	0.4	<0.1	<0.05	<0.1	<0.001	1.1	0.04	4	0.2	30.2
5901669 Rep Orig	0.62	0.23	<0.02	<0.02	43.6	2.8	5.45	0.7	2.51	0.4	<0.1	0.4	<0.1	0.253	<0.1	0.1	<0.1	0.1	<0.1	<0.1	<0.05	<0.1	<0.001	<0.5	<0.02	13.6	0.4	0.2
5901669 Rep Dup	0.54	0.21	<0.02	<0.02	43.1	2.8	5.02	0.7	2.46	0.4	<0.1	0.4	<0.1	0.256	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.05	0.1	<0.001	<0.5	<0.02	13.1	0.2	0.2
5901682 Rep Orig	0.85	0.08	<0.02	0.32	43.7	32.6	46.6	9.1	34.6	6.5	0.9	5.3	0.7	3.73	0.7	2	0.3	1.5	0.2	<0.1	<0.05	<0.1	0.001	<0.5	0.04	11.2	0.2	4.9
5901682 Rep Dup	0.6	0.06	<0.02	0.29	40.9	30.8	43.5	8.4	32	5.9	0.9	4.8	0.6	3.45	0.7	1.9	0.3	1.4	0.2	<0.1	<0.05	<0.1	<0.001	<0.5	0.04	10.7	0.1	4.8
5901696 Rep Orig	0.16	0.02	<0.02	0.16	84.5	40.2	51.1	12.2	48	9.4	1.6	7.8	1	6.11	1.3	3.6	0.5	2.9	0.4	<0.1	<0.05	<0.1	0.001	<0.5	0.02	1.47	0.3	1.6
5901696 Rep Dup	0.12	<0.02	<0.02	0.16	88.2	41	53.2	12.4	49.3	9.4	1.6	8	1	6.1	1.3	3.7	0.5	2.9	0.4	<0.1	<0.05	<0.1	0.001	<0.5	0.03	1.46	0.2	1.6
5901715 Rep Orig	0.35	0.03	0.04	0.11	149	20.8	20.9	4.9	17.9	3.2	0.4	2.5	0.4	2.16	0.5	1.2	0.2	0.9	0.1	<0.1	<0.05	<0.1	0.002	<0.5	<0.02	2.04	<0.1	1.6
5901715 Rep Dup	0.31	0.02	0.06	0.11	144	19.3	19.7	4.6	16.8	3	0.4	2.5	0.4	2.16	0.4	1.2	0.2	0.9	0.1	<0.1	<0.05	<0.1	0.001	<0.5	<0.02	2.01	<0.1	1.2
5901729 Rep Orig	0.5	0.09	0.08	1.44	68.7	31.7	47.7	7.8	27.4	4.7	0.6	3.1	0.4	1.88	0.3	0.9	0.1	0.7	0.1	<0.1	<0.05	<0.1	0.001	2.2	0.22	10.6	1	9
5901729 Rep Dup	0.47	0.08	0.02	1.54	70.6	31.7	47.1	7.6	27.1	4.7	0.6	3.2	0.4	1.88	0.3	0.9	0.1	0.7	0.1	<0.1	<0.05	<0.1	0.004	<0.5	0.22	9.26	1	8.9
5901742 Rep Orig																												
5901742 Rep Dup																												

Final Report
Activation Laboratories

Analyte Symbol	Li	Be	B	Na	Mg	Al	K	BI	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In
Unit Symbol	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Detection Limit	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.01	0.002	0.01	0.02	
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
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5902307																															
5902308	0,7	0,6	5	0,033	0,08	1,22	0,03	0,03	0,73	0,6	35	7,5	68	1,12	5,7	9,6	13,8	55,5	3,22	< 0,1	0,4	1	2,5	59,5	22,3	0,3	1,6	9,06	0,155	0,35	0,02
5902309	2,8	0,8	7	0,048	0,13	1,54	0,04	0,03	0,64	2,5	68	23,4	209	2,94	11	15,4	13,5	92,7	2,85	0,2	0,4	2	2,8	87,8	45	0,2	2,3	6,35	0,041	0,31	0,03
5902310	2,2	1,8	9	0,032	0,1	2,17	0,04	0,06	0,88	1,2	370	32,4	297	3,94	20,9	10	10	82,3	3,89	0,3	4,4	7,2	2,2	86,3	64,7	0,3	1,8	9,14	0,1	0,62	0,03
5902311	1,8	1,2	4	0,034	0,06	1,53	0,04	0,05	0,34	2,1	66	17,6	1340	6,58	19,9	10,1	12,4	84,6	4,21	0,2	0,6	2,9	2,5	34,3	59,8	0,3	1,2	7,07	0,172	0,57	0,04
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Report: A06-1824-Batch 22 UT1
 Report Date: 15/

Final Report
Activation Laboratories

Analyte Symbol	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	
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	ppb	ppm	ppm	ppm	ppm	
Detection Limit	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	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	
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
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5902308	0.2	0.03	< 0.02	0.19	84.6	54.6	82.9	12.9	44.2	7.4	1.1	5.4	0.7	4.14	0.9	2.5	0.3	2	0.2	< 0.1	< 0.05	0.1	0.003	< 0.5	0.09	2.91	0.2	137	
5902309	0.34	0.04	< 0.02	0.27	58.6	77.6	110	22.2	82.3	14.9	2	10.9	1.4	7.98	1.8	5.1	0.7	4.5	0.7	< 0.1	< 0.05	0.8	0.001	1.4	0.21	2.15	0.5	92.5	
5902310	0.29	0.07	< 0.02	0.25	131	79	83.4	22.3	87.5	16.6	2.5	14	1.8	10.3	2.1	5.9	0.8	5.3	0.8	< 0.1	< 0.05	3.6	0.004	< 0.5	0.12	3.31	< 0.1	1550	
5902311	0.32	0.06	< 0.02	0.31	140	104	155	27.2	94.1	17	2.2	13.2	1.8	10.4	2.5	7.2	1	6	0.8	< 0.1	< 0.05	< 0.1	< 0.001	3.6	0.1	6.38	0.3	69.4	
5902312																													
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Final Report
Activation Laboratories

Analyte Symbol	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	
Unit Symbol	ppm	ppm	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Detection Limit	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.01	0.002	0.01	0.02		
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS		
GXR-6 Meas	27	0.8	5	0.09	0.4	7.51	1.2	0.12	0.18	23.8	172	79.8	1070	5.44	12.7	23.3	66.7	119	16.8	219	< 10	69.3	38.7	6.62	8.6	< 0.1	1.55	0.163	0.08	0.06		
GXR-6 Cert	32	1	10	0.1	0.61	17.7	1.87	0.29	0.18	27.6	186	96	1010	5.58	13.8	27	66	118	35	330	0.9	90	35	14	110	8	2.4	1.3	1	0.3		
GXR-2 Meas	46	0.9	19	0.179	0.48	3.51	0.66	0.24	0.7	5	45	24.9	1030	1.76	8	17.6	79.8	529	10.6	14.9	< 10	55.1	89.6	10.7	8	1.7	0.83	17	3.99	0.04		
GXR-2 Cert	54	2	42	0.556	0.85	16.5	1.4	0.69	0.93	6.9	52	36	1010	1.86	8.6	21	76	530	37	25	0.6	78	160	17	270	11	2.1	17	4.1	0.3		
GXR-1 Meas	6	0.8	12	0.062	0.15	0.48	0.04	1640	0.83	1.2	75	6.9	874	23.5	7.4	39.1	1150	747	4.73	384	20	2.3	188	26	8.4	< 0.1	17	30.3	2.6	0.76		
GXR-1 Cert	8.2	1	15	0.052	0.22	3.5	0.05	1380	0.96	1.6	80	12	852	23.6	8.2	41	1110	760	13.8	427	20	14	275	32	38	0.8	18	31	3.3	0.77		
GXR-4 Meas	9.2	1.3	3	0.156	1.56	2.88	1.74	18.8	0.85	7.3	82	56.6	143	3.03	13.5	39	6230	66.9	10.9	101	10	100	76.6	11.9	5.9	0.2	312	3.33	0.1	0.21		
GXR-4 Cert	11	1.9	5	0.564	1.66	7.2	4.01	19	1	7.7	87	64	155	3.09	14.6	42	6520	73	20	98	6	160	221	14	190	10	310	4	0.9	0.27		
GXR-6 Meas	26	0.9	5	0.081	0.4	7.5	1.22	0.14	0.14	23	161	78.7	1110	5.55	13.5	25.2	68.8	123	15	209	< 0.1	112	31	7	3.7	< 0.1	1.45	0.318	0.12	0.07		
GXR-6 Cert	32	1	10	0.1	0.61	17.7	1.87	0.29	0.18	27.6	186	96	1010	5.58	13.8	27	66	118	35	330	0.9	90	35	14	110	8	2.4	1.3	1	0.3		
GXR-2 Meas	44.5	1	20	0.183	0.47	3.17	0.61	0.16	0.64	4.2	37	21.4	904	1.55	7.5	15.8	65.5	457	7.76	5	< 0.1	74.9	91.3	10.1	5.2	0.6	0.71	16.2	3.37	0.04		
GXR-2 Cert	54	2	42	0.556	0.85	16.5	1.4	0.69	0.93	6.9	52	36	1010	1.86	8.6	21	76	530	37	25	0.6	78	160	17	270	10	2.1	17	4.1	0.3		
GXR-1 Meas	4.5	0.7	11	0.051	0.12	0.34	0.04	1490	0.77	1	71	6.6	902	24.1	7.6	40.1	1060	727	3.9	408	16.2	4	214	28.4	8.4	< 0.1	18.1	33	2.55	0.78		
GXR-1 Cert	8.2	1	15	0.052	0.22	3.5	0.05	1380	0.96	2	80	12	852	23.6	8.2	41	1110	760	13.8	427	16.6	14	275	32	38	0.8	18	31	3.3	0.77		
GXR-4 Meas	9.8	1.5	4	0.173	1.63	2.88	1.9	18.9	0.91	7.4	80	57.6	147	3.1	14.4	41.7	6280	72	11.5	105	5.5	160	81.4	13.1	6.6	0.1	336	3.8	0.12	0.23		
GXR-4 Cert	11	1.9	5	0.564	1.66	7.2	4.01	19	1	7.7	87	64	155	3.09	14.6	42	6520	73	20	98	5.6	160	221	14	190	10	310	4	0.86	0.27		
Method Blank	< 0.1	< 0.1	< 1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1	< 1	< 0.5	< 1	< 0.01	< 0.1	< 0.1	< 0.01	< 0.1	< 0.02	< 0.1	< 0.1	< 10	< 0.1	< 0.5	< 0.01	< 0.1	< 0.1	< 0.01	< 0.002	< 0.01	< 0.02	
Method Blank	< 0.1	< 0.1	< 1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1	< 1	< 0.5	< 1	< 0.01	< 0.1	< 0.1	< 0.01	< 0.1	< 0.02	< 0.1	< 0.1	< 10	< 0.1	< 0.5	< 0.01	< 0.1	< 0.1	< 0.01	< 0.002	< 0.01	< 0.02	
5902250 Rep Orig																																
5902250 Rep Dup																																
5902273 Rep Orig																																
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5902287 Rep Orig																																
5902287 Rep Dup																																
5902300 Rep Orig																																
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Analyte Symbol	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	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
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-6 Meas	1.04	1.85	0.06	3.89	1140	12.1	34.4	11.4	2.4	0.8	1.9	0.3	1.46			0.1	0.8	< 0.1	0.1	< 0.05	< 0.1		55.8	1.81	94	2.8	0.9	
GXR-6 Cert	1.7	3.6	0.02	4.2	1300	13.9	36	13	2.7	0.8	3	0.4	2.8			0.03	2	0.3	4	0.5	2		95	2.2	101	5.3	2	
GXR-2 Meas	1.05	26.8	0.44	4.63	1260	22.1	46.7	16	3.4	0.6	2.8	0.4	2.06			0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1		31.4	0.64	634	4.5	1.6	
GXR-2 Cert	1.7	49	0.69	5.2	2240	25.6	51.4	19	3.5	0.8	3.3	0.5	3.3			0.3	2	0.3	8	0.9	2		36	1	690	8.8	2.9	
GXR-1 Meas	25.5	73.5	13.3	2.79	467	6	12.3	6.7	2.4	0.5	3.6	0.7	4.41			0.3	2	0.2	0.2	< 0.05	142		3470	0.36	675	2.4	32.3	
GXR-1 Cert	54	122	13	3	750	7.5	17	18	2.7	0.7	4.2	0.8	4.3			0.4	1.9	0.3	1	0.2	164		3300	0.39	730	2.4	34.9	
GXR-4 Meas	5.77	3.14	0.91	2.47	40.6	56.3	105	40.6	6.4	1.4	4.5	0.5	2.56			0.1	0.8	0.1	0.2	< 0.05	10.8		515	2.63	40.8	15.7	5	
GXR-4 Cert	5.6	4.8	0.97	2.8	1640	64.5	102	45	6.6	1.6	5.3	0.4	2.6			0.2	2	0.2	6	0.8	30.8		470	3.2	52	22.5	6.2	
GXR-6 Meas	0.82	1.24	< 0.02	4.01	939	15	35.9	13.2	2.7	0.6	2.1	0.3	1.6			0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1		78.5	2.01	101	3.4	0.9	
GXR-6 Cert	1.7	3.6	0.02	4.2	1300	13.9	36	13	2.7	0.8	3	0.4	2.8			0.03	2	0.3	4	0.5	2		95	2.2	101	5.3	2	
GXR-2 Meas	0.17	15.1	0.21	4.15	1430	23.8	42.4	17.6	3.3	0.6	2.6	0.3	1.85			0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1		23.9	0.58	576	4.3	1.5	
GXR-2 Cert	1.7	49	0.69	5.2	2240	25.6	51.4	19	3.5	0.8	3.3	0.5	3.3			0.3	2	0.3	8	0.9	2		36	1	690	8.8	2.9	
GXR-1 Meas	26	77.9	13.8	2.89	379	6.8	13.3	7.44	2.7	0.6	3.8	0.7	4.56			0.4	2	0.1	0.2	< 0.05	162		3420	0.38	731	3.6	33.7	
GXR-1 Cert	54	122	13	3	750	7.5	17	18	2.7	0.7	4.2	0.8	4.3			0.4	1.9	0.3	1	0.2	164		3300	0.39	730	2.4	34.9	
GXR-4 Meas	5.64	2.67	0.81	2.85	29.4	66.6	110	44.6	7.2	1.5	4.9	0.5	2.64			0.2	1	0.1	0.2	< 0.05	11.4		542	2.89	41.3	18	5.4	
GXR-4 Cert	5.6	4.8	0.97	2.8	1640	64.5	102	45	6.6	1.6	5.3	0.4	2.6			0.2	2	0.2	6	0.8	30.8		470	3.2	52	22.5	6.2	
Method Blank	< 0.05	< 0.02	< 0.02	< 0.02	< 0.5	< 0.5	< 0.01	< 0.1	< 0.02	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 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	
Method Blank	< 0.05	< 0.02	< 0.02	< 0.02	< 0.5	< 0.5	< 0.01	< 0.1	< 0.02	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 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	
5902250 Rep Orig																												
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Activation Laboratories

Element:	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In
Units:	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Detection Limit:	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.01	0.002	0.01	0.02	
Reference Method:	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
Client I.D.																															
5900024																															
5900125																															
5900172																															
5900306																															
5900320																															
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5901009																															
5901048																															
5901186																															
5901316																															
5901339																															
5901368																															
5901602	1.5	0.9	10	0.052	0.07	2.47	0.03	0.07	0.35	2.8	37	18.1	219	3.66	7	10	19.3	71.4	3.36	0.1	0.3	2.7	1.9	36.8	59.9	0.3	1.6	6.53	0.138	1	0.04
5902242																															
5902243																															
5902244																															

Final Report
Activation Laboratories

Element:	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
Units:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
Detection Limit:	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	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	
Reference Method:	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
Client I.D.																												
5900024																												
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5901009																												
5901048																												
5901186																												
5901316																												
5901339																												
5901368																												
5901602	0.28	0.07	<0.02	0.23	79	75.9	84.6	20.2	74.7	14.1	2.2	11.7	1.7	9.79	2	5.7	0.8	4.7	0.7	<0.1	<0.05	<0.1	<0.001	4.9	0.07	3.19	0.7	10.6
5902242																												
5902243																												
5902244																												

QC Results
Activation Laboratories

Element:	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In
Units:	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit:	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02
Reference Method:	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
Client I.D.																															
Method Blank	< 0.1	< 0.1	< 1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1	< 1	< 0.5	< 1	< 0.01	< 0.1	< 0.1	< 0.01	< 0.1	< 0.02	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	< 0.01	< 0.1	< 0.01	< 0.002	< 0.01	< 0.02	
GXR-6 Meas	25.7	0.9	6	0.081	0.36	5.73	1.02	0.07	0.14	20.6	151	72.8	1000	5.4	12.5	21.7	64.6	116	15.6	< 0.1	201	0.2	64.7	30.3	6.34	5.4	< 0.1	1.18	0.257	0.1	0.07
GXR-6 Cert	32	1	10	0.1	0.61	17.7	1.87	0.3	0.18	27.6	186	96	1010	5.58	13.8	27	66	118	35		330	0.9	90	35	14	110	8	2.4	1.3	1	0.3
GXR-2 Meas	46.6	1	19	0.159	0.43	3	0.54	0.18	0.62	3.7	38	20	932	1.68	7.6	15.3	72.8	500	8.3	< 0.1	10.4	< 0.1	46.5	80.5	9.8	7.9	1.4	3.12	16	3.32	0.05
GXR-2 Cert	54	1.7	42	0.556	0.85	16.5	1.4	0.69	0.93	6.9	52	36	1010	1.86	8.6	21	76	530	37		25	0.6	78	160	17	270	11	2.1	17	4.1	0.3
GXR-1 Meas	5	0.9	13	0.052	0.12	0.31	0.05	1420	0.82	0.9	72	6.7	849	23.8	7.5	35.7	1090	731	3.91	0.9	390	12.7	3.4	180	26.6	8.6	< 0.1	17.2	30	2.37	0.79
GXR-1 Cert	8.2	1	15	0.052	0.22	3.5	0.05	1380	0.96	2	80	12	852	23.6	8.2	41	1110	760	13.8		427	16.6	14	275	32	38	0.8	18	31	3.3	0.77
GXR-4 Meas	9.7	1.5	4	0.134	1.48	2.6	1.52	11.1	0.76	6.1	76	52.4	133	3.01	13.7	36.7	6150	68	10.3	0.2	96.1	5.1	93.8	66.9	11.2	5.7	0.1	307	3.35	< 0.01	0.21
GXR-4 Cert	11	1.9	5	0.564	1.66	7.2	4.01	19	1	7.7	87	64	155	3.09	14.6	42	6520	73	20		98	5.6	160	221	14	190	10	310	4	0.9	0.27

QC Results
Activation Laboratories

Element:	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
Units:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm
Detection Limit:	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	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
Reference Method:	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
Client I.D.																												
Method Blank	< 0.05	< 0.02	< 0.02	< 0.02	< 0.5	< 0.5	< 0.01	0.1	< 0.02	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 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
GXR-6 Meas	0.86	0.83	< 0.02	3.32	892	10.9	29.4	2.9	10.9	2.3	0.6	1.8	0.2	1.38	0.3	0.8	0.1	0.7	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	54.4	1.77	94.3	3.5	0.8
GXR-6 Cert	1.7	3.6	0.02	4.2	1300	13.9	36		13	2.7	0.8	3	0.4	2.8			0.03	2	0.3	4	0.5	2		95	2.2	101	5.3	2
GXR-2 Meas	0.81	17.9	0.2	3.52	1140	19.5	37.8	4.5	16.1	3.1	0.5	2.5	0.3	1.83	0.3	0.9	0.1	0.7	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	25.8	0.55	631	4.5	1.3
GXR-2 Cert	1.7	49	0.69	5.2	2240	25.6	51.4		19	3.5	0.8	3.3	0.5	3.3			0.3	2	0.3	8	0.9	2		36	1	690	8.8	2.9
GXR-1 Meas	20.9	64.7	13.3	3.65	371	5.4	10.4	1.4	6.35	2.4	0.5	3.5	0.7	4.28	0.9	2.5	0.3	1.9	0.3	0.1	< 0.05	191	0.002	3240	0.38	710	2.7	29.2
GXR-1 Cert	54	122	13	3	750	7.5	17		18	2.7	0.7	4.2	0.8	4.3			0.4	1.9	0.3	1	0.2	164		3300	0.39	730	2.4	34.9
GXR-4 Meas	4.59	2.21	0.65	2.27	38.2	43.9	78.4	9.7	33	5.5	1.2	3.9	0.4	2.32	0.4	1	0.1	0.8	0.1	0.2	< 0.05	8.5	0.165	468	2.64	41.4	18.2	4.4
GXR-4 Cert	5.6	4.8	0.97	2.8	1640	64.5	102		45	6.6	1.6	5.3	0.4	2.6			0.2	2	0.2	6	0.8	31		470	3.2	52	22.5	6.2

Quality Analysis ...



Innovative Technologies

Date Submitted: 09-Jun-06
Invoice No.: A06-1824 (i)
Invoice Date: 09-Mar-07
Your Reference:

IOS Services Geoscientifiques Inc.
1319 Bo-1, St. Pa-1
Chicoutimi PQ G7J-3Y2
Canada

ATTN: Rejean Girard

CERTIFICATE OF ANALYSIS

6602 Pulp samples were submitted for analysis.

The following analytical packages were requested: Code 2A-15g Humus INAA(INAAGEO)
Code 4F-LOI LOI
Code UT-1-0.5g Aqua Regia ICP/MS

REPORT **A06-1824 (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.

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
+1.888.228.5227 FAX +1.905.648.9613
E-MAIL. ancaster@actlabsint.com ACTLABS GROUP WEBSITE <http://www.actlabsint.com>

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "E. Hoffman", written over a horizontal line.

Eric Hoffman, Ph.D.
President/General Manager

Preliminary Report
Activation Laboratories

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	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g
Detection 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	10	0.5	0.5	0.1	1	20	0.1	1	3	0.1	0.2	0.2	0.1	0.1	g	
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA

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**Preliminary Report
Activation Laboratories**

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	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g
Detection 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	10	0.5	0.5	0.1	1	20	0.1	1	3	0.1	0.2	0.2	0.1	0.1	
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA

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Preliminary Report
Activation Laboratories

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	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass		
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	
Detection 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	10	0.5	0.5	0.1	1	20	0.1	1	3	0.1	0.2	0.2	0.1	0.1			
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	
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5901553	<1	<2	<1	300	18	<0.5	28	20	<0.5	4.64	0.9	<0.5	<5	<0.5	1800	<10	<20	<0.1	6.4	<2	<10	<0.5	1.9	13	<1	60	74.7	87	76	14.4	1.9	1.4	5.4	0.7	15.1		
5901554	<1	<2	<1	500	16	1.1	5	20	0.8	1.27	6.1	<0.5	<5	<0.5	9400	<10	40	<0.1	6.9	<2	<10	<0.5	2.3	4.4	<1	40	31.5	49	35	6.8	1.3	0.6	2.5	0.4	15.1		
5901555	<1	<2	<1	200	14	<0.5	2	14	<0.5	0.68	2.4	<0.5	<5	<0.5	3300	<10	<20	<0.1	4.1	<2	<10	<0.5	1.5	3.8	<1	<20	30.6	43	40	7	1.1	0.7	2.2	0.3	15.1		
5901556	<1	<2	<1	100	19	<0.5	<1	4	<0.5	0.12	<0.5	<0.5	<5	<0.5	600	<10	<20	<0.1	1.4	<2	<10	<0.5	0.6	<0.1	<1	<20	11.7	12	12	2.2	0.4	<0.2	0.8	<0.1	15.1		
5901557	<1	<2	<1	<100	100	<0.5	1	6	<0.5	0.13	0.6	<0.5	<5	<0.5	700	<10	<20	<0.1	3.2	<2	<10	<0.5	1.2	<0.1	<1	40	13	25	10	2.7	0.4	<0.2	1.4	0.2	5.64		
5901558	<1	<2	<1	400	36	<0.5	5	19	0.8	2.32	2.5	<0.5	<5	<0.5	4300	<10	20	<0.1	5.8	<2	<10	<0.5	1.9	30.8	<1	60	45	72	45	8.1	1.4	0.8	2.8	0.4	15.3		
5901559	<1	<2	<1	<100	<1	<0.5	<1	135	<0.5	1.32	<0.5	<0.5	<5	25.2	300	<10	<20	0.4	0.2	<2	<10	<0.5	<0.5	<0.1	1	<20	0.5	<1	<3	0.2	<0.2	<0.2	<0.1	<0.1	15.4		
5901560	<1	<2	<1	300	44	<0.5	14	36	0.8	7.34	1.9	<0.5	<5	<0.5	3600	<10	<20	<0.1	11.7	<2	<10	<0.5	3.8	16.2	<1	120	90	108	86	15.3	2.5	1.7	5.1	0.7	16		
5901561	<1	<2	<1	400	22	<0.5	5	18	<0.5	1.82	3.3	<0.5	<5	<0.5	5400	<10	<20	<0.1	7.2	<2	290	<0.5	2.6	5.4	<1	80	38.7	68	47	8.4	1.4	0.9	3	0.4	15		
5901562	<1	<2	<1	300	25	<0.5	4	14	<0.5	0.71	2.1	<0.5	<5	<0.5	3200	<10	<20	<0.1	3.8	<2	<10	<0.5	1.5	4.5	<1	30	32.4	50	37	5.9	1	0.5	1.8	0.3	15.1		
5901563	<1	<2	<1	200	31	<0.5	22	11	<0.5	1.65	<0.5	<0.5	<5	<0.5	1000	<10	<20	0.2	3.5	<2	<10	<0.5	1.6	7.1	<1	70	46.8	99	49	8.4	1.3	0.9	2.3	0.3	15.1		
5901564	<1	<2	<1	300	23	<0.5	4	23	0.7	1.09	3.2	<0.5	<5	<0.5	4800	80	<20	<0.1	6	<2	<10	<0.5	2.5	3.6	<1	<20	99	108	87	14.4	2	1.4	3.7	0.4	15		
5901565	<1	<2	<1	600	14	<0.5	15	37	<0.5	3.64	12.6	<0.5	<5	<0.5	12800	<10	30	<0.1	12.6	<2	<10	1.4	3.2	3.9	<1	80	89.1	117	89	15.3	2.5	1.4	5.6	0.7	15.2		
5901566	19	<2	<1	500	6	3.1	16	85	<0.5	4.14	10.8	<0.5	<5	<0.5	21000	<10	30	0.2	18	<2	310	<0.5	2.8	<0.1	<1	50	25.2	52	30	7	1.4	0.8	2.4	0.4	15.2		
5901567	<1	<2	<1	200	25	<0.5	27	20	0.5	5.27	0.5	<0.5	<5	7.9	800	<10	<20	<0.1	5.4	<2	240	<0.5	1.7	3.4	<1	60	63	75	56	9	1.2	0.9	3.2	0.4	15.1		
5901568	3	<2	<1	700	18	1	26	30	<0.5	4.91	6.8	<0.5	<5	3.3	11100	<10	20	0.2	9	<2	<10	<0.5	2.8	4.2	<1	90	44.1	77	45	8.8	1.5	1	3.4	0.4	15.8		
5901569	<1	<2	<1	400	23	<0.5	16	26	<0.5	4.8	7.7	<0.5	<5	<0.5	8500	<10	30	<0.1	9.9	<2	<10	<0.5	2.5	4.9	<1	60	44.1	77	47	9	1.7	1.1	3.8	0.5	15		
5901570	<1	<2	<1	100	25	<0.5	2	8	<0.5	0.41	0.7	<0.5	<5	<0.5	1100	<10	<20	<0.1	2.9	<2	<10	<0.5	1	1.2	<1	<20	12.6	23	15	2.7	0.4	0.3	1	<0.1	15		
5901571	<1	<2	<1	300	27	0.6	3	10	<0.5	0.5	2.6	<0.5	<5	<0.5	3100	<10	<20	<0.1	4.2	<2	<10	<0.5	1.1	1.1	<1	<20	18	33	20	4	0.8	0.4	1.5	0.2	15		
5901572	<1	<2	<1	200	19	<0.5	2	8	<0.5	0.44	2.3	<0.5	<5	<0.5	2900	<10	<20	<0.1	2.7	<2	<10	<0.5	0.8	0.5	<1	<20	8.4	15	9	1.7	0.4	<0.2	0.7	<0.1	15.4		
5901573	<1	<2	5	300	24	0.6	10	55	1.5	1.78	2.8	<0.5	<5	<0.5	8700	<10	40	0.2	4.9	<2	260	0.5	5.3	7.9	<1	40	31.5	59	26	4.7	0.7	<0.2	1	<0.1	15		
5901574	<1	<2	<1	200	23	<0.5	34	13	0.6	7.17	2.6	<0.5	<5	<0.5	2700	<10	<20	0.2	4.5	<2	<10	<0.5	2.6	2.6	<1	<20	45	87	47	8.9	1.2	<0.2	3.1	0.4	15.1		
5901575	<1	<2	<1	400	17	<0.5	84	17	<0.5	13.3	3.5	<0.5	<5	<0.5	4200	<10	<20	<0.1	6.8	<2	<10	<0.5	3.9	3.9	<1	40	54	135	63	11.7	1.6	1.2	4.4	0.5	15		
5901576	<1	<2	<1	200	25	<0.5	2	7	<0.5	0.48	2.3	<0.5	<5	<0.5	2500	<10	<20	<0.1	3.2	<2	<10	<0.5	2.1	4.7	<1	<20	19.8	36	17	3.2	0.4	0.3	1.1	0.2	15.2		
5901577	<1	<2	<1	100	31	<0.5	<1	8	0.5	0.29	0.9	<0.5	<5	<0.5	1500	<10	<20	<0.1	2.7	<2	<10	<0.5	1.9	0.5	<1	<20	16	29	11	2.4	0.4	0.3	0.8	0.1	15.2		
5901578	<1	<2	<1	300	39	<0.5	6	22	<0.5	2.61	2.3	<0.5	<5	<0.5	3400	<10	<20	<0.1	6.7	<2	<10	<0.5	3.2	10.8	<1	40	66	130	67	13	1.9	1.5	4	0.5	15.1		
5901579	<1	<2	8	300	28	<0.5	11	67	2.2	2.08	3.1	<0.5	<5	<0.5	9900	<10	<20	0.3	5.8	<2	<10	<0.5	6.6	9.9	2	60	36	70	27	5.5	0.8	0.5	0.9	0.2	15		
5901580	2	<2	<1	900	<1	1.7	9	27	<0.5	2.94	27	<0.5	<5	<																							

Preliminary Report
Activation Laboratories

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	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass		
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	
Detection 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	10	0.5	0.5	0.1	1	20	0.1	1	3	0.1	0.2	0.2	0.1	0.1			
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	
IOS STD Meas	<1	<2	4	200	22	1.5	12	57	1.7	1.82	3.9	<0.5	<5	<0.5	9500	<10	<20	0.2	5.2	<2	<10	<0.5	5.3	7.9	<1	<20	36.9	64	27	4	1	<0.2	1.2	<0.1	15		
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IOS STD Meas	<1	<2	5	300	26	1.6	10	59	1.7	1.84	3	<0.5	<5	<0.5	9200	<10	<20	0.1	5.2	<2	<10	<0.5	6	8.4	<1	<20	32	62	25	4.7	0.8	<0.2	0.9	<0.1	15		
IOS STD Cert																																					
IOS STD Meas	<1	<2	4	300	25	1.3	11	58	1.7	1.89	2.9	<0.5	<5	<0.5	9100	<10	<20	0.3	5.3	<2	210	<0.5	5.9	8.6	<1	<20	33	63	28	4.9	0.6	0.3	1.1	0.1	15		
IOS STD Cert																																					
IOS STD Meas	<1	<2	4	200	26	1.1	10	60	1.5	1.84	2.5	<0.5	<5	<0.5	9400	<10	<20	0.2	5.2	<2	<10	<0.5	5.5	8.3	<1	<20	32	57	23	4.8	0.7	<0.2	1	0.1	15		
IOS STD Cert																																					
L-STD 20 ppb Spike 2A Meas	24	<2	<1	<100	2	1.5	<1	3	<0.5	0.08	<0.5	<0.5	<5	<0.5	300	<10	<20	<0.1	0.2	<2	<10	<0.5	<0.5	<0.1	<1	30	2.2	2	<3	0.4	<0.2	<0.1	<0.1	15			
L-STD 20 ppb Spike 2A Cert	22	0.6	-1	30	3	1.9	0.4	5	0.09	0.07	0.3			0.2	300		3	0.5	0.2	0.3	50		0.2	0.06		30	2.2	2	2	0.3	0.08		0.1	0.01			
L-STD 20 ppb Spike 2A Meas	22	<2	<1	<100	2	1.3	<1	3	<0.5	0.06	<0.5	<0.5	<5	<0.5	200	<10	<20	<0.1	0.2	<2	<10	<0.5	<0.5	<0.1	<1	30	1.7	<1	<3	0.3	<0.2	<0.1	<0.1	15			
L-STD 20 ppb Spike 2A Cert	22	0.6	-1	30	3	1.9	0.4	5	0.09	0.07	0.3			0.2	300		3	0.5	0.2	0.3	50		0.2	0.06		30	2.2	2	2	0.3	0.08		0.1	0.01			
L-STD 20 ppb Spike 2A Meas	21	<2	<1	<100	2	1.3	<1	3	<0.5	0.07	<0.5	<0.5	<5	<0.5	300	<10	<20	<0.1	0.2	<2	<10	<0.5	<0.5	<0.1	<1	20	1.7	2	<3	0.3	<0.2	<0.1	<0.1	15			
L-STD 20 ppb Spike 2A Cert	22	0.6	-1	30	3	1.9	0.4	5	0.09	0.07	0.3			0.2	300		3	0.5	0.2	0.3	50		0.2	0.06		30	2.2	2	2	0.3	0.08		0.1	0.01			
L-STD 20 ppb Spike 2A Meas	21	<2	<1	<100	2	1.4	<1	2	<0.5	0.06	<0.5	<0.5	<5	<0.5	200	<10	<20	<0.1	0.1	<2	<10	<0.5	<0.5	<0.1	<1	<20	1.7	<1	<3	0.2	<0.2	<0.1	<0.1	15			
L-STD 20 ppb Spike 2A Cert	22	0.6	-1	30	3	1.9	0.4	5	0.09	0.07	0.3			0.2	300		3	0.5	0.2	0.3	50		0.2	0.06		30	2.2	2	2	0.3	0.08		0.1	0.01			

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Table with columns for Analyte Symbol, Unit Symbol, Detection Limit, Analysis Method, and concentrations for elements Au through Lu. Each element column includes a detection limit and a concentration value.

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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	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g
Detection 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	2	10	0.5	0.5	0.1	1	20	0.1	1	3	0.1	0.2	0.2	0.1	0.1	0.1		
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	
5901648	2	<2	<1	100	14	<0.5	<1	4	<0.5	0.22	0.7	<0.5	<5	<0.5	1400	<10	<20	<0.1	1.7	<2	<10	<0.5	2.4	2.6	<1	<20	24	39	21	3.8	0.5	0.5	<1	0.1	15.6	
5901649	<1	<2	<1	<100	14	<0.5	1	130	<0.5	1.29	<0.5	<0.5	<5	<22	500	30	<20	0.2	0.1	<2	<10	<0.5	<0.5	<0.1	<1	<20	0.8	1	<3	0.1	<0.2	<0.2	<0.1	<0.1	15.2	
5901650	<1	<2	<1	400	32	<0.5	15	21	1.1	4.92	2.2	<0.5	<5	<0.5	3900	<10	<20	<0.1	7.2	<2	<10	<0.5	5.7	13.6	<1	80	120	180	93	18	2.2	2.1	5.8	0.7	15.6	
5901651	<1	<2	2	300	23	<0.5	10	21	<0.5	2.19	2.8	<0.5	<5	<0.5	3700	<10	<20	<0.1	5	<2	<10	<0.5	3.4	2.1	<1	60	44	79	43	9.1	1.3	0.7	2.8	0.4	15.1	
5901652	<1	<2	<1	200	17	0.9	2	13	<0.5	0.24	0.7	<0.5	<5	<0.5	900	<10	<20	<0.1	3.3	<2	<10	<0.5	2.9	3.6	<1	30	56	68	48	10	1.1	0.9	2.4	0.3	15.5	
5901653	2	<2	<1	900	13	<0.5	18	50	<0.5	8.57	10.8	<0.5	<5	<0.5	14900	<10	60	<0.1	15.3	<2	890	<0.5	13.5	22.4	<1	60	144	198	144	29.7	4.3	2.9	8.6	1.2	15.3	
5901654	2	<2	<1	300	27	<0.5	6	20	<0.5	2.21	2.9	<0.5	<5	<0.5	4300	<10	<20	<0.1	8.8	<2	<10	<0.5	3.7	7	<1	60	55	100	54	12	1.6	1.3	3.6	0.4	15.3	
5901655	<1	<2	2	200	34	<0.5	7	7	1	0.95	1.4	<0.5	<5	<0.5	1700	<10	<20	<0.1	5.1	<2	<10	<0.5	2.3	27	<1	50	61	86	73	10	1.7	1.2	4.3	0.5	5.17	
5901656	<1	<2	<1	<100	39	<0.5	3	16	<0.5	1.55	0.6	<0.5	<5	<0.5	1000	<10	<20	<0.1	4.9	<2	<10	0.8	2.7	4.3	<1	40	55	86	55	11	1.4	1.3	3.3	0.4	15.3	
5901657	<1	<2	5	300	23	1	11	58	1.6	1.81	2.7	<0.5	<5	<0.5	9200	<10	30	0.2	5.2	<2	220	<0.5	6.2	7.4	<1	30	32	60	26	4.9	0.7	<0.2	1	0.1	15.1	
5901658	<1	<2	<1	300	17	0.9	3	17	0.6	0.65	3.9	<0.5	<5	<0.5	5000	<10	<20	<0.1	4.1	<2	<10	<0.5	2.5	2.8	<1	<20	21	43	20	4.3	0.7	0.5	1.6	0.2	15.8	
5901659	<1	<2	<1	200	32	<0.5	1	7	<0.5	0.34	1.2	<0.5	<5	<0.5	1800	<10	<20	0.2	3.1	<2	<10	<0.5	1.8	1.3	<1	<20	15	27	14	2.6	0.4	<0.2	1.2	0.1	10.3	
5901660	3	<2	<1	400	28	<0.5	4	32	<0.5	2.03	4	<0.5	<5	<0.5	5900	80	<20	<0.1	8.8	<2	<10	<0.5	5.2	4.7	<1	80	74	140	75	15	2.1	1.4	4.4	0.6	15.3	
5901661	<1	<2	1	200	29	<0.5	1	10	0.6	0.69	2.4	<0.5	<5	<0.5	3400	<10	<20	<0.1	4.4	<2	<10	<0.5	3.3	2.2	<1	<20	36	66	32	6.6	0.9	0.8	1.8	0.2	15.3	
5901662	<1	<2	<1	400	35	<0.5	7	26	<0.5	4.14	4	<0.5	<5	<0.5	6600	<10	40	<0.1	8.7	<2	<10	0.9	5.1	4.8	<1	30	76	140	75	15	1.8	1.4	4.7	0.7	15.8	
5901663	<1	<2	<1	400	35	<0.5	2	12	<0.5	0.83	4.1	<0.5	<5	<1.1	5900	<10	<20	0.2	6.5	<2	330	<0.5	3.9	1.4	<1	<20	34	62	28	5.7	0.9	0.5	1.9	0.2	15.4	
5901664	<1	<2	<1	1000	12	1.8	9	24	1.7	3.94	12	<0.5	<5	<0.5	21500	<10	110	<0.1	16	<2	<10	1.4	7.3	2	<1	30	39	96	37	10	2	1.4	5.1	0.7	15.5	
5901665	<1	<2	<1	<100	<1	<0.5	2	160	<0.5	1.56	<0.5	<0.5	<5	26	600	<10	<20	0.3	0.2	<2	<10	<0.5	<0.5	<0.1	<1	<20	0.6	2	<3	0.1	<0.2	<0.2	<0.1	<0.1	15.3	
5901666	<1	<2	<1	200	23	<0.5	1	6	<0.5	0.36	1.4	<0.5	<5	<0.5	2200	<10	<20	<0.1	3.2	<2	<10	<0.5	2.2	2.7	<1	<20	32	57	27	5.6	0.8	0.5	1.6	0.2	15.4	
5901667	4	<2	<1	600	23	<0.5	11	35	1.2	3.52	13	<0.5	<5	<0.5	13700	<10	40	<0.1	12	<2	<10	<0.5	5.4	7	<1	70	61	120	55	13	2.1	1.6	5.2	0.7	15.8	
5901668	<1	<2	<1	300	23	<0.5	4	23	<0.5	1.14	3.5	<0.5	<5	<0.5	5200	<10	<20	<0.1	6.6	<2	<10	<0.5	4.3	5	<1	40	52	90	50	11	1.5	1.3	3.4	0.5	15.4	
5901669	<1	<2	2	<100	33	<0.5	2	6	<0.5	0.13	0.6	<0.5	<5	1.3	600	<10	<20	0.5	0.9	<2	<10	<0.5	0.7	0.3	<1	30	4.5	8	5	0.5	<0.2	<0.2	0.2	<0.1	5.69	
5901670	<1	<2	2	200	84	<0.5	59	15	<0.5	8.04	1.8	<0.5	<5	5.3	2700	<10	<20	<0.1	6.2	<2	<10	<0.5	4.2	8.4	<1	<20	63	150	63	13	1.6	1.6	4.8	0.6	8.23	
5901671	<1	<2	<1	200	23	1.1	1	7	<0.5	0.59	1	<0.5	<5	1.2	1800	70	<20	<0.1	3.1	<2	<10	<0.5	2.3	1.7	<1	<20	27	50	24	4.5	0.6	0.4	1.4	0.2	15.2	
5901672	2	<2	<1	300	32	<0.5	3	16	0.6	1.02	1.6	<0.5	<5	<0.5	2500	<10	<20	<0.1	5.4	<2	<10	<0.5	3.3	2.3	<1	<20	53	73	52	10	1.5	0.9	3.1	0.4	15.2	
5901673	<1	<2	6	300	23	0.8	9	56	1.8	1.81	2.8	<0.5	<5	<0.5	8900	<10	40	<0.1	5.1	<2	<10	<0.5	6.1	9	<1	30	31	59	26	4.8	0.7	0.5	1.1	0.2	15.7	
5901674	<1	<2	<1	900	<1	1.5	14	31	1.4	3.83	14	<0.5	<5	<0.5	22900	<10	110	<0.1	15	<2	<10	1.5	6.1	2.1	<1	40	43	87	36	11	1.9	1.3	4.9	0.6	15.9	
5901675	<1	<2	<1	800	7	1.8	15	34	1.1	3.13	13	<0.5	<5	<0.5	20000	<10	70	<0.1	13	<2	520	1.3	6.5	3	<1	80	50	96	44	11	2	1.1	4.6	0.6	15.2	
5901676	<1	<2	<1	200	19	<0.5	1	<1	<0.5	0.12	0.7	<0.5	<5	<0.5	900	<10	<20	<0.1	1.7	<2	<10	<0.5	0.7	<0.1	<1	<20	15	19	11	2.4	0.3	<0.2	1	0.1	8.03	
5901677	<1	<2	<1	100	22	<0.5	2	5	<0.5	0.13	<0.5	<0.5	<5	<0.5	400	<10	<20	<0.1	2	<2	<10	<0.5	1.2	1.5	<1	<20	21	28	19	3.8	0.5	0.5	1.3	0.2	15.1	
5901678	<1	<2	<1	100	45	0.8	3	10	<0.5	0.23	2.2	<0.5	<5	1.6	3100	<10	<20	<0.1	2.4	3	210	<0.5	1.3	0.4	<1	<20	4	7	<3	0.5	<0.2	<0.2	0.4	<0.1	4.96	
5901679	4	<2	2	400	23	<0.5	15	35	1	8.32	6.7	<0.5	<5	<0.5	10400	90	40	0.2	11	<2	<10	<0.5	5	8.8	<1	120	63	130	60	14	2	1.5	5.8	0.8	15.9	
5901680	<1	<2	<1	600	6	1.2	15	18	0.9	4.03	8.7	<0.5	<5	<0.5	11200	<10	40	<0.1	8.8	<2	220	<0.5	3.3	7.3	<1	30	42	73	39	9.3	1.5	1	3.7	0.5	15.4	
5901681	<1	<2	4	300	24	<0.5	10	62	1.6	1.9	2.8	<0.5	<5	<0.5	9600	<10	40	0.2	5.4	<2	<10	<0.5	6.3	10	<1	50	33	62	25	5	0.7	<0.2	0.9	0.1	15.4	
5901682	<1	<2	<1	400	11	<0.5	5	15	<0.5	1.73	5.8	<0.5	<5	<0.5	7400	<10	30	0.2	6.1	<2	<10	<0.5	2.3	5.1	<1	30	35	60	34	7.5	1.2	0.8	2.7	0.3	15.1	
5901683	<1	<2	<1	200	21	<0.5	2	7	<0.5	2.06	1.1	<0.5	<5	<0.5	1600	<10	<20	<0.1	2.8	<2	<10	<0.5	1.6	6.1	<1	20	26	35	28	4.9	0.7	0.4	1.5	0.2	15.3	
5901684	<1	<2	<1	200	29	<0.5	2	10	0.6	0.83	0.9	<0.5	<5	<0.5	1400</																					

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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	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass		
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	
Detection 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	10	0.5	0.5	0.1	1	20	0.1	1	3	0.1	0.2	0.2	0.1	0.1	9		
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA		
5901715	<1	<2	<1	200	22	<0.5	1	5	<0.5	0.21	1.5	<0.5	<5	0.9	1600	<10	<20	<0.1	2.8	<2	<10	<0.5	0.9	1	<1	<20	23	30	18	2.6	0.5	0.3	1.5	0.1	14.6		
5901716	<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	<10	<0.5	<0.5	<0.1	<1	<20	0.3	<1	<3	<0.1	<0.2	<0.2	<0.1	<0.1	15.3		
5901717	<1	<2	<1	200	12	<0.5	1	6	<0.5	0.29	2.5	<0.5	<5	3	3400	<10	<20	<0.1	2.5	<2	<10	<0.5	1.4	3.6	<1	<20	18	30	15	2.3	0.4	0.4	1	0.1	5.8		
5901718	1	<2	<1	400	5	1.4	3	12	<0.5	2.41	7.4	<0.5	<5	7.9	7200	<10	<20	<0.1	5.9	<2	<10	<0.5	2.9	11	<1	30	47.2	81	45	7.4	1.5	1	3.5	0.5	15.6		
5901719	<1	<2	<1	200	11	1.3	5	6	<0.5	0.57	3.7	<0.5	<5	<0.5	3900	<10	<20	<0.1	3.6	<2	110	<0.5	1.7	23	<1	40	42.5	66	37	5.8	1.3	0.7	2.2	0.2	15.5		
5901720	<1	<2	<1	200	11	<0.5	2	8	<0.5	0.36	2.3	<0.5	<5	<0.5	2900	<10	<20	<0.1	3.3	<2	<10	0.5	2.1	1.5	<1	30	20.7	36	18	2.6	0.6	0.3	1.3	0.1	9.3		
5901721	1	<2	<1	200	12	<0.5	2	10	<0.5	0.54	0.7	<0.5	<5	<0.5	600	<10	<20	<0.1	4.8	<2	<10	<0.5	1.1	7.8	<1	<20	81.7	68	101	16.1	2.6	2	7.6	1	15.5		
5901722	<1	<2	5	200	18	1.5	12	54	1.5	1.76	3.6	<0.5	<5	<0.5	9300	40	30	0.1	5.1	<2	<10	<0.5	5.9	6.5	<1	50	34.5	62	24	3.8	0.8	<0.2	1.1	0.1	15.9		
5901723	<1	<2	<1	400	7	<0.5	7	10	<0.5	1.93	24.1	<0.5	<5	<0.5	10300	<10	30	<0.1	8.7	<2	<10	0.7	2.5	5.4	<1	30	49.5	54	61	11.4	2.3	1.5	6.9	0.9	15.7		
5901724	<1	<2	<1	200	9	<0.5	7	14	<0.5	5.72	3.5	<0.5	<5	1.8	3300	<10	<20	<0.1	4.9	<2	<10	<0.5	3.3	2.1	<1	30	38	72	41	6.9	1.3	1	3.2	0.3	15.6		
5901725	<1	<2	<1	<100	16	1.3	2	5	<0.5	1.03	0.9	<0.5	<5	<0.5	700	<10	<20	<0.1	3.8	<2	<10	<0.5	1.4	17	<1	40	40.3	49	36	6	1	0.7	2.5	0.3	15.3		
5901726	2	<2	<1	200	13	<0.5	3	10	<0.5	1	1.5	<0.5	<5	3	2100	<10	<20	0.1	4.6	<2	<10	<0.5	2.6	3.2	<1	<20	47.2	72	44	6.6	1.3	0.9	2.9	0.3	15.3		
5901727	<1	<2	<1	200	6	<0.5	2	9	<0.5	0.59	3.9	<0.5	<5	<0.5	3800	<10	<20	<0.1	4.3	<2	<10	<0.5	2.9	1.9	<1	<20	30	52	26	4.4	0.9	0.6	2	0.2	15.5		
5901728	<1	<2	<1	300	16	<0.5	2	10	0.8	0.61	4.4	<0.5	<5	<0.5	4900	<10	<20	0.1	3.9	<2	<10	<0.5	2.4	1.7	<1	<20	20	34	17	2.5	0.6	0.4	1.3	0.2	5.52		
5901729	<1	<2	4	200	15	<0.5	9	47	1.2	1.56	3.3	<0.5	<5	3.4	8200	<10	<20	0.2	4.5	<2	<10	<0.5	5.1	6.4	<1	40	30	53	22	3.3	0.7	<0.2	0.9	0.1	15.3		
5901730	<1	<2	<1	200	25	<0.5	2	9	<0.5	0.87	3.2	<0.5	<5	1.7	3600	<10	<20	<0.1	3.9	<2	<10	<0.5	2.2	0.9	<1	<20	27	47	23	3.6	0.7	0.5	1.7	0.2	15.4		
5901731	<1	<2	<1	200	19	<0.5	2	6	<0.5	0.63	4.5	<0.5	<5	1.8	4800	<10	<20	0.3	3.5	<2	<10	<0.5	1.8	<0.1	<1	20	18	30	16	2.4	0.6	0.7	1.5	0.2	8.56		
5901732	<1	<2	<1	200	18	<0.5	1	5	<0.5	0.41	1.9	<0.5	<5	<0.5	1800	<10	<20	0.1	2.4	2	<10	<0.5	1.5	0.9	<1	<20	19	30	16	2.3	0.5	0.3	1.2	0.2	15.8		
5901733																																					
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Preliminary Report
Activation Laboratories

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	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g
Detection 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	10	0.5	0.5	0.1	1	20	0.1	1	3	0.1	0.2	0.2	0.1	0.1		
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
IOS STD Meas	<1	<2	5	300	19	<0.5	12	59	1.5	1.86	3.5	<0.5	<5	<0.5	9800	<10	<20	<0.1	5.3	<2	<10	<0.5	6.4	7.7	<1	<20	34	63	28	4	0.8	<0.2	<0.1	<0.1	15	
IOS STD Cert																																				
IOS STD Meas																																				
IOS STD Cert																																				
IOS STD Meas	<1	<2	5	300	24	<0.5	10	61	1.7	1.82	2.7	<0.5	<5	<0.5	9500	<10	<20	0.1	5.5	<2	<10	<0.5	6.9	7.8	<1	<20	33	62	25	5	0.8	0.5	1.1	0.2	15	
IOS STD Cert																																				
IOS STD Meas	<1	<2	4	300	18	<0.5	10	54	1.5	1.83	3.1	<0.5	<5	<0.5	9500	<10	<20	0.2	5.1	<2	<10	<0.5	5.9	7.7	3	<20	35.7	61	25	4.8	0.8	<0.2	1	<0.1	15	
IOS STD Cert																																				
L-STD 20 ppb Spike 2A Meas	22	<2	<1	<100	3	1.6	<1	4	<0.5	0.07	<0.5	<0.5	<5	<0.5	300	<10	<20	<0.1	0.2	<2	<10	<0.5	<0.5	<0.1	<1	30	1.8	1	<3	0.3	<0.2	<0.1	<0.1	15		
L-STD 20 ppb Spike 2A Cert	22	0.8	-1	30	3	1.9	0.4	5	0.09	0.07	0.3			0.2	300		3	0.5	0.2	0.3	50		0.2	0.06		30	2.2	2	2	0.3	0.08		0.1	0.01		
L-STD 20 ppb Spike 2A Meas	25	<2	<1	<100	3	1.3	<1	4	<0.5	0.07	<0.5	<0.5	<5	<0.5	200	<10	<20	<0.1	0.1	<2	<10	<0.5	<0.5	<0.1	<1	30	1.9	3	<3	0.3	<0.2	<0.1	<0.1	15		
L-STD 20 ppb Spike 2A Cert	22	0.6	-1	30	3	1.9	0.4	5	0.09	0.07	0.3			0.2	300		3	0.5	0.2	0.3	50		0.2	0.06		30	2.2	2	2	0.3	0.08		0.1	0.01		
L-STD 20 ppb Spike 2A Meas	24	<2	<1	<100	3	1.7	<1	3	<0.5	0.06	<0.5	<0.5	<5	<0.5	200	<10	<20	<0.1	0.2	<2	<10	<0.5	<0.5	<0.1	<1	30	1.9	1	<3	0.3	<0.2	<0.1	<0.1	15		
L-STD 20 ppb Spike 2A Cert	22	0.6	-1	30	3	1.9	0.4	5	0.09	0.07	0.3			0.2	300		3	0.5	0.2	0.3	50		0.2	0.06		30	2.2	2	2	0.3	0.08		0.1	0.01		
L-STD 20 ppb Spike 2A Meas	23	<2	<1	<100	2	1.5	<1	3	<0.5	0.06	<0.5	<0.5	<5	<0.5	300	<10	<20	<0.1	0.2	<2	<10	<0.5	<0.5	<0.1	<1	30	1.9	1	<3	0.3	<0.2	<0.1	<0.1	15		
L-STD 20 ppb Spike 2A Cert	22	0.6	-1	30	3	1.9	0.4	5	0.09	0.07	0.3			0.2	300		3	0.5	0.2	0.3	50		0.2	0.06		30	2.2	2	2	0.3	0.08		0.1	0.01		

Activation Laboratories Ltd. Work Order A06-1824 Report A06-1824 Batch 22 INAA

Sample Description	AU	AG	AS	BA*	BR	CA	CO	CR	CS	FE	HF	HG	IR*	MO*	NA	NI	RB	SB	SC	SE	SR	TA	TH	U	W	ZN	LA*	CE*	ND*	SM*	EU	TB	YB	LU*	Mass			
	PPB	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	%	PPM	PPM	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	g		
5902245																																						
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Activation Laboratories Ltd. Work Order A06-1824 Report A06-1824 Batch 22 INAA

Sample Description	AU	AG	AS	BA*	BR	CA	CO	CR	CS	FE	HF	HG	IR*	MO*	NA	NI	RB	SB	SC	SE	SR	TA	TH	U	W	ZN	LA*	CE*	ND*	SM*	EU	TB	YB	LU*	Mass			
	PPB	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	%	PPM	PPM	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	g		
6902306																																						
6902307																																						
6902308	2	-2	2	152	31	-0,5	6	10	-0,5	1,17	1,4	-0,5	-5	-0,5	2170	-10	-20	-0,1	3,8	-2	-100	-0,5	2,2	119,0	-1	45	44,7	69	30	6,1	1,0	0,6	1,5	-0,1	15,22			
6902309	-2	-2	-1	361	34	-0,5	10	28	-0,5	3,36	2,9	-0,5	-5	-0,5	5170	-20	21	-0,1	8,0	-2	-100	-0,5	4,6	83,3	-1	70	65,6	93	49	12,4	1,9	1,3	4,4	0,7	15,72			
6902310	-5	-2	5	-95	46	-1,0	23	58	-0,5	4,25	-0,5	-4,0	-10	-0,5	1500	-20	-20	-0,1	6,6	-5	-200	-0,5	2,1	1050,0	-2	95	123,5	-1	-3	25,7	2,2	2,2	4,1	-0,1	8,20			
6902311	-2	-2	-1	352	45	-0,5	21	24	-0,5	7,38	1,8	-0,5	-5	-0,5	3070	-10	-20	0,2	7,5	-2	-100	-0,5	3,4	64,6	-1	67	95,0	143	72	15,2	2,1	1,8	5,8	0,9	10,53			
6902312																																						
6902313																																						
6902314																																						
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6902316																																						
6902317																																						
6902318																																						
L-STD	24	-2	-1	-100	2	2,1	-1	3	-0,5	0,05	-0,5	-0,5	-5	-0,5	290	-10	-20	-0,1	0,1	-2	-100	-0,5	-0,5	-0,1	-1	33	2,4	-1	-3	0,3	-0,2	-0,2	-0,1	-0,1	15,00			
L-STD	21	-2	-1	-100	3	1,5	-1	4	-0,5	0,08	-0,5	-0,5	-5	-0,5	320	-10	-20	-0,1	0,2	-2	-100	-0,5	-0,5	-0,1	-1	29	2,0	2	-3	0,3	-0,2	-0,2	0,1	-0,1	15,00			
L-STD	22	-2	-1	-100	2	1,8	-1	3	-0,5	0,08	-0,5	-0,5	-5	-0,5	315	-10	-20	-0,1	0,3	-2	-100	-0,5	-0,5	-0,1	-1	33	2,3	2	-3	0,4	-0,2	-0,2	0,1	-0,1	15,00			
IOS STD	-1	-2	6	270	25	-0,5	11	54	1,4	1,86	3,5	-0,5	-5	-0,5	9670	-10	-20	0,3	5,2	3	-100	-0,5	6,0	8,3	-1	-20	33,3	59	23	3,7	0,8	-0,2	1,0	0,2	15,00			
IOS STD	-1	-2	6	293	26	-0,5	11	54	1,7	1,87	3,8	-0,5	-5	-0,5	9700	-10	-20	0,2	5,3	-2	-100	-0,5	6,3	7,8	-1	-20	33,8	61	26	3,8	0,8	-0,2	1,1	0,2	15,00			
IOS STD	-1	-2	5	228	25	-0,5	10	53	1,5	1,84	2,7	-0,5	-5	-0,5	9690	-10	-20	0,2	5,4	-2	-100	-0,5	6,2	8,3	-1	-20	35,2	58	24	3,8	0,8	-0,2	1,0	0,2	15,00			
L-STD Accepted Value	22	-2	-1	-100	3	1,9	-1	5	-0,5	0,07	-0,5			0,5	320	-10	-20	0,1	0,2	-2	-100		-0,5	-0,1		34	2,2	2	-3	0,3	-0,2		-0,1	-0,1				
IOS Std Average	-1	-2	5	273	21	-0,5	11	52	1,5	1,81	3,4	-0,5	-5	1,0	9580	-10	-20	-0,1	5,3	-2	-100	-0,5	5,8	7,7	-1	-20	34,9	61	27	3,5	0,8	-0,2	1,0	0,2				

Detection limits are elevated due to high concentration of U
 * U interference

Report: A06-1824 (i)
 Report Date: 09/03/2007

Preliminary Report
Activation Laboratories

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	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	
Detection 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	10	0,5	0,5	0,1	1	20	0,1	1	3	0,1	0,2	0,2	0,1	0,1		
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	
5900125																																				
5900172																																				
5900306																																				
5900347																																				
5900912																																				
5901048																																				
5901339																																				
5901368																																				
5901602	-1	-2	1	400	54	-0,5	12	25	2,3	5,23	2,5	-0,5	-5	7,5	4800	-10	-20	-0,1	9,7	-2	-10	-0,5	4,2	13,2	-1	100	120,0	156	92	19,0	2,6	1,8	7,1	1,3	0,317	
5902242																																				
5902243																																				
5902244																																				

**Preliminary Report
Activation Laboratories**

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	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g
Detection 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	10	0.5	0.5	0.1	1	20	0.1	1	3	0.1	0.2	0.2	0.1	0.1		
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
IOS STD Meas			4	200	19		10	44	1.1	1.88	2.0			9700				4.8					5.2	7.3		35.0	56	23	3.4	0.8		0.7	-0.1			
IOS STD Cert			5	300	21		10	52	1.5	1.81	3.4			9600				5.3					5.8	7.7		34.9	61	27	3.5	0.8		1.0	0.2			
NIST 1632c Meas			6	-100	19	-0.5	4	16	0.7	0.82	0.6	-0.5		300	50	-20	0.5	2.8	-2	-10			1.2	0.6		-20	13		1.2	-0.2						
NIST 1632c Cert			6	40	19	0.2	4	14	0.6	0.74	0.6	0.1		300	9	8	0.5	2.9	1	500			1.5	0.5		10	12		1.1	0.1						
Method Blank	-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	-10	-0.5	-0.5	-0.1	-1	-20	-0.1	-1	-3	-0.1	-0.2	-0.2	-0.1	-0.1	1,000	



Date Submitted: 09-Jun-06
Invoice No.: A06-1824 (i)
Invoice Date: 09-Mar-07
Your Reference:

IOS Services Geoscientifiques Inc.
1319 Bo-1, St. Pa-1
Chicoutimi PQ G7J-3Y2
Canada

ATTN: Rejean Girard

CERTIFICATE OF ANALYSIS

6602 Pulp samples were submitted for analysis.

The following analytical packages were requested: Code 2A-15g Humus INAA(INAAGEO)
Code 4F-LOI LOI
REPORT **A06-1824 (i)** Code UT-1-0.5g Aqua Regia ICP/MS

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

Notes:

Assays are recommended for values >10,000 for Cu and Au.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Eric Hoffman", written over a horizontal line.

Eric Hoffman, Ph.D.
President/General Manager

ACTIVATION LABORATORIES LTD.

Element: LOI
Units: %
Detection Limit:
Reference Method: FUS-ICP
Client I.D.
5901401
5901402
5901403
5901404
5901405
5901406
5901407
5901408
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Element: LOI
Units: %
Detection Limit:
Reference Method: FUS-ICP

- Client I.D.
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Element:	LOI
Units:	%
Detection Limit:	
Reference Method:	FUS-ICP
Client I.D.	
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5901547	
5901548	
5901549	
5901550	
5901551	
5901552	
5901553	24,9
5901554	21,06
5901555	23,17
5901556	36,05
5901557	94,13
5901558	36,94
5901559	0,27
5901560	32,53
5901561	17,99
5901562	29,19
5901563	31,17
5901564	25,8
5901565	11,69
5901566	12,14
5901567	41,26
5901568	29,16
5901569	34,55
5901570	31,84
5901571	44,58
5901572	32,97
5901573	27,23
5901574	19,38
5901575	16,25
5901576	45,47
5901577	40,36
5901578	36,04
5901579	27,91
5901580	5,89

**Preliminary Report
Activation Laboratories**

Analyte Symbol	LOI
Unit Symbol	%
Detection Limit	
Analysis Method	FUS-ICP
5901545	
5901581	28,44
5901582	30,98
5901583	38,44
5901584	49,26
5901585	29,68
5901586	49,95
5901587	26,12
5901588	27,67
5901589	27,56
5901590	25,76
5901591	17,6
5901592	32,58
5901593	0,03
5901594	24,41
5901595	23,85
5901596	22,31
5901597	25,42
5901598	37,07
5901599	22,03
5901600	26,13
5901601	33,38
5901603	20,31
5901604	28,87
5901605	33,22
5901606	26,01
5901607	37,01
5901608	19,13
5901609	11,52
5901610	17,49
5901611	13,45
5901612	17,1
5901613	25,49
5901614	26,09
5901615	27,59
5901616	27,06
5901617	29,41
5901618	30,59
5901619	26,03
5901620	25,69
5901621	19,23
5901622	51,48
5901623	38,69
5901624	32,71
5901625	31,95
5901626	27,93
5901627	25,93
5901628	25,49
5901629	20,6
5901630	15,88
5901631	38,75
5901632	13,5
5901633	11,84
5901634	35,89
5901635	42,27
5901636	18,6
5901637	8,099
5901638	23,42
5901639	22,54
5901640	96,91
5901641	25,9
5901642	19,97
5901643	8,338
5901644	18,9
5901645	14
5901646	26,06
5901647	35,46

**Preliminary Report
Activation Laboratories**

Analyte Symbol	LOI
Unit Symbol	%
Detection Limit	
Analysis Method	FUS-ICP
5901648	20,38
5901649	-0,08
5901650	32,76
5901651	21,79
5901652	37,85
5901653	8,139
5901654	30,41
5901655	39,66
5901656	32,48
5901657	25,85
5901658	24,77
5901659	45,56
5901660	32,77
5901661	30,94
5901662	29,77
5901663	53,45
5901664	2,266
5901665	-0,11
5901666	26,66
5901667	22,4
5901668	28,93
5901669	94,54
5901670	21,6
5901671	31,83
5901672	34,03
5901673	26,36
5901674	2,575
5901675	8,621
5901676	32,05
5901677	36,13
5901678	90,79
5901679	20,68
5901680	7,455
5901681	26,86
5901682	19,39
5901683	28,81
5901684	27,23
5901685	45,93
5901686	67,96
5901687	26,04
5901688	38,29
5901689	48,54
5901690	31,97
5901691	23,89
5901692	22,93
5901693	18,27
5901694	11,88
5901695	30,12
5901696	13,77
5901697	29,93
5901698	49,08
5901699	27,31
5901700	25,71
5901701	27,69
5901702	-0,18
5901703	6,748
5901704	7,695
5901705	16,79
5901706	23,24
5901707	26,55
5901708	25,65
5901709	44
5901710	46,94
5901711	26,98
5901712	23,01
5901713	36,87
5901714	26,82

**Preliminary Report
Activation Laboratories**

Analyte Symbol	LOI
Unit Symbol	%
Detection Limit	
Analysis Method	FUS-ICP
5901715	31.98
5901716	99.88
5901717	21.87
5901718	10.75
5901719	29.51
5901720	23.21
5901721	28.17
5901722	26.06
5901723	16.46
5901724	14.76
5901725	36.85
5901726	21.15
5901727	14.74
5901728	28.16
5901729	25.92
5901730	34.19
5901731	36.67
5901732	39.89
5901733	
5901734	
5901735	
5901736	
5901737	
5901738	
5901739	
5901740	
5901741	
5901742	
5901743	
5901744	
5901745	
5901746	
5901747	
5901748	
5901749	
5901750	
5901751	
5901752	
5901753	
5901754	
5901755	
5901756	
5901757	
5901758	
5901759	
5901760	
5901761	
5901762	
5901763	
5901764	
5901765	
5901766	
5901767	
5901768	
5901769	
5901770	
5901771	
5901772	
5901773	
5901774	
5901775	
5901776	
5901777	
5901778	
5901779	
5901780	
5901781	

**Preliminary Report
Activation Laboratories**

Analyte Symbol	LOI
Unit Symbol	%
Detection Limit	
Analysis Method	FUS-ICP
5901782	
5901783	
5901784	
5901785	
5901786	
5901787	
5901788	
5901789	
5901790	
5901791	
5901792	
5901793	
5901794	
5901795	
5901796	
5901797	
5901798	
5901799	
5901800	
5901801	
5901802	
5901803	
5901804	
5901805	
5901806	
5901807	
5901808	
5901809	
5901810	
5901811	
5901812	
5901813	
5901814	
5901815	
5901816	
5901817	
5901818	
5901819	
5901820	
5901821	
5901822	
5901823	
5901824	
5901825	
5901826	
5901827	
5901828	
5901829	
5901830	
5901831	
5901832	
5901833	
5901834	
5901835	
5901836	
5901837	
5901838	
5901839	
5901840	
5901841	
5901842	
5901843	
5901844	
5901845	
5901846	
5901847	
5901848	

**Preliminary Report
Activation Laboratories**

Analyte Symbol	LOI
Unit Symbol	%
Detection Limit	
<u>Analysis Method</u>	FUS-ICP
5901849	
5901850	
5901851	
5901852	
5901853	
5901854	
5901855	
5901856	
5901857	
5901858	
5901859	
5901860	
5901861	
5901862	
5901863	
5901864	
5901865	
5901866	
5901867	
5901868	
5901869	
5901870	
5901871	
5901872	
5901873	
5901874	
5901875	
5901876	
5901877	
5901878	
5901879	
5901880	
5901881	
5901882	
5901883	
5901884	
5901885	
5901886	
5901887	
5901888	
5901889	
5901890	
5901891	
5901892	
5901893	
5901894	
5901895	
5901896	
5901897	
5901898	
5901899	
5901900	
5901901	
5901902	
5901903	
5901904	
5901905	
5901906	
5901907	
5901908	
5901909	
5901910	
5901911	
5901912	
5901913	
5901914	
5901915	

**Preliminary Report
Activation Laboratories**

Analyte Symbol	LOI
Unit Symbol	%
Detection Limit	
Analysis Method	FUS-ICP
5901916	
5901917	
5901918	
5901919	
5901920	
5901921	
5901922	
5901923	
5901924	
5901925	
5901926	
5901927	
5901928	
5901929	
5901930	
5901931	
5901932	
5901933	
5901934	
5901935	
5901936	
5901937	
5901938	
5901939	
5901940	
5901941	
5901942	
5901943	
5901944	
5901945	
5901946	
5901947	
5901948	
5901949	
5901950	
5901951	
5901952	
5901953	
5901954	
5901955	
5901956	
5901957	
5901958	
5901959	
5901960	
5901961	
5901962	
5901963	
5901964	
5901965	
5901966	
5901967	
5901968	
5901969	
5901970	
5901971	
5901972	
5901973	
5901974	
5901975	
5901976	
5901977	
5901978	
5901979	
5901980	
5901981	
5901982	

**Preliminary Report
Activation Laboratories**

Analyte Symbol	LOI
Unit Symbol	%
Detection Limit	
Analysis Method	FUS-ICP
5901983	
5901984	
5901985	
5901986	
5901987	
5901988	
5901989	
5901990	
5901991	
5901992	
5901993	
5901994	
5901995	
5901996	
5901997	
5901998	
5901999	
5902000	
5902001	
5902002	
5902003	
5902004	
5902005	
5902006	
5902007	
5902008	
5902009	
5902010	
5902011	
5902012	
5902013	
5902014	
5902015	
5902016	
5902017	
5902018	
5902019	
5902020	
5902021	
5902022	
5902023	
5902024	
5902025	
5902026	
5902027	
5902028	
5902029	
5902030	
5902031	
5902032	
5902033	
5902034	
5902035	
5902036	
5902037	
5902038	
5902039	
5902040	
5902041	
5902042	
5902043	
5902044	
5902045	
5902046	
5902047	
5902048	
5902049	

**Preliminary Report
Activation Laboratories**

Analyte Symbol	LOI
Unit Symbol	%
Detection Limit	
Analysis Method	FUS-ICP
5902050	
5902051	
5902052	
5902053	
5902054	
5902055	
5902056	
5902057	
5902058	
5902059	
5902060	
5902061	
5902062	
5902063	
5902064	
5902065	
5902066	
5902067	
5902068	
5902069	
5902070	
5902071	
5902072	
5902073	
5902074	
5902075	
5902076	
5902077	
5902078	
5902079	
5902080	
5902081	
5902082	
5902083	
5902084	
5902085	
5902086	
5902087	
5902088	
5902089	
5902090	
5902091	
5902092	
5902093	
5902094	
5902095	
5902096	
5902097	
5902098	
5902099	
5902100	
5902101	
5902102	
5902103	
5902104	
5902105	
5902106	
5902107	
5902108	
5902109	
5902110	
5902111	
5902112	
5902113	
5902114	
5902115	
5902116	

**Preliminary Report
Activation Laboratories**

Analyte Symbol	LOI
Unit Symbol	%
Detection Limit	
Analysis Method	FUS-ICP

- 5902117
- 5902118
- 5902119
- 5902120
- 5902121
- 5902122
- 5902123
- 5902124
- 5902125
- 5902126
- 5902127
- 5902128
- 5902129
- 5902130
- 5902131
- 5902132
- 5902133
- 5902134
- 5902135
- 5902136
- 5902137
- 5902138
- 5902139
- 5902140
- 5902141
- 5902142
- 5902143
- 5902144
- 5902145
- 5902146
- 5902147
- 5902148
- 5902149
- 5902150
- 5902151
- 5902152
- 5902153
- 5902154
- 5902155
- 5902156
- 5902157
- 5902158
- 5902159
- 5902160
- 5902161
- 5902162
- 5902163
- 5902164
- 5902165
- 5902166
- 5902167
- 5902168
- 5902169
- 5902170
- 5902171
- 5902172
- 5902173
- 5902174
- 5902175
- 5902176
- 5902177
- 5902178
- 5902179
- 5902180
- 5902181
- 5902182
- 5902183

**Preliminary Report
Activation Laboratories**

Analyte Symbol	LOI
Unit Symbol	%
Detection Limit	
Analysis Method	FUS-ICP
5902184	
5902185	
5902186	
5902187	
5902188	
5902189	
5902190	
5902191	
5902192	
5902193	
5902194	
5902195	
5902196	
5902197	
5902198	
5902199	
5902200	
5902201	
5902202	
5902203	
5902204	
5902205	
5902206	
5902207	
5902208	
5902209	
5902210	
5902211	
5902212	
5902213	
5902214	
5902215	
5902216	
5902217	
5902218	
5902219	
5902220	
5902221	
5902222	
5902223	
5902224	
5902225	
5902226	
5902227	
5902228	
5902229	
5902230	
5902231	
5902232	
5902233	
5902234	
5902235	
5902236	
5902237	
5902238	
5902239	
5902240	
5902241	

Analyte Symbol	LOI
Unit Symbol	%
Detection Limit	0.01
Analysis Method	FUS-ICP
5902245	
5902246	
5902247	
5902248	
5902249	
5902250	
5902251	
5902252	
5902253	
5902254	
5902255	
5902256	
5902257	
5902258	
5902259	
5902260	
5902261	
5902262	
5902263	
5902264	
5902265	
5902266	
5902267	
5902268	
5902269	
5902270	
5902271	
5902272	
5902273	
5902274	
5902275	
5902276	
5902277	
5902278	
5902279	
5902280	
5902281	
5902282	
5902283	
5902284	
5902285	
5902286	
5902287	
5902288	
5902289	
5902290	
5902291	
5902292	
5902293	
5902294	
5902295	
5902296	
5902297	
5902298	
5902299	
5902300	
5902301	
5902302	
5902303	
5902304	
5902305	
5902306	
5902307	
5902308	58,39
5902309	30,29
5902310	47,31
5902311	39,38
5902312	
5902313	
5902314	
5902315	
5902316	
5902317	
5902318	

**Preliminary Report
Activation Laboratories**

Analyte Symbol	LOI
Unit Symbol	%
Detection Limit	
Analysis Method	FUS-ICP
5900125	
5900172	
5900306	
5900320	
5900347	
5900912	
5901009	
5901048	
5901186	
5901316	
5901339	
5901368	
5901602	40.63
5902242	
5902243	
5902244	
5920001	
5920002	
5920003	
5920004	
5920005	
5920006	
5920007	
5920008	
5920009	
5920010	
5920011	
5920012	
5920013	
5920014	
5920015	
5920016	
5920017	
5920018	
5920019	
5920020	
5920021	
5920022	
5920023	
5920024	
5920025	
5920026	
5920027	
5920028	
5920029	
5920030	
5920031	
5920032	
5920033	
5920034	
5920035	
5920036	
5920037	
5920038	
5920039	
5920040	
5920041	
5920042	
5920043	
5920044	
5920046	
5920046	
5920047	
5920048	
5920049	
5920050	
5920051	
5920052	
5920053	
5920054	

Preliminary Report
Activation Laboratories

Analyte Symbol	LOI
Unit Symbol	%
Detection Limit	
Analysis Method	FUS-ICP

- 59200125
- 5920055
- 5920056
- 5920057
- 5920058
- 5920059
- 5920060
- 5920061
- 5920062
- 5920063
- 5920064
- 5920065
- 5920066
- 5920067
- 5920068
- 5920069
- 5920070
- 5920071
- 5920072
- 5920073
- 5920074
- 5920075
- 5920076
- 5920077
- 5920078
- 5920079
- 5920080
- 5920081
- 5920082
- 5920083
- 5920084
- 5920085
- 5920086
- 5920087
- 5920088
- 5920089
- 5920090
- 5920091
- 5920092
- 5920093
- 5920094
- 5920095
- 5920096
- 5920097
- 5920098
- 5920099
- 5920100
- 5920101
- 5920102
- 5920103
- 5920104
- 5920105
- 5920106
- 5920107
- 5920108
- 5920109
- 5920110
- 5920111
- 5920112
- 5920113
- 5920114
- 5920115
- 5920116
- 5920117
- 5920118
- 5920119
- 5920120
- 5920121
- 5920122
- 5920123

**Preliminary Report
Activation Laboratories**

Analyte Symbol	LOI
Unit Symbol	%
Detection Limit	
Analysis Method	FUS-ICP
5920125	
5920124	
5920125	
5920126	
5920127	
5920128	
5920129	
5920130	
5920131	
5920132	
5920133	
5920134	
5920135	
5920136	
5920137	
5920138	
5920139	
5920140	
5920141	
5920142	
5920143	
5920144	
5920145	
5920146	
5920147	
5920148	
5920149	
5920150	
5920151	
5920152	
5920153	
5920154	
5920155	
5920156	
5920157	
5920158	
5920159	
5920160	
5920161	
5920162	
5920163	
5920164	
5920165	
5920166	
5920167	
5920168	
5920169	
5920170	
5920171	
5920172	
5920173	
5920174	
5920175	
5920176	
5920177	
5920178	
5920179	
5920180	
5920181	
5920182	
5920183	
5920184	
5920185	
5920186	
5920187	
5920188	
5920189	
5920190	
5920191	
5920192	

Preliminary Report
Activation Laboratories

Analyte Symbol	LOI
Unit Symbol	%
Detection Limit	
Analysis Method	FUS-ICP

- 5920125
- 5920193
- 5920194
- 5920195
- 5920196
- 5920197
- 5920198
- 5920199
- 5920200
- 5920201
- 5920202
- 5920203
- 5920204
- 5920205
- 5920206
- 5920207
- 5920208
- 5920209
- 5920210
- 5920211
- 5920212
- 5920213
- 5920214
- 5920215
- 5920216
- 5920217
- 5920218
- 5920219
- 5920220
- 5920221
- 5920222
- 5920223
- 5920224
- 5920225
- 5920226
- 5920227
- 5920228
- 5920229
- 5920230
- 5920231
- 5920232
- 5920233
- 5920234
- 5920235
- 5920236
- 5920237
- 5920238
- 5920239
- 5920240
- 5920241
- 5920242
- 5920243
- 5920244
- 5920245
- 5920246
- 5920247
- 5920248
- 5920249
- 5920250
- 5920251
- 5920252
- 5920253
- 5920254
- 5920255
- 5920256
- 5920257
- 5920258
- 5920259
- 5920260
- 5920261

Preliminary Report
Activation Laboratories

Analyte Symbol	LOI
Unit Symbol	%
Detection Limit	
Analysis Method	FUS-ICP
5920125	
5920262	
5920263	
5920264	
5920265	
5920266	
5920267	
5920268	
5920269	
5920270	
5920271	
5920272	
5920273	
5920274	
5920275	
5920276	
5920277	
5920278	
5920279	
5920280	
5920281	
5920282	
5920283	
5920284	
5920285	
5920286	
5920287	
5920288	
5920289	
5920290	
5920291	
5920292	
5920293	
5920294	
5920295	
5920296	
5920297	
5920298	
5920299	
5920300	
5920301	
5920302	
5920303	
5920304	
5920305	
5920306	
5920307	
5920308	
5920309	
5920310	
5920311	
5920312	
5920313	
5920314	
5920315	
5920316	
5920317	
5920318	
5920319	
5920320	
5920321	
5920322	
5920323	
5920324	
5920325	
5920326	
5920327	
5920328	
5920329	
5920330	

Preliminary Report
Activation Laboratories

Analyte Symbol	LOI
Unit Symbol	%
Detection Limit	
Analysis Method	FUS-ICP
5920125	
5920331	
5920332	
5920333	
5920334	
5920335	
5920336	
5920337	
5920338	
5920339	
5920340	
5920341	
5920342	
5920343	
5920344	
5920345	
5920346	
5920347	
5920348	
5920349	
5920350	
5920351	
5920352	
5920353	
5920354	
5920355	
5920356	
5920357	
5920358	
5920359	
5920360	
5920361	
5920362	
5920363	
5920364	
5920365	
5920366	
5920367	
5920368	
5920369	
5920370	
5920371	
5920372	
5920373	
5920374	
5920375	
5920376	
5920377	
5920378	
5920379	
5920380	
5920381	
5920382	
5920383	
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5920399	

Preliminary Report
Activation Laboratories

Analyte Symbol	LOI
Unit Symbol	%
Detection Limit	
Analysis Method	FUS-ICP
5900125	
5920400	
5920401	
5920402	
5960001	
5960002	
5960003	
5960004	
5960005	
5960006	
5960007	
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Preliminary Report
Activation Laboratories

Analyte Symbol	LOI
Unit Symbol	%
Detection Limit	
Analysis Method	FUS-ICP
5960125	
5960067	
5960068	
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APPENDIX 5
CENTILE DISTRIBUTION

Table 1: Centiles, ICP-MS analysis

Table 2: Centiles, INAA analysis

SAMPLE	ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																													
	Li	Be	B	Na	Mg	Al	K	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In
	ppm	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
155	0.1	0.1	1	0.001	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02
5901553	32,1	59,0	55,0	65,9	37,5	65,5	48,9	38,6	95,0	71,2	64,9	91,4	91,5	94,9	68,5	32,3	74,4	28,9	44,8	0,0	83,2	70,1	73,4	85,2	16,7	17,9	74,5	68,4	81,9	0,0
5901554	79,8	19,0	23,0	85,2	75,4	34,3	17,0	51,5	58,1	43,1	42,5	60,8	41,5	53,1	33,1	8,2	36,1	50,1	0,0	0,0	6,8	58,8	58,3	34,8	60,5	46,6	22,7	21,7	32,5	0,0
5901555	32,1	4,5	23,0	45,6	25,4	34,3	17,0	6,2	19,5	31,5	28,6	45,1	29,3	33,5	14,6	3,3	7,9	22,5	0,0	0,0	23,2	25,5	9,3	39,4	16,7	6,5	8,2	23,6	16,1	0,0
5901556	0,0	4,5	23,0	21,6	12,3	0,8	0,0	11,7	25,1	1,5	2,8	5,5	1,9	2,0	13,7	1,1	1,5	1,0	0,0	0,0	2,9	2,7	32,4	7,8	45,0	3,9	6,8	5,9	29,7	0,0
5901557	0,0	10,9	76,2	50,6	2,8	15,1	3,9	56,1	19,5	21,2	17,9	27,4	4,1	14,3	19,6	14,3	33,7	8,5	24,1	62,3	76,1	7,8	72,4	13,0	85,0	13,9	2,2	40,5	38,3	0,0
5901558	32,1	4,5	23,0	17,5	25,4	17,3	3,9	17,0	25,1	31,5	20,7	87,8	51,1	41,5	10,0	2,4	36,1	3,5	0,0	0,0	6,8	7,8	29,1	18,2	0,0	3,9	45,1	7,2	12,8	0,0
5901560	78,5	59,0	55,0	56,8	75,4	92,7	48,9	31,9	96,7	94,0	94,2	96,0	96,1	85,3	81,9	70,9	94,0	71,0	44,8	0,0	96,2	83,7	43,2	85,2	26,2	17,9	94,6	94,7	96,2	83,4
5901561	66,9	36,3	23,0	65,9	70,5	59,7	17,0	47,3	70,5	61,2	57,2	77,2	65,6	56,8	40,7	9,9	80,8	30,2	0,0	0,0	23,2	68,4	40,9	52,6	0,0	10,0	73,5	17,4	78,2	0,0
5901562	22,0	10,9	23,0	69,4	25,4	36,0	17,0	31,9	19,5	46,4	35,8	68,2	34,0	50,2	34,0	13,1	44,1	26,5	0,0	62,3	42,9	11,3	37,9	27,8	60,5	21,8	23,7	22,5	59,2	0,0
5901563	0,0	28,7	55,0	40,8	12,3	65,5	3,9	33,5	58,1	71,2	40,4	92,8	66,8	92,1	38,5	22,5	77,1	35,4	0,0	0,0	42,9	7,8	45,0	44,1	0,0	10,0	48,7	37,7	90,3	53,7
5901564	44,2	36,3	9,6	56,8	49,2	55,6	17,0	27,3	61,8	58,4	62,6	56,2	49,6	48,1	43,6	6,8	46,5	38,6	24,1	0,0	23,2	47,9	34,5	71,4	16,7	33,5	27,5	15,7	29,7	0,0
5901565	77,2	59,0	23,0	90,3	70,5	62,5	48,9	25,3	90,8	80,2	85,8	95,3	81,8	86,3	41,9	1,8	71,3	42,2	44,8	0,0	35,5	79,5	20,6	80,1	0,0	17,9	67,4	4,8	35,0	66,4
5901567	27,0	36,3	55,0	21,6	25,4	62,5	17,0	22,5	65,7	82,6	71,4	85,9	91,6	94,0	59,5	28,3	79,3	23,6	24,1	0,0	79,0	35,5	31,5	65,8	26,2	30,1	91,7	75,7	85,8	0,0
5901568	71,9	19,0	23,0	91,9	83,9	53,3	48,9	67,1	88,9	89,7	70,8	91,0	88,6	93,4	91,0	27,7	80,0	66,5	44,8	0,0	64,8	74,3	79,1	43,8	60,5	71,1	84,9	55,9	79,2	53,7
5901569	58,9	10,9	76,2	85,2	70,5	55,6	48,9	59,1	85,4	90,3	63,0	94,8	88,2	85,3	37,2	24,5	68,3	68,0	24,1	0,0	35,5	66,7	65,9	48,7	26,2	49,5	50,3	58,5	66,5	66,4
5901570	0,0	4,5	9,6	14,3	12,3	14,1	3,9	10,2	0,0	21,2	21,4	20,4	21,2	17,8	15,6	15,6	79,2	12,5	0,0	0,0	6,8	7,8	10,1	6,3	0,0	10,0	17,1	44,5	16,1	0,0
5901571	0,0	10,9	23,0	35,2	25,4	26,9	3,9	33,5	0,0	26,5	24,3	27,4	10,8	36,0	34,0	14,0	12,8	16,2	0,0	0,0	6,8	1,4	43,7	16,6	60,5	17,9	3,0	20,7	19,0	0,0
5901572	0,0	4,5	9,6	50,6	12,3	3,9	17,0	22,5	0,0	6,1	12,5	21,6	11,6	14,3	11,4	2,9	6,0	8,5	0,0	0,0	2,9	15,8	35,6	2,2	16,7	10,0	1,2	14,3	10,4	0,0
5901574	32,1	19,0	0,0	21,6	37,5	54,5	17,0	0,7	77,0	81,5	44,7	99,3	96,0	96,2	4,1	6,5	35,7	57,9	44,8	0,0	35,5	31,0	0,4	56,5	16,7	2,3	52,5	36,4	0,0	66,4
5901575	52,5	43,5	9,6	25,1	37,5	73,5	17,0	1,1	95,9	99,2	74,1	99,7	99,7	99,6	37,2	11,2	50,8	67,6	44,8	0,0	35,5	35,5	2,4	72,3	26,2	2,3	75,7	26,3	0,0	83,4
5901576	0,0	10,9	9,6	61,4	12,3	12,3	3,9	6,2	42,5	21,2	12,5	65,7	25,4	20,6	13,7	14,7	2,4	19,2	0,0	62,3	16,7	11,3	14,7	15,2	26,2	33,5	27,9	67,7	16,1	0,0
5901577	0,0	4,5	23,0	40,8	2,8	7,7	3,9	3,7	19,5	21,2	15,9	13,2	10,2	2,0	15,6	19,1	0,9	14,3	0,0	62,3	23,2	4,8	10,3	6,0	26,2	17,9	5,9	57,7	0,0	0,0
5901578	40,3	48,2	23,0	45,6	37,5	75,9	17,0	45,6	58,1	96,4	67,9	68,7	77,5	62,8	39,5	3,0	59,5	88,1	24,1	0,0	54,7	35,5	48,7	62,1	26,2	55,0	66,3	73,9	74,7	66,4
5901580	64,7	10,9	0,0	87,4	70,5	32,3	17,0	35,9	85,4	62,3	32,0	66,8	55,0	59,3	3,4	14,1	18,6	44,0	0,0	0,0	6,8	43,8	2,9	40,0	60,5	52,3	24,4	5,1	0,0	53,7
5901581	17,3	4,5	23,0	45,6	2,8	15,1	3,9	4,8	25,1	29,2	33,9	13,2	10,8	23,8	40,7	7,1	2,6	17,2	24,1	73,3	69,0	11,3	3,9	17,6	78,9	30,1	58,5	42,0	10,4	0,0
5901582	64,7	43,5	76,2	65,9	37,5	70,4	3,9	68,5	68,0	83,6	64,2	64,9	60,8	64,2	57,6	13,7	63,7	62,2	24,1	0,0	54,7	39,8	65,0	65,5	26,2	46,6	60,2	22,5	70,7	66,4
5901583	73,8	28,7	55,0	72,5	57,4	66,9	17,0	64,6	70,5	89,7	65,3	60,2	63,3	63,7	29,0	18,6	41,1	83,4	24,1	0,0	81,2	55,4	72,4	57,7	45,0	65,2	65,1	68,8	63,0	66,4
5901584	32,1	28,7	76,2	8,4	2,8	70,8	3,9	29,7	34,8	49,7	52,4	17,0	41,0	23,8	41,9	21,1	43,3	39,2	24,1	62,3	81,2	31,0	47,8	52,7	26,2	40,3	11,2	81,5	63,0	53,7
5901585	22,0	28,7	23,0	10,5	12,3	51,1	3,9	22,5	0,0	46,4	48,5	27,4	24,0	33,5	20,9	12,8	14,6	45,9	0,0	62,3	54,7	15,8	34,5	38,4	0,0	21,8	12,2	72,2	41,8	0,0
5901586	0,0	19,0	88,1	10,5	37,5	54,5	0,0	83,0	25,1	58,4	24,3	26,4	56,0	64,2	38,5	25,2	43,5	55,6	0,0	0,0	60,5	7,8	90,7	35,0	26,2	30,1	85,2	73,3	50,5	0,0
5901588	36,2	1,8	23,0	6,2	12,3	11,6	0,0	14,5	0,0	11,2	13,1	17,9	8,7	4,8	18,1	5,9	0,9	21,8	0,0	73,3	28,7	31,0	8,9	11,4	0,0	10,0	3,3	52,8	8,9	0,0
5901589	0,0	4,5	23,0	1,0	0,3	13,2	0,0	4,8	0,0	15,0	7,2	1,1	1,9	4,8	9,3	10,6	0,8	18,5	0,0	57,4	28,7	4,8	12,7	16,3	0,0	6,5	2,0	47,1	10,4	0,0
5901590	71,9	48,8	23,0	45,6	49,2	73,5	17,0	22,5	74,4	80,2	53,6	95,5	91,6	94,5	42,7	18,9	64,7	66,8	24,1	73,3	64,8	55,4	16,5	58,3	26,2	21,8	43,2	43,5	86,7	83,4
5901591	32,1	28,7	23,0	10,5	12,3	63,4	17,0	18,8	74,4	49,7	43,0	92,1	87,3	76,7	24,0	9,1	61,8	19,3	24,1	0,0	49,1	43,8	39,8	54,7	16,7	6,5	90,8	37,7	76,0	0,0
5901592	27,0	10,9	76,2	6,2	12,3	46,5	0,0	53,5	0,0	44,8	30,0	10,7	28,4	46,7	52,9	5,9	32,1	23,6	0,0	0,0	35,5	7,8	71,2	49,0	45,0	21,8	53,6	20,7	38,3	0,0
5901594	22,0	4,5	23,0	8,4	12,3	19,6	0,0	31,9	0,0	18,6	20,1	7,4	7,4	36,0	38,5	4,0	15,2	14,6	0,0	0,0	16,7	4,8	55,2	25,9	26,2	13,9	52,8	18,3	23,5	0,0
5901595	14,9	4,5	23,0	8,4	2,8	6,5	3,9	25,3	0,0	3,5	41,2	2,4	1,2	17,8	52,9	2,4	7,1	6,3	0,0	0,0	16,7	11,3	45,0	14,8	16,7	10,0	52,0	11,2	16,1	0,0
5901596	58,9	19,0	76,2	80,5	57,4	68,1	48,9	47,3	77,0	59,8	58,5	89,9	87,0	79,3	32,0	10,9	60,0	43,2	24,1	0,0	60,5	58,8	66,4	60,0	16,7	21,8	91,0	35,5	76,0	0,0
5901597	27,0	10,9	76,2	6,2	37,5	61,2	48,9	60,2	25,1	48,1	46,8	57,9	69,6	71,4	48,4	2,1	40,7	18,7	0,0	0,0	11,8	25,5	83,4	35,4	0,0	10,0	63,1	16,7	38,3	0,0
5901598	52,5	43,5	93,7	21,6	37,5	89,0	17,0	65,9	74,4	83,6	89,5	89,0	87,3	78,5	46,0	25,1	60,9	68,4	24,1	0,0	91,0	43,8	86,3	86,2	26,2	40,3	84,4	72,0	85,8	66,4
5901599	44,2	4,5	55,0	10,5	25,4	32,3	0,0	38,6	0,0	15,0	19,3	17,0	10,2	38,0	14,6	3,8	9,7	29,6	0,0	0,0										

SAMPLE	ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																												
	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	TI	Pb	Bi	Th	U
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
155	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.02	0.1	0.1
5901553	9.7	0.0	0.0	52.6	95.9	66.4	44.4	70.2	72.3	74.8	75.3	74.5	75.8	81.4	82.7	86.5	83.0	86.8	88.8	0.0	0.0	0.0	0.0	0.0	90.3	9.1	0.0	62.2	88.2
5901554	60.1	0.0	0.0	52.6	52.8	20.8	14.1	23.7	26.0	27.8	28.5	28.9	27.7	32.8	33.3	34.0	16.9	34.1	24.8	0.0	0.0	0.0	45.7	0.0	29.7	7.3	0.0	15.9	48.4
5901555	21.0	53.7	0.0	24.6	15.1	20.3	11.9	26.9	30.6	33.4	33.8	33.4	27.7	36.8	33.3	37.9	35.4	37.0	24.8	0.0	0.0	0.0	0.0	0.0	10.7	49.2	0.0	0.0	49.8
5901556	5.7	0.0	0.0	0.0	46.9	2.6	1.0	2.7	2.9	3.4	2.5	3.3	2.0	4.3	2.3	5.8	8.2	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	39.1	0.0	1.3
5901557	57.2	70.1	0.0	20.4	68.4	2.7	2.8	3.1	3.8	3.9	5.6	4.6	2.0	9.3	6.0	13.2	16.9	14.2	12.9	0.0	0.0	0.0	0.0	83.6	0.0	45.5	80.7	15.9	2.1
5901558	0.0	0.0	0.0	0.0	69.9	8.2	6.3	9.2	10.0	9.6	9.8	10.0	6.5	13.4	12.8	15.5	16.9	14.2	12.9	0.0	0.0	0.0	45.7	0.0	46.5	0.3	95.3	0.0	85.2
5901560	27.4	53.7	0.0	88.0	85.4	72.0	54.2	74.7	76.0	76.4	86.7	79.8	79.2	83.7	82.7	85.2	83.0	85.3	84.0	0.0	0.0	0.0	74.1	0.0	82.3	26.7	0.0	67.3	91.5
5901561	12.4	0.0	0.0	58.1	44.8	29.5	23.6	35.3	38.1	39.9	47.1	40.7	41.1	46.4	44.5	49.5	49.4	51.3	43.6	0.0	0.0	0.0	0.0	83.6	46.5	4.0	0.0	15.9	61.5
5901562	61.7	78.3	0.0	10.9	34.4	21.8	15.6	24.2	25.1	24.9	28.5	24.4	20.7	27.2	26.6	28.9	16.9	28.0	24.8	0.0	0.0	0.0	0.0	0.0	29.7	70.6	0.0	26.8	53.0
5901563	33.7	88.4	0.0	0.0	76.0	40.0	43.0	42.2	42.4	41.8	47.1	42.3	35.0	43.8	39.4	43.6	35.4	43.3	43.6	0.0	0.0	0.0	45.7	0.0	76.8	86.9	39.1	26.8	68.6
5901564	22.4	42.2	0.0	35.1	45.0	73.8	46.4	71.2	71.6	67.1	70.7	67.1	62.6	64.9	67.0	67.4	61.8	61.7	59.5	0.0	0.0	0.0	0.0	0.0	17.6	7.6	47.7	15.9	45.7
5901565	71.2	70.1	0.0	58.1	75.1	69.1	51.4	72.9	74.7	72.2	75.3	73.2	70.3	73.9	76.4	78.0	78.1	77.4	78.4	0.0	0.0	0.0	0.0	0.0	66.7	70.9	28.0	43.6	48.4
5901566	3.5	70.1	0.0	20.4	28.6	52.6	29.2	49.3	48.7	47.8	47.1	50.8	47.2	56.0	59.9	62.7	61.8	63.3	59.5	0.0	0.0	0.0	45.7	0.0	71.2	10.4	65.7	26.8	44.3
5901568	55.5	42.2	0.0	66.5	89.4	33.8	26.0	36.7	36.6	37.6	42.8	38.0	35.0	41.8	44.5	45.7	35.4	46.1	43.6	0.0	0.0	0.0	74.1	0.0	89.2	26.9	47.7	73.7	53.0
5901569	55.5	53.7	0.0	61.4	90.6	31.4	25.1	35.9	36.8	38.7	47.1	39.9	41.1	44.9	44.5	49.5	49.4	51.3	43.6	0.0	0.0	0.0	45.7	80.6	66.7	43.6	54.1	43.6	60.3
5901570	99.9	95.2	0.0	0.0	31.8	2.4	2.4	3.6	3.9	4.5	5.6	4.6	2.0	5.4	6.0	5.8	8.2	7.8	0.0	0.0	0.0	45.7	0.0	0.0	0.9	85.5	0.0	9.8	
5901571	60.1	70.1	0.0	0.0	62.3	6.3	4.7	8.1	9.3	11.0	14.5	10.6	6.5	14.8	12.8	15.5	16.9	14.2	12.9	0.0	0.0	0.0	0.0	0.0	7.1	86.4	26.8	5.4	
5901572	29.2	53.7	0.0	0.0	16.0	1.0	0.9	1.2	1.3	1.2	1.0	1.3	1.2	1.9	1.2	1.7	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	32.8	85.5	0.0	0.5	
5901574	67.3	78.3	0.0	42.1	3.0	41.1	36.4	44.2	45.0	47.1	47.1	48.7	47.2	55.6	54.9	58.7	49.4	59.8	59.5	0.0	0.0	0.0	74.1	0.0	69.3	95.1	47.7	43.6	38.2
5901575	17.2	42.2	0.0	55.6	58.0	52.4	59.8	60.7	63.0	66.8	65.6	69.4	70.3	74.9	76.4	78.7	78.1	79.3	78.4	0.0	0.0	0.0	45.7	0.0	93.1	52.5	0.0	83.5	51.3
5901576	51.9	53.7	0.0	31.5	15.5	10.7	8.7	9.2	8.9	9.6	5.6	9.1	6.5	13.2	12.8	15.5	8.2	14.2	12.9	0.0	0.0	0.0	0.0	0.0	33.7	87.0	15.9	58.1	
5901577	29.2	53.7	0.0	17.2	12.9	5.6	4.5	4.3	4.3	3.9	2.5	3.8	2.0	5.6	6.0	5.8	8.2	5.0	0.0	0.0	0.0	45.7	0.0	0.0	31.4	87.0	0.0	5.4	
5901578	35.9	42.2	0.0	52.6	51.6	49.8	44.7	55.2	55.8	58.6	58.2	60.2	58.2	62.7	63.3	64.1	61.8	63.3	59.5	0.0	0.0	0.0	45.7	84.7	46.5	29.3	67.7	15.9	81.4
5901580	57.2	0.0	0.0	45.3	1.4	21.6	22.1	26.5	29.4	32.9	28.5	35.4	35.0	40.4	39.4	41.7	35.4	43.3	43.6	0.0	0.0	0.0	0.0	80.6	29.7	14.7	0.0	67.3	61.5
5901581	67.3	70.1	99.8	20.4	38.6	9.8	7.7	10.1	10.8	11.5	9.8	14.7	13.9	17.5	12.8	18.4	16.9	17.7	12.9	0.0	0.0	0.0	0.0	0.0	17.6	14.7	77.0	43.6	41.8
5901582	40.4	53.7	0.0	42.1	32.8	48.2	38.6	54.8	57.0	60.0	62.3	63.6	62.6	63.7	63.3	64.1	61.8	63.3	59.5	0.0	0.0	0.0	0.0	0.0	38.8	8.5	0.0	26.8	95.3
5901583	71.2	42.2	0.0	72.8	37.5	42.7	30.6	46.4	49.1	49.8	51.2	52.2	53.4	55.4	54.9	57.2	49.4	57.6	59.5	0.0	0.0	0.0	45.7	0.0	46.5	26.0	0.0	26.8	99.7
5901584	42.4	53.7	99.3	42.1	56.5	37.7	24.2	39.9	41.9	41.8	47.1	43.5	47.2	50.8	49.8	53.5	49.4	53.3	43.6	0.0	0.0	0.0	0.0	0.0	29.7	13.4	73.7	26.8	82.9
5901585	17.2	0.0	0.0	27.9	30.3	26.9	18.0	32.6	35.9	36.7	33.8	35.4	27.7	38.2	33.3	37.9	35.4	37.0	24.8	0.0	0.0	0.0	0.0	0.0	10.7	3.3	22.9	0.0	90.6
5901586	35.9	42.2	96.6	24.6	52.3	27.3	21.3	26.9	27.6	26.2	28.5	28.0	27.7	31.2	33.3	34.0	35.4	34.1	24.8	0.0	0.0	0.0	89.8	0.0	53.5	7.1	69.2	15.9	99.6
5901588	44.6	53.7	97.6	42.1	12.6	6.0	3.9	6.0	6.7	7.7	5.6	7.5	6.5	11.2	6.0	10.3	8.2	10.8	12.9	0.0	0.0	0.0	45.7	0.0	10.7	44.6	61.7	0.0	23.4
5901589	14.8	0.0	95.9	9.6	30.7	7.4	3.5	7.2	8.3	8.3	5.6	10.0	6.5	14.5	12.8	15.5	16.9	14.2	12.9	0.0	0.0	0.0	45.7	82.1	0.0	2.4	22.9	0.0	15.5
5901590	96.7	97.9	0.0	66.5	25.2	33.6	29.7	39.9	42.7	44.8	42.8	48.7	47.2	53.9	54.9	58.7	49.4	59.8	59.5	0.0	0.0	0.0	0.0	0.0	66.7	99.7	0.0	55.5	62.3
5901591	9.7	0.0	95.9	27.9	67.5	24.4	13.8	30.7	33.2	35.3	38.3	38.6	41.1	46.1	49.8	53.5	49.4	54.9	43.6	0.0	0.0	0.0	0.0	0.0	87.3	2.5	0.0	43.6	85.9
5901592	42.4	42.2	95.9	10.9	36.1	31.8	15.9	37.8	41.4	41.8	42.8	44.5	41.1	46.0	44.5	49.5	49.4	51.3	43.6	0.0	0.0	0.0	89.8	0.0	38.8	5.6	54.1	15.9	95.0
5901594	44.6	0.0	0.0	10.9	20.7	15.0	6.9	16.7	18.8	19.9	19.5	22.1	20.7	23.5	19.4	23.4	16.9	24.1	24.8	0.0	0.0	0.0	45.7	0.0	17.6	0.8	0.0	0.0	71.2
5901595	22.4	0.0	0.0	0.0	6.0	11.1	4.8	11.7	11.8	11.9	9.8	13.5	6.5	15.1	12.8	13.2	8.2	10.8	12.9	0.0	0.0	0.0	74.1	0.0	0.0	2.7	0.0	0.0	82.7
5901596	31.5	42.2	0.0	52.6	75.1	32.1	17.7	37.0	39.0	41.8	42.8	44.0	47.2	51.3	54.9	57.2	49.4	59.8	59.5	0.0	0.0	0.0	45.7	0.0	76.8	5.3	0.0	26.8	91.4
5901597	2.7	0.0	0.0	13.8	29.1	9.4	3.6	12.8	15.0	16.2	19.5	20.4	20.7	24.8	26.6	31.4	16.9	34.1	24.8	0.0	0.0	0.0	0.0	0.0	38.8	0.7	0.0	0.0	51.3
5901598	35.9	42.2	0.0	52.6	67.3	56.3	24.5	61.5	64.7	69.2	75.3	74.2	75.8	81.9	82.7	86.0	83.0	85.3	84.0	0.0	0.0	0.0	0.0	0.0	58.1	11.7	0.0	26.8	75.2
5901599	46.2	0.0	96.6	45.3	8.6	8.6	4.5	10.8	12.2	13.5	14.5	15.3	13.9	16.1	12.8	15.5	16.9	14.2	12.9	0.0	0.0	0.0	0.0	0.0	10.7	8.5	0.0	15.9	81.1
5901601	14.8	42.2	0.0	31.5	21.1	14.1	5.2	16.2	17.9	20.9	28.5	24.4	27.7	32.3	33.3	35.9	35.4	34.1	24.8	0.0	0.0	0.0	45.7	0.0	0.0	10.8	0.0	15.9	56.7
5901602	35.9	88.4	0.0	52.6	54.7	62.5	44.1	64.0	65.3	70.5	75.3	73.6	79.2	82.1	82.7	84.4	83.0												

SAMPLE	ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																													
	Li	Be	B	Na	Mg	Al	K	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In
	ppm	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
155	0.1	0.1	1	0.001	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02
5901610	32,1	4,5	9,6	2,9	12,3	7,7	0,0	11,7	0,0	8,7	8,7	22,5	4,7	23,8	3,8	0,7	1,3	8,2	0,0	0,0	11,8	11,3	18,2	25,0	26,2	2,3	6,7	7,8	8,9	0,0
5901611	86,1	48,8	9,6	75,7	78,5	67,6	84,8	35,9	93,8	85,3	90,8	77,2	86,4	72,9	71,8	32,0	84,0	51,3	44,8	0,0	42,9	89,8	9,3	78,8	60,5	49,5	54,7	15,7	74,7	53,7
5901612	82,3	48,8	23,0	8,4	57,4	77,3	17,0	11,7	95,3	86,6	84,4	99,3	99,3	96,5	39,5	31,1	61,4	59,4	73,9	0,0	79,0	70,1	8,9	79,4	45,0	33,5	67,4	49,2	72,2	66,4
5901613	77,2	43,5	93,7	80,5	64,2	68,6	17,0	79,4	74,4	90,3	85,6	67,7	81,8	80,0	70,6	26,2	72,3	48,7	44,8	0,0	49,1	63,8	96,4	70,1	26,2	46,6	76,9	30,5	52,4	53,7
5901615	27,0	19,0	23,0	4,3	12,3	36,8	0,0	51,5	0,0	31,5	45,6	46,6	22,3	36,0	27,3	10,3	16,7	28,2	0,0	57,4	42,9	21,1	28,0	31,7	16,7	13,9	16,0	59,2	44,4	0,0
5901616	14,9	4,5	9,6	75,7	25,4	6,5	3,9	29,7	0,0	26,5	15,9	23,5	12,3	10,7	2,7	3,9	1,9	17,2	0,0	62,3	16,7	21,1	37,9	3,4	26,2	33,5	1,7	45,6	16,1	0,0
5901617	22,0	1,8	23,0	30,1	25,4	8,4	3,9	40,8	0,0	29,2	25,3	38,6	11,6	33,5	13,1	3,7	12,8	15,6	0,0	0,0	11,8	7,8	60,8	4,4	16,7	13,9	12,6	22,5	32,5	0,0
5901618	22,0	10,9	23,0	6,2	25,4	55,0	3,9	22,5	0,0	68,6	52,9	75,5	60,8	72,5	43,6	7,7	55,6	27,6	0,0	0,0	54,7	11,3	28,7	32,2	0,0	13,9	20,2	20,7	55,0	0,0
5901619	0,0	0,0	23,0	2,9	12,3	3,9	0,0	31,9	0,0	6,1	32,0	11,8	7,4	10,7	15,6	4,3	2,6	10,0	0,0	0,0	16,7	1,4	49,1	1,9	45,0	6,5	2,5	42,6	10,4	0,0
5901621	0,0	0,0	9,6	2,9	12,3	5,3	0,0	25,3	0,0	11,2	6,5	25,6	7,4	26,6	0,7	2,8	4,6	12,0	0,0	0,0	2,9	7,8	24,7	2,0	0,0	3,9	1,4	31,5	16,1	0,0
5901622	14,9	4,5	23,0	6,2	12,3	30,0	0,0	35,9	0,0	31,5	38,5	17,9	15,7	33,5	48,4	13,0	12,2	24,5	0,0	57,4	42,9	2,7	57,9	20,6	26,2	17,9	2,9	37,7	32,5	0,0
5901623	17,3	10,9	76,2	10,5	25,4	47,9	0,0	74,4	0,0	59,8	46,8	47,1	34,9	69,6	37,2	15,8	43,1	26,9	0,0	0,0	49,1	4,8	80,0	27,5	16,7	17,9	9,2	48,4	67,8	0,0
5901624	66,9	19,0	23,0	90,3	78,5	56,3	74,7	76,5	77,0	82,6	51,0	92,3	80,4	91,2	29,0	6,9	82,4	69,2	0,0	0,0	23,2	43,8	62,5	34,3	26,2	30,1	18,2	21,7	97,4	66,4
5901625	27,0	4,5	76,2	69,4	25,4	26,3	3,9	35,9	0,0	46,4	23,8	79,4	35,6	65,0	22,9	3,2	36,1	29,0	0,0	62,3	28,7	15,8	47,3	16,1	0,0	6,5	5,6	17,4	74,7	0,0
5901626	55,7	10,9	55,0	72,5	64,2	53,9	3,9	61,9	58,1	82,6	61,4	91,6	65,6	87,0	33,1	8,9	74,0	53,8	0,0	0,0	28,7	31,0	62,8	34,3	0,0	21,8	21,1	27,1	85,8	0,0
5901628	36,2	10,9	23,0	65,9	25,4	28,4	3,9	29,7	19,5	49,7	35,8	20,4	32,7	41,5	29,0	1,2	26,8	29,8	0,0	0,0	54,7	15,8	63,7	31,1	70,9	21,8	35,9	13,3	47,9	0,0
5901629	0,0	4,5	55,0	8,4	0,3	11,6	0,0	22,5	68,0	8,7	15,9	1,7	7,4	49,5	37,2	0,8	34,5	1,3	0,0	0,0	49,1	1,4	68,4	51,9	70,9	2,3	60,8	6,9	47,9	0,0
5901630	52,5	28,7	88,1	17,5	37,5	51,7	17,0	22,5	74,4	72,6	63,0	98,2	87,7	85,0	53,6	2,2	61,3	16,9	24,1	0,0	60,5	43,8	53,6	62,8	16,7	0,6	76,4	12,1	57,3	0,0
5901631	81,0	28,7	99,0	97,8	49,2	75,6	48,9	86,1	78,9	98,9	83,4	57,9	89,9	91,9	36,0	24,7	41,6	68,0	24,1	90,8	92,3	43,8	94,1	57,1	60,5	65,2	99,3	77,4	67,8	66,4
5901632	17,3	19,0	9,6	0,6	2,8	57,3	0,0	1,1	68,0	66,0	66,5	90,4	94,0	91,8	20,9	4,0	10,5	30,4	24,1	0,0	42,9	2,7	5,4	56,4	26,2	6,5	80,1	23,6	0,0	0,0
5901634	36,2	19,0	55,0	6,2	12,3	40,0	3,9	25,3	0,0	40,2	36,9	21,6	21,2	33,5	19,6	8,3	16,2	29,5	0,0	0,0	42,9	15,8	35,9	39,4	26,2	25,8	13,7	57,3	41,8	0,0
5901635	14,9	28,7	55,0	50,6	12,3	27,9	0,0	38,6	0,0	40,2	22,1	10,7	16,7	56,0	22,9	6,2	19,9	12,8	24,1	0,0	60,5	7,8	80,4	69,1	26,2	13,9	30,3	33,6	35,0	0,0
5901636	79,8	63,4	55,0	78,4	57,4	66,0	48,9	27,3	74,4	63,4	66,5	55,0	59,0	41,5	11,4	5,7	41,5	49,8	44,8	0,0	60,5	61,4	23,6	86,2	26,2	30,1	59,5	22,5	26,6	53,7
5901637	97,4	54,4	55,0	98,3	93,5	62,5	96,1	83,0	98,5	86,6	91,3	83,7	75,3	76,0	81,4	54,6	59,6	76,8	44,8	0,0	35,5	96,6	59,3	83,9	85,0	75,9	75,9	8,3	35,0	83,4
5901638	40,3	4,5	23,0	80,5	25,4	6,2	3,9	25,3	61,8	6,1	34,7	8,5	4,7	17,8	15,6	0,4	3,7	11,5	0,0	0,0	16,7	35,5	35,1	30,8	60,5	25,8	22,4	4,8	0,0	0,0
5901639	79,8	4,5	55,0	95,8	78,5	31,2	74,7	65,9	83,0	58,4	55,1	61,5	55,6	53,1	7,2	4,6	17,9	78,6	0,0	0,0	16,7	75,5	62,3	35,0	94,2	83,4	13,1	9,5	0,0	53,7
5901640	0,0	0,0	55,0	78,4	12,3	0,3	0,0	40,8	0,0	0,6	15,0	58,7	3,4	0,1	1,1	0,2	29,9	0,7	0,0	57,4	54,7	2,7	33,9	0,2	78,9	0,6	0,8	5,9	32,5	0,0
5901642	40,3	48,8	76,2	78,4	12,3	40,0	3,9	51,5	48,9	66,0	46,3	81,7	79,0	80,7	41,9	9,1	15,9	43,5	0,0	57,4	42,9	39,8	95,0	42,9	16,7	6,5	77,7	35,5	12,8	53,7
5901643	78,5	19,0	9,6	87,4	70,5	52,0	48,9	18,8	78,9	66,0	50,5	64,6	55,3	80,1	8,5	2,3	24,0	70,6	0,0	0,0	11,8	58,8	3,1	43,8	45,0	37,3	33,0	17,4	0,0	66,4
5901644	0,0	4,5	23,0	92,5	12,3	3,1	17,0	22,5	54,1	11,2	78,5	18,7	4,7	7,6	49,4	0,3	0,3	14,3	0,0	0,0	2,9	31,0	24,7	3,1	60,5	49,5	14,0	4,4	0,0	0,0
5901645	40,3	1,8	0,0	56,8	12,3	15,9	17,0	0,3	42,5	34,3	36,9	7,4	42,9	7,6	7,2	1,3	0,4	54,9	0,0	62,3	6,8	55,4	0,8	14,9	0,0	6,5	2,5	26,3	0,0	0,0
5901646	52,5	4,5	23,0	82,3	37,5	16,5	17,0	25,3	34,8	29,2	36,4	30,7	15,0	17,8	11,4	11,6	3,4	44,0	0,0	0,0	6,8	58,8	38,7	12,3	45,0	37,3	5,5	49,8	19,0	0,0
5901647	52,5	19,0	9,6	75,7	12,3	35,4	3,9	17,0	0,0	11,2	10,8	4,9	1,2	17,8	47,8	17,9	11,9	28,7	0,0	0,0	42,9	25,5	55,9	48,0	60,5	30,1	3,8	47,8	35,0	0,0
5901648	36,2	4,5	9,6	65,9	28,1	10,9	3,9	17,0	0,0	11,2	3,4	6,6	4,1	10,7	7,2	4,2	94,2	18,1	0,0	0,0	11,8	31,0	59,3	16,3	16,7	6,5	9,6	26,3	0,0	0,0
5901650	89,4	59,0	76,2	83,8	70,5	84,4	84,8	68,5	87,5	87,5	71,0	95,2	91,0	86,9	62,3	35,1	76,7	88,2	44,8	0,0	83,2	93,2	91,4	88,9	26,2	21,8	82,1	84,9	88,7	83,4
5901651	58,9	43,5	9,6	10,5	37,5	61,8	48,9	10,2	70,5	74,4	67,3	87,9	70,6	77,3	42,7	11,8	66,1	54,0	0,0	0,0	42,9	76,9	13,9	45,0	16,7	17,9	48,7	57,7	80,7	53,7
5901652	22,0	4,5	23,0	2,9	2,8	28,4	0,0	11,7	19,5	11,2	23,8	4,2	6,6	29,0	64,1	8,0	19,2	14,8	0,0	0,0	54,7	25,5	39,8	49,5	26,2	17,9	27,5	56,4	35,0	0,0
5901653	98,5	54,4	23,0	92,5	92,9	61,8	96,1	51,5	99,5	92,4	93,8	95,2	96,5	85,9	65,7	76,3	66,3	66,2	73,9	0,0	42,9	98,3	39,8	92,7	78,9	49,5	74,6	59,6	23,5	53,7
5901654	55,7	48,8	23,0	17,5	37,5	69,1	3,9	61,9	74,4	95,0	67,1	62,0	71,7	65,9	26,0	20,9	58,5	76,5	24,1	0,0	60,5	43,8	82,0	60,3	26,2	52,3	54,7	62,4	76,0	66,4
5901655	17,3	48,8	88,1	80,5	25,4	59,2	3,9	86,1	25,1	62,3	40,4	68,0	36,2	63,3	43,6	10,9	40,7	28,2	24,1	0,0	60,5	11,3	64,7	68,4	0,0	30,1	50,5	8,3	73,1	0,0
5901656	36,2	63,4	55,0	14,3	25,4	73,5	3,9	38,6	42,5	63,4	62,1	52,8	64,6	50,2	44,8	12,1	45,0	40,9	24,1	57,4	54,7	21,1	28,							

SAMPLE	ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																												
	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Bi	Th	U
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm
155	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.02	0.1	0.1
5901610	8.4	0.0	0.0	20.4	3.8	9.4	3.0	13.9	16.8	20.9	19.5	22.1	20.7	23.1	19.4	26.3	16.9	24.1	24.8	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	78.7	
5901611	61.7	0.0	0.0	88.0	8.5	58.5	66.6	64.1	67.2	71.6	70.7	73.6	73.0	75.9	76.4	79.4	78.1	81.0	78.4	0.0	0.0	0.0	0.0	71.2	9.1	0.0	78.1	86.4	
5901612	63.1	53.7	0.0	81.3	40.6	56.0	72.9	62.0	64.5	67.9	70.7	73.6	73.0	78.0	79.0	80.8	78.1	82.5	78.4	0.0	0.0	0.0	0.0	76.8	14.1	0.0	82.7	83.7	
5901613	33.7	53.7	0.0	55.6	19.8	48.0	38.1	54.5	57.8	61.3	58.2	64.7	62.6	66.5	67.0	70.9	71.0	72.6	70.5	0.0	0.0	0.0	74.1	0.0	85.1	5.7	0.0	26.8	99.1
5901615	10.8	0.0	0.0	20.4	25.3	20.8	13.7	25.8	29.8	33.4	28.5	34.2	27.7	32.2	26.6	28.9	16.9	28.0	24.8	0.0	0.0	0.0	0.0	0.0	17.6	1.6	0.0	15.9	71.7
5901616	49.8	53.7	0.0	27.9	19.1	1.7	1.9	1.8	2.1	2.0	2.5	2.2	2.0	3.0	2.3	2.6	0.0	3.3	0.0	0.0	0.0	0.0	45.7	0.0	0.0	6.9	0.0	0.0	1.3
5901617	22.4	0.0	0.0	10.9	37.6	1.6	1.4	2.0	2.3	2.5	2.5	3.3	2.0	3.6	2.3	3.9	0.0	5.0	0.0	0.0	0.0	0.0	45.7	82.1	0.0	4.4	0.0	0.0	1.3
5901618	17.2	0.0	0.0	17.2	33.8	10.5	9.1	14.5	17.2	19.9	33.8	25.2	20.7	26.8	26.6	28.9	16.9	31.1	24.8	0.0	0.0	0.0	0.0	0.0	29.7	4.5	0.0	0.0	1.0
5901619	27.4	0.0	0.0	0.0	21.9	0.8	0.6	0.9	1.1	1.2	1.0	1.3	1.2	1.4	1.2	1.7	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.5	
5901621	9.7	0.0	95.9	0.0	18.4	0.9	0.8	1.1	1.3	1.2	1.0	1.5	1.2	1.7	1.2	1.7	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	2.9	
5901622	22.4	0.0	0.0	10.9	77.1	5.4	4.9	8.1	10.4	12.6	24.0	15.8	13.9	18.7	19.4	20.8	16.9	21.2	12.9	0.0	0.0	0.0	0.0	92.0	0.0	4.3	0.0	11.0	
5901623	14.8	42.2	0.0	0.0	84.6	9.1	6.6	12.5	14.7	16.2	28.5	19.1	13.9	22.3	19.4	23.4	16.9	24.1	24.8	0.0	0.0	0.0	45.7	0.0	17.6	1.6	0.0	0.0	6.5
5901624	77.5	93.2	0.0	42.1	80.5	11.6	16.9	17.4	21.6	26.2	42.8	30.6	27.7	33.4	33.3	34.0	16.9	34.1	24.8	0.0	0.0	0.0	0.0	0.0	85.1	98.4	0.0	26.8	53.0
5901625	58.7	84.6	0.0	17.2	38.3	4.2	4.2	7.2	9.6	11.5	19.5	12.3	13.9	14.7	12.8	15.5	8.2	14.2	12.9	0.0	0.0	0.0	0.0	78.4	29.7	89.5	0.0	0.0	11.0
5901626	33.7	0.0	0.0	38.7	83.3	13.7	16.9	18.5	21.6	24.1	38.3	28.0	27.7	32.0	33.3	34.0	35.4	34.1	24.8	0.0	0.0	0.0	0.0	92.0	76.8	7.9	0.0	0.0	15.5
5901628	64.4	78.3	97.6	20.4	16.7	17.3	9.8	19.5	21.2	22.5	24.0	25.2	20.7	27.2	26.6	31.4	16.9	31.1	24.8	0.0	0.0	0.0	0.0	0.0	17.6	47.2	61.7	43.6	50.6
5901629	14.8	0.0	97.6	0.0	7.3	48.5	20.5	45.9	46.4	41.8	38.3	45.3	41.1	44.3	44.5	47.6	49.4	48.9	43.6	0.0	0.0	0.0	45.7	0.0	29.7	0.0	65.7	55.5	53.0
5901630	51.9	84.6	96.6	42.1	74.0	44.7	27.7	45.5	49.5	50.2	62.3	55.6	53.4	58.2	59.9	61.5	61.8	63.3	59.5	0.0	0.0	0.0	45.7	0.0	66.7	89.7	0.0	43.6	87.7
5901631	60.1	95.2	0.0	45.3	46.6	29.5	17.5	34.4	37.1	40.9	47.1	43.5	41.1	49.4	49.8	53.5	49.4	53.3	43.6	0.0	0.0	91.1	99.0	0.0	62.3	9.4	0.0	43.6	99.8
5901632	19.1	0.0	0.0	20.4	16.2	27.3	17.5	35.3	39.1	41.1	51.2	46.6	47.2	51.2	49.8	55.2	49.4	53.3	43.6	0.0	0.0	0.0	0.0	0.0	29.7	8.3	0.0	26.8	90.1
5901634	35.9	0.0	96.6	27.9	20.4	26.0	15.9	26.9	27.9	29.6	28.5	33.4	27.7	37.1	33.3	39.9	35.4	39.2	24.8	0.0	0.0	0.0	0.0	0.0	10.7	3.3	65.7	26.8	23.4
5901635	22.4	0.0	95.9	17.2	9.5	50.1	16.3	51.9	54.2	55.3	51.2	58.8	58.2	59.9	63.3	65.8	61.8	66.7	59.5	0.0	0.0	0.0	0.0	89.5	10.7	2.0	58.5	15.9	35.6
5901636	51.9	0.0	0.0	66.5	5.2	66.5	46.3	72.1	75.8	77.4	80.1	80.0	79.2	81.9	82.7	85.2	83.0	85.3	84.0	0.0	0.0	0.0	45.7	78.4	17.6	10.4	0.0	15.9	71.4
5901637	91.6	53.7	0.0	97.1	45.9	61.8	63.3	69.6	73.9	77.1	78.0	81.2	81.4	82.8	84.4	84.4	83.0	86.8	84.0	0.0	0.0	0.0	95.3	0.0	76.8	26.4	0.0	87.3	82.1
5901638	46.2	0.0	0.0	27.9	14.6	22.2	8.7	30.7	33.4	34.9	28.5	34.2	27.7	32.6	33.3	34.0	16.9	31.1	24.8	0.0	0.0	0.0	74.1	0.0	17.6	12.4	0.0	43.6	29.5
5901639	87.3	53.7	0.0	83.6	41.4	19.6	16.1	21.9	23.5	25.6	24.0	29.4	27.7	34.0	33.3	34.0	35.4	37.0	24.8	0.0	0.0	0.0	0.0	0.0	17.6	49.4	0.0	62.2	32.6
5901640	72.8	78.3	95.9	0.0	13.7	0.1	0.1	0.1	0.1	0.1	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85.9	0.0	94.3	0.0	31.7	81.5	55.5	0.0
5901642	57.2	84.6	95.9	35.1	18.8	28.2	19.7	31.4	33.0	34.2	33.8	36.5	35.0	42.3	39.4	43.6	35.4	43.3	43.6	0.0	0.0	0.0	45.7	78.4	29.7	75.4	0.0	26.8	59.6
5901643	69.9	53.7	0.0	76.9	4.4	26.8	25.6	32.6	35.0	37.6	38.3	40.7	41.1	42.6	44.5	43.6	35.4	46.1	43.6	0.0	0.0	0.0	0.0	0.0	38.8	35.4	0.0	43.6	63.0
5901644	44.6	0.0	0.0	52.6	0.6	2.0	2.3	2.0	2.0	2.0	2.5	2.2	2.0	3.0	2.3	2.6	0.0	3.3	0.0	0.0	0.0	45.7	0.0	0.0	0.0	5.0	0.0	15.9	2.1
5901645	49.8	70.1	0.0	69.2	2.6	11.6	6.8	10.8	11.0	11.0	9.8	11.3	6.5	14.2	12.8	13.2	8.2	14.2	12.9	0.0	0.0	0.0	45.7	0.0	10.7	52.9	0.0	0.0	17.3
5901646	38.3	0.0	0.0	66.5	21.7	10.0	7.0	9.2	9.2	8.3	5.6	9.1	6.5	10.2	6.0	10.3	8.2	10.8	0.0	0.0	0.0	0.0	0.0	10.7	9.6	0.0	0.0	23.4	
5901647	33.7	0.0	0.0	35.1	69.2	51.6	38.2	45.1	44.2	44.0	38.3	46.6	47.2	50.5	44.5	47.6	35.4	43.3	24.8	0.0	0.0	0.0	0.0	0.0	1.6	0.0	15.9	40.4	
5901648	27.4	42.2	0.0	35.1	14.6	15.6	12.2	13.2	13.5	13.5	9.8	14.7	13.9	15.9	12.8	15.5	8.2	14.2	12.9	0.0	0.0	0.0	0.0	0.0	10.7	11.7	0.0	0.0	38.2
5901650	31.5	0.0	0.0	95.6	91.8	86.7	82.8	80.6	80.6	82.2	82.4	84.2	83.8	85.9	87.2	87.6	86.8	87.3	84.0	0.0	0.0	0.0	0.0	0.0	90.3	34.2	0.0	67.3	90.9
5901651	25.0	0.0	0.0	66.5	32.7	34.5	30.2	38.8	41.3	41.8	38.3	44.0	41.1	44.1	44.5	45.7	35.4	48.9	43.6	0.0	0.0	0.0	0.0	0.0	83.9	15.4	0.0	26.8	31.2
5901652	42.4	42.2	0.0	38.7	65.9	47.1	26.1	45.9	47.6	48.6	42.8	50.8	47.2	50.2	49.8	49.5	35.4	48.9	43.6	0.0	0.0	0.0	0.0	0.0	17.6	10.2	28.0	15.9	45.7
5901653	71.2	53.7	0.0	99.1	53.6	91.4	82.3	89.9	91.4	93.5	92.5	93.4	92.2	92.1	91.5	92.7	92.5	93.0	93.6	0.0	0.0	0.0	45.7	0.0	83.9	26.2	0.0	98.5	94.6
5901654	47.9	0.0	0.0	55.6	16.1	44.9	43.9	51.4	54.6	57.2	54.8	58.8	58.2	60.3	59.9	61.5	61.8	61.7	59.5	0.0	0.0	0.0	45.7	0.0	38.8	12.4	0.0	76.0	72.9
5901655	25.0	78.3	0.0	0.0	28.9	46.6	32.9	53.7	56.3	61.3	62.3	63.1	62.6	65.3	63.3	67.4	61.8	68.0	70.5	0.0	0.0	0.0	0.0	0.0	29.7	37.2	0.0	43.6	96.2
5901656	21.0	53.7	0.0	38.7	20.6	47.6	37.4	52.1	54.2	55.9	58.2	60.2	58.2	63.8	63.3	65.8	61.8	65.0	59.5	0.0	0.0	0.0	0.0	0.0	0.0	23.5	0.0	43.6	61.5
5901658	47.9	0.0	0.0	45.3	16.2	10.5	11.0	11.7	12.7	12.6	9.8	14.7	13.9	16.2	12.8	15.5	16.9	17.7	12.9	0.0	0.0	0.0	0.0	0.0	17.6	14.2	0.0	15.9	35.6
5901659	83.4	93.2	0.0	38.7	32.4	3.5	3.0	3.6	3.6	3.4	2.5	4.6	2.0	5.6	6.0	5.8	8.2	7.8	0.0	0.0	0.0	0.0	0.0	0.0	77.2				

SAMPLE	ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																													
	Li	Be	B	Na	Mg	Al	K	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In
	ppm	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
155	0.1	0.1	1	0.001	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02
5901667	82,3	48,8	23,0	86,5	70,5	70,0	74,7	40,8	90,8	85,9	83,8	79,9	77,1	75,8	62,3	14,4	71,3	69,4	24,1	0,0	42,9	87,1	20,2	63,9	45,0	71,1	62,2	32,0	59,2	83,4
5901668	64,7	43,5	23,0	82,3	49,2	47,9	48,9	27,3	58,1	46,4	69,2	43,4	38,0	45,7	65,7	13,8	29,7	40,7	0,0	0,0	42,9	75,5	18,8	56,2	26,2	40,3	15,7	45,6	38,3	53,7
5901669	0,0	0,0	55,0	25,1	12,3	0,6	0,0	14,5	0,0	0,6	13,1	15,2	0,6	0,6	2,3	0,7	28,3	1,8	0,0	94,3	28,7	4,8	58,3	0,4	78,9	0,6	1,4	23,6	82,9	0,0
5901670	40,3	43,5	23,0	4,3	12,3	71,0	3,9	1,1	77,0	87,5	53,2	99,2	94,8	98,0	6,1	4,2	38,7	53,3	24,1	0,0	49,1	11,3	1,3	70,1	16,7	0,6	72,8	28,8	12,8	66,4
5901671	17,3	10,9	23,0	14,3	2,8	23,3	0,0	22,5	0,0	38,2	13,1	22,5	23,1	10,7	9,3	9,8	4,1	27,1	24,1	0,0	23,2	7,8	37,7	22,2	16,7	17,9	8,8	52,1	12,8	0,0
5901672	52,5	28,7	55,0	2,9	37,5	60,4	17,0	22,5	42,5	71,2	54,4	39,3	39,4	44,6	42,7	17,1	41,5	48,3	24,1	57,4	64,8	63,8	33,9	57,1	16,7	33,5	32,3	50,2	55,0	53,7
5901674	98,3	19,0	9,6	97,8	94,6	40,8	98,1	80,4	98,2	77,5	77,1	76,1	77,4	81,1	73,0	30,6	54,4	74,8	24,1	0,0	2,9	99,0	47,8	59,0	99,2	83,4	27,5	5,1	12,8	83,4
5901675	94,9	28,7	23,0	98,7	95,8	45,8	97,1	83,0	96,9	86,6	87,8	78,7	74,2	83,6	88,2	48,7	68,8	70,5	24,1	0,0	28,7	97,4	66,3	58,0	97,9	89,4	47,1	8,3	35,0	66,4
5901676	0,0	1,8	55,0	14,3	0,3	1,4	3,9	4,8	34,8	3,5	0,7	0,6	0,4	4,8	10,0	2,1	3,0	3,3	24,1	57,4	28,7	21,1	26,0	10,2	85,0	10,0	5,3	24,5	16,1	0,0
5901677	0,0	4,5	55,0	6,2	2,8	19,6	0,0	18,8	0,0	11,2	18,6	1,1	1,9	33,5	30,5	3,5	5,1	10,6	0,0	0,0	42,9	4,8	52,0	19,1	26,2	10,0	7,3	27,1	26,6	0,0
5901678	0,0	0,0	55,0	83,8	0,3	9,1	3,9	6,2	25,1	8,7	21,4	7,4	0,0	0,6	1,4	1,3	16,7	8,9	24,1	62,3	76,1	11,3	3,8	0,5	85,0	6,5	0,6	16,7	44,4	0,0
5901679	84,9	75,4	23,0	85,2	70,5	82,2	74,7	29,7	97,4	99,4	88,5	94,7	96,3	84,6	50,8	22,0	90,4	70,0	24,1	90,8	60,5	86,5	17,8	77,8	26,2	21,8	80,2	27,8	97,8	83,4
5901680	75,8	10,9	23,0	82,3	64,2	49,0	17,0	10,2	85,4	63,4	43,5	91,7	84,8	84,8	4,5	0,3	13,9	65,8	0,0	0,0	23,2	63,8	2,4	53,8	26,2	21,8	37,7	15,1	0,0	66,4
5901682	69,9	10,9	55,0	75,7	49,2	41,3	17,0	14,5	58,1	53,6	32,0	66,3	58,3	56,8	11,4	2,0	18,0	62,2	0,0	62,3	28,7	68,4	14,7	37,2	16,7	33,5	11,9	25,3	12,8	53,7
5901683	22,0	4,5	23,0	6,2	12,3	8,4	0,0	18,8	0,0	8,7	11,7	5,5	4,1	20,6	21,9	2,1	3,0	9,6	0,0	0,0	11,8	11,3	46,0	24,7	0,0	10,0	9,2	13,3	23,5	0,0
5901684	27,0	36,3	55,0	2,9	12,3	40,8	3,9	27,3	0,0	35,9	33,3	41,7	34,9	39,8	15,6	7,9	29,0	12,8	0,0	0,0	35,5	4,8	39,1	47,0	26,2	10,0	34,5	27,8	35,0	0,0
5901685	75,8	48,8	55,0	65,9	57,4	81,7	17,0	40,8	61,8	99,1	91,0	52,6	58,6	53,1	37,2	41,9	45,9	89,6	44,8	62,3	79,0	55,4	63,7	66,4	70,9	83,4	55,6	89,2	91,3	91,4
5901686	0,0	10,9	55,0	14,3	2,8	33,0	3,9	31,9	0,0	49,7	51,0	10,7	10,8	57,7	40,7	31,1	58,5	20,4	44,8	0,0	69,0	11,3	56,9	42,0	78,9	21,8	24,1	57,3	81,9	0,0
5901688	0,0	0,0	23,0	8,4	0,0	0,4	0,0	1,7	19,5	6,1	0,4	0,2	2,5	7,6	11,4	0,8	0,6	0,4	0,0	0,0	6,8	2,7	10,1	6,9	26,2	0,6	7,1	5,9	12,8	0,0
5901689	0,0	1,8	88,1	8,4	0,3	1,4	0,0	1,7	25,1	15,0	2,8	0,6	4,1	2,0	8,5	3,0	0,6	1,3	24,1	57,4	28,7	0,9	10,5	17,6	45,0	0,6	4,7	13,3	35,0	0,0
5901690	71,9	10,9	88,1	94,1	64,2	53,3	17,0	57,6	61,8	61,2	50,0	71,8	60,5	70,6	16,7	9,6	30,3	68,1	0,0	0,0	35,5	51,6	74,5	37,4	45,0	55,0	20,3	45,6	57,3	0,0
5901691	66,9	10,9	55,0	92,5	64,2	44,6	48,9	47,3	65,7	55,4	46,3	69,1	60,8	66,8	16,7	7,3	30,5	54,3	0,0	0,0	23,2	61,4	53,9	37,0	26,2	49,5	14,7	34,7	89,3	0,0
5901692	40,3	4,5	55,0	95,2	37,5	15,9	48,9	49,4	25,1	15,0	17,4	36,8	12,3	33,5	2,3	1,0	7,5	31,2	0,0	62,3	16,7	55,4	83,6	11,8	60,5	46,6	2,3	3,4	23,5	0,0
5901693	0,0	1,8	9,6	21,6	2,8	5,3	0,0	3,7	0,0	1,5	1,9	2,4	0,4	2,0	1,4	0,1	0,0	5,8	0,0	0,0	2,9	4,8	13,6	2,3	0,0	10,0	0,2	3,8	0,0	0,0
5901695	0,0	28,7	55,0	4,3	2,8	73,0	0,0	18,8	0,0	55,4	41,7	69,5	37,1	67,2	7,9	8,2	12,5	34,3	0,0	0,0	35,5	2,7	47,3	30,8	26,2	17,9	11,5	43,5	76,0	0,0
5901696	27,0	19,0	23,0	4,3	12,3	71,0	0,0	17,0	77,0	51,8	51,6	92,0	96,4	80,0	16,7	1,0	14,2	20,4	44,8	0,0	28,7	11,3	28,0	66,2	26,2	3,9	60,6	19,7	0,0	0,0
5901697	0,0	1,8	23,0	17,5	2,8	26,9	0,0	14,5	0,0	6,1	7,9	5,5	5,6	23,8	34,0	1,9	3,4	6,3	0,0	0,0	11,8	4,8	60,8	26,4	26,2	10,0	8,5	9,5	29,7	0,0
5901698	40,3	43,5	88,1	87,4	25,4	89,6	17,0	49,4	54,1	74,4	71,0	65,8	65,4	51,1	28,2	30,3	33,4	81,5	24,1	73,3	87,8	47,9	77,8	84,9	16,7	52,3	52,1	81,5	83,7	66,4
5901699	0,0	1,8	9,6	35,2	2,8	20,5	0,0	27,3	0,0	18,6	5,5	11,8	15,7	36,0	18,9	1,8	20,5	5,0	0,0	0,0	2,9	1,4	77,1	22,1	0,0	3,9	16,8	5,9	38,3	0,0
5901700	0,0	1,8	9,6	80,5	2,8	2,5	0,0	10,2	0,0	1,5	1,9	6,6	1,9	2,0	4,9	0,7	0,2	2,6	0,0	0,0	1,4	4,8	37,9	4,5	26,2	6,5	1,2	9,5	10,4	0,0
5901701	0,0	19,0	23,0	8,4	2,8	68,1	0,0	18,8	0,0	53,6	44,7	60,8	43,4	57,7	7,9	4,2	27,3	19,3	0,0	0,0	28,7	4,8	47,0	53,2	0,0	10,0	49,1	20,7	73,1	0,0
5901703	82,3	19,0	23,0	95,9	90,4	60,9	88,9	68,5	99,4	81,5	90,1	94,6	83,3	87,2	92,9	45,7	56,0	45,9	44,8	0,0	64,8	86,5	71,5	88,6	26,2	25,8	78,5	11,2	29,7	66,4
5901704	91,6	10,9	23,0	97,8	98,2	66,9	94,2	86,1	94,2	95,0	91,7	75,4	79,2	73,7	80,7	38,6	28,7	91,8	0,0	62,3	28,7	91,9	54,7	31,1	95,6	75,9	21,1	0,0	0,0	66,4
5901705	62,2	28,7	55,0	75,7	25,4	45,8	48,9	35,9	54,1	48,1	30,0	91,9	82,8	77,1	16,7	3,2	30,7	31,6	0,0	0,0	69,0	31,0	57,3	47,8	16,7	0,2	90,5	27,1	0,0	0,0
5901706	0,0	0,0	23,0	56,8	2,8	2,5	17,0	11,7	34,8	6,1	0,7	26,4	11,6	14,3	9,3	1,6	3,3	3,0	0,0	0,0	16,7	4,8	34,5	6,8	78,9	6,5	42,3	5,9	0,0	0,0
5901707	52,5	19,0	23,0	75,7	37,5	9,9	48,9	22,5	34,8	11,2	13,5	23,9	9,4	14,3	12,4	2,6	17,3	12,0	0,0	73,3	49,1	39,8	28,7	29,3	45,0	17,9	11,9	7,2	26,6	0,0
5901709	69,9	75,4	99,8	82,3	70,5	85,4	74,7	94,1	84,4	100,0	94,8	81,6	86,8	91,4	66,7	23,9	82,1	72,4	44,8	98,5	98,7	61,4	96,6	87,7	26,2	33,5	87,6	68,8	88,7	83,4
5901710	62,2	36,3	55,0	69,4	57,4	53,9	74,7	65,9	54,1	78,8	53,2	53,8	44,1	46,7	49,4	41,1	38,0	87,2	24,1	90,8	87,8	61,4	79,5	62,3	60,5	65,2	57,6	90,3	84,8	83,4
5901711	27,0	19,0	9,6	45,6	12,3	9,9	48,9	8,2	0,0	11,2	7,2	5,5	9,4	4,8	28,2	6,5	8,2	20,8	0,0	73,3	49,1	25,5	20,2	19,6	26,2	17,9	3,8	25,3	12,8	0,0
5901712	36,2	36,3	76,2	45,6	25,4	37,6	48,9	31,9	25,1	38,2	23,0	39,3	28,4	36,0	18,1	10,6	41,1	20,8	0,0	73,3	42,9	21,1	78,3	38,9	0,0	13,9	46,2	46,4	64,4	0,0
5901713	48,1	67,6	96,2	30,1	37,5	80,7	48,9	49,4	86,7	93,5	76,7	95,6	95,3	90,1	62,3	35,8	82,6	83,4	44,8	0,0	92,9	51,6	76,1	86,7	26,2	49,5	81,5</			

SAMPLE	ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																													
	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Bi	Th	U	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
155	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.02	0.1	0.1	
5901667	67,3	78,3	95,9	78,0	21,1	47,1	50,2	52,8	54,7	57,2	58,2	61,4	62,6	66,0	63,3	67,4	61,8	69,8	59,5	0,0	0,0	0,0	45,7	0,0	76,8	37,3	0,0	78,1	68,3	
5901668	55,5	88,4	0,0	69,2	47,4	41,9	37,1	43,2	45,9	48,6	47,1	52,2	53,4	54,5	54,9	57,2	49,4	57,6	43,6	0,0	0,0	0,0	45,7	82,1	38,8	19,7	0,0	26,8	53,8	
5901669	85,0	99,3	0,0	0,0	12,1	0,4	0,5	0,5	0,5	0,3	0,0	0,4	0,0	0,4	0,0	0,3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	92,7	69,2	55,5	0,5	
5901670	19,1	78,3	0,0	49,0	13,9	50,2	68,5	55,2	57,3	59,1	62,3	64,2	66,5	70,6	70,7	74,0	71,0	75,0	70,5	0,0	0,0	0,0	45,7	0,0	82,3	81,4	0,0	55,5	70,2	
5901671	38,3	42,2	0,0	20,4	37,5	17,4	17,2	16,2	17,0	15,8	14,5	18,4	13,9	21,3	19,4	20,8	16,9	24,1	12,9	0,0	0,0	0,0	0,0	0,0	10,7	10,4	0,0	26,8	14,6	
5901672	42,4	0,0	0,0	64,0	50,2	44,6	31,3	47,4	50,5	52,3	51,2	54,7	53,4	54,6	54,9	57,2	49,4	57,6	59,5	0,0	0,0	0,0	45,7	85,5	38,8	17,5	0,0	15,9	20,4	
5901674	93,7	42,2	0,0	99,0	53,6	33,9	38,5	37,4	40,7	45,8	42,8	52,2	53,4	59,5	54,9	60,4	61,8	63,3	59,5	0,0	0,0	0,0	0,0	0,0	76,8	24,7	0,0	94,7	22,0	
5901675	92,6	53,7	96,6	96,7	45,1	40,4	41,1	40,8	43,0	45,8	47,1	49,5	53,4	56,0	54,9	58,7	49,4	61,7	59,5	0,0	0,0	0,0	74,1	0,0	81,0	21,7	0,0	92,2	31,2	
5901676	57,2	53,7	99,0	0,0	89,5	4,2	1,7	3,1	3,6	3,4	2,5	4,6	2,0	6,3	6,0	8,3	8,2	7,8	0,0	0,0	0,0	0,0	45,7	80,6	0,0	2,2	77,0	62,2	1,0	
5901677	35,9	53,7	0,0	13,8	18,8	12,2	5,6	11,2	12,2	12,6	9,8	15,3	13,9	16,6	12,8	18,4	16,9	17,7	12,9	0,0	0,0	0,0	45,7	91,3	0,0	6,5	58,5	26,8	4,8	
5901678	67,3	84,6	98,1	20,4	2,7	0,3	0,4	0,3	0,3	0,3	0,0	0,4	0,0	0,5	0,0	0,5	0,0	0,4	0,0	0,0	0,0	85,9	0,0	0,0	23,9	78,0	55,5	0,5		
5901679	63,1	84,6	0,0	86,4	13,6	53,6	70,4	59,6	63,0	68,2	65,6	71,7	73,0	78,9	79,0	81,6	78,1	83,2	84,0	0,0	0,0	0,0	74,1	0,0	62,3	67,4	0,0	84,5	75,9	
5901680	69,9	53,7	0,0	79,7	2,0	33,3	29,2	37,0	40,3	43,3	42,8	46,6	47,2	53,7	54,9	55,2	49,4	54,9	43,6	0,0	0,0	0,0	0,0	0,0	38,8	22,0	0,0	67,3	72,1	
5901682	86,9	91,2	0,0	74,8	12,2	23,7	19,3	28,8	31,1	34,2	28,5	35,4	35,0	37,7	33,3	37,9	35,4	37,0	24,8	0,0	0,0	0,0	0,0	0,0	29,7	88,8	0,0	26,8	55,1	
5901683	38,3	0,0	96,6	20,4	11,1	14,7	7,3	15,2	16,3	17,0	14,5	18,4	13,9	21,6	19,4	23,4	16,9	24,1	24,8	0,0	0,0	0,0	0,0	0,0	87,1	0,0	10,8	47,7	15,9	56,2
5901684	12,4	0,0	96,6	13,8	18,9	27,5	15,4	30,2	32,6	34,9	28,5	35,4	35,0	39,1	39,4	43,6	35,4	46,1	43,6	0,0	0,0	0,0	45,7	0,0	17,6	3,5	0,0	26,8	91,2	
5901685	78,7	53,7	0,0	74,8	54,1	51,6	44,2	55,0	57,8	60,9	62,3	65,8	62,6	69,0	67,0	69,7	61,8	68,0	59,5	0,0	0,0	0,0	45,7	89,9	29,7	15,8	0,0	43,6	65,9	
5901686	49,8	53,7	0,0	24,6	33,5	22,0	18,3	25,8	30,1	32,2	28,5	36,5	35,0	39,3	39,4	41,7	35,4	43,3	43,6	0,0	0,0	0,0	0,0	80,6	69,3	3,8	58,5	26,8	47,4	
5901688	14,8	0,0	0,0	0,0	45,6	4,5	1,3	4,0	4,1	3,4	2,5	3,3	2,0	4,1	2,3	5,8	0,0	7,8	0,0	0,0	0,0	0,0	45,7	0,0	0,0	1,4	0,0	15,9	2,1	
5901689	25,0	53,7	0,0	0,0	34,6	14,4	4,9	13,5	14,2	13,5	9,8	13,5	6,5	13,5	12,8	15,5	16,9	17,7	12,9	0,0	0,0	0,0	45,7	0,0	0,0	9,7	54,1	15,9	5,4	
5901690	58,7	53,7	0,0	72,8	54,3	19,6	14,5	22,6	25,7	27,1	28,5	30,6	27,7	31,7	33,3	34,0	35,4	34,1	24,8	0,0	0,0	0,0	0,0	0,0	38,8	23,4	0,0	15,9	40,4	
5901691	61,7	70,1	0,0	66,5	28,4	19,4	17,2	22,6	25,3	28,6	28,5	29,4	27,7	32,8	33,3	35,9	35,4	34,1	24,8	0,0	0,0	0,0	0,0	0,0	46,5	64,9	0,0	15,9	45,7	
5901692	75,2	53,7	0,0	55,6	29,2	5,2	4,9	6,0	7,4	7,7	9,8	8,2	6,5	10,2	6,0	10,3	8,2	10,8	0,0	0,0	0,0	0,0	0,0	17,6	42,0	0,0	0,0	22,0		
5901693	9,7	0,0	0,0	0,0	10,1	1,1	0,9	1,2	1,4	1,5	1,0	1,5	1,2	1,7	1,2	1,7	0,0	1,9	0,0	0,0	0,0	0,0	45,7	0,0	0,0	2,8	0,0	0,0	1,0	
5901695	14,8	53,7	0,0	9,6	21,6	11,2	12,4	15,2	18,3	21,9	24,0	24,4	20,7	27,2	26,6	28,9	16,9	28,0	24,8	0,0	0,0	0,0	0,0	0,0	0,0	4,5	0,0	26,8	13,0	
5901696	10,8	0,0	0,0	27,9	61,7	34,5	23,3	42,2	46,8	50,7	58,2	55,6	53,4	60,9	63,3	67,4	61,8	66,7	59,5	0,0	0,0	0,0	45,7	0,0	17,6	4,4	0,0	43,6	15,5	
5901697	35,9	70,1	0,0	9,6	57,2	11,9	5,9	14,5	16,3	19,9	24,0	23,3	20,7	25,3	26,6	26,3	16,9	24,1	12,9	0,0	0,0	0,0	0,0	0,0	0,0	0,0	31,2	0,0	23,4	
5901698	35,9	0,0	0,0	64,0	71,3	54,5	27,9	58,5	61,6	67,1	75,3	72,2	75,8	80,6	82,7	84,4	83,0	82,5	78,4	0,0	0,0	0,0	0,0	0,0	17,6	12,8	0,0	0,0	47,4	
5901699	1,6	0,0	0,0	0,0	13,5	7,7	2,7	9,6	11,4	12,6	14,5	15,3	13,9	16,9	12,8	20,8	16,9	17,7	12,9	0,0	0,0	0,0	0,0	0,0	10,7	0,2	0,0	0,0	68,6	
5901700	9,7	0,0	0,0	0,0	41,6	2,1	1,2	2,4	3,1	3,4	2,5	3,3	2,0	4,3	2,3	3,9	0,0	5,0	0,0	0,0	0,0	0,0	45,7	0,0	0,0	1,3	0,0	0,0	17,3	
5901701	2,7	42,2	0,0	10,9	22,8	22,4	11,7	31,4	35,4	39,0	42,8	42,3	41,1	44,7	44,5	49,5	49,4	48,9	43,6	0,0	0,0	0,0	0,0	0,0	0,0	2,4	0,0	0,0	62,3	
5901703	76,3	70,1	99,5	81,3	83,3	63,7	43,5	73,9	77,5	82,6	85,5	83,3	83,8	86,4	88,8	89,6	90,2	92,1	93,6	0,0	0,0	0,0	74,1	0,0	58,1	21,8	0,0	90,3	92,1	
5901704	94,3	70,1	99,0	99,2	49,2	13,4	13,3	16,2	19,1	24,9	28,5	26,3	27,7	31,7	26,6	31,4	16,9	34,1	24,8	0,0	0,0	0,0	45,7	0,0	38,8	47,3	0,0	92,2	25,4	
5901705	38,3	42,2	98,1	38,7	11,9	26,5	14,2	33,7	36,3	39,0	38,3	39,9	41,1	48,2	44,5	49,5	49,4	46,1	43,6	0,0	0,0	0,0	45,7	0,0	38,8	47,0	28,0	62,2	92,5	
5901706	31,5	0,0	100,0	0,0	29,2	3,0	1,4	4,0	4,5	4,5	2,5	3,8	2,0	4,9	2,3	5,8	8,2	5,0	0,0	0,0	0,0	0,0	89,8	0,0	0,0	1,8	80,0	62,2	56,7	
5901707	58,7	70,1	99,3	45,3	11,4	9,1	2,2	13,9	16,8	23,2	24,0	24,4	20,7	26,2	26,6	28,9	16,9	31,1	24,8	0,0	0,0	0,0	74,1	0,0	10,7	48,9	77,0	26,8	71,2	
5901709	22,4	78,3	96,6	58,1	74,0	61,3	26,6	64,9	70,6	75,9	80,1	78,2	79,2	82,5	82,7	85,2	83,0	86,8	88,8	0,0	0,0	0,0	0,0	97,6	84,7	71,2	29,3	65,7	55,5	100,0
5901710	80,7	70,1	97,6	81,3	80,0	48,2	23,9	53,7	55,9	59,1	58,2	58,4	58,2	63,2	63,3	64,1	61,8	63,3	59,5	0,0	0,0	0,0	74,1	92,4	38,8	39,8	83,2	55,5	99,5	
5901711	53,6	53,7	98,1	31,5	41,6	8,4	3,2	11,2	12,9	16,2	14,5	15,3	13,9	21,1	19,4	23,4	16,9	28,0	24,8	0,0	0,0	0,0	45,7	0,0	10,7	38,0	78,9	15,9	50,6	
5901712	22,4	53,7	96,6	24,6	40,6	19,2	9,5	24,8	27,9	33,4	28,5	32,6	35,0	37,2	33,3	39,9	35,4	39,2	43,6	0,0	0,0	0,0	45,7	82,1	10,7	8,5	67,7	0,0	97,0	
5901713	71,2	78,3	99,3	66,5	83,0	67,2	54,5	69,6	72,2	75,1	75,3	78,5	81,4	84,0	85,9	86,8	86,8	87,3	84,0	0,0	0,0	0,0	74,1	79,1	66,7	67,7	47,7	62,2	99,1	
5901714	57,2	70,1	99,6	0,0	28,2	4,6	2,1	4,5	4,7	5,3	2,5	5,0	2,0	5,2	6,0	5,8	0,0	5,0	0,0	0,0	0,0	0,0	74,1	90,3	0,0	22,4	78,9	26,8	98,6	
5901715	49,8	53,7	98,7	10,9	88,4	11,6	4,1	10,3	10,6	11,0	5,6	10,6																		

SAMPLE	ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																													
	Li	Be	B	Na	Mg	Al	K	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In
	ppm	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
155	0.1	0.1	1	0.001	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02
5901724	52,5	28,7	0,0	17,5	25,4	55,3	48,9	1,1	80,1	88,5	63,0	79,6	92,1	72,0	43,6	5,6	59,1	70,8	44,8	87,6	54,7	47,9	1,1	51,4	26,2	17,9	52,8	44,5	0,0	66,4
5901725	64,7	19,0	76,2	10,5	12,3	9,1	48,9	76,5	78,9	15,0	24,3	9,4	53,4	41,5	28,2	1,3	51,1	3,3	0,0	0,0	54,7	11,3	95,4	44,6	78,9	6,5	65,8	13,3	44,4	0,0
5901726	66,9	19,0	55,0	30,1	37,5	50,1	48,9	25,3	34,8	53,6	38,8	44,7	48,3	38,0	56,1	8,9	34,1	46,5	0,0	62,3	42,9	51,6	85,9	51,6	0,0	6,5	34,3	31,5	16,1	66,4
5901727	48,1	4,5	23,0	45,6	25,4	28,4	48,9	4,8	42,5	35,9	28,6	23,5	21,2	7,6	4,5	2,9	11,9	60,2	0,0	0,0	16,7	39,8	13,9	30,4	26,2	17,9	0,9	40,5	0,0	53,7
5901728	27,0	19,0	55,0	75,7	12,3	6,9	48,9	8,2	34,8	11,2	6,5	15,9	12,3	7,6	18,9	4,0	13,5	25,2	0,0	73,3	16,7	51,6	15,9	7,6	26,2	30,1	2,0	21,7	12,8	0,0
5901730	62,2	19,0	23,0	82,3	49,2	30,0	74,7	33,5	42,5	59,8	35,3	41,7	45,4	29,0	33,1	26,9	38,3	66,2	24,1	95,5	60,5	74,3	59,7	28,5	60,5	49,5	23,1	80,2	66,5	66,4
5901731	27,0	1,8	55,0	80,5	25,4	6,2	74,7	6,2	25,1	24,0	10,8	22,5	19,4	7,6	15,6	7,0	29,1	24,5	24,1	94,3	42,9	43,8	7,4	10,8	88,7	43,5	9,2	38,5	26,6	0,0
5901732	22,0	4,5	76,2	50,6	12,3	6,9	48,9	22,5	19,5	15,0	15,0	17,9	17,7	7,6	29,0	8,0	41,5	22,5	0,0	94,3	42,9	39,8	35,9	14,5	45,0	21,8	4,5	41,5	29,7	0,0

SAMPLE	ICP-MS ULTRATRACE-1 AQUA REGIA ANALYSIS																												
	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Bi	Th	U
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
155	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.02	0.1	0.1
5901724	88,6	91,2	99,0	64,0	5,7	28,4	25,8	39,1	43,7	47,1	47,1	48,7	47,2	53,7	54,9	55,2	49,4	54,9	43,6	0,0	0,0	0,0	45,7	0,0	10,7	86,4	70,5	62,2	45,7
5901725	38,3	42,2	98,7	10,9	6,9	26,9	13,3	30,2	34,5	35,3	33,8	36,5	35,0	38,6	39,4	43,6	35,4	46,1	43,6	0,0	0,0	0,0	98,7	0,0	46,5	4,9	80,7	55,5	93,1
5901726	29,2	42,2	98,1	64,0	24,4	37,5	24,4	37,8	40,0	42,6	42,8	44,5	41,1	49,8	49,8	51,7	49,4	51,3	43,6	0,0	0,0	0,0	45,7	0,0	17,6	47,0	39,1	0,0	52,1
5901727	61,7	53,7	98,1	58,1	3,8	20,3	17,2	23,2	24,9	27,8	24,0	28,0	27,7	33,4	33,3	34,0	35,4	34,1	24,8	0,0	0,0	0,0	95,3	0,0	10,7	55,4	58,5	0,0	25,4
5901728	80,7	88,4	96,6	45,3	30,5	5,6	4,3	5,7	5,8	5,8	5,6	5,8	6,5	7,7	6,0	5,8	8,2	7,8	0,0	0,0	0,0	45,7	0,0	10,7	74,3	81,5	0,0	13,0	
5901730	92,6	84,6	98,7	74,8	31,8	18,7	15,1	19,0	19,7	20,9	19,5	21,5	20,7	26,9	26,6	28,9	16,9	31,1	24,8	0,0	0,0	0,0	89,8	82,1	29,7	83,6	83,2	26,8	13,0
5901731	97,9	98,2	99,6	45,3	16,9	5,3	3,8	5,1	5,4	5,8	2,5	5,8	6,5	9,0	6,0	10,3	8,2	10,8	12,9	0,0	0,0	0,0	74,1	0,0	17,6	95,3	83,9	26,8	4,8
5901732	89,3	93,2	99,3	42,1	27,8	8,2	5,7	7,6	8,3	8,3	5,6	8,2	6,5	12,0	12,8	13,2	8,2	14,2	12,9	0,0	0,0	0,0	45,7	0,0	10,7	82,7	81,5	15,9	5,4

SAMPLE	NEUTRON ACTIVATION ANALYSIS (INAA) 2A-HUMUS																																			
	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Na	Ni	Rb	Sb	Sc	Se	Sr	Ta	Th	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu		
	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
155	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	10	0.5	0.5	0.1	1	20	0.1	1	3	0.1	0.2	0.2	0.1	0.1		
5901553	0.0	0.0	0.0	60.5	45.1	0.0	94.1	69.9	0.0	90.2	29.4	0.0	0.0	42.6	0.0	0.0	0.0	0.0	80.1	2.0	0.0	0.0	8.4	87.2	0.0	74.2	58.1	42.4	70.0	75.8	69.0	69.2	83.4	79.1		
5901554	0.0	0.0	0.0	87.3	37.6	89.9	57.6	69.9	88.4	56.6	85.6	0.0	0.0	0.0	90.7	0.0	93.4	0.0	83.8	0.0	0.0	0.0	12.5	53.6	0.0	58.8	19.0	16.4	31.2	38.6	44.5	28.8	45.5	48.5		
5901555	0.0	0.0	0.0	31.3	30.0	0.0	18.4	49.3	0.0	35.3	62.8	0.0	0.0	0.0	64.7	0.0	0.0	0.0	49.9	0.0	0.0	0.0	5.1	47.6	0.0	17.8	13.3	37.4	40.2	36.0	34.9	38.2	33.0	0.0		
5901556	0.0	0.0	0.0	18.7	48.7	0.0	0.0	7.2	0.0	1.7	0.0	0.0	0.0	0.0	9.1	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.4	0.0	0.0	0.0	2.1	0.8	4.1	4.6	4.2	0.0	5.9	0.0		
5901557	0.0	0.0	0.0	100.0	0.0	10.5	13.6	0.0	2.1	20.8	0.0	0.0	0.0	12.3	0.0	0.0	0.0	33.7	0.0	0.0	0.0	2.9	0.0	0.0	58.8	2.6	3.4	3.2	8.3	4.2	0.0	19.4	15.2	0.0		
5901558	0.0	0.0	0.0	77.2	87.9	0.0	57.6	66.9	88.4	75.3	63.6	0.0	0.0	0.0	72.3	0.0	84.4	0.0	73.1	0.0	0.0	0.0	8.4	96.8	0.0	74.2	33.7	31.8	44.0	47.4	49.2	39.8	51.4	48.5	0.0	
5901560	0.0	0.0	0.0	60.5	93.8	0.0	84.8	92.3	88.4	96.2	54.4	0.0	0.0	0.0	67.5	0.0	0.0	0.0	96.8	0.0	0.0	0.0	29.2	90.8	0.0	93.5	67.0	53.0	76.1	79.0	84.3	78.3	81.5	79.1	0.0	
5901561	0.0	0.0	0.0	77.2	58.6	0.0	57.6	64.3	0.0	68.4	71.3	0.0	0.0	0.0	78.7	0.0	0.0	0.0	85.5	0.0	97.1	0.0	15.8	61.5	0.0	84.2	26.5	29.4	47.0	50.0	49.2	45.2	54.8	48.5	0.0	
5901562	0.0	0.0	0.0	60.5	67.6	0.0	48.5	49.3	0.0	36.6	58.2	0.0	0.0	0.0	64.0	0.0	0.0	0.0	44.5	0.0	0.0	0.0	5.1	54.5	0.0	50.8	19.8	16.9	33.7	31.9	29.6	24.1	28.8	33.0	0.0	
5901563	0.0	0.0	0.0	31.3	81.1	0.0	91.6	36.2	0.0	65.3	0.0	0.0	0.0	0.0	21.5	0.0	0.0	87.2	38.5	0.0	0.0	5.7	72.1	0.0	80.1	35.6	49.3	49.5	50.0	44.5	45.2	40.7	33.0	0.0		
5901564	0.0	0.0	0.0	60.5	62.1	0.0	48.5	76.8	86.1	51.9	70.5	0.0	0.0	0.0	75.5	97.9	0.0	0.0	76.1	0.0	0.0	0.0	14.9	45.6	0.0	0.0	71.3	53.0	76.8	75.8	71.9	69.2	66.2	48.5	0.0	
5901565	0.0	0.0	0.0	92.2	30.0	0.0	86.2	92.9	0.0	85.4	96.2	0.0	0.0	0.0	95.2	0.0	88.4	0.0	98.0	0.0	97.7	22.5	48.3	0.0	84.2	66.8	57.2	78.0	79.0	84.3	69.2	85.1	79.1	0.0		
5901567	0.0	0.0	0.0	31.3	67.6	0.0	93.7	69.9	82.1	91.9	19.8	0.0	0.0	91.8	15.2	0.0	0.0	0.0	68.2	0.0	96.4	0.0	6.5	43.0	0.0	74.2	51.0	33.8	56.0	52.9	40.3	45.2	58.2	48.5	0.0	
5901568	88.3	0.0	0.0	95.3	45.1	88.7	94.1	87.7	0.0	90.9	87.4	0.0	0.0	78.9	93.5	0.0	84.4	87.2	92.1	0.0	0.0	0.0	18.0	51.5	0.0	86.8	33.1	35.2	44.0	51.7	54.2	51.5	61.3	48.5	0.0	
5901569	0.0	0.0	0.0	77.2	62.1	0.0	87.3	82.8	0.0	90.5	89.6	0.0	0.0	89.1	0.0	88.4	0.0	94.2	0.0	0.0	0.0	0.0	14.9	57.9	0.0	74.2	33.1	35.2	47.0	52.9	62.9	56.7	67.8	61.9	0.0	
5901570	0.0	0.0	0.0	18.7	67.6	0.0	18.4	21.9	0.0	18.1	23.7	0.0	0.0	0.0	24.2	0.0	0.0	28.1	0.0	0.0	0.0	1.9	9.5	0.0	0.0	2.4	2.8	6.6	8.3	4.2	15.9	10.5	0.0	0.0		
5901571	0.0	0.0	0.0	60.5	73.0	84.7	35.9	31.4	0.0	24.0	64.8	0.0	0.0	0.0	62.9	0.0	0.0	51.4	0.0	0.0	0.0	2.4	8.3	0.0	5.4	7.3	12.0	16.7	19.9	19.2	21.7	15.2	0.0	0.0		
5901572	0.0	0.0	0.0	31.3	48.7	0.0	18.4	21.9	0.0	20.1	61.6	0.0	0.0	0.0	60.7	0.0	0.0	0.0	24.3	0.0	0.0	0.0	1.1	3.2	0.0	0.0	1.0	1.3	2.7	3.0	4.2	0.0	4.1	0.0	0.0	
5901574	0.0	0.0	0.0	31.3	62.1	0.0	96.0	45.1	83.5	96.0	64.8	0.0	0.0	0.0	58.9	0.0	0.0	87.2	56.0	0.0	0.0	0.0	15.8	32.7	0.0	0.0	33.7	42.4	47.0	52.6	40.3	40.2	0.0	56.8	48.5	0.0
5901575	0.0	0.0	0.0	77.2	41.6	0.0	99.5	60.8	0.0	99.6	72.6	0.0	0.0	0.0	71.8	0.0	0.0	0.0	82.8	0.0	0.0	0.0	30.7	48.3	0.0	58.8	42.7	64.1	61.4	65.6	58.5	61.3	75.4	61.9	0.0	
5901576	0.0	0.0	0.0	31.3	67.6	0.0	18.4	17.8	0.0	22.5	61.6	0.0	0.0	0.0	56.1	0.0	0.0	0.0	33.7	0.0	0.0	0.0	10.2	56.2	0.0	0.0	7.2	9.0	8.5	11.2	4.2	15.9	12.8	15.2	0.0	
5901577	0.0	0.0	0.0	18.7	81.1	0.0	0.0	21.9	82.1	10.5	29.4	0.0	0.0	0.0	35.7	0.0	0.0	0.0	24.3	0.0	0.0	0.0	8.4	3.2	0.0	0.0	4.2	5.3	3.6	6.1	4.2	15.9	5.9	8.4	0.0	
5901578	0.0	0.0	0.0	60.5	90.9	0.0	63.5	74.8	0.0	78.5	61.6	0.0	0.0	0.0	65.8	0.0	0.0	0.0	82.3	0.0	0.0	0.0	22.5	83.7	0.0	58.8	52.9	61.2	64.5	70.2	69.0	72.8	70.9	61.9	0.0	
5901580	79.3	0.0	0.0	98.0	0.0	95.0	74.5	84.5	0.0	81.2	98.5	0.0	0.0	0.0	98.8	98.3	99.1	0.0	98.2	0.0	0.0	0.0	96.5	42.3	74.7	0.0	0.0	26.8	44.9	41.3	58.8	71.9	69.2	82.2	79.1	0.0
5901581	0.0	0.0	0.0	60.5	58.6	0.0	18.4	41.0	0.0	28.4	73.2	0.0	0.0	0.0	69.7	0.0	0.0	0.0	57.2	0.0	0.0	0.0	91.2	9.3	59.6	0.0	0.0	10.5	12.1	12.0	21.1	15.7	24.1	21.7	15.2	0.0
5901582	0.0	0.0	0.0	60.5	71.1	0.0	68.4	74.8	0.0	66.2	71.3	0.0	0.0	0.0	74.9	0.0	84.4	0.0	77.9	0.0	0.0	0.0	29.2	97.3	0.0	86.8	51.5	53.6	65.6	73.7	65.4	65.4	69.7	71.0	0.0	
5901583	79.3	0.0	0.0	77.2	81.1	0.0	63.5	73.1	0.0	69.6	69.7	0.0	0.0	0.0	76.7	0.0	0.0	0.0	81.3	0.0	0.0	0.0	23.5	99.7	0.0	50.8	46.0	46.1	53.5	64.0	54.2	56.7	58.2	0.0	0.0	
5901584	92.8	0.0	0.0	31.3	91.7	0.0	18.4	54.3	0.0	49.5	23.7	0.0	0.0	0.0	24.2	0.0	0.0	0.0	67.0	0.0	0.0	0.0	15.8	89.9	0.0	66.9	40.4	39.3	41.3	56.9	44.5	51.5	54.8	33.0	0.0	
5901585	0.0	0.0	0.0	31.3	77.3	0.0	18.4	54.3	0.0	31.1	23.7	0.0	0.0	0.0	27.4	0.0	0.0	0.0	38.5	0.0	0.0	0.0	9.3	94.4	0.0	0.0	25.6	26.7	35.2	46.8	29.6	39.8	28.8	15.2	0.0	
5901586	0.0	0.0	0.0	31.3	75.3	0.0	63.5	45.1	0.0	56.8	52.3	0.0	0.0	0.0	56.1	0.0	0.0	0.0	44.5	0.0	0.0	0.0	88.9	11.3	99.6	0.0	58.8	29.5	33.8	27.2	40.2	24.4	34.9	26.5	0.0	
5901588	0.0	0.0	0.0	18.7	37.6	0.0	0.0	27.1	0.0	20.7	63.6	0.0	0.0	0.0	58.9	0.0	0.0	0.0	35.4	0.0	0.0	0.0	10.2	30.3	0.0	0.0	5.1	7.0	7.2	13.8	11.3	15.9	12.8	8.4	0.0	
5901589	79.3	0.0	0.0	0.0	52.0	0.0	0.0	21.9	0.0	3.9	0.0	0.0	0.0	0.0	18.9	0.0	0.0	0.0	18.2	0.0	0.0	0.0	3.4	26.8	0.0	0.0	6.0	4.8	8.5	13.8	7.7	24.1	12.8	8.4	0.0	
5901590	76.9	0.0	90.6	77.2	67.6	0.0	95.5	73.1	0.0	94.0	78.8	0.0	0.0	0.0	80.0	0.0	0.0	96.1	82.3	0.0	0.0	18.9	70.0	0.0	84.2	34.9	44.9	47.0	60.4	54.2	45.2	67.8	71.0	0.0	0.0	
5901591	0.0	0.0	0.0	31.3	58.6	0.0	74.5	49.3	0.0	88.9	35.8	0.0	0.0	0.0	48.0	0.0	0.0	0.0	59.2	0.0	0.0	0.0	9.3	88.7	0.0	80.1	25.6	20.1	33.7	44.7	36.0	39.8	56.8	61.9	0.0	
5901592	0.0	0.0	0.0	31.3	73.0	0.0	35.9	31.4	0.0	35.3	35.8	0.0	0.0	0.0	42.6	0.0	0.0	0.0	46.6	0.0	0.0	0.0	6.5	96.9	0.0	50.8	29.5	20.1	41.3	49.2	36.0	34.9	45.5	33.0	0.0	
5901594	0.0	0.0	0.0	31.3	48.7	0.0	18.4	27.1	0.0	16.8	48.9	0.0	0.0	0.0	53.3	0.0	0.0	0.0	29.8	0.0	0.0	0.0	5.1	80.2	0.0	50.8	15.2	10.5	18.8	27.5	24.4	28.8	26.5	15.2	0.0	
5901595	0.0	0.0	0.0	31.3	14.2																															

SAMPLE	NEUTRON ACTIVATION ANALYSIS (INAA) 2A-HUMUS																																		
	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Na	Ni	Rb	Sb	Sc	Se	Sr	Ta	Th	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	
	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
155	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	10	0.5	0.5	0.1	1	20	0.1	1	3	0.1	0.2	0.2	0.1	0.1	
5901625	0.0	0.0	0.0	31.3	62.1	88.7	63.5	31.4	0.0	50.8	61.6	0.0	0.0	64.3	62.9	0.0	0.0	87.2	44.5	0.0	0.0	3.4	9.5	0.0	0.0	3.5	7.0	13.2	17.5	19.9	24.1	21.7	15.2		
5901626	0.0	0.0	0.0	87.3	45.1	88.7	88.9	82.8	0.0	74.9	82.3	0.0	0.0	0.0	86.1	0.0	88.4	0.0	87.3	0.0	0.0	0.0	8.4	16.5	0.0	84.2	13.5	26.7	23.9	38.6	44.5	0.0	45.5	48.5	
5901628	0.0	0.0	0.0	31.3	55.2	86.1	18.4	31.4	0.0	38.3	46.7	0.0	0.0	0.0	54.5	0.0	0.0	0.0	37.1	0.0	0.0	0.0	5.7	59.6	0.0	46.6	14.3	9.8	23.9	28.5	24.4	28.8	31.7	15.2	
5901629	0.0	0.0	0.0	0.0	58.6	0.0	18.4	10.2	0.0	6.9	0.0	0.0	0.0	77.4	1.4	0.0	0.0	0.0	20.6	0.0	0.0	0.0	1.1	52.5	0.0	0.0	44.1	22.3	45.5	50.0	29.6	39.8	43.4	33.0	
5901630	0.0	0.0	0.0	90.6	31.3	96.5	0.0	83.2	60.8	0.0	85.7	35.8	0.0	0.0	42.6	0.0	0.0	87.2	74.8	0.0	0.0	0.0	6.5	88.1	0.0	58.8	40.5	30.6	51.9	56.9	54.2	56.7	56.8	48.5	
5901631	0.0	0.0	0.0	97.6	77.2	77.3	0.0	92.8	87.7	0.0	92.0	81.1	0.0	0.0	86.9	97.9	0.0	0.0	85.5	0.0	0.0	0.0	13.7	99.8	0.0	0.0	39.3	24.7	39.5	57.3	58.5	51.5	53.5	0.0	
5901632	76.9	0.0	0.0	90.6	31.3	14.2	0.0	91.0	66.9	0.0	94.4	33.0	0.0	0.0	32.7	0.0	0.0	0.0	56.0	0.0	0.0	0.0	8.4	90.8	0.0	0.0	23.6	18.8	32.5	48.3	40.3	45.2	60.3	48.5	
5901634	0.0	0.0	0.0	31.3	62.1	0.0	18.4	41.0	88.4	31.5	33.0	0.0	0.0	0.0	48.0	0.0	0.0	0.0	40.3	0.0	0.0	0.0	8.4	26.8	0.0	0.0	24.7	19.2	35.2	39.5	24.4	39.8	40.7	33.0	
5901635	0.0	0.0	0.0	31.3	48.7	0.0	35.9	31.4	0.0	23.4	23.7	0.0	0.0	0.0	27.4	0.0	0.0	0.0	37.1	0.0	0.0	0.0	0.0	7.2	44.3	96.5	0.0	47.5	17.4	57.1	61.6	44.5	61.3	64.5	61.9
5901636	0.0	0.0	0.0	77.2	87.9	0.0	48.5	69.9	0.0	67.4	85.6	0.0	0.0	0.0	86.6	0.0	88.4	87.2	93.1	0.0	0.0	93.5	38.3	76.0	0.0	58.8	65.7	53.7	76.8	84.9	82.4	78.3	89.5	84.3	
5901637	79.3	0.0	0.0	97.0	37.6	0.0	81.6	93.5	94.6	84.4	96.4	0.0	0.0	0.0	98.6	0.0	98.4	0.0	96.6	0.0	0.0	0.0	73.1	78.8	0.0	74.2	61.5	61.2	72.8	86.3	88.7	84.5	92.0	91.2	
5901638	0.0	0.0	0.0	60.5	14.2	0.0	18.4	41.0	0.0	17.4	83.6	0.0	0.0	0.0	70.4	0.0	0.0	0.0	40.3	0.0	0.0	0.0	5.7	30.3	0.0	0.0	22.6	12.7	44.0	47.4	29.6	34.9	36.0	15.2	
5901639	0.0	0.0	0.0	98.0	14.2	98.1	72.3	85.3	88.4	79.7	98.1	0.0	0.0	0.0	98.3	97.9	96.1	0.0	98.2	0.0	0.0	96.5	28.0	32.7	0.0	58.8	22.6	24.7	28.6	46.3	58.5	51.5	67.8	61.9	
5901640	0.0	0.0	0.0	0.0	79.3	0.0	0.0	7.2	0.0	3.6	0.0	0.0	0.0	0.0	7.1	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	50.8	0.2	0.2	0.0	0.4	0.0	0.0	0.3	0.0	
5901642	0.0	0.0	0.0	90.6	31.3	97.2	0.0	80.3	49.3	0.0	77.7	33.0	0.0	0.0	78.5	38.4	0.0	0.0	40.3	0.0	0.0	0.0	7.2	56.2	0.0	58.8	23.6	22.3	29.8	41.5	24.4	34.9	38.2	33.0	
5901643	0.0	0.0	0.0	92.2	2.2	0.0	81.6	74.8	0.0	72.1	97.3	0.0	0.0	0.0	96.1	0.0	96.1	0.0	94.0	0.0	0.0	93.5	28.0	55.3	0.0	58.8	22.6	28.8	29.8	47.0	54.2	51.5	64.5	61.9	
5901644	0.0	0.0	0.0	77.2	7.2	89.9	18.4	80.6	0.0	32.1	88.9	0.0	0.0	0.0	90.4	0.0	88.4	0.0	49.9	0.0	95.7	0.0	10.2	7.4	0.0	46.6	2.2	3.4	3.6	6.7	11.3	0.0	19.4	15.2	
5901645	0.0	0.0	83.9	0.0	17.2	0.0	0.0	36.2	0.0	46.4	35.8	0.0	0.0	64.8	45.4	0.0	0.0	81.0	16.5	0.0	0.0	10.2	13.1	0.0	0.0	7.4	6.6	8.5	12.7	4.2	24.1	7.9	8.4		
5901646	0.0	0.0	0.0	60.5	34.5	0.0	18.4	45.1	86.1	33.6	76.5	0.0	0.0	70.2	76.7	0.0	84.4	0.0	49.9	0.0	0.0	14.9	18.5	0.0	0.0	8.5	9.0	9.9	14.5	11.3	24.1	16.9	15.2		
5901647	0.0	0.0	0.0	60.5	55.2	0.0	10.5	17.8	0.0	3.9	26.4	0.0	0.0	0.0	29.8	0.0	0.0	81.0	28.1	0.0	0.0	0.0	41.1	43.0	0.0	46.6	45.6	41.6	37.4	50.5	29.6	51.5	36.0	33.0	
5901648	79.3	0.0	0.0	18.7	30.0	0.0	0.0	7.2	0.0	6.9	23.7	0.0	0.0	0.0	32.7	0.0	0.0	0.0	6.6	0.0	0.0	0.0	13.7	32.7	0.0	0.0	11.5	11.0	13.2	15.3	7.7	24.1	10.5	8.4	
5901650	0.0	0.0	0.0	77.2	82.5	0.0	88.2	73.1	93.6	91.1	59.7	0.0	0.0	0.0	69.7	0.0	0.0	0.0	85.5	0.0	0.0	0.0	52.5	88.6	0.0	84.2	78.7	76.6	79.7	84.9	77.5	86.7	86.8	79.1	
5901651	0.0	0.0	90.6	60.5	62.1	0.0	77.9	73.1	0.0	73.6	66.9	0.0	0.0	0.0	68.3	0.0	0.0	0.0	64.1	0.0	0.0	0.0	24.8	25.2	0.0	74.2	32.4	36.9	41.3	53.9	44.5	34.9	51.4	48.5	
5901652	0.0	0.0	0.0	31.3	41.6	87.1	18.4	45.1	0.0	8.2	23.7	0.0	0.0	0.0	18.9	0.0	0.0	0.0	35.4	0.0	0.0	0.0	18.9	45.6	0.0	50.8	44.8	29.4	48.2	58.8	36.0	45.2	43.4	33.0	
5901653	79.3	0.0	0.0	98.0	26.4	0.0	88.9	97.2	0.0	97.6	94.0	0.0	0.0	0.0	96.7	0.0	97.4	0.0	98.4	0.0	99.8	0.0	90.3	94.8	0.0	74.2	86.0	80.9	93.2	96.3	98.0	94.3	95.8	94.8	
5901654	79.3	0.0	0.0	60.5	73.0	0.0	63.5	69.9	0.0	73.9	67.9	0.0	0.0	0.0	72.3	0.0	0.0	81.3	0.0	0.0	0.0	90.1	28.0	71.4	0.0	74.2	44.1	50.1	54.4	66.0	58.5	65.4	64.5	48.5	
5901655	0.0	0.0	90.6	31.3	85.9	0.0	68.4	17.8	92.1	46.8	44.5	0.0	0.0	0.0	40.6	0.0	0.0	0.0	65.1	0.0	0.0	0.0	12.5	96.2	0.0	66.9	49.2	41.6	67.8	58.8	62.9	61.3	74.0	61.9	
5901656	0.0	0.0	0.0	0.0	90.9	0.0	35.9	57.7	0.0	63.4	20.8	0.0	0.0	0.0	21.5	0.0	0.0	0.0	62.3	0.0	0.0	92.8	16.7	52.5	0.0	58.8	44.1	41.6	55.2	61.6	49.2	65.4	59.9	48.5	
5901658	0.0	0.0	0.0	60.5	41.6	87.1	35.9	60.8	83.5	33.6	75.3	0.0	0.0	0.0	76.7	0.0	0.0	0.0	49.9	0.0	0.0	0.0	14.9	35.8	0.0	0.0	8.5	13.3	12.0	19.4	15.7	24.1	24.1	15.2	
5901659	0.0	0.0	0.0	31.3	82.5	0.0	10.5	17.8	0.0	13.6	39.1	0.0	0.0	0.0	42.6	0.0	0.0	87.2	31.9	0.0	0.0	7.2	11.2	0.0	0.0	3.5	4.3	5.5	7.5	4.2	0.0	14.7	8.4		
5901660	88.3	0.0	0.0	77.2	75.3	0.0	48.5	89.8	0.0	71.9	75.9	0.0	0.0	0.0	80.8	97.9	0.0	0.0	91.6	0.0	0.0	0.0	47.2	56.2	0.0	84.2	57.6	64.7	69.5	77.0	74.7	69.2	75.4	71.0	
5901661	0.0	0.0	83.9	31.3	77.3	0.0	10.5	31.4	83.5	35.8	62.8	0.0	0.0	0.0	65.8	0.0	0.0	0.0	54.5	0.0	0.0	0.0	23.5	26.8	0.0	0.0	23.6	28.2	27.2	37.2	24.4	39.8	28.8	15.2	
5901662	0.0	0.0	0.0	77.2	87.0	0.0	68.4	82.8	0.0	87.9	75.9	0.0	0.0	0.0	82.9	0.0	93.4	0.0	91.5	0.0	0.0	93.5	45.9	57.0	0.0	50.8	59.0	64.7	69.5	77.0	65.4	69.2	78.0	79.1	
5901663	0.0	0.0	0.0	77.2	87.0	0.0	18.4	41.0	0.0	42.0	76.5	0.0	0.0	66.1	80.8	0.0	0.0	87.2	80.7	0.0	97.7	0.0	30.7	13.1	0.0	0.0	21.3	25.4	21.2	30.5	24.4	24.1	31.7	15.2	
5901664	0.0	0.0	0.0	98.8	22.0	95.8	74.5	79.1	98.1	86.9	95.1	0.0	0.0	0.0	99.4	0.0	99.7	0.0	99.6	0.0	0.0	97.7	67.7	23.7	0.0	50.8	26.8	47.8	33.7	58.8	71.9	69.2	81.5	79.1	
5901666	0.0	0.0	0.0	31.3	62.1	0.0	10.5	13.6	0.0	15.0	44.5	0.0	0.0	0.0	51.9	0.0	0.0	0.0	33.7	0.0	0.0	0.0	11.3	34.1	0.0	0.0	19.3	21.8	20.2	29.7	19.9	24.1	24.1	15.2	
5901667	92.8	0.0	0.0	92.2	62.1	0.0	80.3	91.7	94.6	84.7	96.4	0.0	0.0	0.0	96.0	0.0	93.4	0.0	97.2	0.0	0.0	0.0	49.5	71.4	0.0	80.1	49.2	58.1	55.2	70.2	74.				

SAMPLE	NEUTRON ACTIVATION ANALYSIS (INAA) 2A-HUMUS																																			
	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Na	Ni	Rb	Sb	Se	Se	Sr	Ta	Th	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu		
	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
155	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	10	0.5	0.5	0.1	1	20	0.1	1	3	0.1	0.2	0.2	0.1	0.1		
5901697	0.0	0.0	0.0	31.3	17.2	0.0	18.4	10.2	0.0	9.2	33.0	0.0	0.0	0.0	29.8	0.0	0.0	18.2	0.0	0.0	0.0	1.5	22.3	0.0	0.0	13.3	8.5	21.2	19.4	24.4	34.9	28.8	15.2			
5901698	0.0	0.0	0.0	60.5	96.6	93.8	57.6	69.9	0.0	72.0	58.2	0.0	0.0	85.5	60.7	0.0	0.0	82.8	0.0	0.0	0.0	13.7	45.6	0.0	74.2	56.4	39.3	70.7	61.6	77.5	78.3	89.5	79.1			
5901699	0.0	0.0	0.0	0.0	17.2	0.0	18.4	10.2	0.0	20.1	0.0	0.0	0.0	0.0	15.2	0.0	0.0	0.0	4.7	0.0	0.0	0.0	0.0	62.6	0.0	50.8	7.0	2.8	13.2	11.2	15.7	24.1	16.9	8.4		
5901700	0.0	0.0	0.0	31.3	10.5	0.0	0.0	10.2	0.0	8.6	64.8	0.0	0.0	0.0	53.3	0.0	0.0	0.0	13.2	0.0	0.0	0.0	0.7	16.5	0.0	0.0	2.4	1.4	4.9	3.1	7.7	14.7	10.5	0.0		
5901701	79.3	0.0	0.0	0.0	55.2	0.0	57.6	27.1	0.0	49.0	23.7	0.0	0.0	80.3	15.2	0.0	0.0	0.0	31.9	0.0	0.0	0.0	2.4	54.5	95.7	46.6	23.5	13.9	42.8	34.6	44.5	39.8	53.5	33.0		
5901703	95.9	0.0	90.6	95.3	2.2	0.0	91.6	92.9	94.6	88.9	97.3	0.0	0.0	94.0	96.8	0.0	97.4	0.0	99.2	0.0	99.7	0.0	71.2	92.8	0.0	0.0	71.8	67.9	85.7	86.3	96.2	90.2	97.8	97.0		
5901704	95.9	0.0	97.6	98.0	2.2	99.6	88.9	97.6	97.4	92.6	99.7	0.0	0.0	88.1	99.9	0.0	99.1	87.2	99.8	0.0	99.8	98.9	42.3	34.1	0.0	80.1	24.7	34.6	35.2	43.6	84.3	72.8	85.1	71.0		
5901705	0.0	0.0	0.0	18.7	55.2	0.0	72.3	17.8	0.0	79.1	41.7	0.0	0.0	95.2	32.7	0.0	0.0	0.0	22.5	0.0	0.0	0.0	7.2	89.0	0.0	0.0	22.4	18.2	32.5	28.5	29.6	34.9	40.7	15.2		
5901706	79.3	0.0	0.0	18.7	17.2	0.0	0.0	6.2	0.0	8.2	20.8	0.0	0.0	73.8	12.3	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.4	49.5	0.0	0.0	3.0	1.9	4.1	3.8	1.7	0.0	5.9	0.0		
5901707	0.0	0.0	0.0	18.7	10.5	0.0	10.5	13.6	0.0	11.2	48.9	0.0	0.0	0.0	40.6	0.0	0.0	0.0	25.7	0.0	0.0	0.0	3.4	65.5	0.0	0.0	9.8	2.5	16.7	17.5	19.9	28.8	28.8	15.2		
5901709	0.0	0.0	0.0	0.0	90.1	99.8	91.6	94.5	0.0	84.0	0.0	0.0	0.0	0.0	32.7	0.0	0.0	0.0	64.1	0.0	0.0	0.0	13.7	100.0	0.0	0.0	77.0	64.0	91.9	95.0	85.9	80.4	76.3	0.0		
5901710	0.0	0.0	83.9	60.5	81.1	0.0	35.9	31.4	0.0	35.8	46.7	0.0	0.0	0.0	50.5	0.0	0.0	0.0	53.4	0.0	0.0	0.0	9.3	99.1	0.0	0.0	46.0	31.4	54.4	47.4	62.9	51.5	43.4	0.0		
5901711	0.0	0.0	0.0	18.7	22.0	0.0	10.5	13.6	0.0	10.1	35.8	0.0	0.0	0.0	32.7	0.0	0.0	0.0	22.5	0.0	0.0	0.0	3.4	37.0	0.0	0.0	7.0	3.4	9.9	11.2	11.3	24.1	21.7	15.2		
5901712	0.0	0.0	0.0	18.7	41.6	0.0	18.4	13.6	0.0	23.4	29.4	0.0	0.0	0.0	27.4	0.0	0.0	0.0	25.7	0.0	0.0	0.0	2.4	95.5	0.0	50.8	18.1	12.1	28.6	25.2	24.4	28.6	33.5	15.2		
5901713	0.0	0.0	83.9	60.5	73.0	0.0	90.3	64.3	0.0	95.0	67.9	0.0	0.0	0.0	60.7	0.0	0.0	87.2	81.3	99.8	0.0	18.9	98.3	0.0	86.8	65.4	64.7	66.5	64.3	74.7	75.4	84.3	79.1			
5901714	0.0	0.0	0.0	60.5	41.6	0.0	10.5	10.2	0.0	6.0	35.8	0.0	0.0	0.0	38.4	0.0	0.0	0.0	13.2	0.0	0.0	0.0	1.1	98.5	0.0	0.0	5.4	5.8	7.2	8.9	0.0	14.7	4.1	0.0		
5901715	0.0	0.0	0.0	31.3	58.6	0.0	10.5	10.2	0.0	6.5	46.7	0.0	0.0	64.8	38.4	0.0	0.0	0.0	25.7	0.0	0.0	0.0	1.5	7.4	0.0	0.0	10.5	5.8	9.9	7.5	7.7	15.9	21.7	8.4		
5901717	0.0	0.0	0.0	31.3	22.0	0.0	10.5	13.6	0.0	10.5	63.6	0.0	0.0	77.4	65.8	0.0	0.0	0.0	20.6	0.0	0.0	0.0	4.3	45.6	0.0	0.0	5.4	5.8	6.6	5.1	4.2	19.2	10.5	8.4		
5901718	76.9	0.0	0.0	77.2	2.2	93.0	35.9	41.0	0.0	76.3	89.1	0.0	0.0	91.8	84.9	0.0	0.0	0.0	74.8	0.0	0.0	0.0	18.9	84.1	0.0	50.8	36.5	38.3	44.0	43.1	54.2	51.5	62.7	61.9		
5901719	0.0	0.0	0.0	31.3	17.2	92.0	57.6	13.6	0.0	28.4	73.9	0.0	0.0	0.0	69.7	0.0	0.0	0.0	40.3	0.0	94.1	0.0	6.5	94.9	0.0	58.8	30.9	28.2	33.7	31.1	44.5	34.9	38.2	15.2		
5901720	0.0	0.0	0.0	31.3	17.2	0.0	18.4	21.9	0.0	15.0	61.6	0.0	0.0	0.0	60.7	0.0	0.0	0.0	35.4	0.0	0.0	88.9	10.2	14.5	0.0	50.8	8.2	9.0	9.9	7.5	11.3	15.9	16.9	8.4		
5901721	76.9	0.0	0.0	31.3	22.0	0.0	18.4	31.4	0.0	26.4	23.7	0.0	0.0	0.0	9.1	0.0	0.0	0.0	60.8	0.0	0.0	0.0	2.4	75.1	0.0	0.0	62.6	29.4	84.3	81.2	85.9	84.5	93.5	91.2		
5901723	0.0	0.0	0.0	77.2	5.1	0.0	68.4	31.4	0.0	70.2	99.4	0.0	0.0	0.0	92.3	0.0	88.4	0.0	91.5	0.0	0.0	91.2	14.9	61.5	0.0	50.8	39.2	19.2	59.8	64.3	80.0	72.8	91.7	88.5		
5901724	0.0	0.0	0.0	31.3	10.5	0.0	68.4	49.3	0.0	93.2	72.6	0.0	0.0	70.2	64.7	0.0	0.0	0.0	62.3	0.0	0.0	0.0	23.5	25.2	0.0	50.8	25.6	31.8	38.6	39.5	44.5	51.5	58.2	33.0		
5901725	0.0	0.0	0.0	0.0	37.6	92.0	18.4	10.2	0.0	49.8	29.4	0.0	0.0	0.0	12.3	0.0	0.0	0.0	44.5	0.0	0.0	0.0	4.3	91.3	0.0	58.8	28.4	18.4	32.5	32.3	29.6	34.9	45.5	33.0		
5901726	79.3	0.0	0.0	31.3	26.4	0.0	35.9	31.4	0.0	48.4	46.7	0.0	0.0	77.4	50.5	0.0	0.0	81.0	57.2	0.0	0.0	0.0	15.8	40.5	0.0	0.0	36.5	31.8	42.6	37.2	44.5	45.2	53.5	33.0		
5901727	0.0	0.0	0.0	31.3	3.2	0.0	18.4	27.1	0.0	29.6	75.3	0.0	0.0	0.0	69.1	0.0	0.0	0.0	53.4	0.0	0.0	0.0	18.9	22.3	0.0	0.0	17.5	18.2	18.8	20.4	24.4	28.8	33.5	15.2		
5901728	0.0	0.0	0.0	60.5	37.6	0.0	18.4	31.4	88.4	31.1	78.0	0.0	0.0	0.0	76.2	0.0	0.0	81.0	46.6	0.0	0.0	13.7	18.5	0.0	0.0	7.4	7.9	8.5	6.7	11.3	19.2	16.9	15.2			
5901730	0.0	0.0	0.0	31.3	67.6	0.0	18.4	27.1	0.0	43.7	70.5	0.0	0.0	69.6	67.5	0.0	0.0	0.0	46.6	0.0	0.0	0.0	11.3	5.8	0.0	0.0	14.3	14.9	15.6	14.5	15.7	24.1	26.5	15.2		
5901731	0.0	0.0	0.0	31.3	48.7	0.0	18.4	13.6	0.0	32.1	78.5	0.0	0.0	70.2	75.5	0.0	0.0	96.1	38.5	0.0	0.0	0.0	7.2	0.0	0.0	46.6	5.4	5.8	7.2	6.1	11.3	34.9	21.7	15.2		
5901732	0.0	0.0	0.0	31.3	45.1	0.0	10.5	10.2	0.0	18.1	54.4	0.0	0.0	0.0	42.6	0.0	0.0	81.0	18.2	98.9	0.0	0.0	5.1	5.8	0.0	0.0	6.3	5.8	7.2	5.1	7.7	15.9	14.7	15.2		