

**REPORT ON  
THE 2008 GEOLOGICAL MAPPING AND SAMPLING  
PROGRAM  
ON THE LOBSTICK PROPERTY  
KENORA M.D., ONTARIO**

*For*

***TECK COMINCO LIMITED***

By

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## **SUMMARY**

The Lobstick property consists of 32 claim units totaling 512 hectares located 50 kilometres southeast of Kenora. This 100% Teck Cominco Ltd. owned property is situated along the favorable eastern extension of the regional-scale deformation zone known as the Wabigoon Fault and is near its junction with the Pipestone Cameron Lake Fault. The property is located over a large felsic volcanic centre of the Berry Creek formation within the sediment package of the Warclub assemblage (2700-2704 Mya). This amphibolite grade metamorphic assemblage on the property hosts a disseminated gold system similar to Thunder Lake and Rainy River and others within the Wabigoon assemblage.

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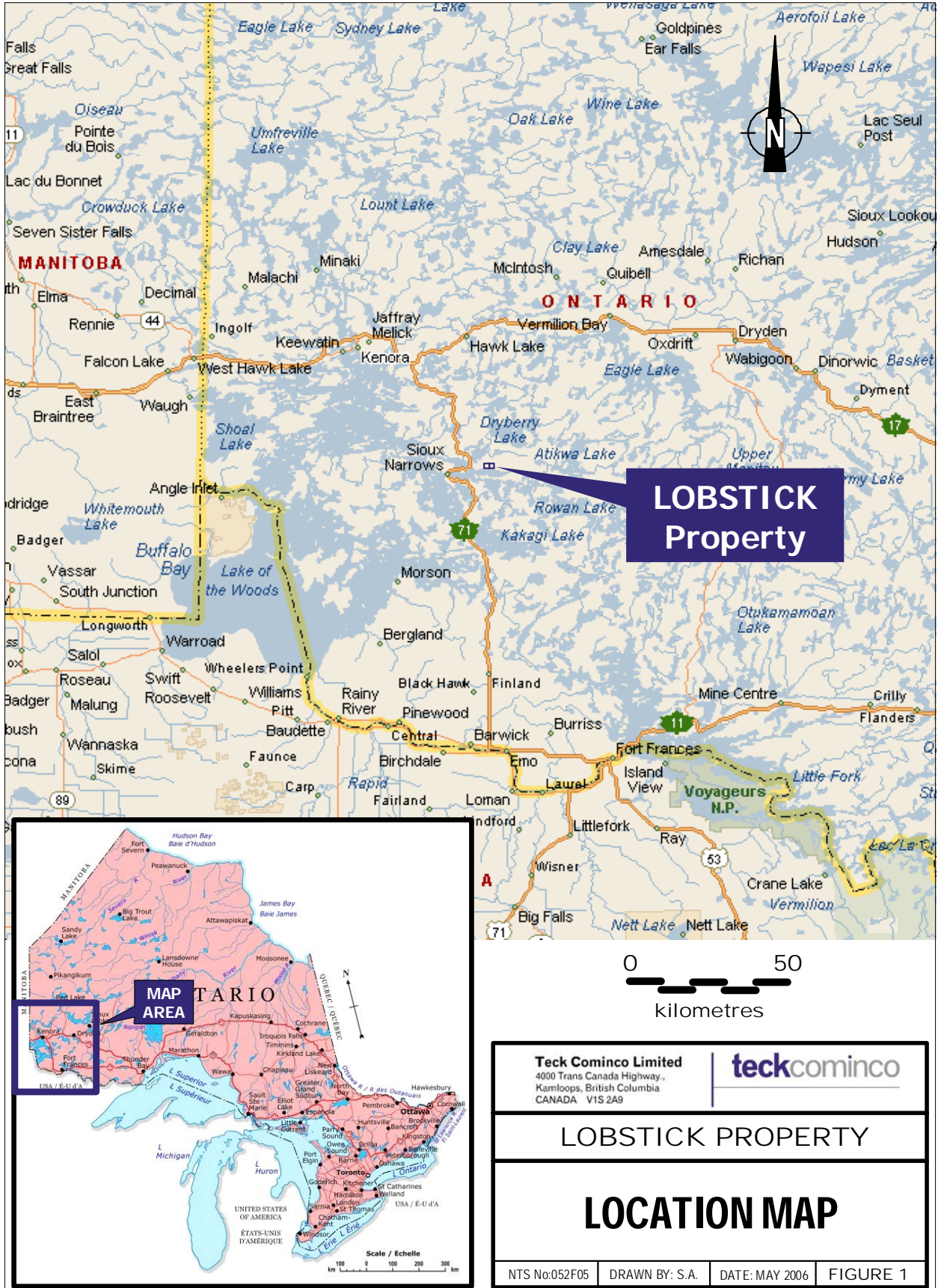
## **INTRODUCTION**

The Lobstick property is located 50 kms SE of Kenora and covers a portion of Berry Creek felsic volcanic rocks and intrusive rocks within a portion of the Warclub group. This property has a number of historical disseminated gold occurrences that were on open ground early in 2006. Teck Cominco Limited staked the ground and this report describes the fieldwork conducted in during the 2008 field season. The program focused on sampling within the altered zone where mineralization and alteration styles were confirmed during the 2006 program. 125 samples were taken from throughout the main shear zone and detailed notes on the alteration and mineralization were recorded in order to determine correlations between gold values and alteration mineralogy.

## **LOCATION, PHYSIOGRAPHY AND ACCESS**

The Lobstick property consists of 32 claim units totaling 512 hectares located 50 kilometres southeast of Kenora. The property is centered at 433400E, 5476000N (Nad 83-Zone 10) within N.T.S 052F/05.

The property is accessed via Hwy 72 between Kenora and Sioux Narrows. Approximately 5 km's north of Sioux Narrows, the gravel Maybrun logging road is taken for an additional 7-10 kms to the east and traverses the entire central portion of the property. The property is accessible with the main "Maybrun" road and a number of side logging roads with several logging cuts exposing areas of outcrop in the last decade. Outcrop exposure is moderate with 8-10% exposure in generally hummocky country but structural altered zones are strongly eroded developing linear creeks and gullies with less than 1% exposure. Coniferous forest cover is dominant over much of the inland areas while scrubby oak cover dominates proximal to the shoreline of Lake of the Woods.



**PROPERTY**

The Lobstick property consists of 32 contiguous claim units or 512 hectares (Fig. 2). All claims are presently in good standing to March 08, 2009. This 100% Teck Ltd. owned property was staked on open ground on March 08, 2006.

**TABLE 1  
LOBSTICK PROPERTY CLAIM STATUS**

Township/Area	Claim Number	Recording Date	Claim Due Date	Status	Percent Option	Work Required	Total Applied	Total Reserve	Claim Bank	Claim Units
LOBSTICK BAY (LAKE OF THE WOODS)	<a href="#">4207754</a>	2006-Mar-08	2009-Mar-08	A	100%	\$6,400	\$6,400	\$1,060	\$0	16
LOBSTICK BAY (LAKE OF THE WOODS)	<a href="#">4207755</a>	2006-Mar-08	2009-Mar-08	A	100%	\$6,400	\$6,400	\$1,060	\$0	16



**Fig.2 Claim Map**

## PREVIOUS WORK

Work on the property dates back to the mid 1940's when the ODM inspected fluorite +/- gold showings staked by J.M. Thrasher.

1964 D.V. Reade trenched and drilled six x-ray holes into the fluorite showings to assess their potential.

Activity resumed in the early 1980's when Bob Fairservice recognized additional gold potential in the area and staked and optioned the property. Several groups have explored the property more recently including:

1983 Esso Minerals Canada conducted geological mapping, stripping, trenching and channel sampling with limited mag and VLF surveys.

1984-1987 B.P. Selco optioned the property from Bob Fairservice and geologically mapped the property, soil sampled, conducted I.P. surveys and did limited hand trenching. In conjunction they also drilled twelve diamond drill holes (2430m's) on the main zone.

1988 Noranda/Noront conducted a small humus sampling program.

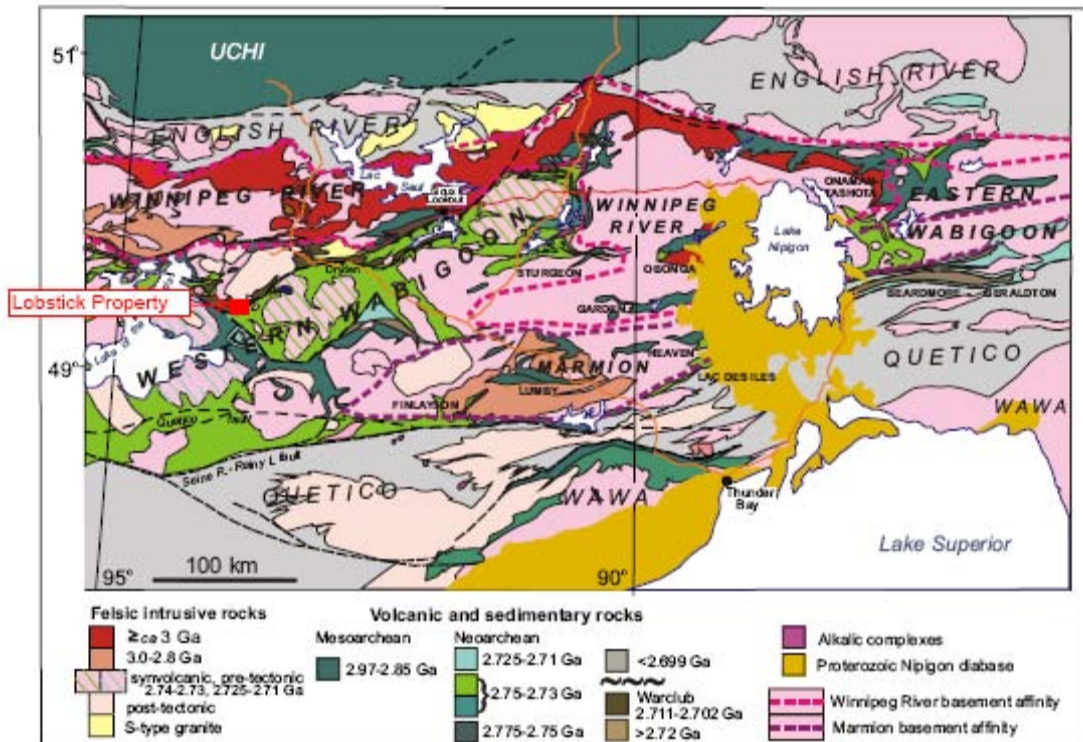
1990-1992 Phelps Dodge Corporation conducted additional geological mapping, I.P. surveys and work culminating in an additional five diamond drill hole program (700m).

Since 1992 to staking the property in 2006 no work has been recorded.



## REGIONAL GEOLOGY

The Lobstick property is located in the northwestern portion of the Wabigoon subprovince and covers the central portion of the Berry River formation which is a portion of the Warclub group. The property is just northeast of the junction of two regional scale fault systems namely the Pipestone-Cameron lake fault and the Wabigoon fault systems. The property covers a western portion of the late stage sediment dominated Warclub group which hosts other disseminated gold systems to the east, namely the Plomp Farm and Thunder Lake properties. On a more local scale the property is bounded by the Dryberry Batholith to the north and the Kishaquabik Lake Stock to the east. Older mafic volcanic rocks lie south of the Pipestone-Cameron Lake fault and the Wabigoon fault namely Populus and the Snake Bay Formation.



**Fig.3** Distribution of granite-greenstone belts of the Wabigoon and Winnipeg River terranes and Marmion domain in a regional context. Note the distribution of variable-age plutonic basement rocks for which the extent of the  $\geq 3$  Ga Winnipeg River terrane and  $\leq 3$  Ga Marmion domain are defined. The adjacent English River and Quetico plutono-metasedimentary belts are also shown unsubdivided in grey pink tones.

Within the Berry River Formation several geologists such as (Milne) have mapped detailed stratigraphic subdivisions within the felsic complex. The property itself is centered near the central vent facies overlain to the south by proximal shallow water facies. The Berry River Formation thins and becomes progressively more distal to the west.

### Lobstick Property relative to Berry River Fm. Facies

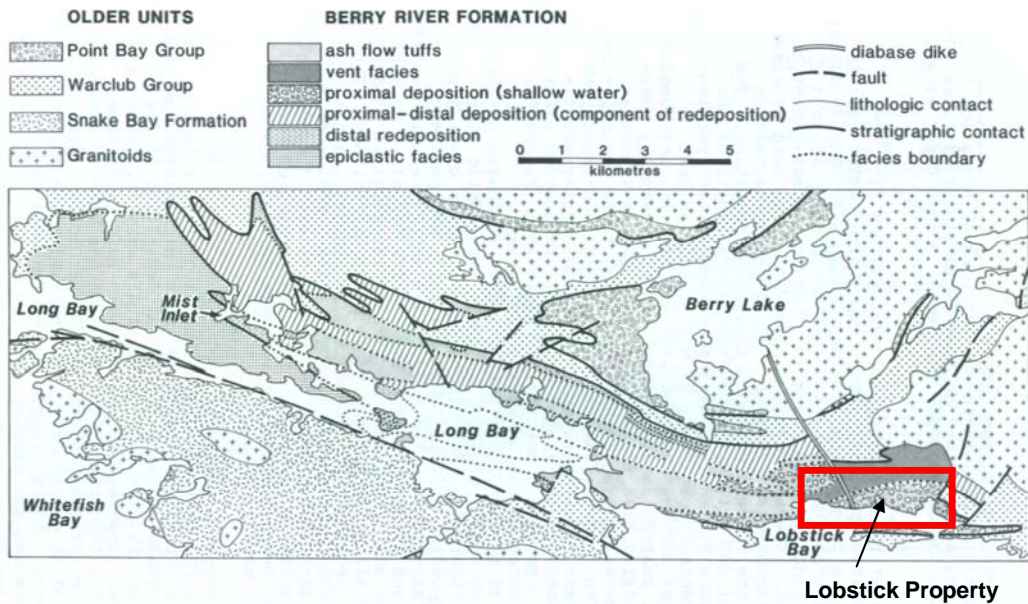


Fig.4

Schematic diagram of the facies distribution of the Berry River formation. Vent facies is a subvolcanic quartz-feldspar porphyry intrusive into the base of a volcano. Proximal deposition facies is composed of coarse homolithic pyroclastics. Proximal-distal deposition facies contains a variety of pyroclastic deposit types. Distal redeposited and epiclastic facies are derived from the previous facies.

## PROPERTY GEOLOGY

The Lobstick property covers lower amphibolite facies rocks of the Berry River Formation. The past regional mapping had identified proximal vent volcanic rocks over much of the property and previous B.P. Selco work had also identified subvolcanic intrusive rocks on the property. Much of this previous work was confirmed in the 2006 geological work.

Lithologies on the property are dominated by QFP dacites to rhyolite composition rocks with a generally pale grey to yellow aphanitic and commonly weakly foliated matrix with variable 5-15% 1-3mm plagioclase phenocrysts and 10-20% 1-5 mm quartz phenocrysts. Occasional fragmental sections appear randomly and are difficult to follow on strike. These often display a primary pyroclastic texture with fragments consisting of the same composition as the groundmass. This uniform anomalously thick felsic sequence (unit 3) supports regional mapping which indicates the property covers the volcanic center. This is further supported by rocks of unit 6 which are believed to be the high level intrusive equivalent of unit 3. This unit is very similar compositionally but the groundmass is generally more porphyritic and dykes can be seen crosscutting earlier volcanic rocks of unit 3. Field recognition is augmented with a pink hue common in rocks of unit 6, caused by hematite or pottasic alteration.

Rare sedimentary sequences are present both as thin sequences within the thick sequence of unit 6 and along the southwest shore of Lobstick Bay area. These metasedimentary rocks (unit 4) are identified by the development of foliated biotite rich sections +/- the presence of 2-10 mm garnets. Minor diopside, garnet rich beds may reflect more calcsilicate rich sediments. Some of the main mineralized and altered structural corridor has sections with abundances of biotite and garnet but whether these units were originally sediments could not be determined.

Late felsic intrusive rocks of the Kishaquabik Lake Stock are present as syenite dykes in the extreme NE portion of the property . Late mafic dykes ( unit 5) are rarely seen as narrow 0.5-4.0 meter wide dykes throughout the property usually parallel the regional foliation (~ 100-110 degrees) and consist of biotite/chlorite rich rock with rare hornblende phenocrysts poorly preserved. These rocks appear to postdate much of the alteration and mineralization. The youngest rock type (unit 8) on the property is a conspicuous NW trending diabase dyke which ranges from 20-30 meters in width across the western side of the property. This unit forms a pronounced topographic high feature which is well exposed on surface.

Structure is typically a planar widespread weak foliation striking between 100 and 110 degrees and dipping subvertically. Select deformation corridors exist subparallel to the foliation over widths of 50-100 meters width. On a small scale small isoclinal folds were observed with moderate west plunges. On a larger scale the Warclub sediments suggest a large scale antiform is present through the core of the property.

### **MINERALIZATION AND ALTERATION**

The 2008 program focused on the roughly east-west trending shear zone on the Lobstick Property. The shear zone strikes between 100 to 110 degrees and dips subvertically. It is typically between 50 and 100m wide and about 3km in length. 125 samples were taken from the shear zone and their locations and alteration can be found on Maps 1 and 2 respectively as well as description of the samples and their co-ordinates can be found in Appendix I.

The rocks within the shear zone are typically sericite schists, but locally the alteration is not that strong and the original rock type can be determined. Typically within the shear zone the outcrop is very recessive and thus is restricted to a few large outcrops that were trenched and lakeshore exposures. There are several

different types of alteration and evidence for multiple alteration events within the main shear zone. There is a strong sericite alteration, silicification, and local biotite alteration. There is also an unusual amount of fluorite on the property ranging between 1 and 10% as fine grained disseminated grains or as small veinlets.

Sericite is found pervasively throughout the shear zone, but is very intense in the central and eastern portions of the shear zone. It ranges from strong to complete replacement, in which case the rocks are extremely schistose. In areas where there is less sericite and silica alteration the rocks in the shear zone can still be identified as felsic volcanic. Quartz eyes are found throughout much of the shear zone, because they are the most resistant to alteration.

In the eastern portion of the shear zone is evidence for multiple silicification events and ranges from weak to moderate in intensity. The first being a flooding of silica with the sericite alteration followed by a later more vein-like silicification leaving ribbon quartz. In this part of the shear zone there is biotite and pyrite deposited along these ribbon boundaries. In a few locations there is a massive pinkish silicification with euhedral biotite flakes in it. This is found only in the western portion of the shear zone and there is not usually pyrite associated with it.

Fuchsite is found locally within the shear zone but is always found in the most intensely altered areas. Generally it is associated with strong silicification and sericite alteration where there is complete replacement of the original host rock. Up to 10% pyrite was observed in this type of alteration, but in other areas there was only trace to 2% pyrite. This type of alteration is found in the central part of the shear zone on the two large outcrops and on the east side of the small bay where the shear zone extends along the shoreline. Areas with associated fuchsite also have the highest Au values.

Locally in the areas with strong sericite and silica alteration that contain pyrite the pyrite is associated with a medium grey, sometimes greenish, very fine grained

mineral within the silica that may be chlorite. This alteration is sometimes observed in areas that have biotite pods containing pyrite. There are also other areas where this mineral is found just within silicification without any biotite alteration.

On the outskirts of the shear zone there is often biotite alteration which occurs along shear planes and often has trace pyrite associated with it. The pyrite, however is usually subhedral to euhedral, fine to medium grained and usually quite bronze. In the central part of the shear zone in the trenched areas, this type of biotite layering is found at the southern portions of the trenched outcrops. Locally the biotite alteration is observed as fine grained euhedral to subhedral flakes, but this is generally found in areas where there is more massive pinkish silica alteration. Within the shear zone, the less silicified and sericite altered rocks have higher degrees of biotite alteration. This type of alteration is found in the western portion of the shear zone as well as just east of the central part of the shear zone. There are also areas within the shear zone where there is little alteration but trace to 2% pyrite in rocks that are still distinguishable as tuffs. These tuffs are weakly silicified and biotite altered and can sometimes contain garnet and amphibole alteration.

Locally there is magnetite, garnet and hornblende alteration. Magnetite alteration was observed locally in the western portion of the shear zone and was very strong. It was observed as fine to medium grained subhedral to euhedral grains disseminated along the shear planes. Garnet and hornblende were observed disseminated in several locations within the shear zone, with no apparent pattern as to what other alteration type they are associated with. Hornblende alteration was found locally and was observed as fine grained subhedral to euhedral crystals disseminated within the alteration and is often found within the less sericite altered parts of the shear zone.

Pyrite is the main type of mineralization in the shear zone and is found in two morphologies. The first is a very fine grained, pale, subhedral to anhedral

disseminated pyrite that is associated with strong silica and sericite alteration. This alteration is generally very massive and the pyrite is evenly disseminated throughout it. These areas often have high percentages of pyrite up to 10% and locally have fuchsite. The second morphology of pyrite is usually associated with the biotite alteration. This morphology of pyrite is often coarser grained, euhedral to subhedral and very bronze in colour and occurs between trace and 4%. This is usually found along shear planes with the biotite or in clumps within layers or pods of biotite alteration. The presence of the pyrite with the biotite could indicate that the biotite is actually alteration and not just remnant sediments within the shear zone.

The alteration and mineralization within this shear zone definitely suggests multi-phase alteration and to determine where the gold is the extensive sampling of all alteration and mineralization types across the shear zone. The highest Au values (between 0.03 and 0.08 ppm Au) correspond to the most intensely altered rocks and often have associated fuchsite. The samples that ran the highest gold values also do not have a correlation to high amounts of sulfides. Only 1-2% pyrite was observed in most of the samples and in several of the samples that ran the highest Au values there was only trace pyrite.

Based on previous years work several anomalous pathfinder elements were determined that had a positive correlation with Au values. F, Zn, Mo, V, As, Sb and Hg showed a positive correlation with Au. The 2006 sampling program yielded maximum values of 936 ppb Au, 592 ppb Hg, 114 ppm Zn, 173 ppm Mo, 77 ppm V, 45 ppm As and 15ppm Sb.

The data collected as part of the 2008 program produced similar low Au values. A correlation matrix was made using several pathfinder elements in order to determine some trends between Au values and alteration. The new data that were yielded from the 2008 program showed maximum values of 0.08ppm Au, 1.86ppm Ag, 169ppm As, 8670ppm Ba, 18ppm Bi, 5% K, 16ppm Mo, 6% Na, 328ppm Pb,

18ppm Sb, 10ppm Tl, 16ppm U and 19ppm W. There are positive correlations between Au and all of these elements (see maps 3 and 4) except for Na, which has a negative correlation. Along with the positive K correlation, the negative Na trend is indicative of more altered rocks having higher gold values. Both sericite and biotite alteration would account for an increase in K and a decrease in Na. There is also a very strong positive correlation between Au and Mo, Tl and Sb.

	Maximum	Minimum
Ag(ppm)	1.86	0.01
As(ppm)	169.5	0.3
Ba(ppm)	8670	80
Bi(ppm)	18.55	0.02
K(%)	5.03	0.14
Mo(ppm)	16.75	0.11
Na(%)	6.65	0.07
Pb(ppm)	328	4
Sb(ppm)	18.15	0.07
Tl(ppm)	10.75	0.16
U(ppm)	16	0.3
W(ppm)	19.1	0.2
Au(ppm)	0.08	0.001

Table 2. Summary of maximum and minimum values for the pathfinder elements chosen for the correlation matrix

The main deformation zone contains all of the historic showings on the property and follows the regional foliation from the southeast corner of the property to the extreme western central portion of the property and a majority of historic drilling has been conducted on this trend. Historically, the best Au values were produced from trenches on the southeast side of Lobstick Bay. Grab samples from this area



have returned values up to 13,100 ppb Au and channel sampling has returned values up to 2100 ppb Au over 2.6 meters. Drilling by B.P. under this showing returned similar values at a shallow depth but the potential is demonstrated by holes such as LB-01-03 located 200 meters to the northwest of this area. Hole LB-01-03 returned values of 0.602 g/t Au over 17.76 meters (including 2.10 g/t Au over 4.76 meters then the zone was intruded by a late mafic dyke and was followed with a further 0.696 g/t Au over 18.57 meters (including an interval of 1.32 g/t Au over 4.57 meters). This hole is under Lobstick Bay near a swamp and demonstrates the potential in this subdued poorly exposed corridor. B.P. Selco (Pryslak) had postulated an Archean epithermal prospect being present with the unusual presence of fluorite in the system.

## **CONCLUSIONS AND RECOMMENDATIONS**

The Lobstick property hosts a large structural zone with widespread alteration and mineralization over a strike length of greater than 3.0 km's and widths from 50-150 meters. This system while of generally low gold grades displays widespread anomalous gold values within a strong alteration system. The system is best described as a disseminated gold system with an unusual presence of a high fluorite content. Positive correlations between Au and pathfinder elements such as Ag, As, Ba, Bi, K%, K/Na, Na%, Mo, Pb, Sb, U, Tl and W were determined from the 125 samples collected in the 2008 field season. Although the Au values returned from the 2008 program were low, there is still indication using correlation between pathfinder elements and historic data, that the system may host better gold mineralization. Thin section work and additional trenching in the areas that yielded strong correlations between elements and Au would be beneficial to better identify the nature of the system.

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**APPENDIX I**  
**Sample Descriptions and Locations**

Sample Number	UTM		Description			Alteration						Notes		
	Easting	Northing	Legend	% sulfide	neralizi	Intensity	Mineral	Intensity	Mineral	Intensity	Mineral		Intensity	Mineral
H444584	433135	5476057	3s	3-6	py	3	ser	4	silc	1	grt			
H444585	433136	5476057	3s	3-6	py	2	ser	3	silc					
H444586	433139	5476055	3s	1-3	py	5	silc	3	ser				locally less schisty and less altered	
H444587	433138	5476047	3s	3-6	py	5	silc	4	ser	2	green mica		less py, more altered	
H444588	433137	5476056	3s	3-6	py	5	silc	4	ser				py is fg dissem and clotty, more altered than N samples, grey metallic mineral (magnetite?)	
H444589	433142	5476052	3s	3-6	py	5	silc	3	ser	2	bt flakes		fg dissem py subhedral to euhedral, qtz eyes	
H444590	433145	5476077	3s	8-10	py	5	silc	3	ser				py is fg disseminated, subhedral to euhedral medium grained	
H444591	433146	5476071	3s	10	py	3	silc	3	ser	1	fuchsite		fg anhedral v.pale dissem py and fg euhedral yellow dissem py	
H444592	433062	5476096	3s	8-10	py	5	silc	4	ser				py is fg, anhedral and mg euhedral, all pale	
H444593	433070	5476088	3s	6-8	py	5	silc	4	ser				py is fg dissem, pale, subhedral to anhedral, very altered	
H444594	433059	576083	3s	3-4	py	4	silc	2	ser	3	bt		py is fg, pale dissem, anhedral, more sericite than usual	
H444595	433027	5476072	3s	3-4	py	5	silc	3	ser	1	hl/gr.mica		sub to euhedral, yellow, disseminated, bt layers in schist parallel to foln	
H444596	433031	5476073	3s	3-4	py	4	silc	2	ser	2	bt		likely a tuff breccia, fg pale py anhedral to subhedral dissem, qtz eyes	
H444597	433011	5476103	3s	2-3	py	5	silc	3	ser	1	fuchsite	1	bt	likely a tuff breccia, fg pale yellow subhedral dissem py, clasts have qtz eyes, qtz eyes in grndmass
H444598	433060	5476089	3s	4-6	py	5	silc	3	ser	1	fuchsite			
H444599	433207	5476205	3s	1-2	py	5	silc	3	ser				vfg dissem subhedral py	
H444600	DULPLICATE OF H444599													
H444601	433445	5475846	3s	3-4	py	5	silc	3	ser				fg dissem subhedral py	
H444602	433447	5475845	3s	tr to 1	py	5	silc	2	ser				fg dissem	
H444603	433463	5475838	3s	1-2	py	5	silc	3	ser	1	fuchsite		fg dissem anhedral py, greater py in darker silc areas	
H444604	433494	5475857	3s	1-2	py	4	silc	2	ser				fg dissem py, less altered in stream	
H444605	433470	5475816	3s	tr to 1	py	4	silc	2	ser				fg dissem py	
H444606	433478	5475792	3s	4-5	py	5	silc	3	ser				fg dissem pale subhedral to anhedral py	
H444607	433479	5475792	3s	2-3	py	5	silc	3	ser				fg dissem subhedral py	
H444608	433477	5475791	3s	3-4	py	5	silc	3	ser				fg dissem subhedral, locally clotty py	
H444609	433479	5475791	3s	3-4	py	5	silc	3	ser				fg dissem subhedral py	
H444610	433553	5475737	3s	6-8	py	5	silc	3	ser				pale fg dissem anhedral to subhedral py, qtz eyes	
H444611	433549	5475740	3s	tr to 1	py	5	silc	2	ser				fg dissem subhedral py	
H444612	433560	5475730	3s	1-2	py	5	silc	3	ser				fg pale dissem py, qtz eyes	
H444613	433566	5475721	3s	trace	py	4	silc	1	ser	1	fuchsite		crystal tuff, fg dissem py, qtz eyes	
H444614	433489	5475707	3s	1	py	5	silc	1	ser				fg dissem, qtz eyes	
H444615	433489	5475707	3s	1	py	5	silc	2	ser				fg dissem subhedral py, qtz eyes	
H444616	433651	5475697	3s	1-3	py	4	silc	3	ser				fg dissem subhedral py	
H444617	433656	5475688	3s	1-2	py	5	silc	4	ser				fg dissem subhedral py	
H444618	433697	5475677	3s	trace	py	5	silc	4	ser	1	fuchsite		fully replaced silc in shear with ser and minor fuchsite	
H444619	433698	5475679	3s	3-4	py	5	silc	4	ser				fg pale subhedral dissem py	
H444620	433704	5475687	3s	1-2	py	5	silc	4	ser				fg subhedral dissem py	
H444621	433709	5475776	3s	trace	py	2	silc	2	bt				fg subhedral dissem py, tuff still in place, only weak silc and dissem bt.	
H444622	433676	5475790	3s	trace	py	4	silc	2	ser				fg subhedral dissem py, qtz eyes	
H444623	433676	5475790	3s	1	py	4	silc	2	ser				fg subhedral dissem py	
H444624	434193	5475526	3s	trace	py	4	silc	2	ser				fg subhedral dissem py	
H444625	DULPLICATE OF H444624													
H444626	434187	5475522	3s	trace to 1	py	4	silc	2	ser	1	grt		fg subhedral dissem py	
H444627	434169	5475515	3s	1-2	py	4	silc	2	ser	1	bt		fg subhedral dissem py, locally clotty, qtz eyes, bt in lenses and pods, py with bt	
H444628	434175	5475514	3s	trace	py	5	silc	2	ser	1	grt		qtz eyes	
H444629	434180	5475498	3s	trace	py	4	silc	2	ser	1	grt			
H444630	434175	5475494	3s	2-3	py	5	silc	3	ser	2	grt		fg subhedral dissem py, local clumps of dissem pyrite	
H444631	434194	5475493	3s	trace to 1	py	5	silc	3	ser				along strike with 630	
H444632	432433	5475958	3s	trace	py	3	silc	2	ser	1	hbl		fg dissem py, qtz eyes, crystal tuff breccia	
H444633	432441	5475960	3s	trace	py	2	silc	1	ser				fg dissem py, tuff breccia, qtz eyes	
H444634	432534	5475939	3s	trace	py	2	grt	3	mag				magnetite is disseminated and within a zone 2cm wide and 3-4% locally, grt is disseminated weakly	
H444635	432534	5475931	3s	trace	py	1	silc	1	ser				fg dissem py, felsic crystal tuff	
H444636	432533	5475947	3c	trace	py	1	hbl	1	grt	1	silc		fg dissem py, crystal tuff, blue qtz eyes	
H444637	432533	5475956	3c	trace	py	1	silc	1	ser	1	bt			
H444638	432549	5475940	3c	trace	py	1	hbl	1	silc				blue qtz eyes	
H444639	432565	5475977	3c	trace	py	2	bt	1	silc				fg dissem py	
H444640	432546	5475974	3s	1	py	5	silc	3	ser				fg dissem subhedral py	
H444641	432469	5476028	3s	trace	py	4	silc	5	ser	1	fuchsite		very very altered	

Sample Number	UTM		Description			Alteration						Notes		
	Easting	Northing	Legend	% sulfide	neralizati	Intensity Mineral	Intensity Mineral	Intensity Mineral	Intensity Mineral	Intensity Mineral				
H444642	432478	5476029	3s	trace	py	3	silc	1	ser	1	bt	bt is layered and can still see some the evidence for the original rock type.		
H444643	432468	5476045	3s	trace	py	2	bt	2	silc			bt is pristine and layered, likely alteration		
H444644	432487	5476035	3s	trace	py	4	silc	2	ser			stringers of silc, multi silc events, 2nd is more veiny		
H444645	432495	5476034	3s	1	py	2	silc	2	mag			fg disse, 3cm clot of disse py, blue qtz eyes, magnetite is fg to mg disse along strike		
H444646	432475	5476039	3s	trace	py	4	silc	3	ser			fg disse py, v.v schistose		
H444647	432479	5476037	3s	1	py	5	silc	2	ser			fg pale disse py		
H444648	432460	5476030	3c	trace	py	1	silc					felsic crystal tuff, low alteration		
H444649	433004	5475981	3s	3	py	1	fuchsite	5	silc	3	ser	fg pale disse py, disse in 1cm clots, py in dk grey parts of silc		
H444650	DUPLICATE OF H444649			trace	py									
H444651	432997	5475985	3S	2	py	5	silc	1	ser	2	bt	stringers fg disse py in stringers, bt is alteration along silica flood planes, py is along silica planes, not sure		
H444652	433001	5475975	3s	2	py	5	silc	1	ser	2	bt	dissem py in stringers, host rocks clastic?		
H444653	432991	5475971	3s	trace	py	5	silc	1	bt			fg disse py, massive silc		
H444654	432999	5475972	3s	trace	py	5	silc	3	ser	1	bt	fg disse py, bt in flakes, rock is pinkish		
H444655	433008	5475966	3s	1	py	4	silc	3	ser			euhedral mg disse py and fg disse in dk grey silica, py in bt layers		
H444656	433015	5475977	3s	3-4	py	5	silc	3	ser			fg pale disse along silica planes, py in dk grey silica		
H444657	433094	5475957	3s	3	py	5	silc	2	ser	2	bt	fg disse in bt, pyrite is IN bt, only minor py in qtz		
H444658	433094	5475957	3s	3	py	5	silc	2	ser	2	bt	fg disse in bt and silc		
H444659	433094	5475985	3s	5	py	5	silc	2	ser	3	bt	fg disse py, py mostly in dk silica parts (possibly vfg chl), blue qtz eyes		
H444660	433017	5476073	3s	1	py	1	grt	5	silc	2	ser	2	bt	fg disse py in bt, bt in thin 1-2mm layers
H444661	433011	5476067	3s	1	py	4	silc	2	ser	1	bt	1	grt	fg disse py
H444662	433001	5476062	3s	trace	py	4	silc	4	ser	2	bt			fg disse py, bt is fg and disse
H444663	433001	5476062	3s	trace	py	4	silc	2	ser	2	bt			fg disse py, bt is both S1 parallel and in fg flakes disse
H444664	433003	5476053	3s	trace	py	3	silc	1	ser	2	bt			fg disse py, bt is in flakes
H444665	432994	5476070	3s	trace	py	3	silc	2	ser	2	bt			fg disse py, bt in lenses/layes
H444666	432986	5476071	3s	1	py	1	bt	4	silc	3	ser			fg disse subhedral py thru all alteration, bt in layera
H444667	432956	5476104	3s	trace	py	2	silc	1	ser					not so great looking
H444668	433036	5476091	3s	3	py	5	silc	3	ser					fg pale disse py, silica is medium grey (could have chl in it?)
H444669	433030	5476092	3s	5	py	5	silc	3	ser					fg pale disse py thru silica
H444670	433024	5476097	3s	8-10	py	5	silc	3	ser					fg pale disse py, silica is medium grey (could have chl in it?)
H444671	433081	5476090	3s	6-8	py	3	silc	2	bt	1	ser			dissem strongly in bt
H444672	433083	5476086	3s	6-8	py	5	silc	3	ser	2	chl			fg pale disse py, py is in dk grey silica (could have chl in it?)
H444673	433079	5476087	3s	8-10	py	3	bt	4	silc					fg disse py in patchy and S1 parallel bt alt
H444674	433067	5476075	3s	6-8	py	5	silc	2	ser					fg to mg subhedral to euhedral pale py
H444675	DUPLICATE OF H444674													
H444676	433053	5476083	3s	4-6	py	3	silc	3	bt					fg disse py and stingers of py, py in with bt
H444677	433055	5476083	3s	trace	py	5	silc	3	ser					fg disse py
H444678	433065	5476084	3s	8-10	py	5	silc	2	ser	1	fuchsite			fg pale disse subhedral to anhedral py
H444679	433256	5476055	3s	1-2	py	4	silc	4	ser					fg disse subhedral py
H444680	433256	5476055	3s	1	py	3	silc	5	ser					fg disse subhedral py, very sericitized
H444681	433286	5476077	3s	trace to 1	py	4	ser	4	silc					fg disse pale py
H444682	433288	5476094	3s	trace to 1	py	4	silc	3	ser	1	bt			fg disse py, py not in bt alteration, bt alt is S1 paralle
H444683	433287	5476093	3s	1	py	4	silc	3	ser	2	bt			fg disse subhedral py, py in both silica and bt layers
H444684	433293	5476078	3s	trace	py	5	silc	3	ser	1	bt			fg disse subhedral py, bt in layers
H444685	433289	5476093	3s	trace	py	4	silc	3	ser	1	bt			fg disse py, bt in lenses, py in silica and bt
H444686	433300	5476105	3s	trace	py	4	silc	3	ser	2	bt			fg disse py, bt is in 0.5cm thick layers
H444687	433302	5476107	3s	1-2	py	4	silc	2	ser	3	bt			fg disse subhedral py, py associated with dk silica, py not in bt, banded with bt alteration
H444688	433307	5476108	3s	trace	py	5	silc	3	ser					fg disse py, homogenous silica, sericite, no bt
H444689	433312	5476115	3s	trace	py	5	silc	4	ser					fg pale py, very homogenous silica and sericite, very gossaneous
H444690	433315	5476122	3s	1-2	py	3	silc	1	ser	1	bt			dissem sub to euhedral, not altered much but lots of py
H444691	433321	5476127	3s	1-2	py	2	silc	2	ser	3	bt			fg subhedral py, py in bt layers
H444692	433311	5476122	3s	2-3	py	2	silc	3	bt					fg disse stringers sub to euhedral py, py mostly in flaky bt alteration
H444693	433311	5476122	3s	trace	py	1	silc	1	bt					fg disse euhedral py
H444694	433214	5476077	3s	trace	py	4	silc	3	ser	2	bt			fg disse py, bt in layers S1 parallel
H444695	433205	5476067	3s	1	py	2	silc	1	ser	3	bt			fg disse euhedral py, bt is flaky, py with bt alt
H444696	433190	5476071	3	trace	py	2	silc	1	ser	1	bt			tuff?, weak alteration
H444697	433190	5476071	3s	1	py	4	silc	3	ser					fg disse, more altered than last
H444698	433176	5476074	3s	1-2	py	4	silc	2	ser	2	bt			fg disse subhedral py, py thru all alteration, bt is slightly patchy
H444699	433182	5476077	3s	1-2	py	2	silc	3	bt					fg disse euhedral py, py in bt, bt flaky

Sample Number	UTM		Description			Alteration								Notes
	Easting	Northing	Legend	% sulfide	neralizati	Intensity Mineral	Intensity Mineral	Intensity Mineral	Intensity Mineral	Intensity Mineral	Intensity Mineral			
H444700	DUPLICATE OF H444699													
H444701	433167	5476064	3s	1	py	3	silc	1	ser	1	bt			fg euhedral py in bt alteration, bt is flaky in layers
H444702	433167	5476064	3s	1-2	py	3	silc	1	ser	3	bt			fg dissem and patchy py, py in flaky bt alteration
H444703	433161	5476074	3s	3-4	py	4	silc	2	ser	2	bt			fg dissem sub to anhedral py, py in all alteration
H444704	433164	5476077	3s	1-2	py	4	silc	3	ser	2	bt			fg dissem subhedral py, bt patches S1 parallel plus flakes in silica
H444705	433157	5476075	3s	1-2	py	4	silc	2	ser	1	grt			fg dissem subhedral py
H444706	433147	5476058	3s	1	py	1	grt	2	ser	3	silc	2	bt	fg dissem py, bt is patchy, grt only a few crystals locally and very pinkish
H444707	433131	5476038	3s	1	py	4	silc	2	ser	2	bt			bt is foln parallel
H444708	433123	5476070	3s	8-10	py	5	silc	3	ser					fg dissem subhedral pale py, massive silica alteration

## **APPENDIX II**

**Assay**

**Certificates**



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4000 TRANS-CANADA HIGHWAY  
KAMLOOPS BC V1S 2A9

Page: 1  
Finalized Date: 28-NOV-2008  
Account: HPQ

## CERTIFICATE TB08154814

Project: ONT AU GEN (203400)

P.O. No.:

This report is for 125 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 28-OCT-2008.

The following have access to data associated with this certificate:

STEPHEN ARCHIBALD  
GRAEME EVANS  
LISA VONDRASEK

LYNDA BEAUCHAMP  
RANDY FARMER

SARA BUSE  
ANDREW SHANNON

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

To: TECK COMINCO LIMITED  
ATTN: SARA BUSE  
4000 TRANS-CANADA HIGHWAY  
KAMLOOPS BC V1S 2A9

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
Total # Pages: 5 (A - D)  
Plus Appendix Pages  
Finalized Date: 28-NOV-2008  
Account: HPQ

Project: ONT AU GEN (203400)

## CERTIFICATE OF ANALYSIS TB08154814

Sample Description	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
H444584	1.35	0.15	7.42	3.1	1330	1.55	0.36	2.88	0.12	47.1	9.5	23	7.68	27.2	3.1
H444585	1.22	0.15	7.82	2.7	1020	1.43	0.18	1.17	0.09	66.4	10.4	24	10.25	70.7	3.08
H444586	1.52	0.06	7.76	11.6	820	1.33	0.09	2.42	0.04	62	8	21	6.97	6	2.54
H444587	1.73	0.07	7.2	3.7	560	1.67	0.19	1.02	0.08	36.9	2.1	15	2.35	6.7	2.81
H444588	1.43	0.09	8.07	4.4	710	1.52	0.06	0.35	<0.02	38.5	0.5	15	3.25	3.1	2.49
H444589	1.28	0.06	8.11	10	880	2.27	0.06	0.76	<0.02	108	0.9	16	5.46	3.4	2.01
H444590	1.58	0.32	7.75	5.4	1750	2.91	5.54	0.09	0.02	62	4.3	16	7.77	12.3	2.62
H444591	1.52	0.09	8.3	3.1	830	2.16	0.34	0.55	<0.02	94.7	8.5	21	2.91	14.5	2.77
H444592	1.77	0.16	8.08	11.6	770	2.23	3.05	0.31	0.02	131.5	11	18	2.87	17.8	3.44
H444593	1.70	0.26	7.75	16.4	1390	2.2	4.45	0.21	0.07	184	6.5	16	9.26	13.6	2.88
H444594	1.59	0.13	7.44	3.9	1040	1.68	0.98	1.01	0.03	49.2	3.8	17	6.2	10.6	2.59
H444595	1.80	0.19	7.36	1.8	480	1.33	0.61	1.53	0.03	42.7	1.9	15	2.24	13.9	1.68
H444596	1.52	0.14	7.79	1.3	620	1.48	0.5	1.57	<0.02	15.45	0.5	16	7.63	10	1.32
H444597	1.52	0.35	7.35	10.8	1180	2.57	0.87	0.45	<0.02	168.5	6.9	20	3.25	14	2.6
H444598	1.97	0.06	7.59	10.7	1940	2.48	5.21	0.02	<0.02	166.5	0.2	18	6.25	4.2	1.81
H444599	1.39	0.09	7.35	2.7	1770	1.81	0.31	1.74	0.05	65.2	6.9	17	3.96	17.8	2.64
H444600	1.39	0.08	7.78	2.7	1420	1.5	0.29	0.8	0.02	65	6.6	20	2.77	13.5	2.53
H444601	1.66	0.18	6.91	30	890	2.86	0.51	0.12	0.14	27.3	6.6	14	5.14	26.1	2.04
H444602	1.13	0.23	6.52	25.2	1280	1.97	0.68	0.01	0.07	1.85	1.2	11	4.86	3.7	0.77
H444603	1.59	0.18	6.8	21.5	870	3.01	0.14	0.15	0.35	34.9	7.5	14	3.21	22.7	1.82
H444604	1.19	0.17	6.69	8.4	750	2.25	0.72	1.32	0.11	71.5	10.5	10	6.68	48.9	2.18
H444605	1.42	0.01	6.61	5	980	1.95	0.06	1.45	0.03	61.3	2.9	7	5.18	2.1	1.4
H444606	1.68	0.21	7.49	6.5	390	1.68	0.32	0.76	0.05	45.5	14.6	15	6.81	45.7	3.26
H444607	1.40	0.07	8.03	3.3	1000	2.61	0.08	0.42	0.02	71.2	10.6	16	7.18	9.9	1.74
H444608	1.41	0.12	7.05	4.3	1070	2.76	0.29	1.87	0.13	229	7.3	13	4.78	33.9	1.64
H444609	1.30	0.18	7.85	5.9	610	2.18	0.42	0.69	0.06	253	7.8	13	4.59	36.7	2.59
H444610	1.33	0.09	7.43	19.2	430	1.23	0.16	0.49	0.02	13.55	5.6	10	7.5	10.8	2.49
H444611	1.23	0.03	7.68	1.5	650	1.07	0.03	0.62	0.03	22.7	3.1	7	9.32	11.9	1.25
H444612	1.50	0.05	7.91	22	540	1.05	0.09	0.59	0.04	14.45	2.5	7	8.2	11.2	1.64
H444613	1.38	0.02	7.93	2.6	750	1.6	0.04	1.27	0.03	25.1	7.4	6	8.68	5.2	2.31
H444614	1.50	0.03	8.04	1.9	540	1.64	0.46	0.46	<0.02	7.23	3	7	4.56	3.2	1.48
H444615	1.47	0.03	7.31	1.7	570	1.98	0.07	0.75	0.02	15.2	5	7	3.85	6	1.45
H444616	1.44	0.16	5.9	7	630	2.7	0.88	5.92	0.16	472	7.2	10	4.69	39.2	2.05
H444617	1.47	0.01	7.26	3.9	630	1.86	0.16	3.15	0.05	64.3	7.2	6	6.33	2.7	1.88
H444618	1.35	0.46	7.6	5.5	780	4.28	0.4	0.04	<0.02	73.8	0.1	10	4.6	4.7	0.64
H444619	1.44	0.22	7.81	7.6	900	4.49	0.6	1.47	0.13	71.7	7.7	13	3.7	40.7	2.22
H444620	1.72	0.04	7.51	9.1	790	4.63	0.79	1.82	0.11	130.5	8	6	3.68	34.6	1.96
H444621	1.21	0.08	6.93	5.6	1360	1.38	0.1	5.4	0.11	208	24.1	89	16.35	34.6	4.07
H444622	1.41	0.07	8.23	7.3	640	1.32	0.05	0.82	0.13	66.1	4.7	10	4.7	19.1	1.57
H444623	1.13	0.07	8.16	7.3	580	1.68	0.09	1.71	0.22	70.7	5.6	47	6.81	40.1	2.58



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Plus Appendix Pages

Finalized Date: 28-NOV-2008

Account: HPQ

Project: ONT AU GEN (203400)

## CERTIFICATE OF ANALYSIS TB08154814

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
Units		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
H444584		21	0.13	2.6	0.026	1.3	21.9	44	1.26	783	1.27	1.59	3.5	15.4	1160	22.9
H444585		23.3	0.16	2.7	0.03	2.99	27.4	48	0.94	556	0.55	0.89	6.2	21.3	1210	19.2
H444586		23	0.17	3.1	0.023	2.03	28.4	41.2	0.86	1100	0.73	2.15	5	12	1080	13
H444587		19.05	0.12	2.6	0.022	1.7	24.3	19.8	0.87	543	2.19	2.02	1.8	4.7	1200	16.1
H444588		22.3	0.12	3.3	0.027	2.76	23.8	20.3	0.23	284	1.13	1.87	3.8	2.4	1200	13.5
H444589		23.8	0.19	3.3	0.029	2.46	50.6	26.6	0.53	422	1.31	2.1	6.9	5.6	1370	14.7
H444590		23.3	0.17	3.3	0.027	4.01	37.3	136	0.82	169	3.02	0.43	2.3	6.8	960	55.5
H444591		24.1	0.21	3.4	0.034	2.94	45.9	24.5	0.29	69	2.25	1	2.4	11.8	1100	19.8
H444592		23.5	0.25	3.8	0.044	3.16	62.6	32.3	0.38	84	0.51	1.27	3.1	13.9	1330	48.8
H444593		24.8	0.26	3.2	0.044	3.72	108.5	113	0.78	856	6.31	0.6	2	10.6	1280	86.5
H444594		22.6	0.16	2.8	0.029	2.78	24.7	31.8	0.69	327	1.4	0.99	2.6	9.6	980	32.7
H444595		24.1	0.14	2.6	0.019	1.2	23.4	27.1	0.33	243	7.99	2.54	2.7	3.5	480	22.9
H444596		26.1	0.11	2.8	0.022	1.78	12.3	37.8	0.49	234	5.07	2.46	3.7	3.3	440	23.5
H444597		24.7	0.26	4.7	0.032	3.24	92.6	79.1	0.55	210	3.18	1.22	10.7	8.7	1280	40.1
H444598		24.5	0.27	2.9	0.05	3.79	90.6	114.5	0.56	135	4.02	0.39	2.5	2.4	1140	96.1
H444599		22.6	0.19	2.8	0.024	2.5	31.6	33.4	0.8	319	1.58	1.04	4.1	12.1	1110	17.2
H444600		24.2	0.18	3	0.028	3.37	30.4	27.4	0.46	137	1.8	0.63	3.3	11.8	1200	14.2
H444601		21.2	0.13	2.4	0.018	3.48	15.7	72.6	0.36	27	3.86	0.16	5.2	11	480	19.4
H444602		20.5	0.1	2.2	0.015	3.22	1.2	60.1	0.31	28	5.07	0.15	5	2.1	300	21.7
H444603		22.4	0.13	2.4	0.016	3.3	21.6	37.1	0.18	17	6.87	0.14	5.7	11	490	23.7
H444604		19.4	0.18	2	0.018	3.06	40.2	41.9	0.66	398	4.74	0.15	4.2	8.2	410	23.3
H444605		20.6	0.17	2.1	0.014	2.74	31.5	56.8	0.46	250	0.22	0.24	3.3	4.3	390	8.5
H444606		22.6	0.14	2.9	0.021	2.79	20.2	66.8	0.27	309	2.58	0.77	2.8	20.1	1220	22.9
H444607		26.1	0.15	3.3	0.029	3.01	27	86.3	0.16	35	0.72	0.7	3.7	12.1	1380	20
H444608		22	0.27	2.5	0.018	1.43	106.5	223	0.37	524	2.15	0.95	10.8	10.2	1130	29.7
H444609		24.7	0.27	3.4	0.023	2.51	127.5	128	0.24	358	6.47	0.88	13.8	9.1	960	36.5
H444610		21.3	0.1	1.8	0.012	3.12	7.3	42	0.3	162	0.6	0.59	1.9	9	360	12.4
H444611		21.7	0.1	1.6	0.012	3.2	9.8	48.2	0.47	409	0.28	0.69	1.4	3.1	420	5
H444612		22.6	0.09	1.9	0.013	3.49	7.4	41.7	0.25	494	0.32	0.63	3	4.2	390	10.9
H444613		22	0.12	1.4	0.013	2.87	11.6	42.5	0.66	522	0.26	1.06	3	8.1	400	4.4
H444614		23.9	0.1	2	0.015	3.17	5.3	27.6	0.22	71	0.16	1.63	2.6	7.4	410	5.9
H444615		19.4	0.09	1.8	0.012	2.38	7.2	30.7	0.43	256	0.5	2.02	3.3	10.2	460	4.9
H444616		19.7	0.52	2.4	0.021	3.18	238	43.1	0.58	771	2.56	0.12	22.3	10.2	880	24.1
H444617		23	0.17	2.7	0.011	3.57	28.2	27.9	0.47	393	0.12	0.14	5.1	5	450	20
H444618		22.4	0.14	3.3	0.013	4.01	37.3	56.4	0.53	46	6.94	0.07	13.3	1.4	260	14.5
H444619		23.4	0.14	2.9	0.013	3.88	34.7	37	0.44	223	12.6	0.07	6.5	8.9	450	11.6
H444620		24.6	0.2	5	0.013	3.84	57.4	31.7	0.41	216	10.1	0.07	27	6.7	640	13.6
H444621		23	0.35	5.2	0.042	1.83	81.5	56.5	2.35	782	0.19	2.03	4	109.5	3070	18.6
H444622		24.7	0.14	3	0.013	3.11	31.6	22.6	0.26	283	1.46	1.37	6.8	5.6	540	29.9
H444623		23.3	0.15	2.6	0.015	2.98	33.4	31.5	0.5	752	0.46	1.26	6.4	6.8	520	20.2



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## CERTIFICATE OF ANALYSIS TB08154814

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
H444584		59.8	<0.002	0.7	0.45	6.1	1	0.6	2400	0.22	0.35	9	0.2	2.7	1.5	75
H444585		127.5	<0.002	0.33	0.29	6.7	1	0.6	906	0.35	0.23	11.7	0.259	3.43	2	70
H444586		78	<0.002	0.31	0.42	5.5	1	0.5	1320	0.29	0.11	8.9	0.228	2.33	1.9	55
H444587		64.7	<0.002	0.48	0.51	6	1	0.3	675	0.12	0.83	7.4	0.121	1.53	1.4	64
H444588		119	<0.002	0.37	0.56	6.8	1	0.4	499	0.27	0.31	9.8	0.245	2.1	1.8	64
H444589		127	<0.002	0.12	0.4	7	1	0.5	998	0.43	0.2	11.1	0.305	3.03	2.1	68
H444590		193	0.002	1.52	1.27	6.1	4	0.8	485	0.13	0.58	11.6	0.16	8.49	2.9	64
H444591		115.5	<0.002	2.18	0.8	6.5	2	0.5	389	0.15	0.46	11.3	0.135	3.22	2.4	59
H444592		114.5	<0.002	2.66	1.1	8.8	2	0.7	288	0.17	1.79	16.3	0.175	3.36	3.8	99
H444593		209	0.004	1.43	1.44	7.2	3	0.6	495	0.12	1.37	14	0.142	10.75	3	80
H444594		115	<0.002	0.91	0.53	6.3	2	0.6	767	0.16	0.86	11.4	0.17	3.52	2	72
H444595		49.7	0.003	0.54	0.52	4.1	1	0.4	635	0.12	0.05	6.7	0.098	1.54	1.4	35
H444596		87.4	0.002	0.1	0.43	5	1	0.5	682	0.16	<0.05	6.4	0.146	2.84	1.6	45
H444597		139	<0.002	1.95	7.63	6.6	2	0.7	755	0.5	3.02	23.4	0.268	3.1	5.7	88
H444598		197	<0.002	0.26	1.53	6.2	2	0.6	646	0.13	0.67	12	0.138	9.38	2.6	77
H444599		77.6	<0.002	0.56	0.56	5.9	1	0.6	1170	0.25	0.26	11.6	0.187	1.93	2	69
H444600		95.8	<0.002	0.9	0.49	6.5	1	0.6	496	0.21	0.41	11.4	0.192	1.81	2.1	77
H444601		209	<0.002	1.89	2.86	4.3	1	0.4	49.1	0.21	<0.05	6.6	0.173	5.89	4.7	38
H444602		217	<0.002	0.39	3.22	4.2	1	0.4	48.4	0.2	<0.05	2	0.162	5.41	2	36
H444603		172.5	<0.002	1.68	3.17	4.4	1	0.4	151	0.18	<0.05	6.4	0.165	5.82	10	39
H444604		178.5	0.002	0.7	1.09	4.2	1	0.4	339	0.18	0.15	6.8	0.146	3.24	2.1	33
H444605		137.5	<0.002	0.04	0.47	3	1	0.4	192	0.16	<0.05	6.8	0.12	2.57	1.2	22
H444606		131	<0.002	2.84	0.94	6	1	0.5	384	0.16	0.12	6.6	0.164	3.57	1.9	60
H444607		150.5	<0.002	1.36	0.94	10	1	0.6	309	0.2	<0.05	9.4	0.205	3.66	1.8	83
H444608		79.1	<0.002	1.16	0.77	6.1	2	0.5	707	0.27	0.06	12.2	0.128	2.09	4	54
H444609		124	0.003	2.18	0.98	5.6	2	0.6	585	0.34	0.07	18.9	0.144	3.17	8.8	80
H444610		119	<0.002	1.3	0.58	4.7	1	0.4	182.5	0.14	<0.05	2.3	0.156	1.85	0.7	38
H444611		149.5	<0.002	0.07	0.57	4.7	1	0.4	183	0.1	<0.05	2.2	0.132	2.47	0.5	34
H444612		142.5	<0.002	0.28	0.46	5.7	1	0.5	160	0.2	<0.05	2.4	0.193	1.95	0.6	35
H444613		127.5	<0.002	0.1	1.13	4.8	1	0.5	341	0.2	<0.05	2.2	0.185	2.05	0.4	35
H444614		116.5	<0.002	0.27	0.27	5.2	1	0.5	184.5	0.18	<0.05	2.5	0.177	1.39	0.6	35
H444615		89.1	<0.002	0.1	0.26	5.1	1	0.4	255	0.17	<0.05	2.7	0.166	1.01	0.9	36
H444616		145	0.002	1.67	1.69	4.9	2	0.5	737	0.51	0.23	16.8	0.167	2.79	3.8	60
H444617		176	<0.002	0.12	1.16	3.1	1	0.4	384	0.19	<0.05	6.5	0.144	3.33	1.3	28
H444618		283	<0.002	0.04	4.09	4.2	1	0.5	82.2	0.32	0.07	5.2	0.192	5.57	3.6	40
H444619		206	0.003	1.89	2.08	4.3	1	0.5	249	0.2	0.14	6.9	0.193	5.26	4.1	40
H444620		203	0.002	1.55	1.95	3.5	1	0.5	314	0.45	0.13	19.5	0.202	5.11	8.4	42
H444621		114.5	<0.002	0.11	1.57	13.1	2	1	3620	0.22	<0.05	8.1	0.386	2.14	1.3	97
H444622		156	<0.002	0.02	0.38	4	1	0.5	333	0.24	<0.05	7.4	0.205	2.09	2.4	33
H444623		159	<0.002	0.16	0.42	4.6	1	0.5	377	0.22	<0.05	6.2	0.204	2.4	1.2	37



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## CERTIFICATE OF ANALYSIS TB08154814

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-ICP21
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	0.1	2	0.5	0.001
H444584		1	7.8	85	107.5	0.001
H444585		1	7.3	91	106.5	0.004
H444586		1.8	8.5	60	134.5	0.001
H444587		1	5.9	71	116	0.008
H444588		1.9	5.8	18	141	0.001
H444589		2.7	9.6	50	141	0.001
H444590		5.1	6.3	50	132	0.006
H444591		1	8.8	29	146.5	<0.001
H444592		4.4	10.6	28	153.5	0.004
H444593		5.2	10.8	73	129	0.021
H444594		2.4	7.2	62	115.5	0.003
H444595		1.2	4.8	43	111.5	0.006
H444596		3.8	4.9	84	119	0.002
H444597		6.3	10.9	31	207	0.005
H444598		8.1	5.9	31	112.5	<0.001
H444599		1.6	8.2	54	119	0.002
H444600		1.9	7.8	26	125	0.002
H444601		14.9	4.5	51	97.5	0.036
H444602		15.1	2.4	29	91	0.043
H444603		7.5	5.1	96	97.5	0.080
H444604		4.9	6.6	65	86.1	0.015
H444605		2.1	5.4	28	88.2	<0.001
H444606		3.5	10	27	117	0.012
H444607		2.3	10.1	15	134.5	0.001
H444608		2.4	14.3	56	104.5	0.004
H444609		3.4	13	49	134	0.006
H444610		3.1	2.6	26	66.3	0.002
H444611		1.3	4.2	45	60.1	<0.001
H444612		3.7	3.3	32	66.9	0.002
H444613		2.5	5	62	57.2	<0.001
H444614		3.3	3.5	14	71.7	0.002
H444615		2.9	4.5	23	65.4	0.001
H444616		6.7	25.4	76	95.4	0.027
H444617		3.9	6.3	43	117	0.004
H444618		10.3	8.1	33	139.5	0.077
H444619		9.1	7.5	44	119.5	0.039
H444620		8	11.9	59	229	0.030
H444621		1.9	18.4	143	213	<0.001
H444622		5	7	70	123	<0.001
H444623		3.9	7.6	104	111.5	<0.001



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## CERTIFICATE OF ANALYSIS TB08154814

Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
Sample Description	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
H444624	1.34	0.27	7.92	1	420	1.07	0.15	0.6	0.13	23.9	8.3	6	6.28	16.7	2.93
H444625	1.36	0.24	8.06	1.6	400	1.08	0.18	0.74	0.15	25	13.4	6	5.35	34.1	4.65
H444626	1.30	0.24	7.98	0.8	430	0.74	0.11	2.35	0.05	19.2	10.9	6	3.68	18.9	2.76
H444627	1.29	0.12	7.82	0.3	450	1.14	0.07	4.14	<0.02	14.45	11.3	6	3.7	30.1	2.45
H444628	1.26	0.02	7.91	0.4	410	0.61	0.03	0.11	<0.02	8.87	2.7	6	3.46	2.7	0.93
H444629	1.33	0.19	7.31	0.6	300	0.94	0.03	1.4	0.06	16.5	4.4	8	4.24	7	1.89
H444630	1.25	0.79	7.04	9.2	230	1	0.19	1.03	0.08	14.1	10.7	11	4.78	26.5	3.75
H444631	1.20	0.83	6.82	29.1	220	0.83	0.14	0.73	0.05	11.5	3.1	9	3.64	12.6	2.86
H444632	1.37	0.05	8.22	0.5	320	0.94	0.05	1.8	0.03	12.9	8.1	12	2.01	13.6	1.68
H444633	1.26	0.06	8.02	2.4	330	0.75	0.06	1.81	0.03	17.3	5.7	11	2.39	15.6	1.44
H444634	1.49	0.05	7.34	0.8	240	0.68	0.07	1.89	0.04	22.6	18.6	11	2.86	9	6.4
H444635	1.21	0.05	7.54	<0.2	250	0.74	0.05	1.91	0.03	20.8	9.6	10	2	9.7	2.33
H444636	1.40	0.02	7.01	<0.2	230	0.68	0.03	1.55	0.02	18.3	6.7	10	1.35	5.2	1.43
H444637	1.43	<0.01	8.49	<0.2	390	0.96	0.03	1.23	<0.02	14.05	6.5	12	2.69	1.6	1.43
H444638	1.23	0.25	7.35	<0.2	290	0.76	0.11	1.19	<0.02	16.45	2.6	10	2.22	37.6	1.02
H444639	1.90	0.08	8.5	3.2	710	1.05	0.17	1.07	0.04	34.6	13.7	174	4.92	28.3	4.33
H444640	1.32	0.07	7.76	6.1	680	1.71	0.1	0.64	<0.02	75.8	3.2	7	3.4	7.7	1.55
H444641	1.51	0.39	7.78	11.9	1360	1.83	0.6	0.02	0.07	28.1	0.3	17	5.38	3.9	1.33
H444642	1.37	0.22	7.53	10.9	6420	2.77	0.58	0.23	0.43	121.5	1.3	11	1.71	14.8	1.67
H444643	1.33	0.02	8.2	0.7	920	1.67	0.04	1.92	0.07	72	8.3	8	5.96	3.7	2.39
H444644	1.19	<0.01	9.21	8.2	2290	2.78	0.18	0.15	0.03	15.55	1	5	1.97	3.5	1.48
H444645	1.90	0.11	6.82	1.7	730	0.76	0.11	3.26	0.05	56.4	32.1	14	5.18	71	4.72
H444646	1.22	0.54	6.95	4.6	1050	2.76	15.95	0.03	0.05	156.5	0.3	12	1.95	1.7	1.51
H444647	1.46	0.47	5.36	6.4	8670	1.5	0.57	0.92	0.62	65.6	2.3	11	0.56	18.5	0.68
H444648	1.83	0.02	7.44	0.5	400	0.73	0.07	3.16	0.04	17.25	8.1	16	2.29	4.6	2.24
H444649	1.47	0.05	0.61	23.1	1330	0.16	0.04	0.05	<0.02	2.06	0.2	16	0.3	2.5	1.41
H444650	1.63	0.13	3.31	83.1	5600	1.84	0.12	0.19	<0.02	15.05	0.9	20	1.14	1.8	3.13
H444651	1.68	0.09	10.3	92.4	2840	1.21	0.18	0.32	0.15	25.6	12.8	18	0.72	9.4	2.23
H444652	2.08	0.07	2.16	54.5	80	0.81	0.09	0.98	0.06	7.56	5.3	21	3.11	5.2	2.96
H444653	1.33	<0.01	9.39	3.2	4400	1.79	0.02	1.38	0.02	12.35	6.1	15	2.79	2.6	0.68
H444654	1.30	0.01	8.99	1.3	1630	1.4	0.02	1	<0.02	12.75	4.2	12	3.18	6	0.87
H444655	1.32	0.08	3.44	36.8	170	1.08	0.07	0.21	0.05	5.81	2.2	24	1.97	5.3	2.01
H444656	1.28	0.11	1.68	169.5	150	0.67	0.12	0.3	0.02	6.41	0.5	19	1.19	4.1	4.8
H444657	1.42	0.1	8.78	5.4	2440	1.63	0.41	0.43	<0.02	25.2	5.8	18	6.91	15.4	2.1
H444658	1.58	0.07	8.46	4.1	1340	1.24	0.19	0.27	<0.02	18.6	5.5	14	6.58	6.3	1.6
H444659	1.28	0.11	8.31	3.6	1360	1.53	0.18	0.79	<0.02	21.3	6.3	8	5.1	39	2.7
H444660	1.35	0.18	9.12	3.4	650	1.7	0.47	1.71	<0.02	44.3	0.7	11	4.18	10.7	1.56
H444661	1.10	0.15	7.52	3	470	1.7	0.89	1.65	0.07	32.8	3.4	34	6.56	22.4	2
H444662	1.34	0.17	8.5	2.6	870	1.4	0.29	1.34	0.02	18.6	0.6	10	5.25	18.8	1.84
H444663	1.08	0.15	8.43	5.3	560	1.62	0.25	1.08	<0.02	17.2	1.1	12	5.65	17	1.96



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Project: ONT AU GEN (203400)

## CERTIFICATE OF ANALYSIS TB08154814

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
H444624		21.7	0.13	2	0.018	3.55	10.8	33	0.64	1380	0.38	0.33	3.5	7.2	380	17.2
H444625		20.8	0.13	2	0.02	3.16	11.9	41.6	0.92	2330	0.42	0.37	3.5	10.1	380	12.6
H444626		20.8	0.13	1.7	0.013	2.68	8.2	39.6	1.07	1355	0.3	0.66	3.2	7.8	340	14.1
H444627		23.5	0.14	2.3	0.012	2.28	5.6	22.8	0.52	477	0.26	2.44	3.8	8.9	380	5.1
H444628		21.1	0.08	2.1	0.013	3.59	2.9	8.7	0.13	235	0.29	0.22	3.4	4.2	320	4.4
H444629		19.95	0.11	1.7	0.013	2.55	7.2	27.5	0.42	659	0.36	0.69	3.7	5.3	380	10.5
H444630		21.4	0.12	1.9	0.014	2.37	7.5	21.6	0.45	1275	1.26	0.58	5	12.6	410	18.8
H444631		20.3	0.1	2	0.013	2.6	7	23.6	0.33	912	1.3	0.52	3.7	3.8	380	40.5
H444632		24.1	0.1	2.4	0.017	1.47	4.5	29.6	0.49	305	0.5	2.43	5.4	10.6	490	5.6
H444633		24.1	0.1	2.3	0.017	1.47	5.6	35	0.45	354	0.25	2.46	5.4	7	510	6.1
H444634		18.7	0.14	1.8	0.013	1.12	10.4	25.6	0.69	1785	0.25	1.8	4.2	15	400	4.2
H444635		22.2	0.13	2.1	0.015	1.14	9.3	30.7	0.63	525	0.47	2.33	4.6	11.7	430	4.8
H444636		19.9	0.1	2	0.013	1.08	7	31.8	0.5	305	0.19	2.04	4.7	9.3	480	4.2
H444637		23.9	0.09	2.5	0.019	2.1	4.7	39.4	0.44	267	1.62	1.85	5.6	10.3	510	5.4
H444638		22.1	0.1	2.1	0.04	1.4	4.5	18.2	0.25	249	0.83	2.56	4.8	2.5	500	6.1
H444639		24	0.14	3.6	0.062	2.16	15.8	31.7	0.58	774	0.94	1.66	7.3	18.2	650	10
H444640		25.9	0.13	3.2	0.012	2.43	35.7	38.2	0.15	17	2.07	1.96	5.2	1.4	520	12.8
H444641		23.4	0.11	4.9	0.025	4.1	18.8	62.9	0.33	141	5.51	0.19	7.8	2.8	820	133.5
H444642		22.9	0.18	3.5	0.015	3.09	54	46.3	0.18	177	7.6	1.74	13.5	7	810	49.6
H444643		21.4	0.15	2.8	0.018	3.85	33	38.6	0.72	344	0.46	0.51	5.4	8.1	740	8.4
H444644		23.6	0.09	4.4	0.014	5.03	15.9	57	0.2	152	0.52	0.77	12.4	2.7	500	22.6
H444645		17.55	0.13	2.3	0.02	1.42	28.5	30.2	0.71	819	0.49	2.05	4.2	24.2	490	9.4
H444646		19.05	0.2	3.9	0.042	3.63	83.3	106	0.6	141	8.42	0.09	8.9	0.9	610	67.3
H444647		15.35	0.1	2.1	0.011	1.79	33.3	9.8	0.07	51	12.9	1.68	5.5	5.8	280	74.6
H444648		16.2	0.06	1.6	0.011	1.65	8.7	25	0.8	333	0.38	2.47	2.7	11.7	310	5.1
H444649		1.57	<0.05	0.4	<0.005	0.14	1.4	3.4	0.04	29	0.35	0.27	0.1	0.9	130	4
H444650		12.85	0.05	2.1	0.017	0.72	8.5	24.4	0.13	26	1.07	0.96	0.7	2.4	260	15.9
H444651		17.4	0.07	5.1	0.017	0.46	13.1	15.9	0.1	43	2.34	6.65	2.6	42.9	620	8.7
H444652		5.91	0.05	1.1	0.014	0.63	3.9	44.1	0.61	135	0.7	0.51	0.5	20.7	150	5.8
H444653		27.1	0.05	2.3	0.027	2.44	5.5	67.7	0.22	147	0.18	2.31	3.8	5.1	2610	8.2
H444654		27.4	0.06	2.2	0.021	2.44	5.8	55.4	0.34	86	0.15	2.89	4.4	3.8	390	7.1
H444655		9.74	0.06	1.4	0.011	0.77	3.3	26.2	0.15	59	16.75	1.17	2.2	11.3	210	37.3
H444656		5.04	0.1	0.8	0.01	0.6	6.2	10.6	0.18	91	0.78	0.59	1.2	3.2	620	9.1
H444657		26.2	0.08	2.6	0.024	2.88	6.4	37.4	0.4	166	0.74	1.56	2.5	6.7	650	10.6
H444658		24.9	0.08	2.6	0.021	3.11	8.4	27.7	0.29	103	0.82	0.99	2.1	5.7	640	9
H444659		22.7	0.06	2.5	0.021	2.21	12	46.1	0.54	264	1.24	1.92	1.3	6.4	640	13.4
H444660		24.7	0.06	3.3	0.018	1.64	31.8	37.7	0.31	112	4.68	2.96	3.5	2.7	570	25.7
H444661		23.2	0.07	3	0.016	1.46	19	39.8	0.44	326	7.44	2.82	4.1	6.2	470	23.6
H444662		23.7	0.06	3.3	0.02	2.26	12.1	53.7	0.35	87	1.34	1.95	2.7	2.7	530	23.2
H444663		23.1	0.07	3.2	0.017	2.85	13.7	60.4	0.3	203	1	1.31	5.7	4.6	570	20.2



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## CERTIFICATE OF ANALYSIS TB08154814

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
LOR		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
H444624		108.5	<0.002	0.1	0.27	6.3	1	0.5	77.3	0.23	<0.05	2.1	0.217	0.47	0.5	43
H444625		94.8	<0.002	0.21	0.29	6.9	1	0.6	82.5	0.23	<0.05	1.9	0.218	0.42	0.5	44
H444626		76.6	<0.002	0.18	0.31	5.5	1	0.5	94	0.21	<0.05	1.8	0.199	0.41	0.4	40
H444627		62	<0.002	0.09	0.28	4.5	1	0.5	298	0.24	0.06	1.3	0.229	0.43	0.3	43
H444628		96.2	<0.002	<0.01	0.12	5.5	1	0.5	70.2	0.22	<0.05	2	0.212	0.26	0.5	41
H444629		70.7	<0.002	0.11	0.2	4.8	1	0.5	82.1	0.27	<0.05	1.9	0.202	0.4	0.5	36
H444630		75.9	<0.002	1	0.5	5.4	1	0.7	84.1	0.33	<0.05	2.3	0.224	0.44	0.7	40
H444631		73.2	<0.002	0.51	0.77	4.8	1	0.6	70.8	0.26	<0.05	2	0.191	0.4	0.6	37
H444632		35.2	<0.002	<0.01	0.15	5.5	1	0.6	325	0.34	<0.05	1.6	0.255	0.16	0.5	44
H444633		33.8	<0.002	0.01	0.19	5.2	1	0.6	297	0.33	<0.05	1.7	0.249	0.17	0.5	43
H444634		34	<0.002	0.04	0.23	5.8	1	0.5	237	0.26	<0.05	1.6	0.196	0.26	0.5	36
H444635		28.1	<0.002	<0.01	0.15	4.6	1	0.6	317	0.28	<0.05	1.5	0.224	0.19	0.4	40
H444636		26.6	<0.002	<0.01	0.1	4.6	1	0.5	273	0.29	<0.05	1.5	0.217	0.17	0.5	38
H444637		44.1	<0.002	<0.01	0.09	5.7	1	0.7	321	0.34	<0.05	1.7	0.267	0.3	0.6	46
H444638		36.5	<0.002	<0.01	0.07	4.7	1	0.6	242	0.29	<0.05	1.7	0.225	0.2	0.5	40
H444639		63.1	<0.002	0.02	0.13	21.8	2	1.3	367	0.47	0.06	4.4	0.682	0.6	1.3	189
H444640		134.5	<0.002	0.68	0.42	3.2	1	0.5	241	0.18	<0.05	7.7	0.148	1.79	2.3	30
H444641		176	0.008	0.3	11.65	4.6	3	0.9	236	0.32	0.09	15.4	0.191	9.3	4.7	62
H444642		140.5	<0.002	0.06	1.37	3.3	1	0.5	559	0.28	0.17	10.1	0.154	2.36	10	30
H444643		185	<0.002	0.02	0.32	5.5	1	0.5	501	0.32	<0.05	5.3	0.192	2.46	0.7	45
H444644		198.5	<0.002	0.02	0.43	3.7	2	0.2	414	0.27	0.06	7.6	0.161	3.99	2.1	24
H444645		75.2	<0.002	0.16	0.24	6.1	1	0.4	1160	0.34	<0.05	4.1	0.164	0.94	1	43
H444646		163.5	<0.002	0.15	4.15	4.4	2	0.5	97.4	0.33	0.86	16.4	0.176	3.36	3.2	61
H444647		54	<0.002	0.19	1.84	1.6	1	0.3	557	0.16	0.11	6.5	0.113	0.91	16	11
H444648		60.9	<0.002	0.01	0.28	4.7	1	0.4	403	0.2	<0.05	1.7	0.145	0.8	0.7	36
H444649		5.2	<0.002	0.36	0.25	1	1	<0.2	159.5	<0.05	<0.05	0.2	0.008	0.42	0.3	8
H444650		30.4	<0.002	0.63	0.55	3	1	0.6	320	0.06	<0.05	1.3	0.065	2.37	1.3	57
H444651		18.8	<0.002	1.27	0.96	4.1	1	0.8	224	0.23	0.11	5.7	0.117	1.1	2.3	39
H444652		35.1	<0.002	1.62	0.26	4.3	2	0.2	203	<0.05	<0.05	0.9	0.037	3.91	0.5	29
H444653		81.9	<0.002	0.01	0.14	4.4	1	0.7	409	0.3	<0.05	2.9	0.221	2	0.7	42
H444654		72.3	<0.002	<0.01	0.1	3.8	2	0.6	350	0.32	<0.05	2.4	0.216	1.37	0.7	36
H444655		30.6	<0.002	0.95	0.6	3	2	0.3	494	0.11	<0.05	1.7	0.088	2.08	11.8	30
H444656		36.4	<0.002	1.04	0.56	4.6	2	0.2	151	0.09	<0.05	1.3	0.069	4.09	0.8	28
H444657		170.5	<0.002	1.45	0.82	6	2	0.5	409	0.15	<0.05	6.3	0.112	3.95	1.7	39
H444658		172.5	0.002	1.11	0.65	5	2	0.5	320	0.14	<0.05	6.3	0.107	4.11	1.5	37
H444659		134.5	<0.002	1.9	0.58	4.4	1	0.4	451	0.08	<0.05	5.2	0.076	2.85	1.3	36
H444660		84.4	<0.002	0.19	0.58	4.7	1	0.5	681	0.15	0.07	7.4	0.127	1.9	1.9	40
H444661		83.7	0.003	0.13	0.42	5.4	1	0.5	513	0.17	0.05	5.7	0.157	2.11	1.8	44
H444662		127	<0.002	0.09	0.74	4.4	1	0.5	439	0.11	<0.05	6.2	0.13	2.36	1.8	36
H444663		154.5	<0.002	0.14	0.63	4.4	1	0.5	377	0.22	0.06	6.1	0.184	2.54	1.9	38



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## CERTIFICATE OF ANALYSIS TB08154814

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-ICP21
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	0.1	2	0.5	0.001
H444624		1	5.3	91	71.3	<0.001
H444625		1.1	6.2	90	75.8	<0.001
H444626		0.3	6.1	73	64.4	<0.001
H444627		0.5	4.3	43	89.5	<0.001
H444628		0.3	4.6	20	79.8	<0.001
H444629		0.4	5.7	42	64.4	<0.001
H444630		0.5	4.5	71	78.2	0.028
H444631		0.5	3.7	56	80.4	0.077
H444632		0.2	5	33	102	0.001
H444633		0.2	4.3	25	90.5	<0.001
H444634		0.4	6.4	54	71.4	<0.001
H444635		0.2	4.7	44	74.2	<0.001
H444636		0.5	4.2	19	78.3	<0.001
H444637		0.2	5	12	98.3	<0.001
H444638		1.2	4.8	18	81.9	0.014
H444639		1.6	16.2	83	139	0.002
H444640		3.3	5.7	12	127.5	0.002
H444641		11.7	4.5	42	184.5	0.061
H444642		19.1	8.1	204	131	0.011
H444643		5.7	8.7	58	95.9	<0.001
H444644		15	6.4	42	170.5	<0.001
H444645		0.7	9.7	89	74.5	<0.001
H444646		6.8	6.4	38	143	0.005
H444647		9.4	6.1	85	79	0.013
H444648		1.9	4.6	33	51.4	<0.001
H444649		0.2	0.5	3	11.8	0.001
H444650		1.3	2.7	8	63.8	0.002
H444651		3.5	7.5	54	167	0.007
H444652		0.7	2.1	31	29.9	0.002
H444653		3.3	9.6	19	58.5	<0.001
H444654		0.4	4.9	25	56.1	<0.001
H444655		2.5	2.8	68	44.7	0.001
H444656		1	2.9	16	22.5	0.001
H444657		1.8	7	44	78.5	0.001
H444658		1.2	6.4	27	75.3	0.001
H444659		1.2	6.4	63	85.3	0.001
H444660		1.9	5.5	47	117	0.008
H444661		4	5.1	79	100.5	0.004
H444662		2.7	5.2	45	116	0.003
H444663		4.9	4.8	34	116	0.011





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## CERTIFICATE OF ANALYSIS TB08154814

Sample Description	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	
H444664	1.23	0.11	8.02	2.9	640	1.34	0.08	2.55	0.11	54	4.8	10	9.48	31.7	1.87	
H444665	1.30	0.15	8.31	3.9	420	1.42	0.76	1.36	0.03	21.9	1.4	14	5.33	13.9	1.73	
H444666	1.03	0.18	7.77	3.4	760	1.4	1.37	1.08	0.03	26.2	2.6	12	5	20.6	1.56	
H444667	1.40	0.01	7.89	1.3	1100	3.17	0.09	1.88	0.34	21.6	6	7	11.3	6.3	1.6	
H444668	0.98	0.83	8.26	7.3	1050	3.32	2.64	0.68	0.06	189	8.8	20	4.18	39.3	2.87	
H444669	0.93	0.45	7.57	4.6	1220	1.5	5.29	0.39	0.27	357	4.8	8	5.46	36	2.59	
H444670	1.19	1.48	8.2	16	1280	2.86	8.31	0.63	<0.02	183.5	7.6	17	3.81	26.2	3.57	
H444671	1.35	0.29	9.22	12.1	1740	2.81	1.26	0.85	0.04	58.1	6.3	183	7.88	27.5	3.93	
H444672	1.22	0.59	8.93	10.1	1690	2.12	11.05	0.78	0.26	166.5	8.7	18	7.04	34	3.08	
H444673	1.29	0.17	7.9	9.7	910	1.7	0.66	1.92	0.08	93.6	11.6	27	4.73	23	3.75	
H444674	1.76	0.11	8.62	4	670	1.81	0.57	0.29	0.08	78.6	8.7	17	2.25	9.5	3.25	
H444675	1.79	0.12	9.49	4.4	690	1.94	0.58	0.4	0.08	83.9	11.9	17	2.26	11.6	3.54	
H444676	1.43	0.12	8.19	8.6	1340	1.81	0.93	2.43	0.14	30.6	3.1	19	11.65	20.9	3.09	
H444677	1.17	0.11	8.98	11.3	1670	2.36	6.63	0.01	<0.02	82.4	1.4	17	6.66	5.5	1.84	
H444678	1.36	1.86	7.81	7.6	570	1.6	18.55	1.26	0.16	207	5.6	19	7.44	34.8	3.05	
H444679	1.44	0.4	7.84	31.7	970	3.18	4.64	0.24	<0.02	31.2	0.9	26	4.28	17.9	3.95	
H444680	1.41	0.13	8.24	6.5	1180	3.07	2.82	0.05	<0.02	7.77	0.4	27	4.57	2.3	1.49	
H444681	1.56	0.17	7.66	26.5	1200	2.6	2.8	0.06	<0.02	8.89	0.3	27	3.57	6.2	2.43	
H444682	1.69	0.07	8.16	6.5	580	2.34	0.34	1.66	0.04	97.1	4	18	2.79	7.2	2.83	
H444683	1.67	0.21	8.43	6.7	1030	2.84	1.77	1.25	0.02	36.4	1.3	18	9.13	13	2.85	
H444684	1.52	0.04	7.43	7.1	790	2.66	1.42	1	0.02	35	4.1	16	7.7	14	2.38	
H444685	1.57	0.05	8.1	2.8	830	1.99	0.24	1.53	0.07	117.5	9	18	5.05	49.5	2.89	
H444686	1.36	0.14	6.89	3.6	770	1.71	3.16	0.18	<0.02	57.6	1.5	15	5.5	9.2	2.53	
H444687	1.37	0.08	8.02	10.4	1090	2.02	1.63	0.76	0.02	100	6.3	16	3.55	16.1	3.09	
H444688	1.29	0.56	8.61	11.1	1980	2.68	4.84	0.05	<0.02	26.3	0.9	19	2.99	6.6	2.31	
H444689	1.53	0.1	8.41	19	1140	2.03	1.06	0.52	<0.02	33.1	0.2	20	2.22	2.3	2.3	
H444690	1.67	<0.01	8.17	1.2	930	2.68	0.09	1.72	0.07	167.5	12.8	23	5.06	30.6	3.01	
H444691	1.28	0.06	7.66	4	1140	2.05	0.35	1.22	0.02	56.1	2.2	18	2.07	16.4	2.6	
H444692	1.56	<0.01	7.92	0.7	640	2.23	0.07	2.59	0.07	175	15.3	22	4.68	5.8	3.65	
H444693	1.48	0.02	8.52	1.4	2020	2.11	0.15	1.03	0.03	148	9.6	22	4.07	38.2	3.55	
H444694	1.54	<0.01	9.24	2.1	1520	2.24	0.17	1.18	0.03	43.2	1.7	18	3.67	17.2	1.94	
H444695	1.57	<0.01	8.06	2.3	680	1.79	0.37	3.6	0.08	116.5	14.3	22	7.14	21.4	3.61	
H444696	1.64	<0.01	7.86	1.3	790	1.64	0.03	0.75	0.02	53.8	3.6	19	7.35	27.2	3.02	
H444697	1.29	0.03	7.94	4.5	1380	1.2	0.31	0.15	<0.02	51.1	0.5	18	3.35	8.6	2.68	
H444698	1.86	<0.01	8.83	4.3	1090	1.83	0.17	1.3	0.03	28.8	8.9	20	6.54	24.2	3.16	
H444699	1.73	0.01	7.84	4.1	1020	1.62	0.22	1.43	0.02	53.5	3.3	18	4.47	12.3	2.67	
H444700	1.66	0.02	8.35	3.5	990	2.24	0.2	2.08	0.05	45.9	1.7	18	5.31	11.7	2.43	
H444701	1.47	0.01	8.26	3.2	720	1.9	0.23	2.28	0.05	50	3	19	7.19	13.3	2.95	
H444702	1.32	<0.01	8.6	3.8	900	1.66	0.23	1.15	0.05	44.2	1.8	39	5.06	11.3	2.75	
H444703	1.61	0.06	8.73	11	1080	3.06	0.96	1.19	0.03	95.5	4.8	19	7.43	16.6	3.12	



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Project: ONT AU GEN (203400)

## CERTIFICATE OF ANALYSIS TB08154814

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm 0.05	Ge ppm 0.05	Hf ppm 0.1	In ppm 0.005	K % 0.01	La ppm 0.5	Li ppm 0.2	Mg % 0.01	Mn ppm 5	Mo ppm 0.05	Na % 0.01	Nb ppm 0.1	Ni ppm 0.2	P ppm 10	Pb ppm 0.5
H444664		23.3	0.1	2.8	0.018	3.05	27.5	89.1	0.73	644	0.78	1.02	3.2	4.4	520	22.3
H444665		23.2	0.06	3.4	0.018	1.91	14.7	58.4	0.33	167	4.17	2.76	4.1	3.5	570	25
H444666		26.1	0.11	3.1	0.02	2.15	19.3	56.1	0.32	127	3.64	2.34	3.5	5	460	28.2
H444667		21.6	0.08	2.7	0.015	3.35	10.9	56.6	0.96	617	0.16	0.59	2.4	8.8	350	18.1
H444668		22.5	0.26	5	0.034	3.25	88.7	61.7	0.79	246	5.14	0.86	6.2	10.5	1420	135
H444669		23.5	0.35	4.7	0.019	2.9	223	134.46	0.56	175	12.9	1.57	3.5	6.3	1310	131
H444670		22.5	0.25	5.3	0.04	3.49	108.5	71.7	0.91	452	12.25	0.74	9.8	8.8	2010	222
H444671		24.3	0.11	4.2	0.038	3.27	38.6	38.1	1.28	681	5.68	1.27	9.6	56.4	1160	27.4
H444672		22.5	0.25	3.2	0.077	3.88	92.9	139	0.96	241	5.09	0.33	2.3	12.3	1090	89.2
H444673		22	0.15	3.1	0.034	2.12	43.1	56.2	1.33	1155	1.6	1.55	5.2	16.8	1300	35.2
H444674		23.3	0.14	4.1	0.027	2.67	35	41.8	0.19	46	3.12	0.97	1.9	8	1350	28.2
H444675		24.6	0.16	4.2	0.027	2.64	35.4	47.3	0.21	55	2.9	1.06	1.9	11	1330	30.4
H444676		23.9	0.09	3.5	0.034	2.23	21.9	55.4	1.33	1515	3.07	1.25	3	11.3	1310	67.2
H444677		23.9	0.14	3.9	0.04	4.1	49.5	97.9	0.56	121	5.14	0.37	3.8	3.5	1750	80.9
H444678		16.9	0.28	3.6	0.041	3.74	124	130.5	0.85	235	7.15	0.33	1.7	8.5	1080	328
H444679		22.9	0.16	3.8	0.057	3.49	22.1	74.9	0.66	132	10.8	0.94	2.4	3.3	1080	34.2
H444680		22.9	0.13	3.4	0.051	4.3	5.1	96.4	0.63	157	4.72	0.27	3.4	1.5	570	23.6
H444681		18.6	0.12	3	0.029	3.82	6.3	67.4	0.54	112	5.38	0.53	2.3	1	630	18
H444682		23.2	0.2	4.4	0.03	1.88	42.3	23.7	0.67	438	1.26	1.66	8.5	9	1230	19.1
H444683		24.2	0.15	4.1	0.052	2.97	24.9	67.2	1.22	566	1.04	1.95	2.4	5.1	1340	57
H444684		20.7	0.14	3.8	0.041	2.79	21.7	56	1.01	384	0.47	1.58	3.3	8.8	1190	40
H444685		21.2	0.24	3.5	0.027	3.05	61.1	24.3	0.94	434	1.82	0.67	3.1	14.1	1040	16.5
H444686		18.55	0.15	3.6	0.044	3.63	41.2	44	0.97	254	2.88	0.29	4.9	3.1	1080	35.9
H444687		20.6	0.21	3.9	0.032	3.11	42.7	27	0.79	280	2.3	1.66	5.7	10.2	1070	18.5
H444688		26.9	0.17	4.1	0.056	4.24	14.7	43.4	0.52	101	4.51	0.49	4.9	1.7	780	40.4
H444689		24.6	0.17	4.4	0.034	3.2	20.3	24.2	0.35	182	1.89	1.89	4.1	2.8	830	21.4
H444690		23.6	0.35	4.9	0.031	2.22	70.7	27.9	1.08	546	0.13	3.09	11	27.6	1530	19.7
H444691		19.85	0.16	4.6	0.029	2.13	36.3	20.1	0.68	213	0.83	2.34	3.8	7.4	1250	31.4
H444692		22	0.33	4.6	0.028	2.48	76.5	30	1.41	812	0.11	2.9	9.9	29.5	1510	12.9
H444693		22.5	0.29	4.9	0.03	2.96	63.3	25.8	0.97	521	0.6	2.29	10.1	26.4	1790	11.2
H444694		25.7	0.16	4.6	0.033	3.65	28.6	36.7	0.57	186	1.6	0.95	4.5	8.7	1310	18.2
H444695		22	0.28	2.8	0.035	2.22	49.5	37.2	1.17	707	0.85	1.33	6.9	17.9	1200	16.9
H444696		19.6	0.19	3.7	0.021	3.12	27.9	31.3	0.61	478	0.16	0.84	7.2	13.1	1130	11.9
H444697		21.7	0.17	6.8	0.018	3.84	37.2	31.1	0.32	80	6.67	0.35	5	3.6	800	23.2
H444698		23.1	0.16	6	0.025	2.98	13.8	34	0.75	467	1.91	1.19	10.9	11.8	1440	22.8
H444699		19.35	0.17	4.1	0.021	2.43	24.9	26.3	0.69	352	3.68	1.21	6	8.9	1120	20.9
H444700		23.7	0.17	4.1	0.029	2.19	27.5	33.5	0.95	404	2.21	1.48	4.1	8.9	1050	22
H444701		20.9	0.17	3.7	0.025	1.8	29.4	44.1	1.07	534	0.78	1.98	5.1	11.9	1190	20.4
H444702		24.5	0.18	4.9	0.04	2.96	14.2	46.2	0.68	389	0.63	1.24	5	12.4	1420	18.7
H444703		23.8	0.23	5.5	0.039	2.54	42.3	40.5	0.79	670	0.33	2.52	9.9	9.2	1470	35.5



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## CERTIFICATE OF ANALYSIS TB08154814

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte Units LOR	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
H444664		169	<0.002	0.18	0.94	4.3	1	0.5	388	0.13	<0.05	5.9	0.149	3.6	1.3	38
H444665		106	<0.002	0.16	0.48	4.9	1	0.5	349	0.16	<0.05	7.2	0.148	2.46	1.9	43
H444666		106.5	<0.002	0.11	0.64	4.6	1	0.6	610	0.18	<0.05	6.5	0.147	2.84	1.8	39
H444667		138.5	<0.002	0.01	1.27	3.4	1	0.5	412	0.17	<0.05	2	0.141	3.72	0.8	26
H444668		133.5	<0.002	2.22	10.65	7	3	0.6	497	0.26	1.62	18.8	0.19	3.33	4.7	80
H444669		156.5	<0.002	1.6	1.72	4.6	5	0.7	531	0.17	0.57	20.4	0.127	4.5	5	54
H444670		138.5	0.002	2.51	18.15	6.5	5	0.7	607	0.39	3.79	20.9	0.254	3.03	5.4	91
H444671		121.5	0.002	0.3	0.92	11.2	2	0.8	435	0.43	1.06	10.8	0.342	3.45	2.6	94
H444672		193	0.002	2.36	5.83	7.2	5	0.9	499	0.11	0.62	9.6	0.133	7.92	3.2	75
H444673		82.9	<0.002	0.71	1.35	8.4	2	0.6	852	0.28	0.65	9.1	0.261	2.48	1.9	79
H444674		94	<0.002	2.35	0.77	7.4	2	0.3	379	0.11	1.02	9.4	0.113	2.51	2	62
H444675		94.5	<0.002	3.09	0.87	7.8	2	0.4	410	0.11	1.14	9.4	0.114	2.58	2.2	63
H444676		114	<0.002	0.39	1.44	7.3	2	0.5	851	0.17	1.04	10.6	0.159	6	2	78
H444677		219	<0.002	0.41	1.79	6.4	3	0.7	528	0.16	0.66	12.2	0.156	7.71	6.2	84
H444678		151.5	0.008	2.16	3.56	6.3	5	0.7	550	0.09	0.91	11.8	0.12	7.53	3.1	70
H444679		178.5	0.002	0.88	2.62	8.1	6	0.8	374	0.12	0.96	9.1	0.18	7.02	2.1	89
H444680		194	<0.002	0.12	1	9	3	0.9	142.5	0.17	0.41	5	0.247	7.09	1.7	86
H444681		165.5	<0.002	0.38	1.62	8.4	2	0.6	181.5	0.12	0.59	5	0.197	6.03	1.6	75
H444682		69.2	<0.002	0.41	0.55	7.8	2	0.6	527	0.44	0.29	11.7	0.292	1.71	2.2	73
H444683		178.5	<0.002	0.54	1.46	7.5	3	0.6	527	0.13	0.39	12.7	0.172	8.16	2.8	79
H444684		156	<0.002	0.83	1.41	7.4	2	0.5	368	0.18	0.49	11	0.185	7.08	2.6	71
H444685		113	0.002	0.22	0.66	6.5	1	0.6	382	0.18	0.14	11	0.178	2.51	2.2	62
H444686		173.5	<0.002	0.57	0.84	6.8	3	0.6	231	0.28	0.66	10.5	0.215	6.04	2.3	61
H444687		121.5	<0.002	1.45	0.96	5.9	2	0.6	424	0.3	0.85	12.5	0.241	3.27	2.5	72
H444688		144	<0.002	0.25	1.08	7.7	2	0.8	283	0.22	1.02	8.6	0.245	4.26	3.1	87
H444689		125	<0.002	0.43	1.97	9.2	2	0.7	432	0.22	0.4	10.5	0.229	4.58	2.1	82
H444690		87	<0.002	0.16	0.31	8.1	1	0.7	690	0.51	0.05	14.4	0.332	1.6	2.2	79
H444691		69.4	<0.002	0.38	0.63	7.7	2	0.5	840	0.22	0.45	14.4	0.197	1.1	3.3	80
H444692		89.8	<0.002	0.05	0.29	7.3	1	0.6	458	0.48	<0.05	14.3	0.309	1.51	1.7	72
H444693		97.7	<0.002	0.06	0.28	7.7	1	0.6	669	0.48	0.13	16.4	0.32	1.33	2.2	80
H444694		112.5	0.002	0.1	0.61	8	1	0.7	445	0.28	0.11	13.8	0.213	1.92	2.4	78
H444695		82.5	<0.002	0.46	0.47	9.4	1	0.6	395	0.35	0.11	8.9	0.305	2.43	1.6	91
H444696		110.5	<0.002	0.06	0.24	5.7	1	0.5	323	0.36	<0.05	10.1	0.253	2.05	2	56
H444697		118.5	<0.002	0.24	0.46	4.7	1	0.6	409	0.22	0.46	22.2	0.171	2.12	6.3	59
H444698		110.5	<0.002	1.09	0.31	8.2	1	0.6	401	0.45	0.3	20.8	0.298	2.23	3.3	80
H444699		78.2	0.002	0.47	0.44	6.3	1	0.5	418	0.28	0.26	13.9	0.22	1.64	2.6	69
H444700		72.9	<0.002	0.23	0.69	6.5	1	0.6	510	0.25	0.14	11.6	0.187	1.85	1.9	69
H444701		74.1	<0.002	0.12	0.51	6.8	1	0.5	492	0.28	0.28	10.5	0.255	1.66	1.8	70
H444702		111	<0.002	0.09	0.63	11.7	1	0.7	410	0.3	0.27	11.2	0.299	1.77	2.3	100
H444703		115.5	<0.002	0.61	1.23	9.7	1	0.7	526	0.49	0.82	18.3	0.303	4.09	3.2	91



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-ICP21
		W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm
		0.1	0.1	2	0.5	0.001
H444664		3.2	6.3	107	104.5	0.002
H444665		2.3	6.1	51	119	0.003
H444666		3.8	5.1	44	110	0.001
H444667		9.3	4.7	172	90.1	<0.001
H444668		7.2	12.8	50	177	0.002
H444669		8.8	11.9	62	166.5	0.002
H444670		8.3	13	40	194.5	0.009
H444671		14.8	9.6	133	149	0.003
H444672		5.5	9.9	135	111	0.003
H444673		1.6	11.2	126	108.5	0.002
H444674		1.1	8.5	44	147.5	0.003
H444675		1.1	9.9	36	154	0.002
H444676		1.4	7.2	141	124.5	0.005
H444677		9.3	7.7	31	133	0.009
H444678		5	11.5	95	113.5	0.004
H444679		4.7	7.4	40	121	0.073
H444680		7.5	5.4	29	105	0.018
H444681		5.6	4.9	24	95.6	0.055
H444682		1.4	9	68	135	0.001
H444683		4.7	9.3	116	134	0.006
H444684		3.5	8.7	90	115.5	0.002
H444685		0.8	11.6	56	113	0.002
H444686		4.9	6.5	56	111.5	0.001
H444687		8.1	9.6	43	120.5	0.005
H444688		8.1	7.5	26	126.5	0.008
H444689		4.6	7.7	29	136	0.002
H444690		3.9	14.7	89	153.5	<0.001
H444691		5.8	9.5	52	144.5	0.003
H444692		5.1	13.5	95	140	<0.001
H444693		9.1	13.3	76	152.5	0.001
H444694		2.3	9.5	41	142	0.001
H444695		2.2	14.4	81	87	<0.001
H444696		2.3	8	61	120.5	<0.001
H444697		3.9	10.3	29	240	0.003
H444698		2.5	8.3	72	204	0.003
H444699		2	6.8	58	135.5	0.004
H444700		1.3	7.6	79	131.5	0.001
H444701		1.3	8.2	81	120	0.003
H444702		1.8	10.1	62	152	0.001
H444703		6.2	12.4	81	173	0.005



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## CERTIFICATE OF ANALYSIS TB08154814

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
H444704		1.46	0.19	7.76	25.3	1210	1.63	4.86	0.17	<0.02	51.4	1.6	21	4	8.4	2.95
H444705		1.41	0.18	8.16	10.3	740	2.4	0.21	0.39	0.08	82.6	7	21	3.86	42.7	4.35
H444706		1.21	0.16	8.23	6.9	860	1.48	0.16	0.44	0.07	122.5	8.9	19	4.74	38.9	3.99
H444707		1.61	0.09	7.99	3.7	590	1.67	0.11	1.32	<0.02	26.9	2.6	19	5.18	12.4	2.12
H444708		1.54	<0.01	8.11	2.8	860	1.86	0.36	0.38	<0.02	28.7	7.7	16	2.62	9.6	2.78



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Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
H444704	22.1	0.12	3.4	0.057	3.17	55.8	42.1	0.47	120	9.34	0.62	2.6	4.5	1140	43.3
H444705	24.2	0.19	3.2	0.03	2.55	42.4	35.5	0.71	2260	1.6	0.82	7.1	13.1	1140	19.3
H444706	22.6	0.19	3.5	0.029	2.91	58.3	40.6	0.69	1950	0.92	0.81	5.8	25	1130	15.6
H444707	19.65	0.1	3.6	0.021	2.44	12.9	33.7	0.58	141	1.07	1.72	2.1	6.9	1160	16.3
H444708	22	0.19	4.3	0.027	2.62	13.1	46.8	0.31	91	1.91	0.87	3.5	9.1	980	15.9



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Method Analyte Units LOR	ME-MS61 Rb ppm	ME-MS61 Re ppm	ME-MS61 S %	ME-MS61 Sb ppm	ME-MS61 Sc ppm	ME-MS61 Se ppm	ME-MS61 Sn ppm	ME-MS61 Sr ppm	ME-MS61 Ta ppm	ME-MS61 Te ppm	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm
Sample Description	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
H444704	131.5	0.007	0.85	2.19	8.3	3	0.7	401	0.15	1.23	10	0.135	5.38	2.1	77
H444705	111	<0.002	1.61	0.6	9.2	2	0.6	300	0.4	0.24	10	0.316	2.24	2	85
H444706	111	0.004	0.62	0.37	6.6	<1	0.7	441	0.33	0.42	11.9	0.213	2.34	2.3	61
H444707	79.8	0.005	0.43	0.34	6.4	1	0.5	992	0.14	0.39	10.8	0.136	1.53	2.5	50
H444708	97.3	0.002	1.71	0.69	7.1	3	0.7	292	0.2	0.88	9.4	0.165	2.27	2.3	66



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## CERTIFICATE OF ANALYSIS TB08154814

Sample Description	Method Analyte Units LOR	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-ICP21 Au ppm 0.001
H444704		5.8	6.3	62	119.5	0.007
H444705		5.1	11.5	103	105.5	0.002
H444706		3.2	10.2	99	124.5	0.003
H444707		0.5	9.4	37	133.5	0.001
H444708		4.2	7.2	26	129.5	<0.001





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Method	CERTIFICATE COMMENTS
ME-MS61	REE's may not be totally soluble in this method.

