Technical Report

on the

2009 Diamond Drill Program,

Thorne Lake Property

Ellard Lake Area, Northwest Ontario
NTS 53J05, 12

For
Northern Superior Resources Inc.

Thomas R. Hart, P.Geo
January 22, 2010

Table of Contents

LIST OF FIGURES ..... **III**
APPENDICES ..... **III**
APPENDIX A: DIAMOND DRILL LOGS III
APPENDIX B: DIAMOND DRILL HOLE ANALYTICAL AND GEOCHEMICAL DATA III
APPENDIX C: GEOLOGY AND CAHNNEL SAMPLING OF THE GOLD SHOWINGS .. IV
APPENDIX D: CHANNEL SAMPLE GEOCHEMICAL ANALYSES IV
1. SUMMARY **5**
2. PROPERTY LOCATION AND DESCRIPTION **5**
3. ACCESSIBILITY AND PHYSIOGRAPHY **7**
5. HISTORY **8**
4. PROPERTY GEOLOGY **9**
4.1. SUPRACRUSTAL ROCKS 10
4.2. INTRUSIVE ROCKS 11
4.3. STRUCTURE AND METAMORPHISM 11
4.3. MINERALIZATION 12
5. 2009 DIAMOND DRILL PROGRAM **12**
5.1. TL09-001 AND THE 959 SHOWING 15
5.2. TL09-002 AND THE 914 SHOWING 16
5.3. TL09-003 AND THE HEAD OF A GOLD-IN-TILL DISPERSAL TRAIN 17
5.4. TL09-004 AND THE 955 SHOWING 18
5.5. TL09-005 AND THE 972 SHOWING 19
5.6. TL09-006 AND THE 161 SHOWING 20
6. TRENCH SAMPLING AND MAPPING **22**
6.1. 914 SHOWING 22
6.2. 955 SHOWING 24
6.3. 959 SHOWING 25
6.4. 972 SHOWING 26
6.5. 161 VEIN 26
7. SAMPLE METHOD AND APPROACH **27**
7.1. BEDROCK CHANNEL SAMPLING 27
7.2. CORE LOGGING AND SAMPLING 27
8. SAMPLE PREPARATION ANALYSES AND SECURITY **28**
8.1. DRILL CORE ANALYSES 28
8.2. BEDROCK CHANNEL ANALYSES 29
9. INTERPRETATION AND CONCLUSIONS **30**
11. REFERENCES **30**

List of Tables

page

Table 1: List of mining claims.....2

Table 2: Geological legend for the Thorne Lake Property .....(see disk)

Table 3: 2009 Diamond Drill Hole Program Collar Locations 13

Table 4: Assay Highlights for the 2009 Fall Drill Hole Program 14

Table 5: Channel Sample Gold Assay Results with Select Trace Elements 25

LIST OF FIGURES

(on accompanying disk)

Figure 1: Property Location Map

Figure 2: Claim Location Map with the local bedrock geology of the Thorne Lake property (geology from Stone 2005)

Figure 3: Bedrock geology and gold showings of the north east portion of the property

Figure 4: Drill Plan for the 2009 Diamond Drill Program

Figure 5b: 955 Showing displaying ribbony character of the quartz vein

Figure 5b: 959 Showing displaying ribbony to laminated character of the quartz veining

APPENDICES

(on accompanying disk)

APPENDIX A: DIAMOND DRILL LOGS

Diamond drill logs

Vertical Cross Sections

Surface Plan or Diamond Drilling

APPENDIX B: DIAMOND DRILL HOLE ANALYTICAL AND GEOCHEMICAL DATA

Table B1: Partial whole rock geochemistry for the diamond drill core

ALS Chemex Assay Certificates

ALS Chemex Partial Geochemistry Certificates

APPENDIX C: GEOLOGY AND CAHNNEL SAMPLING OF THE GOLD SHOWINGS

Figure C1: Geology and Channel samples for the 914 Showing
Figure C2: Geology and Channel samples for the 944 Showing
Figure C3a: Geology and Channel samples for the 959 Showing – east
Figure C3b: Geology and Channel samples for the 959 Showing - west
Figure C4: Geology and Channel samples for the 972 Showing – east
Figure C4: Geology and Channel samples for the 972 Showing - west
Figure C5: Geology and Channel samples for the 161 Vein

APPENDIX D: CHANNEL SAMPLE GEOCHEMICAL ANALYSES

Table D1: Gold Assay and Trace Element Geochemistry of the Channel Samples.
Table D2: Gold Assay and Trace element Geochemistry of Reconnaissance grab sampling
Figure D1: Location of the Reconnaissance Samples
ALS Chemex Assay Certificates
ALS Chemex Partial Geochemistry Certificates

1. SUMMARY

This report contains the results of the 2008 diamond drilling program and channel sampling of the gold showings completed by on the Thorne Lake Property during August and September, 2009. The work was completed by Northern Superior Resources acting as the project operator for the Northern Superior Resources and International Nickel Ventures (INV) option-joint venture.

The drill program consisted of 6 holes totalling 1,002 m. The purpose of these holes was to gain a better understanding of the local geology and test four gold showings and two gold-in-till heavy mineral dispersal trains identified during the July 2009 sampling and mapping program. As a follow-up to the July 2009 mapping and prospecting program, the gold showings were stripped and channel sampled.

Gold mineralization was identified in the 5 holes undercutting bedrock gold mineralization. The gold mineralization in drill hole could usually be correlated with the gold showings and also identified addition mineralization not recognized on surface. More detailed geological information regarding the bedrock structures and lithologies in this area is also required to properly evaluate the potential controls on gold mineralization.

2. PROPERTY LOCATION AND DESCRIPTION

The Thorne Lake Property is located approximately 720 km northwest of Thunder Bay, Ontario, and 360 km northwest of Pickle Lake (Fig. 1). The Property is located within the traditional area of the First Nations community of Sachigo Lake which is situated about 80 km southwest of the Property on the northwest shore of Sachigo Lake. The Property extends for about 20 km east to west, and is centered at approximately latitude 54º 42'N and longitude 91º 40'W crossing the boundary between NTS areas 53J12 and 53J05.

The Thorne Lake Property consists of 44 mining claims containing 676 units totalling 10,752 hectares (Fig. 2; Table 1). The location of these claims is approximately as shown in Figure 2 as GPSs were utilized in the staking of the more recent claims. These unsurveyed mining claims are located in the unsurveyed mining areas of Thorne Lake, Ellard Lake, Gummer Lake, and Lacey Creek, Kenora Mining Division.

The main block of claims were staked in the fall of 2007 and all overburden sampling completed in 2008

has been filed for assessment and should be in good standing until November 2010 (Table 1). A group of 6 pre-existing claims from a 2006 diamond exploration project were transferred to the Thorne Lake Project. These claims adjoin the western side of the property and have expiry dates of November 2010 or July 2011 (Table 1). An additional 12 claims were staked in July 2009 and have expiry dates of July 2011 (Fig. 2; Table 1).

Table 1: List of Mining Claims

	Claim Map	Township	Claim Number	Area (Ha)	Recording Date	Expiry Date
1	G-2234	Thorne Lake	4221701	256	23-Nov-07	23-Nov-2010
2	G-2234	Thorne Lake	4221702	256	23-Nov-07	23-Nov-2010
3	G-2234	Thorne Lake	4221703	256	23-Nov-07	23-Nov-2010
4	G-2234	Thorne Lake	4221704	256	23-Nov-07	23-Nov-2010
5	G-2234	Thorne Lake	4221705	256	23-Nov-07	23-Nov-2010
6	G-2234	Thorne Lake	4221706	256	23-Nov-07	23-Nov-2010
7	G-2234	Thorne Lake	4221707	256	23-Nov-07	23-Nov-2010
8	G-2234	Thorne Lake	4221708	256	23-Nov-07	23-Nov-2010
9	G-2234	Thorne Lake	4221709	256	23-Nov-07	23-Nov-2010
10	G-2234	Thorne Lake	4221710	256	23-Nov-07	23-Nov-2010
11	G-2234	Thorne Lake	4221711	256	23-Nov-07	23-Nov-2010
12	G-2234	Thorne Lake	4221712	256	23-Nov-07	23-Nov-2010
13	G-2234	Thorne Lake	4221713	256	23-Nov-07	23-Nov-2010
14	G-2234	Thorne Lake	4221714	256	23-Nov-07	23-Nov-2010
15	G-2234	Thorne Lake	4221715	256	23-Nov-07	23-Nov-2010
16	G-2234	Thorne Lake	4221716	256	23-Nov-07	23-Nov-2010
17	G-2234	Thorne Lake	4221717	256	23-Nov-07	23-Nov-2010
18	G-2234	Thorne Lake	4221718	256	23-Nov-07	23-Nov-2010
19	G-2234	Thorne Lake	4221719	256	23-Nov-07	23-Nov-2010
20	G-2234	Thorne Lake	4221720	256	23-Nov-07	23-Nov-2010
21	G-2234	Thorne Lake	4221721	256	23-Nov-07	23-Nov-2010
22	G-2234	Thorne Lake	4221722	256	23-Nov-07	23-Nov-2010
23	G-2234	Thorne Lake	4221723	256	23-Nov-07	23-Nov-2010
24	G-2234	Thorne Lake	4221724	256	23-Nov-07	23-Nov-2010
25	G-2234	Thorne Lake	4221725	256	23-Nov-07	23-Nov-2010
26	G-2234	Thorne Lake	4221726	256	23-Nov-07	23-Nov-2010
27	G-2026	Ellard Lake	4208823	256	17-Jun-05	9-Jul-2010
28	G-2026	Ellard Lake	4208822	256	17-Jun-05	9-Jul-2010
29	G-2026	Ellard Lake	4208817	256	17-Jun-05	5-Jul-2010
30	G-2026	Ellard Lake	4208818	256	17-Jun-05	5-Jul-2010
31	G-2026	Ellard Lake	4221699	192	23-Nov-07	**23-Nov-2009**

	Claim Map	Township	Claim Number	Area (Ha)	Recording Date	Expiry Date
32	G-2026	Ellard Lake	4208824	256	17-Jun-05	9-Jul-2010
33	G-2026	Ellard Lake	4250881	256	14-Jul-09	14-Jul-2011
34	G-2026	Ellard Lake	4250882	128	14-Jul-09	14-Jul-2011
35	G-2261	Thorne Lake	4250070	256	14-Jul-09	14-Jul-2011
36	G-2261	Thorne Lake	4250069	256	14-Jul-09	14-Jul-2011
37	G-2261	Thorne Lake	4250068	256	14-Jul-09	14-Jul-2011
38	G-2261	Thorne Lake	4250067	256	14-Jul-09	14-Jul-2011
39	G-2261	Thorne Lake	4250066	256	14-Jul-09	14-Jul-2011
40	G-2026	Ellard Lake	4250072	256	14-Jul-09	14-Jul-2011
41	G-2026	Ellard Lake	4250073	96	14-Jul-09	14-Jul-2011
42	G-2026	Ellard Lake	4250880	128	14-Jul-09	14-Jul-2011
43	G-2026	Ellard Lake	4250879	224	14-Jul-09	14-Jul-2011
44	G-2026	Ellard Lake	4250071	256	27-Jul-09	27-Jul-2011

3. ACCESSIBILITY AND PHYSIOGRAPHY

The Thorne Lake Property is accessible by helicopter and by float plane to larger lakes, from the First Nations community of Sachigo Lake. Sachigo Lake is located on the northwest side of Sachigo Lake, about 80 km southwest of the property (Fig. 1), and is accessible by daily scheduled air service from Thunder Bay, located approximately 720 km to the southwest. Sachigo Lake is also accessible during the first two months of each year by an approximately 225 km winter road that originates from a staging area off an all weather gravel road, about 240 km north northeast of Pickle Lake.

The drill program was based out of the Echoing Lake Lodge which is owned and operating by the Sachigo Lake community. The lodge is located 35 km west of the property on the north shore of Echoing Lake and is located approximately 75 km northwest of the community.

The topography of the Thorne Lake Property is primarily controlled by the deposition of glacial sediments which cover over >95% of the Property. Topographic relief is relatively low and flat, generally varying only 20 m over broad areas, with occasional isolated ridges along the south side of the Property that are 30 to 40 m above the base elevation and generally oriented along a southwest-trend. The limited variation in relief results in poor drainage producing numerous swamps and lakes and few well developed rivers and streams. The presence of extensive glacial sedimentation results in most of the Property hosting <1% bedrock exposure.

5. HISTORY

Recorded prospecting activity in the Ellard Lake greenstone belt began in the early 1930's largely concentrated on exploration for gold and silver. Exploration work in the belt declined during the Second World War and did not increase again until the 1960's. In the late 1960's and early 1970's exploration activity for base metals, particularly copper and nickel, covered the area around Thorne Lake as a result of the development of airborne geophysical methods particularly suited to base metal exploration. Regionally, exploration continued sporadically into the 1990's targeting gold as a result of the increase in gold prices. Recent exploration activity has examined the area for both precious and base metals.

1971-1973: INCO Ltd. completed a regional airborne magnetic and electromagnetic (EM) geophysical survey in the early 1970's. A portion of the survey covered most of the current Property, but only one EM anomaly is located in the west central portion of the Property. A follow up ground magnetic and EM survey was completed on the combined airborne magnetic and EM anomaly, and one diamond drill hole (57711-0) was collared north of Lacey Lake. The drill hole was oriented on an 180^{o} azimuth with a -45^{o} inclination with a total depth of 247 ft (75.3 m). The hole intersected graphite with sulphides at 50.75 ft (15.5 m) depth that was interpreted to account for the airborne geophysical anomalies.

2002-2004: Aurora Platinum Corp. staked the Lacey Lake property which covered the southern portion of the Thorne Lake Property, and consisted of a narrow line of 26 claims extending for 16 km from the west end of Lacey Lake to Gummer Lake to the east. Exploration activity during 2002 consisted of geological mapping and rock and till sampling with Superior Diamonds acting as the contractor for the overburden sampling portion of the program (Kaip and Childe 2002). Superior Diamonds Inc. collected 14 samples on the Lacey Lake claims.

Superior Diamonds Inc. collected 15 samples on or about the claims on the west end of the Thorne Lake property for heavy mineral analyses for kimberlite indicator minerals as well as gold.

2005: With the purchase of Aurora Platinum Corp. by FNX Mining Company Inc. in early 2005, ownership of the remaining claims from the original Lacey Lake property was purchased by Lake Shore Gold Corp.. Only minor work was completed on these claims and they were subsequently allowed to lapse.

Superior Diamonds Inc. staked a number of claim blocks and a group of 3 drill holes were completed approximately 1 km north to northwest of the west end of the Thorne Lake Property. One hole, ELL05-05, was collared on claim 4208822, on the west end of the Property, on an island in Mooreson Lake. The 30 m vertical hole intersected chloritic clastic sediments classified as greywacke and argillite (Stephenson 2007). A second hole, ELL05-06, was collared on claim 4221718, northeast of Lacey Lake and east of

Thorne Lake. The 220 m drill hole, oriented at 329^{o} and -45^{o} dip, intersected mafic metavolcanic flows and interflow sedimentary rocks cut by felsic to intermediate dykes (Stephenson 2007).

2008-2009: Northern Superior Resources Ltd. conducted an overburden-sampling program on the Thorne Lake Property, which was staked in the fall of 2007. The sampling program consisted of 132 hand dug pit samples which were analyzed for particulate gold and soil geochemical signatures.

During July 2009, Northern Superior Resources Inc. conducted overburden-sampling, bedrock mapping, and prospecting program on the Thorne Lake Property. The purpose of the program was to evaluate anomalous gold in till samples from the previous falls' sampling program (September, October 2008). A total of 216 hand dug pit samples were collected and submitted to Overburden Drilling Management for heavy mineral particulate gold. Bedrock mapping of portions of the property was completed during the same period, along with the collection of 45 grab samples submitted to ALS Chemex for gold assay and ICP-MS trace element analysis. A prospecting program concentrating on the northwestern portion of the property resulted in the collection of 26 grab samples submitted to ALS Chemex for gold assay and ICP-MS trace element analysis.

4. PROPERTY GEOLOGY

A reconnaissance scale mapping and sampling program was completed on the property during July 2009 concurrent with the surficial sampling program (Sooley and Hart 2009). Mapping concentrated primarily on the northern portion of the property due to a higher density of bedrock exposure as a result of a forest fire. This portion of the property is underlain by mafic to intermediate flows and pillowed flows and interbedded intermediate to felsic metavolcanic flows and volcaniclastic rocks (Fig. 3; Table 2). Interflow chert and ferruginous chert are common and clastic metasedimentary rocks are exposed in a few locations along the north side of the property. These rocks have been intruded by gabbro sills and diorite to granodiorite sill and dykes. The Ellard Lake Intrusion, located along the west side of the property, was emplaced into the older units. The metavolcanic rocks of the greenstone belt are bounded to the north by hornblende tonalite and to the south by biotite tonalite (Stone 2005). A series of northwest and north-trending diabase/gabbro dykes, probably part of the MacKenzie and Molson dyke swarms respectively, cut all other rock types but were only evident from the airborne magnetic survey data. The metavolcanic units strike to the east-southeast, with south dips, on the north side of the property and west, with north dips, on the south portions of the property. Shearing, and associated chlorite-biotite alteration, is generally sub-parallel to the lithologic strike directions. The metavolcanic and interflow metasedimentary rocks and gabbro sills are metamorphosed to regional amphibolites facies.

4.1. SUPRACRUSTAL ROCKS

Mafic to intermediate metavolcanic rocks consist of massive and pillowed lavas with subordinate coarse volcaniclastic units and gabbro sills. Some flows have fine-grained feldspar phenocrysts that appear to have a primary magmatic origin. The volcaniclastic units appear to be up to a few metres in width and consist of intermediate to mafic lapilli to block sized clasts in a mafic tuff matrix. Medium- to coarse-grained gabbroic textured and medium to coarse-grained feldspar porphyritic units are predominantly emplaced as sills but may be in part coarser grained massive flows. The flows have been metamorphosed to regional amphibolites facies with the development of medium to coarse-grained amphibole in lithologies in some locations. The pillows in many of the flows have only minor flattening and deformation appears to be restricted to discrete zones possibly representing primary flowtop material.

Intermediate to felsic metavolcanic rocks occur as units ranging from a few metres to a few tens of metres thick interbedded with the mafic to intermediate metavolcanic rocks. These rocks are moderately well foliated, very fine to fine-grained, light grey green, occasionally quartz porphyritic textured and are probably tuffaceous in origin. The quartz porphyritic tuffaceous units are distinguished from the felsic sills and dykes by a moderate to strong foliation. Volcanic debris flows composed of irregular shaped to subrounded lapilli to block size clasts of intermediate to felsic metavolcanic rocks and chert in a crystal-rich tuffaceous matrix are more common in the central portion of the belt, with the best examples exposed northeast of Lacey Lake (Fig. 3). Most of the volcanic rocks appear to be part of the Ellard assemblage with the intermediate to felsic debris flows of the south-central portion of the property probably forming part of the Oxford Lake assemblage.

Chemical metasedimentary rocks consist of interflow units generally less than 20 cm in width with strike lengths of up to a few metres. These rocks are light to medium grey to black, massive to banded chert or ferruginous chert. Some units have been metamorphosed to an amphibole-garnet rich unit probably due to a higher primary mud content with the best example exposed southwest of Elephant Lake (Fig. 3). The short strike length may be in part primary, but irregular bed forms suggest that these rocks have been deformed to a greater degree than the surrounding flows.

Clastic metasedimentary rocks are exposed south of Elephant Lake, on the north side of the property and adjacent to the north side of the greenstone belt and on the western end of the property (Fig. 3). In the northern portion of the property, these rocks are finely bedded to laminated siltstones to sandy siltstones occurring in units up to 50 cm in thickness interbedded with pillowed flows. The strike length of these units is difficult to determine as they have a recessive weathering profile. These units are broadly folded which may be the result of a combination of primary deposition on an irregular flow surface and later deformation. The metasedimentary rocks on the west end are more coarsely bedded and can resemble

the intermediate to felsic tuffs (Fig. 3). These rocks are probably interflow sediments, along with the chemical metasedimentary rocks, forming part of the Ellard assemblage.

4.2. INTRUSIVE ROCKS

Gabbro sills and dykes up to a few tens of metres in width intrude the supracrustal rocks that underlie the property. The sills are medium to coarse-grained, massive to weakly foliated and usually metamorphosed to amphibole gabbro. The gabbros appear to have been intruded along the strike of the metavolcanic rocks but the contacts are not commonly exposed. The outline of some of the sills has been interpreted based on the airborne magnetic anomalies.

Diorite to granodiorite dykes or sills ranging from a few tens of centimeters to a few metres in width intrude the metavolcanic rocks and gabbro sills. Many of the dykes are composed of fine to medium-grained, quartz and feldspar with 5 to 15% fine-grained biotite and resemble the massive felsic tuffaceous units. Coarse-grained quartz porphyritic units are less common with the best example exposed along the river between Thorne and Sellen lakes. A contact breccias composed of variably altered and absorbed rounded to sub-angular mafic to felsic fragments in a diorite matrix was observed along the contact of one 1 to 2 m wide dyke south of Elephant Lake. Some of these dykes may be related to the Ellard Lake pluton, located to the west, but confirmation of this relationship will require petrography and geochemistry studies.

The property is bounded to the west by the Ellard Lake pluton which was classified by Stone (2005) as part of the sanukitoid suite. A massive, medium to coarse-grained granodiorite exposed on the western side of the property is interpreted to be part of this pluton. A contact breccia between the granodiorite and the metavolcanic rocks is exposed discontinuously over a few hundred metres southwest of Pucker Lake. This breccia is composed of variably altered and absorbed rounded to sub-angular cobble sized mafic to felsic fragments breccias, and may represent a contact to the pluton. Alternatively, the breccia resembles the contact breccia observed in a diorite dyke about 2 km to the north and may be associated with a diorite sill rather than the pluton.

4.3. STRUCTURE AND METAMORPHISM

The metavolcanic units strike to the east-southeast, with south dips, and younging directions based on pillow shapes are generally towards the south, on the north side of the property. Stone (2005) interpreted the metavolcanic rocks to form a broad synclinal fold with a narrow, package of intermediate to felsic metavolcanic rocks occupying the core of the fold. Shearing, and associated chlorite-biotite alteration, is a

few tens of centimeters in width and generally sub-parallel to the lithologic strike.

The metavolcanic and interflow metasedimentary rocks and gabbro sills are metamorphosed to regional amphibolites facies. The diorite sills have biotite as a mafic mineral phase suggesting a lower metamorphic grade and possibly younger age.

4.3. MINERALIZATION

Quartz and quartz-carbonate pods and veins occur as interpillow spacing fillings, interflow material, shears, sheared intrusive contacts, and fracture fillings in the metavolcanic rocks, and gabbro and diorite sills and dykes. The veins pinch and swell along strike and commonly bifurcate, varying from <1 cm up to 30 cm in width. Veins usually strike subparallel to the regional foliation and some veins are folded with shallowly plunging axis to either the northwest or southeast.

Sulphide mineralization is relatively rare and most commonly associated with quartz-carbonate veins and pods. The sulphide content is highly variable along the strike of the veins, ranging from trace to 5% fine to medium-grained disseminated to poddy pyrite and chalcopyrite. Disseminated to fractured controlled sulphide mineralization hosted by the metavolcanic rocks is rare and localized in extent. One exception is two felsic tuffaceous units up to 30 cm wide and traceable for a few tens of metres containing up to 10% fine-grained disseminated pyrite, located on the north side of Pucker Lake.

Gold mineralization was identified in 4 outcrops as a result of the geological mapping prospecting program conducted during July 2009 (Fig. 3) (Sooley and Hart 2009). Three of the showings are associated with quartz veins and veinlets hosted by narrow shears within massive to pillowed mafic metavolcanic rocks, and the fourth showing is located along the contact between a gabbro cut by diorite dykes. Hand stripping and cleaning of the outcrops is restricted to a small area along the veins, but the character of the vein and host shear appears to be similar in all 4 of the gold showings.

5. 2009 DIAMOND DRILL PROGRAM

A drill program of 6 BQ thin wall drill holes totalling 1,002 m was completed between August 13 and September 5, 2009 (Table 3; Fig. 4). Four of the holes, totalling 677 m were completed to test the down dip potential of the 4 gold showings identified by sampling completed in July 2009. A single 150 m hole tested the area up-ice of a gold-in-till overburden dispersal train. The final 175 m hole was collared to test

the area up-ice of a 2009 overburden sample that contained 161 pristine grains out of a total of 184 grains.

The drilling was completed by Bradley Brothers Ltd. of Rouyn-Noranda, Quebec using a heli-portable, drill rig. The rig was moved between drill sites, supplied and serviced by helicopter contracted from Forest Helicopter of Kenora, Ontario. The drill program was supervised by T.R. Hart, P.Geo.

Table 3: 2009 Diamond Drill Hole Program Collar Locations

Drill Hole	UTM_North	UTM_East	Target	Elevation (m)	Azimuth	Inclination	Depth (m)
TL09-001	6044864	585944	959 Showing	201	020	-50	151
TL09-002	6044474	586873	914 Showing	200	021	-50	176
TL09-003	6044176	586628	gold_in_till anomaly	200	020	-50	150
TL09-004	6044477	586360	955 Showing	198	013	-50	176
TL09-005	6045317	584908	972 Showing	198	020	-50	174
TL09-006	6045004	584395	161 Showing	201	187	-50	175
						Total metres	1002

The azimuth and inclination of all drill holes were measured using a Reflex E-Z shot instrument. Measurements were made just below the casing, at the bottom of each drill hole, and at intervals of approximately 50 m. The azimuth recorded by the instrument were corrected to true north using and declination of 3^{o} 6' West as obtained from the Geological Survey of Canada (2009) (http://geomag.nrcan.gc.ca/apps/mdcal-eng.php). The Reflex survey data is summarized in the header section on each of the drill hole logs.

The location of each drill hole was recorded by an averaged GPS reading, but the accuracy of the location is generally > 5 m but < 20 m. The casing for each drill hole was removed and a flagged picket placed in the resulting hole. All readings are in Universal Transverse Mecator (UTM) coordinates using the North American Datum (NAD) 83 in Zone 15.

The entire core was sampled during this drill program, and a total of 921 samples were analysed for gold by fire assay with an atomic absorption finish completed by ALS-Chemex. A summary of results for samples containing > 0.40 ppm Au is presented in Table 4, unless the interval is required to calculate a length weighted average. All core intervals stated in Table 4 are core lengths as there is insufficient information available to properly calculate true widths, although the structures contained in most intervals are at high angles to the core axis suggesting that a calculated horizontal length could roughly approximate a true width. Drill holes not listed in Table 4 contained no samples with assays > 0.40 ppm Au. All assay results included in Table 4 form the basis for the Northern Superior press release dated October 27, 2009 (Northern Superior 2009).

In addition to the gold assays, a near total digestion geochemical analysis was completed on each sample interval to determine if there are elements association with the gold mineralization that could be used as pathfinders in future exploration programs (Appendix B).

Table 4: Assay Highlights for the 2009 Fall Drill Hole Program

Drill hole	Sample	From	To	Core length (m)	Horizontal length (m)	Au (ppm)
TL09-001	H754553	6.23	6.53	0.30	0.19	2.75
	H754558	11.83	12.73	0.90	0.58	1.00
	H754560	13.20	14.35	1.15	0.74	2.98
	H754561	14.35	15.00	0.65	0.42	0.93
	average	*11.83*	*15.00*	*3.17*	*2.04*	*1.56*
	H754570	20.80	21.22	0.42	0.27	1.28
	H754589	40.50	41.84	1.34	0.86	0.71
	H754593	44.96	46.29	1.33	0.86	0.57
	H754595	46.29	47.55	1.26	0.81	0.28
	H754596	47.55	48.57	0.92	0.59	1.84
	average	*44.96*	*48.57*	*3.51*	*2.26*	*0.80*
	H754606	56.44	57.94	1.50	0.96	0.59
	H754629	82.05	82.83	0.78	0.50	1.59
	H754630	82.83	84.51	1.68	1.08	0.31
	average	*82.05*	*84.51*	*2.46*	*1.58*	*0.72*
	H754667	122.14	122.50	0.36	0.23	0.995
	H754668	122.50	123.05	0.55	0.35	0.36
	average	*122.14*	*123.05*	*0.91*	*0.58*	*0.61*
TL09-002	H754805	128.00	128.48	0.48	0.31	1.54
TL09-004	H754999	17.51	17.94	0.43	0.28	1.01
	H755048	72.37	73.26	0.89	0.57	1.18
	H755070	96.45	96.84	0.39	0.25	0.68
	H755078	103.18	104.58	1.40	0.90	3.31
	H755079	104.58	105.38	0.80	0.51	1.74
	average	*103.18*	*105.38*	*2.20*	*1.41*	*2.74*
	H755083	108.58	109.14	0.56	0.36	0.61
	H755085	110.50	111.42	0.92	0.59	0.56
	H755086	111.42	112.32	0.90	0.58	0.47
	average	*110.50*	*112.32*	*1.82*	*1.17*	*0.52*
	H755107	136.55	138.05	1.50	0.96	0.49
	H755122	151.60	152.05	0.45	0.28	0.42
	H755125	154.76	155.56	0.63	0.40	0.93
	H755140	172.16	172.50	0.34	0.21	2.44
TL09-005	H755237	84.45	85.33	0.88	0.55	1.42
TL09-006	H755336	25.69	26.05	0.36	0.23	0.45
	H755385	79.35	79.78	0.43	0.28	1.60
	H755391	83.64	84.76	1.12	0.72	0.40

Drill hole	Sample	From	To	Core length (m)	Horizontal length (m)	Au (ppm)
	H755392	84.76	85.22	0.46	0.30	2.26
	average	*83.64*	*85.22*	*1.58*	*1.02*	*0.94*
	H755412	107.63	109.23	1.60	1.02	0.40
	H755415	111.25	111.61	0.36	0.23	0.45
	H755463	165.28	165.88	0.60	0.39	1.03
	H755467	169.35	170.00	0.65	0.42	1.28

5.1. TL09-001 AND THE 959 SHOWING

This hole was drilled to test the down dip potential of the quartz vein at the 959 showing, approximately 60 m northeast of the hole collar, which returned 3.54 g Au/t from a grab sample (Table 3; Fig. 4). The vein is laminated quartz stringers and veinlets in a biotite-chlorite-carbonate shear hosted by pillowed to massive mafic metavolcanic rocks. The vein and shear strike 115^{o}, dipping 81^{o}, and the dip is generally steep to the south with dip reversals due to flexure of the vein such that the target zone in the hole was estimated to be between 60 and 90 m.

Between the bedrock interface at about 6.23 m through to 57.94 m, a zone of variably sheared and biotite, carbonate, and chlorite altered mafic metavolcanic rocks and ferruginous chert contains intervals of fine- to very fine-grained disseminated pyrite and pyrrhotite (Appendix A). The proportions of metavolcanic and chert between 6.23 and 33.0 m are highly variable, ranging from a metavolcanic to a chert dominated unit, possibly the result of strong to intense shearing. A unit similar in appear was intersected between 79.40 and 82.83 m.

The mafic metavolcanic rocks are massive to pillowed flows with well defined selvages and interpillow hyaloclastite present in some intervals of the hole. Ferruginous chert occurs as light to medium grey, silica rich, massive to well laminated interflow units composed of chert with variable magnetite content. The cherts were not classified as ‘banded iron formation’ or ‘iron formation’ as these units have been interpreted to be interflow units with limited strike length rather than stratigraphic markers. A series of feldspar-porphyritic and biotite-rich diorite dykes intruded the mafic metavolcanic rocks. The feldspar-porphyritic, or fp, diorite dykes are more common and consist of a medium grey brown, weakly to moderately foliated, fine-grained groundmass containing fine-grained biotite and medium-grained, subhedral to anhedral, feldspar phenocrysts. The biotite is aligned along the foliated and may be metamorphic rather than primary magmatic. Biotite-rich, or bt, diorite dykes are distinguished by a lack of feldspar phenocrysts but otherwise resemble a finer grained fp diorite. Biotite +/-chlorite+/-carbonate alteration varies from pervasive weak to short intervals of intense alteration as at 22.5 m and 82.61 m. Strong alteration may correlate with, but is not restricted to, sheared or brecciated intervals. Several short,

generally less than 1 m, intervals of breccia consisting of metavolcanic fragments in a chert matrix occur down the hole. Shearing generally occurs over intervals of less than 1 metre with the exception of the upper 33 m of the hole and the interval between 79.40 and 82.83 m.

In most cases, the better gold assays are associated with strongly biotite altered and variably sheared mafic metavolcanic with 1-3% disseminated sulphide and little to no quartz (Appendix A). One exception is the second assay in the hole which is associated with quartz, although some of the silica in this unit may be related to the deformation and recrystallization of the chert rather than a separate hydrothermal event. Six intervals returned greater than 1.0 g Au/t in the first 57 m of the drill hole (Table 4), representing a mineralized zone with a horizontal width of about 30 m located between the drill hole collar and the 959 showing. The first box of the hole contained an interval that returned 2.75 ppm Au / 0.30 m and represents portions of the weathered surface zone suggesting that the hole collared within a broader mineralized zone, and there is good potential for additional mineralization to the south of the collar.

There are two intervals in the lower portions of the hole that could be correlated with the gold mineralization in the 959 showing. An interval between 82.05 and 82.83 m returned 1.59 ppm Au / 0.78 m hosted by a well sheared, strongly biotite altered mafic metavolcanic rock with 10-15% ferruginous chert and 3-5% very fine-grained disseminated pyrite (Table 4). This interval was within a 3.4 m unit composed of a very complex mixture of highly contorted, medium grey, ferruginous chert and mafic metavolcanic rock with varying proportions of the two rock types resembling the units between 6.23 and 33.0 m. Correlation of this 3.4 m wide unit at a vertical depth of about 60 m with the 959 showing would represent a dip of approximately 84^{o} south, agreeing reasonably well with the shearing observed in the core and the dips observed in the 959 showing. A well sheared, mafic metavolcanic rock with a strong biotite-calcite alteration, with 3-5% very fine-grained pyrrhotite and pyrite intersected between 122.0 and 122.14 m returned 0.995 ppm Au / 0.36 m. This interval could correlate with the 959 showing but would require a northerly dip of 77^{o} which does not correlate well with either the orientation of the structures in the core or the dips observed in the showing. However, the lack of oriented core, the difference in character of the gold mineralization in the core compared to the showing means either of these intervals could correlate with the showing, or that the mineralization in the showing was not intersected by the drill hole.

5.2. TL09-002 AND THE 914 SHOWING

This hole was drilled to test the down dip potential of the vein in the 914 Showing, located approximately 75 m northeast of the collar, which returned 2.66 g Au/t and 10.6 g/t Ag from grab sample (Table 3; Fig. 4). This showing consists of a white to light grey quartz vein that pinches and swells along the exposed

length, with a maximum width of 5 cm possible a result of isoclinal folding, and containing 1-2% fine to very fine-grained pyrite and chalcopyrite. The vein is hosted by a 0.5 to 1.0 cm biotite-chlorite-carbonate shear trending 107^{o} dipping 85^{o} south that is hosted by pillowed to massive mafic metavolcanic rocks. Although the vein appears to have a steep dip to the south, small variations in the shear result in rotation of the dip from south to north, such that the target zone in the hole was estimated to be between 100 and 125 m.

This drill hole intersected massive mafic to intermediate metavolcanic flows with pillowed flowtops intruded by occasional diorite dykes up to a few metres in thickness (Appendix A). The massive flows are aphanitic to feldspar porphyritic with short pillowed intervals probably representing the top of individual flows. Pillowed intervals have interpillow hyaloclastite and irregular pods and veinlets of quartz-calcite and trace to 2% fine-grained pyrrhotite and pyrite. The diorite dykes are either feldspar porphyritic, fp, or biotite-rich, bt, diorite type as described for hole TL09-001. Four interflow ferruginous chert units, less than 10 cm thick, were intersected below 140 m in the hole. Several short, generally less than 1 m, intervals of breccia consisting of metavolcanic fragments with a carbonate-quartz matrix occur down the hole with one 5.0 m interval starting at 52.47 m. Epidote+/-chlorite alteration with weak to strong bleaching occurs over intervals generally less than 1 metre in width. Shearing occurs in scattered intervals of generally less than 0.5 m in width, except for one 3 m interval shear between 113.37 – 116.64 m, with moderate to strong biotite+/-chlorite alteration. Two intervals of broken core located at 33.8 and 117.9 m are less than 0.2 m wide and may represent brittle fault structures.

The best sample interval returned 1.54 g Au/t, 5.8 g Au/t, and 4850 ppm Cu over 0.48 m hosted by a sheared, highly fractured, moderately biotite altered, mafic metavolcanic with light grey quartz veinlets, and up to 40% fine-grained stringer pyrrhotite-chalcopyrite and pyrite over 6 cm at 128.17 to 128.33 m (Table 4; Appendix B). This interval would project close to vertically to correlate with the approximate position of the 914 showing.

5.3. TL09-003 AND THE HEAD OF A GOLD-IN-TILL DISPERSAL TRAIN

This hole was drilled to test the up-ice potential of a gold-in-till dispersal train interpreted from a series of overburden samples that returned anomalous gold in till grain values and high pristine shaped gold grain contents (Table 3; Fig. 4). The source for the gold grains was assumed to have a strike and dip similar to the veins hosting mineralization in the gold showings, or approximately 120^{o} and dipping vertically to steeply south.

This drill hole collared in a quartz diorite and then intersected a sequence of mafic metavolcanic rocks

intruded by gabbro and diorite dykes (Appendix A). The quartz diorite is a medium-grained, weakly to moderately foliated unit composed of feldspar, quartz and biotite, and could be classified as a granodiorite and resembles the outcrop located to the south east of the collar of this hole. The mafic metavolcanic rocks are fine-grained to aphanitic, well foliated to sheared with moderate epidote and biotite alteration. The gabbro in the upper portion of the hole is fine-grained and weakly foliated and could represent a massive flow rather than an intrusive unit. The 55 m of gabbro in the lower portion of the drill hole is a fine to medium-grained massive unit with irregularly distributed intervals of 3-5% medium-grained magnetite, and these magnetite intervals probably account for the magnetic anomaly in the airborne magnetic survey located north of the drill collar. Biotite altered shears and quartz / quartz-carbonate veins and veinlets containing trace to a few percent sulphides were intersected in the mafic metavolcanic rocks and the gabbro dykes. There were no samples in this drill hole that returned >0.5 g Au/t. Brittle structures were intersected between 29.48 and 32.45 m with fault gouge present in the lower portion of this interval.

5.4. TL09-004 AND THE 955 SHOWING

This hole was drilled to test the down dip potential of the 955 Showing, located about 55 m northeast of the collar, which returned 4.15 g Au/t and 1.77 g/t Ag from a grab sample (Table 3; Fig. 4). The showing is composed of a series of anastomosing light grey to white stringers and veinlets, that may converge in some intervals to form a laminated vein up to 19 cm in width, with a strike of 117^{o} dipping 70^{o} and a plunge of 43^{o} southeast to 307^{o} dipping 85^{o}. The veinlets are hosted by a 29-78 cm wide variably biotite-chlorite-carbonate altered shear within a medium-grained gabbro. Diorite dykes intrude the gabbro to either side of the shear, although are not bounding the shear. The target zone in the hole was estimated to be between 80 and 90 m.

This drill hole intersected massive mafic to intermediate metavolcanic flows with occasional interflow chert and ferruginous chert beds intruded by gabbro sills and diorite dykes (Appendix A). The chert and ferruginous chert occurs as interflow units generally a few centimetres in width, with wider 1.7 and 0.5 m units intersected at 82.1 and 93.8 m respectively. The gabbro is medium- to coarse-grained with weak to moderate chlorite+/- biotite alteration, and is the dominate unit in the upper 110 m of the drill hole. The diorite dykes consist of both the biotite-rich (bt) and feldspar porphyritic (fp) diorites as described in drill hole TL09-001. The dykes are generally less than 3 m in width, and intrude both the gabbro and mafic metavolcanic rocks. Occasional quartz and quartz-carbonate veinlets and stringers, with trace to 2% fine-grained pyrrhotite and pyrite, up to a few centimetres in width occur in both the mafic metavolcanic rocks and gabbro. Chlorite+/-carbonate+/-biotite shears commonly less than 5 cm, but occasionally up to 20 cm, occur throughout the hole and may contain up to 5% fine-grained pyrite and pyrrhotite. Fracturing and

broken core, possibly representing fault structures, was intersected at three intervals, 89.43-89.5, 94.67-95.55, and 109.14-111.42 m. Chloritic gouge is present in the interval between 89.43 and 89.5 m. Between 109.14 and 111.42 m the core is very broken and 20-30 cm may have been lost.

Gold mineralization is most commonly hosted by, but is not restricted to, a gabbro host lithology in this drill hole (Table 4; Appendix B). The interval between 16.89-17.94 m consists of quartz veining with fragments/septa of aphanitic mafic material containing 3-5% fine-grained pyrite, and is located along the contact between a gabbro and mafic metavolcanic. The lower 0.43 m of this interval returned 1.01 g Au/t. An fp diorite containing 1-2% fine-grained disseminated pyrite returned 1.18 g Au/t over 0.89 m and this interval could correlate with the 959 Showing along a dip of about 80^{o} south. However, the gold mineralization in the showing is hosted by sheared gabbro and not the diorite dykes. A carbonate veinlet containing 1-2% fine-grained disseminated pyrite along a chlorite fracture returned 0.68 g Au/t over 0.39 m between 96.45-96.84 m. This gabbro-hosted veinlet is located below a highly fractured interval that may represent a fault. Between 103.18 and 105.38 m, an interval with very strongly shearing, strong biotite-carbonate alteration, and 2-3% fine-grained disseminated pyrite mineralization within the same gabbro returned 3.31 g Au/t over 1.4 m and 1.74 g Au/t over 0.80 m for an average 2.74 g Au/t over 2.20 m (Table 4). This interval could correlate with the showing along an approximately 80^{o} north dip, but lacks the quartz veining present on surface. Another moderately well sheared, moderately biotite altered gabbro, between 108.58 and 109.14 m, containing carbonate stringers and trace to 1% fine-grained disseminated pyrite returned 0.61 g Au/t over 0.56 m. An fp diorite dyke containing 2-3% fine-grained disseminated pyrite located along the contact between a gabbro and mafic metavolcanic rock returned 0.56 g Au/t over 0.92 m. Two intervals with anomalous gold mineralization hosted by mafic metavolcanic rocks were intersected in the lower portion of the drill hole. A strongly silicified, biotite and carbonate altered sheared unit, possible very sheared fp diorite, containing 3-5% fine-grained disseminated pyrite returned 0.93 g Au/t over 0.63 m. A strongly biotite-carbonate- silica altered shear containing 3-5% fine-grained stringer pyrrhotite returned 2.44 g Au/t over 0.34 m within 4 m of the end of the hole.

5.5. TL09-005 AND THE 972 SHOWING

This hole was drilled to test the down dip potential of the 972 Showing which returned 1.23 g Au/t and 12.3 g/t Te from a grab sample (Table 3; Fig. 4). Located along the south shore of Drain Lake, the showing contains a white to light grey, quartz vein to laminated series of veinlets, pinching and swelling up to 7 cm in width bifurcating along strike to the east. The vein trends 115^{o} dipping 80^{o} south, and is hosted by a 0.5 to 1.0 cm biotite-chlorite-carbonate shear in pillowed mafic metavolcanic rocks. Dips along the strike of the vein appear to vary from steeply south to steeply north, with isoclinal folding in one location with a shallow northwest plunging fold axis. The target zone in the hole was estimated to be

between 90 and 100 m.

The drill hole intersected massive to pillowed mafic to intermediate metavolcanic flows with occasional interflow chert to ferruginous chert beds intruded by diorite dykes (Appendix A). The metavolcanic rocks are usually fine-grained to aphanitic with rare intervals containing medium to coarse-grained subhedral feldspar phenocrysts. The pillows appear to represent flowtops to the massive flow units. Chert occurs as interflow to interpillow spaces with thicker, 5 and 20 cm wide, massive to laminated intervals between prominent in the upper 50 m of the hole. The diorite dykes are predominately the biotite-rich (bt) diorite dykes, as described for TL09-001, and are generally less than 1 metres in thickness. Occasional quartz and quartz-carbonate veinlets, up to a few centimetres in width, containing trace to 2% fine-grained pyrrhotite and pyrite occur as interpillow and fracture fillings. Occasionally shears up to a few tens of centimetres in width were intersected throughout the hole, and generally have associated silicification or chlorite-biotite+/-carbonate alteration and trace to 3% fine-grained disseminated pyrrhotite and pyrite. A number of structures were intersected suggesting the presence of more than one fault or a fault zone in the lower portion of the hole. Two carbonate chlorite fractures at about 105 m appear to be open space fillings and a muddy chlorite fracture is present at 108.45 m. These structures would project vertically to the approximate position of the showing. A series of structures at 123.47, 131.27, 141.0, and 151.26 m would project vertically to surface in the area of Drain Lake, suggesting that the lake aligns along a fault zone.

A well foliated bt diorite dyke with rare banding and a 16 cm interval of quartz and carbonate stringers containing 3 to 5% fine-grained disseminated pyrrhotite and pyrite along the base returned 1.42 g Au/t over 0.88 m (Table 4; Appendix B). It is probable that the gold mineralization is related to the quartz and carbonate stringers and sulphide mineralization in the lower 16 cm of the sample interval. Correlation of this interval with the quartz veining in the trench would require a dip of 70^{o} south, which is shallower those observed in the showing. However, there are a number of alternate explanations to account for the apparent shallow dip including offset by faulting, bifurcation of the vein down dip, or this interval could represent a different vein.

5.6. TL09-006 AND THE 161 SHOWING

This hole was drilled to test the down dip potential of a vein located approximately 77 m southwest of the collar which returned 0.26 g Au/t and 75.4 ppm Mo from a grab sample and an overburden sample that returned a gold-in-till anomaly with 161 pristine grains out of a total of 184 grains (Table 3; Fig. 4). The quartz vein consists of a series of anastomosing light grey to white stringers and veinlets that coalesce to form a laminated vein up to 7 cm in width with a strike of about 310^{o} dipping 80^{o}. The vein is hosted by a

fine-grained well sheared mafic unit lacking any magmatic or volcanic features. The target zone in the hole was estimated to be between 115 and 125 m.

The hole intersected massive to weakly foliated, fine to medium-grained, medium grey to black, diorite composed of hornblende and feldspar in biotite-rich groundmass with occasional intervals containing white, anhedral feldspar phenocrysts (Appendix A). The diorite is moderately magnetic and cut by fractures with dark green black chlorite alteration. Portions of this unit could be classified as a gabbro but overall the unit lacks the medium-grained hornblende of the gabbros intersected in drill holes TL09-003 and -005 and is interpreted to be a thicker example of the bt diorite dykes intersected in the other drill holes possibly related to the younger Ellard Lake intrusion to the west. Two breccia intervals were intersected with the lower breccia located between a diorite and a mafic metavolcanic rock. The breccias were classified as contact zones and are composed of numerous sub-rounded chloritic mafic fragments, displaying varying degrees of assimilation, in a matrix of moderate to strong chlorite-biotite altered diorite. These zones are similar to the lithologies observed in outcrop in a diorite dyke located about 10 m north of the 959 showing and along the south shore of Pucker Lake, and are interpreted to represent an intrusive breccia. A mafic metavolcanic rock consisting of a fine-grained to aphanitic, medium to dark green to grey green, variably talceous and chlorite altered units and cut by narrow irregular dykelets of diorite at a low core angle resulting in a brecciated appearance, was intersected between 137.34 and 149.94 m. An fp diorite was intersected in the lower portion of the hole, but it is not clear from the contact relationships whether this diorite is a separate unit or a phase of the adjacent diorite. The diorite is cut by occasional quartz or quartz-carbonate stringers and veinlets containing trace to 2% fine-grained pyrite. Both the diorite and contact zones contain occasional shears up to a few tens of centimetres wide with chlorite-biotite alteration. Between 62.62 and 66.0 m, the diorite is highly fractured with clay to mud fault gouge with a high carbonate content.

Gold mineralization was hosted by two different units, the upper contact zone and the fp diorite (Table 4). An intensely biotite altered shear containing 3-5% fine-grained pyrite crossing the upper contact zone breccia returned 1.60 g Au /t over 0.43 m. Five metres below the shear, a series of irregular quartz-carbonate veinlets containing 1-2% fine-grained disseminated pyrite with intensely altered chloritic margins are hosted by fractures that vary from near perpendicular to subparallel to the core axis, and returned 2.26 g Au/t over 0.46 m and averaged to 0.94 g Au/t over 1.58 m. This interval could correlate with the surface showing along a dip of ~65^{o} north, but this dip is much shallower than the structures observed on surface. Three samples between 107.63 and 112.50 m returned 0.40, 0.45 and 0.25 g Au /t associated with light grey quartz veinlets containing 3-5% fine-grained pyrite bounded by a moderately foliated diorite with trace to 1% pyrite. These intervals more closely resemble the character of the showing and would correlate along a steeper dip than the interval above. About 65 m further down the hole, a sample interval containing a 2 cm white quartz veinlet with 3-5% disseminated pyrite hosted by fp diorite

wallrock and an 18 cm wide strongly biotite altered shear containing 5-10% fine-grained disseminated pyrite returned 1.03 g Au/t over 0.60 m. Approximately 4 m below this interval, a moderately well sheared fp diorite, with moderate to strong biotite-chlorite alteration and irregular quartz stringers returned 1.28 g Au/t over 0.65 m.

6. TRENCH SAMPLING AND MAPPING

The bedrock sampling conducted during the July 2009 mapping program identified 4 gold showings in the northern portion of the property (Fig. 3). The showings are located along a west to northwest-trend that is subparallel to the regional foliation with 3 showings hosted by mafic metavolcanic rocks and the fourth hosted by a gabbro. All 4 showings are associated with quartz veining consisting of 0.5 to 30 cm, laminated quartz-carbonate veins that bifurcate along strike hosted by chlorite-biotite shears. A 2009 overburden sample returned a gold-in-till anomaly with 161 pristine grains out of a total of 184 grains located about 25 m from an outcrop that returned 0.26 g Au/t and 75.4 ppm Mo from a grab sample (Fig. 3).

During the 2009 drill program, the outcrop hosting gold showings were stripped sufficiently clean to allow for channel sampling and mapping (Appendix C). Channel sampling was completed across the 914, 955, 959, 972 showings and the 161 vein. The samples were submitted to ALS Chemex for gold assay and trace element geochemistry for comparison with the drill core analyses and to provide a background for the interpretation of the till geochemistry (Table D1; Appendix D).

Eight grab samples were also collected during the 2009 drill program to further investigate the outcrops in the area of drill hole TL09-003 and prospecting on the area northeast of drill hole TL09-001. The location of these samples is shown in Fig. D1 (Appendix D) and the results of the gold asay and geochemical analyses is contained in Table D2 (Appendix D).

6.1. 914 SHOWING

Gold mineralization is associated with a white to light grey quartz vein that pinches and swells along strike up to 5 cm in width, possible due to isoclinal folding, and contains 1-2% fine to very fine-grained pyrite and chalcopyrite. The vein is hosted by a 0.5 to 1.0 cm biotite-chlorite-carbonate shear trending 107^{o} dipping 85^{o} south that is hosted by pillowed to massive mafic metavolcanic rocks. Although the vein appears to have a steep dip to the south, folding and small variations in structure along strike result in variation in dips from south to north. The vein trends beneath a small lake and has not been located on

the far shore approximately 75 m to the west. A second exposure, about 25 m to the east, was stripped and sampled. The vein could not be located further to the east but outcrop density is low.

Two channel samples were cut perpendicular to the strike of the vein, one in the original exposure and other in the eastern extension (Fig. C1 – Appendix C). Each channel consisted of three samples, the vein and bounding shear, and the mafic metavolcanic wallrock. The gold assay results are presented in Table 5 and Appendix D.

Table 5: Channel Sample Gold Assay Results with Select Trace Elements

Sample	Rock type	Width	Au g/t	Au re-assay	Au average	width	Ag ppm	Cu ppm	Mo ppm	Te ppm	W ppm
914 Showing											
H753231	mafic metavolcanic	0.30	0.08				0.16	98.5	9.02	0.37	1.5
H753232	quartz vein	0.31	1.12				2.26	553.0	0.78	2.14	6.1
H753233	mafic metavolcanic	0.36	0.02				0.11	60.1	1.15	0.09	0.8
H753234	mafic metavolcanic	0.36	0.02				0.11	77.2	0.35	0.06	0.7
H753235	quartz vein	0.48	0.16				0.21	109.5	0.36	0.66	7.5
H753236	mafic metavolcanic	0.30	0.01				0.1	106.0	0.26	<0.05	0.5
955 Showing											
H753218	gabbro	0.48	0.84				0.07	6.5	0.18	0.32	13.6
H753219	quartz vein	0.29	7.25		1.88	1.34	3.42	6.7	0.17	13.2	16.6
H753220	gabbro	0.57	0.034				0.1	30.8	0.59	0.6	21.6
H753221	gabbro	0.39	3.72				0.46	17.0	0.45	0.58	159.0
H753222	siliceous dyke	0.39	2.17		2.95	0.78	1.53	1.6	0.22	3.23	2.1
H753223	siliceous dyke	0.37	0.78		1.87	1.62	0.54	2.0	0.62	1.36	2.8
H753224	gabbro	0.47	0.95		0.87	0.84	0.5	10.0	0.2	2.34	60.6
H753225	gabbro and diorite	0.30	0.64				0.27	52.7	0.51	0.77	67.0
H753226	sheared gabbro with veinlets	0.35	0.47		1.00	0.97	0.16	14.3	0.38	0.81	21.3
H753227	sheared gabbro with veinlets	0.32	1.92				0.3	2.9	0.17	6.19	54.5
H753228	Gabbro	0.35	0.18				0.08	17.8	0.2	0.52	10.1
H753229	siliceous dyke	grab	>10.0	14.2			6.77	20.6	4.05	18.1	21.9
H753230	siliceous dyke	grab	>10.0	26.4			6.29	5.4	1.42	21	54.7
959 Showing											
H474993	mafic metavolcanic	0.30	0.03				0.1	97.8	0.34	0.07	0.7
H474994	quartz vein	0.30	>10.0	43.2	14.42	0.90	0.81	61.9	2.44	0.42	1.1
H474995	mafic metavolcanic	0.30	0.05				0.08	71.3	0.42	0.11	1.2
H474996	quartz vein/shear	0.42	1.20				0.15	91.8	0.71	0.8	6.9
H474997	mafic metavolcanic	0.28	0.01				0.06	73.3	0.38	0.14	46.8

Sample	Rock type	Width	Au g/t	Au re-assay	Au average	width	Ag ppm	Cu ppm	Mo ppm	Te ppm	W ppm
H474998	shear	0.30	0.48				0.16	213	0.34	0.77	66.3
H474999	mafic metavolcanic	0.28	0.28		0.38	0.58	0.13	139.5	0.49	0.36	35.6
H475000	shear	0.60	0.71				0.18	177.0	2.89	0.36	4.4
H753214	mafic metavolcanic	0.34	0.90		0.78	0.94	0.11	71.2	0.29	0.67	1.8
H753215	mafic metavolcanic	0.80	0.01				0.09	106.5	0.35	0.10	3.8
H753216	mafic metavolcanic	0.35	0.01				0.08	104.5	0.26	0.08	0.7
H753217	quartz vein	0.39	2.98				0.58	67.2	2.94	1.41	8.1
972 Showing											
H474982	quartz vein	0.25	0.07				0.28	49.2	0.36	0.36	5.2
H474983	quartz vein	0.20	0.08				0.15	17.3	0.83	0.33	7.3
H474984	mafic metavolcanic	0.40	<0.005				0.06	16.5	0.28	0.05	1.1
H474985	mafic metavolcanic	0.51	0.4				0.64	163.5	1.37	0.86	5.7
H494986	quartz vein	0.38	0.10				0.29	123	0.55	0.21	5.0
H494987	quartz vein/shear	0.35	0.13				0.29	69.5	1.66	0.50	10.7
H494988	mafic metavolcanic	0.30	0.09				0.26	62.3	1.55	0.43	12.8
H494989	mafic metavolcanic	0.26	0.03				0.19	90.7	0.38	0.06	0.7
H474990	mafic metavolcanic	0.29	0.13				0.19	58.0	0.12	0.30	29.7
H474991	quartz vein	0.33	0.24				0.23	72.8	15.2	2.53	23.7
H474992	mafic metavolcanic	0.27	0.02				0.16	59.6	0.34	0.33	1
161 Vein											
H753237	mafic	0.42	0.04				0.03	15.1	2.14	0.09	8.1
H753238	quartz vein	0.60	0.52				0.15	40.3	408.00	0.76	75.6
H753239	mafic	0.37	0.04				0.04	48.1	4.17	<0.05	14.7

6.2. 955 SHOWING

The 955 Showing consists of a series of anastomosing light grey to white quartz stringers and veinlets that occasionally coalesce to form laminated veins up to 19 cm in width (Fig. C2 and 5a). The veins are hosted by a 29-78 cm wide shear within a medium-grained gabbro that strikes either 117^{o} dipping 70^{o}, with a plunge of 43^{o} southeast as measured in one location, or 307^{o} dipping 85^{o}. The shear is variably biotite-chlorite-carbonate altered with trace to 2% fine-grained disseminated pyrite and pyrrhotite. The gabbro adjacent to the shear/vein is weakly to moderately chlorite and carbonate altered with 1 to 5% fine-grained disseminated pyrite and pyrrhotite. Diorite dykes intrude the gabbro to either side of the shear. The shear/vein system is open in both directions as outcrop is scarce, especially to the west.

Approximately 4 m to the north of the vein/shear, a 70 cm wide highly siliceous dyke intrudes the gabbro with a strike of 285^{o}, dipping 79^{o}. The dyke is fine to very fine-grained, light to medium grey, with a

disseminated white fine to medium-grained mineral that may be relict feldspar, and trace to 3% fine-grained disseminated pyrite. Contacts are sheared with up to 2 cm chlorite fragments, or light grey green fragments in a highly siliceous matrix suggesting intense silicification of the dyke and adjacent wallrock. The contacts also contain 5-10% fine to medium-grained disseminated pyrite. Two pits were dug to the west of the showing outcrop, trace the north contact of the dyke for approximately 6 m along strike exposing contacts resembling those observed in outcrop (Fig.14). About 4 m to the east of the channel, the dyke appears to pinch to a width of less than 5 cm possibly explaining the lack of the dyke in the drill hole undercut the east side of the outcrop.

Three channels were cut to perpendicular to strike with two across the main vein/shear and one channel across the silicified dyke (Fig. C2 – Appendix C). The vein/shear channels are approximately 6 m apart, with the eastern channel consisting of three samples, the vein and bounding shear, and the gabbro wallrock. The western channel was composed of 4 samples, with the centre two containing separate branches of the brifricated quartz veinlet. A channel consisting of 4 samples was cut across silicified dyke, with 2 samples in the dyke and the bounding samples consisting of the gabbro wallrock. The gabbro sample on the south side of the silicified dyke contained 5 and a 3 cm chlorite-biotite shears trending 315^{o} and 295^{o} respectively. Grab samples were collected from the pits dug to the west of the outcrop along the north contact of the dyke. The gold assay results are presented in Table 5 and Appendix D. The two grab samples have higher Mo and Ag values than the channel samples which could indicate a change in the mineralization to the west or may reflect the sampling technique.

6.3. 959 SHOWING

The 959 Showing is composed of a laminated, light grey to white quartz vein up to 17 cm wide hosted by a biotite-chlorite-carbonate shear in pillowed to massive mafic metavolcanic rocks (Fig. C3 and 5b). The shear may be up to 35 cm wide and is generally more than twice the width of the vein. Both the vein and shear contain trace to 2% fine-grained disseminated pyrite. The vein and shear strike approximately 110^{o}, dipping 80^{o}, and both appear to plunge steeply to the east. Traced discontinuously for over 60 m, the vein/shear system is open in both directions.

Four channels were cut to perpendicular to strike to sample the vein/shear along the exposed strike length (Fig. C3 – Appendix C). The western channel, cut at 4.5 m east, consisted of 3 samples with the centre sample across the vein and bounding shear. A single sample channel, 42 cm long, was cut at 14 m east across the shear and vein. At 46 m east, a channel consisting of 4 samples was cut across the main vein and a separate 3 sample channel was cut across a shear subparallel located south of the main vein. A single sample channel, 39 cm long, was cut across the vein and shear at 51 m east. The gold

assay results are presented in Table 5 and Appendix D. The shear intersected in the top of drill hole TL09-001 was not recognized in the field and is partially covered by lower area located between the drill collar and the vein/shear.

6.4. 972 SHOWING

White to light grey quartz forms a vein or laminated series of veinlets containing trace to 2% fine-grained pyrite along the south shore of Drain Lake. The quartz pinches and swells to widths of up to 7 cm, along a trend of 115^{o} or 280^{o}, dipping 80^{o}, with a 22^{o} NW plunge along a single isoclinal fold axis. A 0.5 to 1.0 cm biotite-chlorite-carbonate shear with trace disseminated very fine-grained pyrite in pillowed mafic metavolcanic rocks hosts the quartz. Occasional intervals of metavolcanic rocks up to 20 cm wide are sheared, highly chloritized, moderately carbonatized and contain up to 10% disseminated medium to fine-grained pyrite. The vein is open is both directions, with the southwest continuation of the vein extending into the long axis of Drain Lake.

Four channels were cut to perpendicular to strike to sample the vein/shear along the exposed strike length (Fig. C5 – Appendix C). The western channel consisted of 4 samples centered on the vein. The other three channels are located about 25 m to the southwest on the shore of Drain Lake. Two sample channels were cut on the west and central portions of the outcrop across quartz vein shear systems appearing to follow pillow margins. The third channel, consisting of 3 samples, crossed a series of quartz veins and highly chloritized shear with 10% pyrite. The gold assay results are presented in Table 5 and Appendix D. None of the samples returned gold values comparable to those in the initial grab samples.

6.5. 161 VEIN

A series of anastomosing light grey to white quartz stringers and veinlets that may form a laminated vein up to 7 cm in width are hosted by a fine-grained, well sheared mafic unit lacking any magmatic or volcanic features. The vein contains trace fine-grained disseminated pyrite. The vein/shear system strikes of about 310^{o}, dipping 80^{o}, and is open in both directions. A 2009 overburden sample located about 25 m northwest of the outcrop returned a gold in till anomaly with 161 pristine gold grain out of a total of 184 gold grains.

A single 4 sample channel was cut to perpendicular to strike with the centre sample containing the quartz veining. The gold assay results are presented in Table 5 and Appendix D.

7. SAMPLE METHOD AND APPROACH

7.1. BEDROCK CHANNEL SAMPLING

Five areas, the 914, 955, 959, 972, and 161 showings, were stripped of overburden or organic debris to expose the bedrock surface. The bedrock was mapped to identify the controls on mineralization, including structures and lithologies, and alteration. Channel samples were laid out perpendicular to structures hosting mineralization with each channel composed of multiple samples consisting of the mineralized structure bracketed by samples of the adjacent wallrock (Appendix C). The minimum sample length was 0.30 m and the maximum was 1.5 m but the length of each sample was controlled by a combination of the lithology, structure, alteration and mineralization. The individual channels were spaced along the strike length of the vein/shear to test the continuity of the mineralization. Individual channel samples, without adjacent wall rock, were also collected to test mineralization or features of interest that were separate from the main trend or separated from the other samples by irregularities in the bedrock exposure.

The channel samples were cut using a gas-powered Stihl Cutquiks with a diamond blade. The channels consisted of two cuts parallel about 2 cm apart and 1-2 cm deep with sample lengths as indicated in the figures in Appendix C and table contained in Appendix D. Occasionally, samples could not be cut to the appropriate depth due to the topography of the bedrock surface and the resulting samples were lighter in weight than planned. Although the cutting depth varied between channels, the depth within a single channel was generally consistent in both the mineralized and unmineralized material.

7.2. CORE LOGGING AND SAMPLING

During the 2009 drill program, all core logging and sampling was done in a tent on the site of the Echoing Lake Lodge. Access to the site was restricted to personal employed by Northern Superior Resources, the diamond drill contractor.

The drill core was descriptively logged on an Excel spreadsheet, and photographed while laid out for the geotechnical logging. The descriptive logs recorded the different lithologies; alteration types and relationships; mineralization types and relationships, position and orientations of veins, fractures and other structures. Sample numbers and intervals were also recorded on the Excel spreadsheet.

The sampling protocol was that the sample widths would be appropriate for the width of the mineralogy, lithology, vein, structure, and / or alteration zone within the limits of a maximum sample length of 1.5 m and a minimum sample length of 0.3 m. Samples would not cross lithologic contacts, changes in structural style, veins/vein sets, or strong alteration zones unless the lithology, structure, vein or alteration is less than 0.3 m in width, and then only to meet the 0.3 m minimum. An example would be a vein less than 0.3 m wide can be combined with adjacent veins of similar composition, or combined with associated wallrock alteration, to obtain the minimum sample width. Changes in structural style are changes in structural fabric of a lithology and include shears, fault zones, changes from massive to well foliated fabrics. Alteration may have indistinct boundaries and alteration zones may include unaltered intervals if the contacts are indistinct or very gradual. All tag books have been archived.

Each interval was recorded in an assay tag book, and a removable portion of that sample's tag was placed into a sample bag inscribed with that number. Sample intervals were marked on the core with a china marker. Intervals of interest, based on the presence of sulphide mineralization, veining, and/or alteration, were sawn in half using a Husqarva diamond core saw. Less than 30% of the core was sawn, with the majority of core split with a mechanical core splitter. Half the core was placed into a plastic bag labelled with the sample number, along with the sample tag. The remaining core remained in the core box, and is stored on site at the Echoing Lake Lodge.

8. SAMPLE PREPARATION ANALYSES AND SECURITY

All geochemical analytical work on core and rock samples was completed by ALS-Chemex with sample preparation completed in Thunder Bay, Ontario and analyses completed in North Vancouver, B.C. The quality system used by ALS-Chemex complies with international standards ISO 9001:2000 and ISO 17025:2005.

8.1. DRILL CORE ANALYSES

The drill core samples were transported were placed in 5 gallon plastic pails and sealed with lids containing security zip locks. The pails were individually labelled for shipping and stored in the core logging facility until shipped via Achigo Air to Sachigo Lake, Ontario, then by Wasaya Airways to Red Lake, Ontario and transported via Manitoulan Transport to ALS-Chemex in Thunder Bay, Ontario for sample preparation.

The samples were dried as required, and crushed to 70% less than 2 mm or better using a jaw and/or roller crusher. The crushed sample was split using a riffle splitter and an approximately 250 g split was pulverized to 85% less than 75 microns or better using a ring and puck grinding mill. The pulverized splits of the samples were transported by ALS-Chemex to their facility in North Vancouver for analyses.

The sample splits were analysed for gold using a fire assay – atomic absorption spectroscopy (AA) method, Au-AA23. A 30 g aliquot of pulverized sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents as required, inquarted with 6 mg of gold-free silver and then cupelled to yield a precious metal bead. The bead is digested in 0.5 mL dilute nitric acid in the microwave oven, 0.5 mL concentrated hydrochloric acid is then added and the bead is further digested in the microwave at a lower power setting. The digested solution is cooled, diluted to a total volume of 4 mL with de-mineralized water, and analyzed by atomic absorption spectroscopy against matrix-matched standards. The upper and lower limits for gold by this method are 10.0 and 0.005 ppm respectively.

The samples were also analysed for multiple elements using a 4 acid near total digestion method, ME-MS61. A 0.25 g aliquot of the sample is digested with perchloric, nitric, hydrofluoric and hydrochloric acids. Dilute hydrochloric acid is then added to the residue and analyzed by ICP-AES. Following this process, the results are reviewed for high concentrations of bismuth, mercury, molybdenum, silver and tungsten and diluted accordingly and are then analyzed by ICP-MS. Results are corrected for spectral inter-element interferences. A four acid digestion is able to dissolve most minerals; however, the term “near-total” is used as the sample matrix properties may dictate what elements are quantitatively extracted.

8.2. BEDROCK CHANNEL ANALYSES

The bedrock channel samples were transported from the field to a core logging facility at Echoing Lake Lodge. The samples were placed in 5 gallon plastic pails and sealed with lids containing security zip locks. The pails were individually labelled for shipping and stored in the core logging facility until shipped via Achigo Air to Sachigo Lake, Ontario, then by Wasaya Airways to Red Lake, Ontario and transported via Manitoulan Transport to ALS-Chemex in Thunder Bay, Ontario for sample preparation.

The samples were prepared as described previously (*see* 8.1. Drill Core Analyses), and analysed for gold used the fire assay method, Au-AA23 and multiple elements using a 4 acid - near total digestion method, ME-MS61 (*see* 8.1. Drill Core Analyses). Any samples that exceeded the upper limits of the AA finish method for the fire assay gold analyses were re-analysed using a gravimetric finish, Au-GRA21 method. A gravimetric finish involves the weighing of a bead that is produced by fire assay, the bead is then

placed in dilute nitric acid to dissolves the silver, leaving a bead of gold. The gold bead is weighed, and this weight is then used to determine the original grade of the sample. The upper and lower limits for gold detection by this method are 10,000 and 5 ppm respectively. The preceding descriptions were supplied by ALS-Chemex.

9. INTERPRETATION AND CONCLUSIONS

Gold mineralization was identified in the 5 holes undercutting bedrock gold mineralization. The gold mineralization in drill hole could usually be correlated with the gold showings and also identified addition mineralization not recognized on surface. Overburden sampling has also identified a number of gold-in-till dispersal trains that do not appear to be related to these gold showings (Sooley and Hart 2009).

More detailed geological information regarding the bedrock structures and lithologies in this area is also required to properly evaluate the potential controls on gold mineralization. This information could be acquired by a program including line cutting, ground magnetic and VLF-EM surveys, geological mapping and prospecting. This program would provide the information required to properly plan and execute future diamond drill program to test the source of the gold mineralization.

11. REFERENCES

Geological Survey of Canada, 2009. Geomagnetism: Magnetic declination calculator; http://geomag.nrcan.gc.ca/apps/mdcal-eng.php; accessed August 18, 2009.

Kaip, A. And Childe, F. 2002. AEM Gold Project, Northwestern Ontario & Northeastern Manitoba, Canada: 2002 Exploration Program Summary, prepared for Aurora Platinum Corp., December 16, 2002; 148 p plus maps and appendices; Ministry of Northern Development, Mines, and Forestry AFRI 53J08NW2001.

Northern Superior Resources, 2009. Northern Superior Resources Inc. Defines Additional Gold Exploration Targets, Thorne Lake Project, Northwestern Ontario; http://www.sedar.com/GetFile.do?lang=EN&docClass=8&issuerNo=00005106&fileName=/csfsprod/data101/filings/01489420/00000001/j%3A\SEDAR\Northern\102709pr-ThorneLake.pdf; Dated: October 27, 2009.

Sooley, M.J. and Hart, T.R. 2009. Thorne Lake Property 2009 Overburden Sampling, Bedrock Mapping, and Prospecting Program; Ellard Lake Area, Ontario: NTS 53J12; for Northern Superior Resources, September 8, 2009; Ministry of Northern Development, Mines, and Forestry work report # W0920.0293.

Stone, D. 2005. Geology of the Northern Superior Area: Ontario Geological Survey, Open File Report 6140, 94p.

Stone, D. 2005b. Rock samples and chemical analyses of rocks and minerals, northern Superior area, Ontario; Ontario Geological Survey, Miscellaneous Release-Data 135.

THORNE LAKE PROPERTY

PHANEROZOIC

CENOZOIC

QUATERNARY

RECENT

Lake, stream and swamp deposits

PLEISTOCENE

Glacial deposits; sand, gravel, clay and till

UNCONFORMITY

PRECAMBRIAN

PROTEROZOIC

MESOPROTEROZOIC

22) Diabase Dikes [a]

e gabbro / diabase

INTRUSIVE CONTACT

ARCHEAN

NEOARCHEAN

Intermediate to Felsic Intrusive Rocks

19) Hornblende Tonalite to Granite[b]

INTRUSIVE CONTACT

17) Biotite Granodiorite to Granite[b]

INTRUSIVE CONTACT

Sanukitoid Suite[b]

15) Intermediate to Felsic, quartz undersaturated to saturated intrusive rocks (diorite, monzodiorite, monzonite, to granodiorite)

INTRUSIVE CONTACT

Mafic Intrusive Rocks

14) Lamprophyre

u lamprophyre (biotite+/- muscovite)

INTRUSIVE CONTACT

8) Synvolcanic to Syntectonic Intermediate to Felsic Intrusive Rocks[c]

n granodiorite
o granite
o-n granite to granodiorite

INTRUSIVE CONTACT

7) Synvolcanic to Syntectonic Mafic to Ultramafic Intrusive Rocks

e gabbro
k diorite
w mafic dyke

INTRUSIVE CONTACT

6) Clastic Metasedimentary Rocks[d]

c siltstone

CONFORMABLE CONTACT

5) Chemical Sedimentary Rocks

p chert
r ferruginous chert

CONFORMABLE CONTACT

4) Felsic to Intermediate Metavolcanic Rocks

a massive flow
d tuff

f	lapilli-tuff
k	breccias debris flow
s	quartz-feldspar schist

CONFORMABLE CONTACT

2) Mafic to Intermediate Metavolcanic Rocks

a	massive flow[e]
b	pillowed flow
d	tuff
k	breccia debris flow

Footnotes

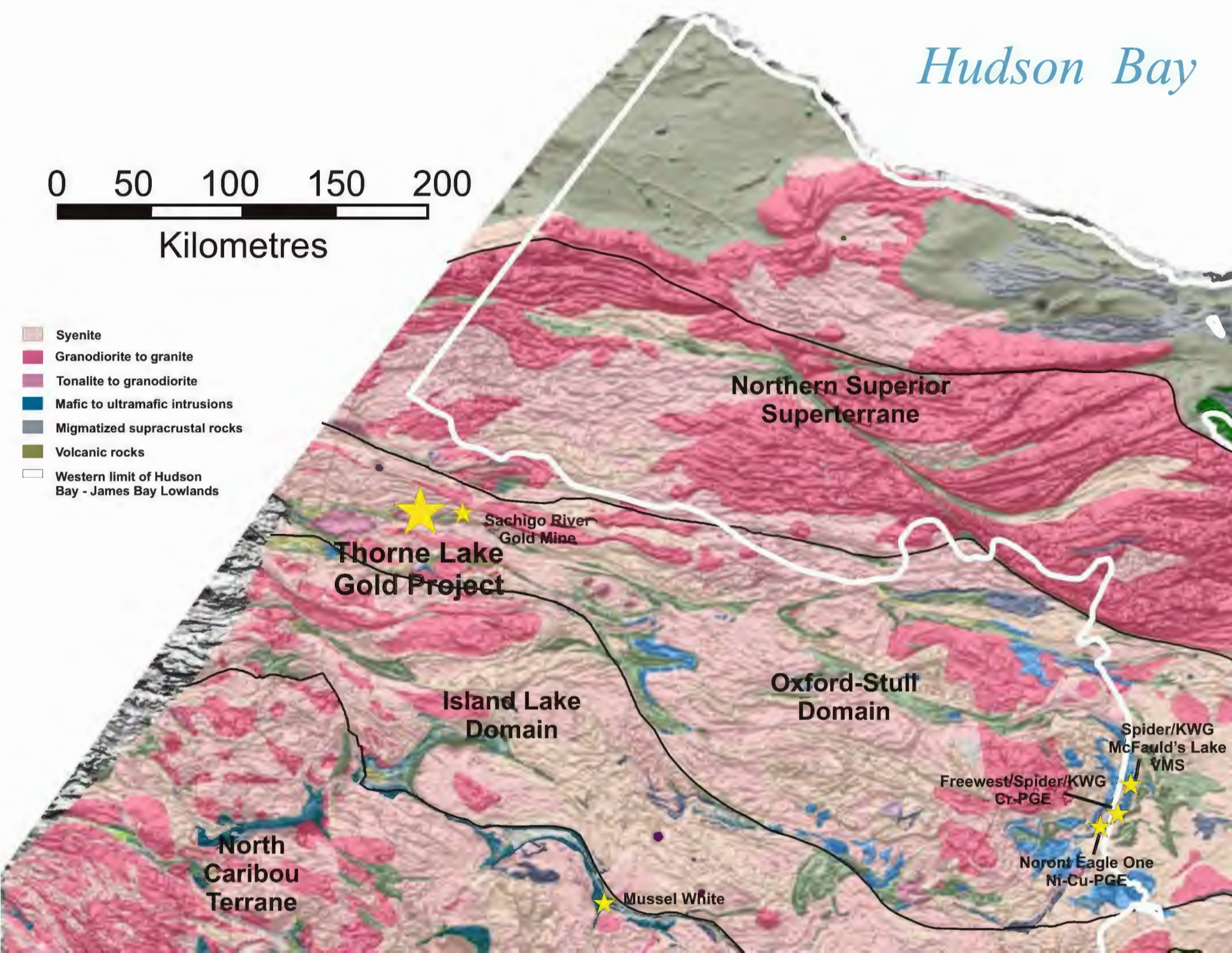
a interpreted locations from airborne magnetic data
b compiled from Stone (2005)
c less deformed than the metavolcanic rocks so probably not synvolcanic in origin
d thicker, well bedded clastic sedimentary rocks siltstone, and sandstone can be difficult to distinguish from well bedded intermediate to felsic volcaniclastic rocks
e maybe in part feldspar porphyritic

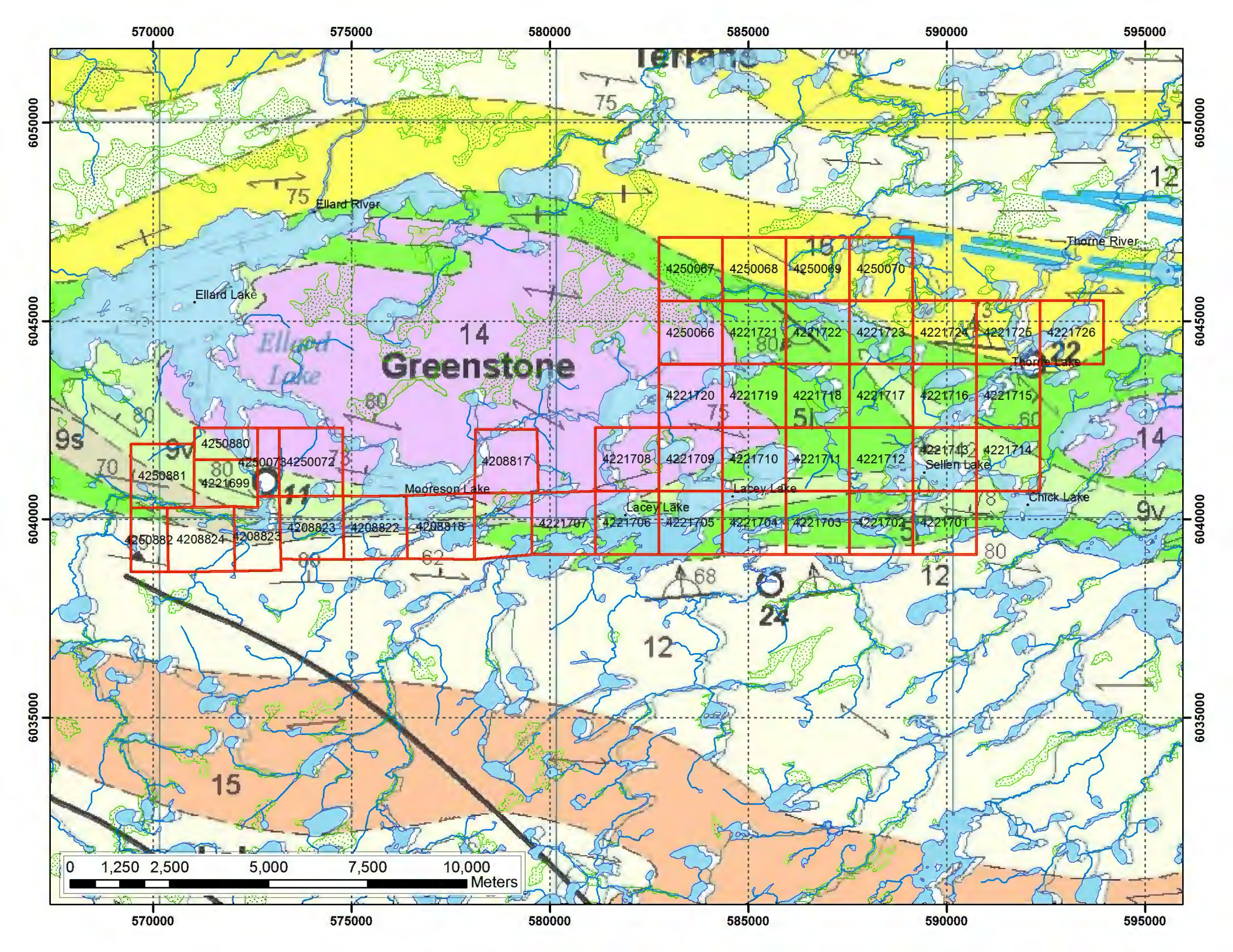
Mineralization Abbreviations

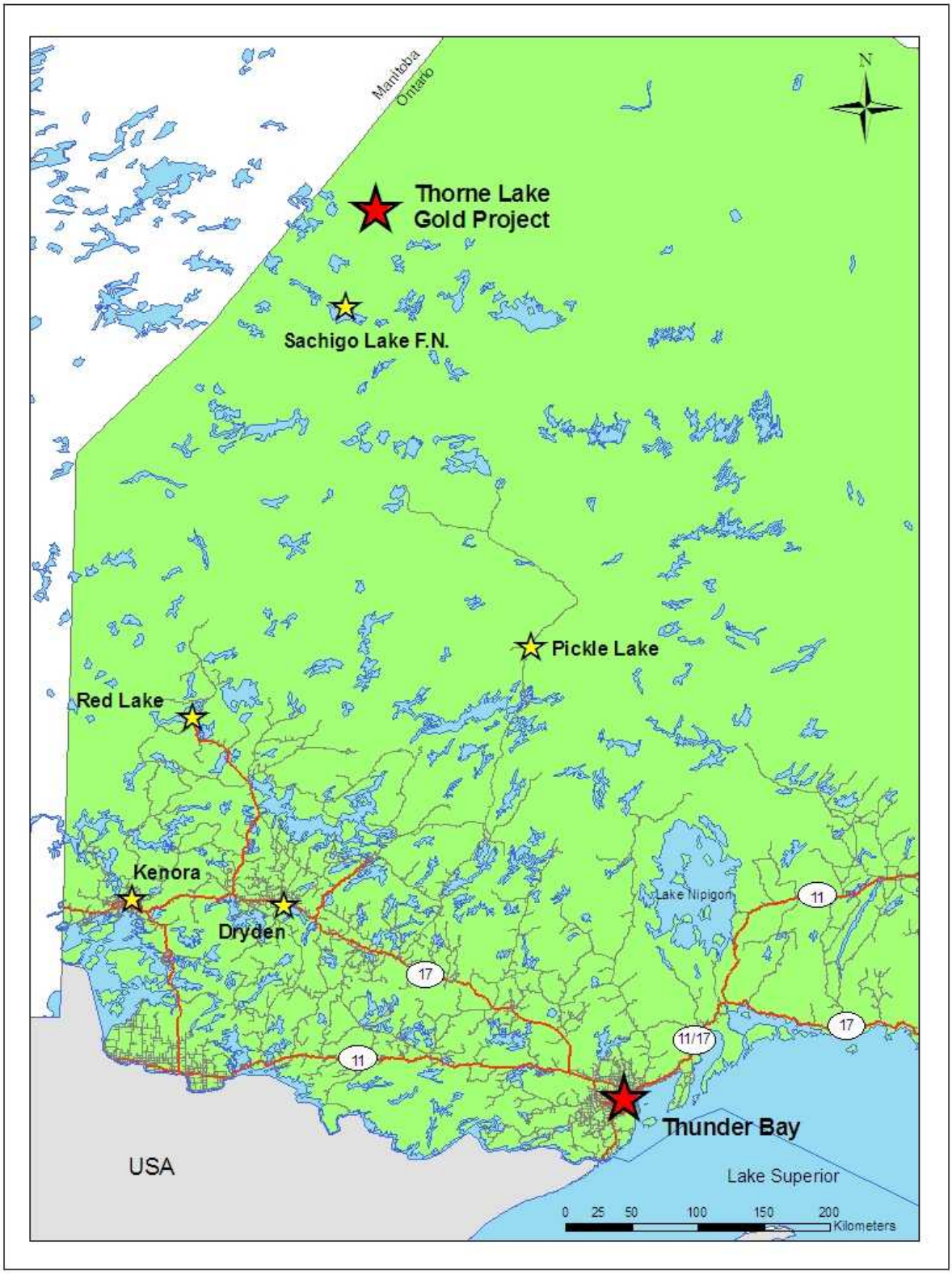
cp	chalcopyrite
mal	malachite
qv	quartz vein
po	pyrrhotite
py	pyrite

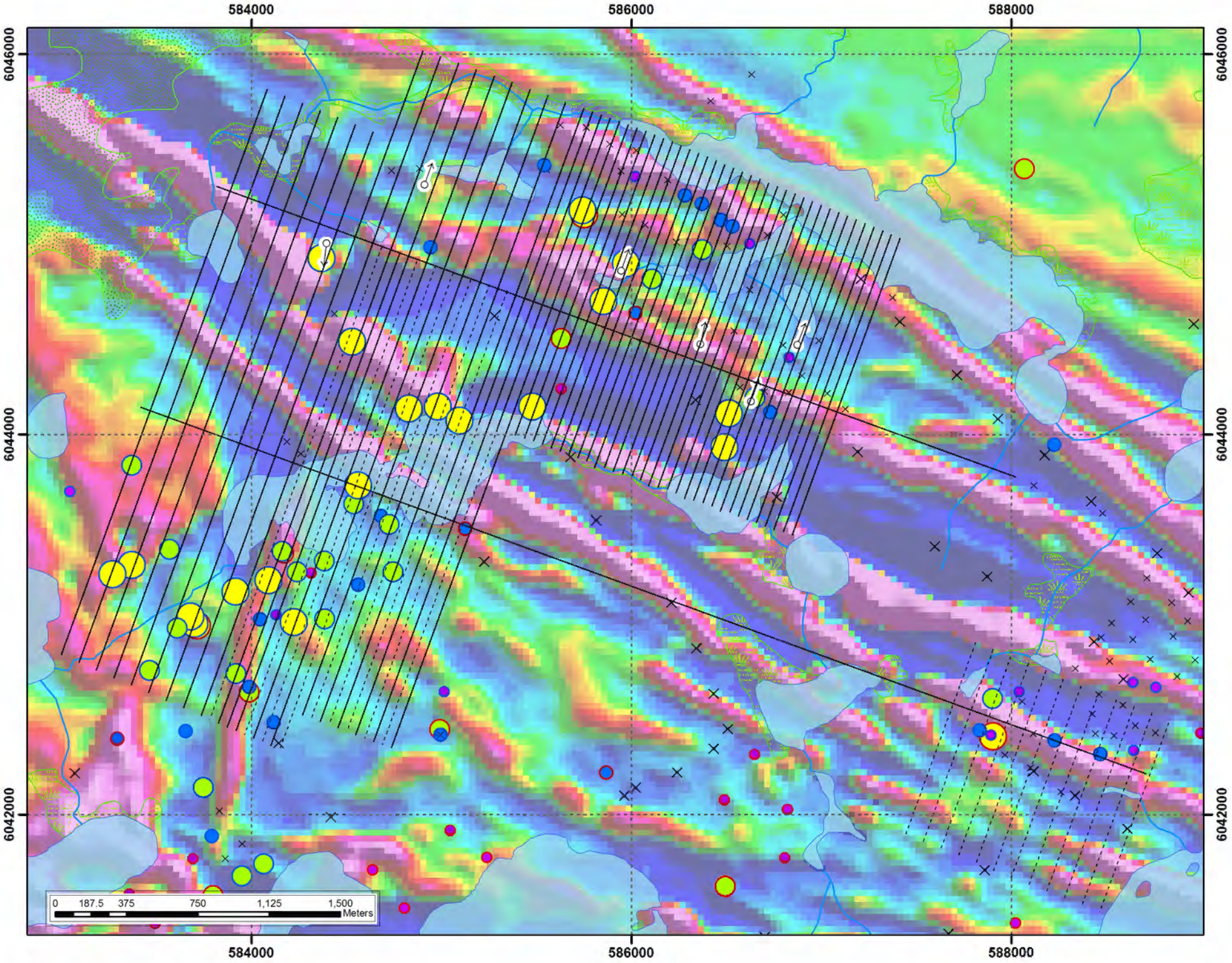
STRUCTURAL SYMBOLS

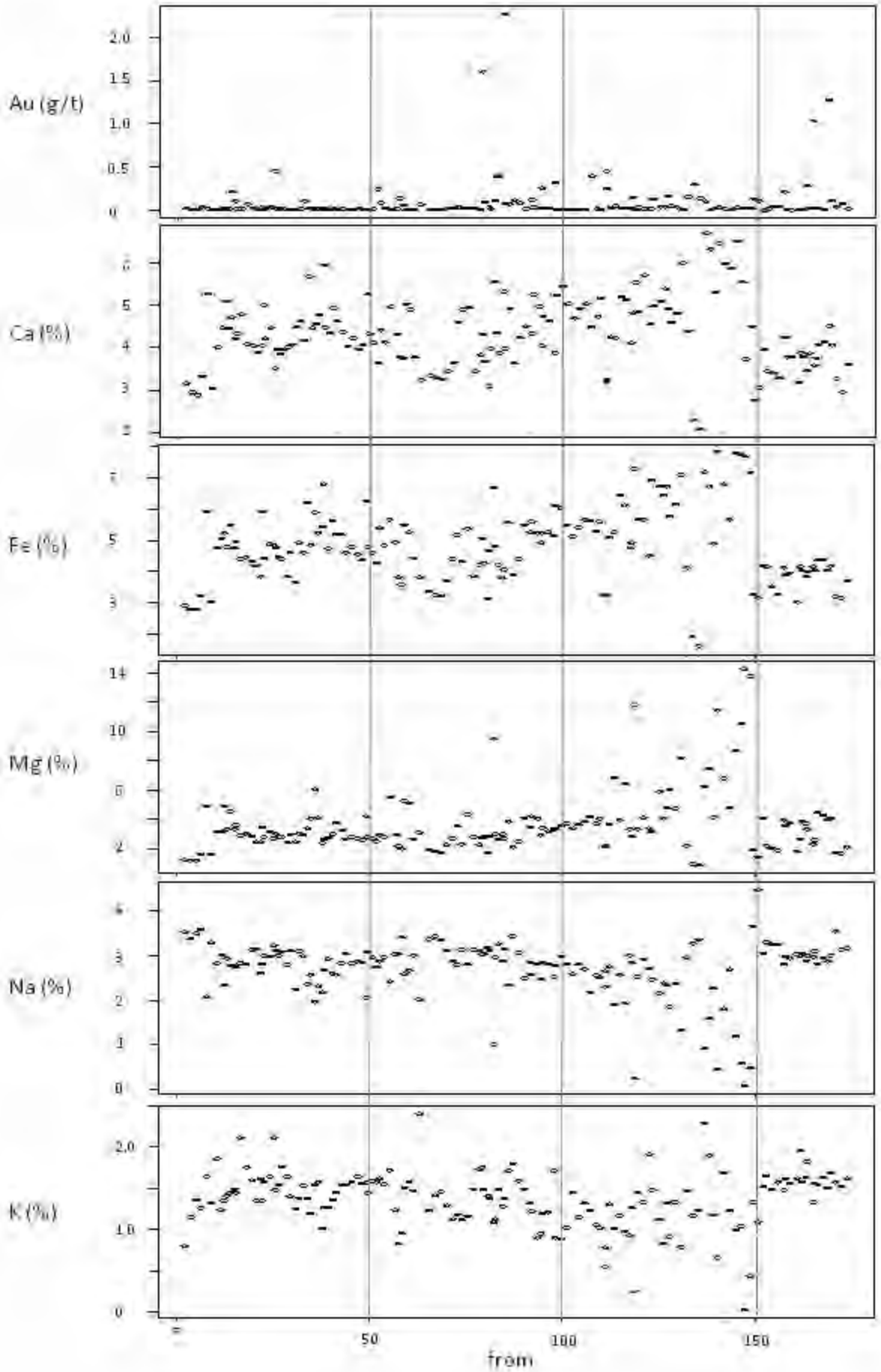
- Bed Inclined
- Bed Trend only
- Pillowed flow Inclined with facing
- Pillow Inclined
- Cleavage Inclined
- Cleavage Vertical
- Foliation Inclined
- Foliation Vertical
- Foliation Trend
- Schist Inclined
- Shear Inclined
- Fold Axis U-asymmetry
- Lineation mineral
- Vein Foliation parallel Inclined
- Vein Foliation parallel Vertical
- Vein in Fracture Inclined
- dyke; Inclined
- dyke; Trend
- sill; Vertical

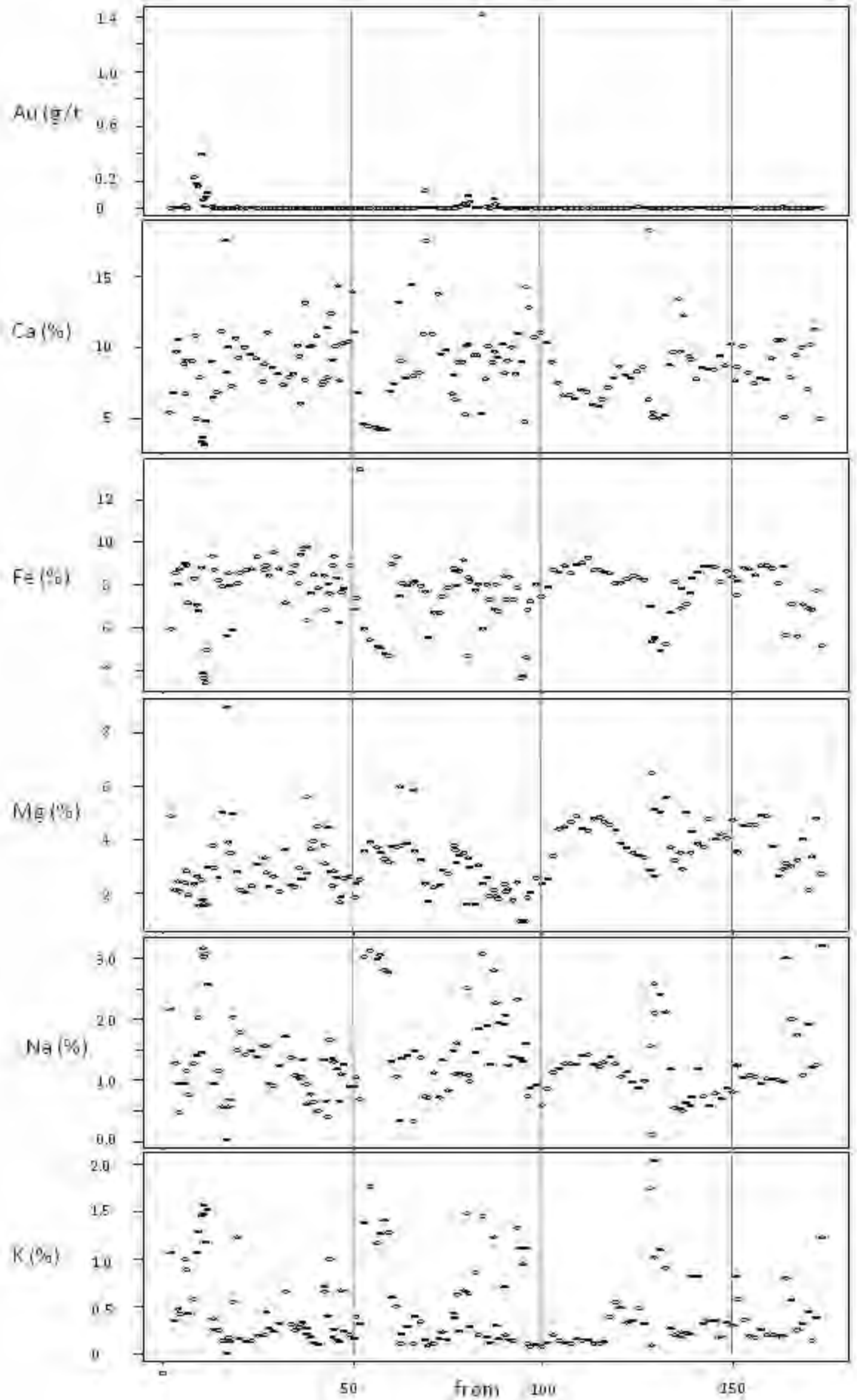

Hudson Bay
0 50 100 150 200
Kilometres
Syenite
Granodiorite to granite
Tonalite to granodiorite
Mafic to ultramafic intrusions
Migmatized supracrustal rocks
Volcanic rocks
Western limit of Hudson Bay - James Bay Lowlands
Northern Superior Superterrane
Sachigo River Gold Mine
Thorne Lake Gold Project
Island Lake Domain
Oxford-Stull Domain
Spider/KWG McFauld's Lake VMS
Freewest/Spider/KWG Cr-PGE
Noront Eagle One Ni-Cu-PGE
North Caribou Terrane
Mussel White

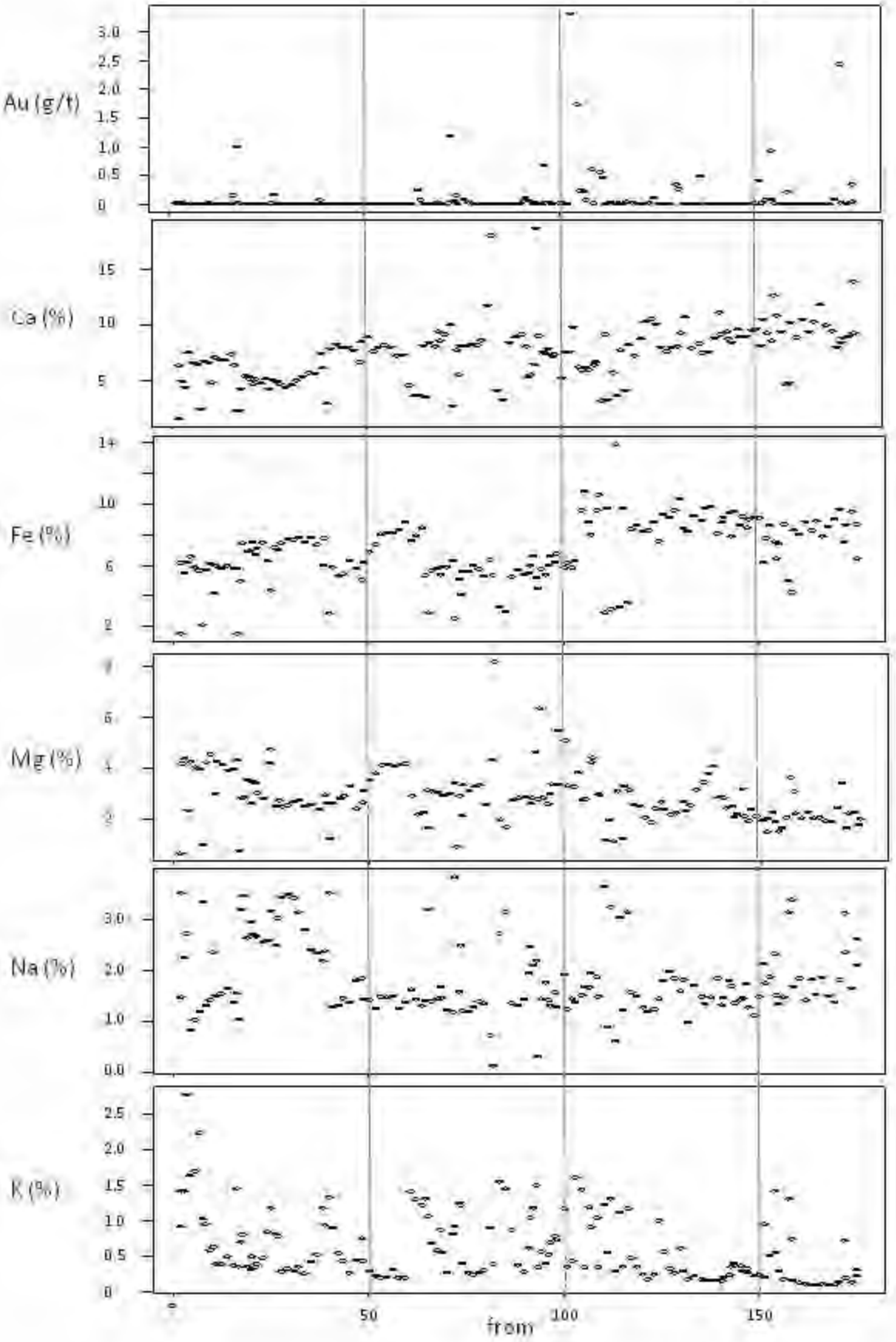

570000
575000
580000
585000
590000
595000
6050000
6045000
6040000
6035000
Ellard River
Ellard Lake
Thorne River
Thorne Lake
Greenstone
Mooreson Lake
Lacey Lake
Sellen Lake
Chick Lake
4250067
4250068
4250069
4250070
4250066
4221721
4221722
4221723
4221724
4221725
4221726
4221720
4221719
4221718
4221717
4221716
4221715
4221708
4221709
4221710
4221711
4221712
4221713
4221714
4221707
4221706
4221705
4221704
4221703
4221702
4221701
4250880
4250881
4250073
4250072
4221699
4208817
4250882
4208824
4208823
4208823
4208822
4208818
0 1,250 2,500 5,000 7,500 10,000
Meters

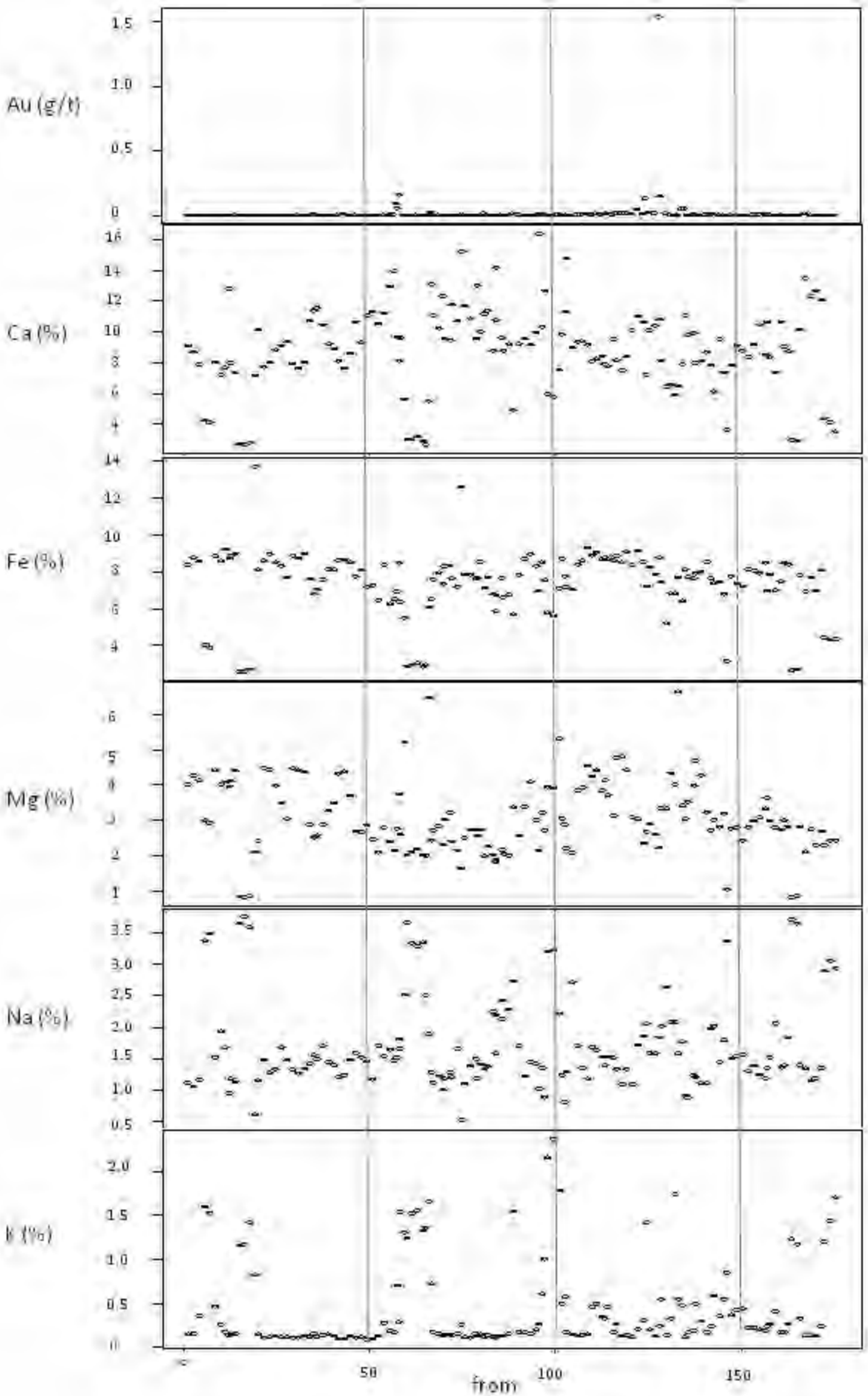

Manitoba
Ontario
N
Thorne Lake
Gold Project
Sachigo Lake F.N.
Pickle Lake
Red Lake
Kenora
Dryden
Lake Nipigon
11
17
11/17
17
11
Thunder Bay
USA
Lake Superior
0 25 50 100 150 200
Kilometers

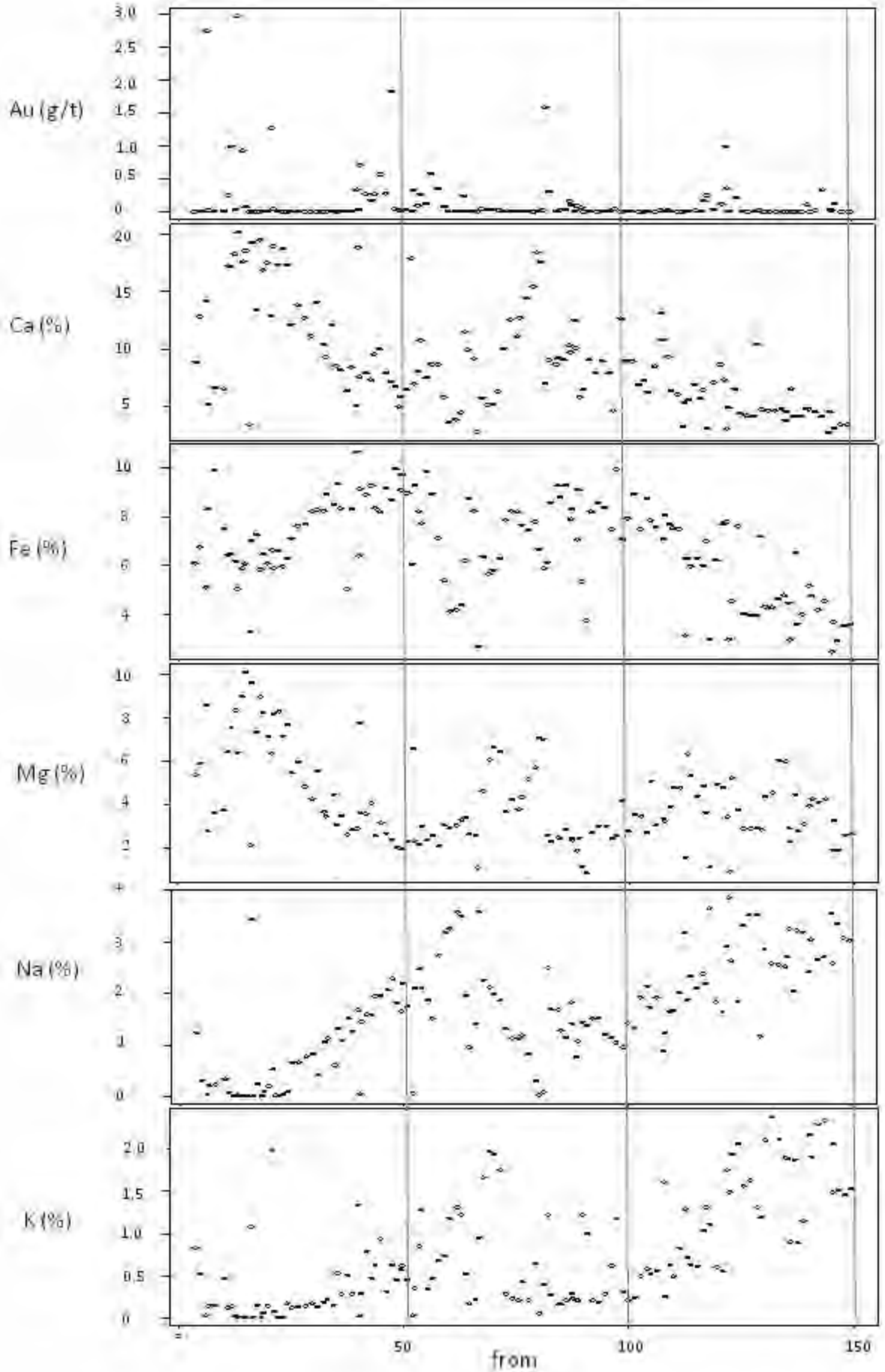

584000
586000
588000
6046000
6044000
6042000
0 187.5 375 750 1,125 1,500
Meters

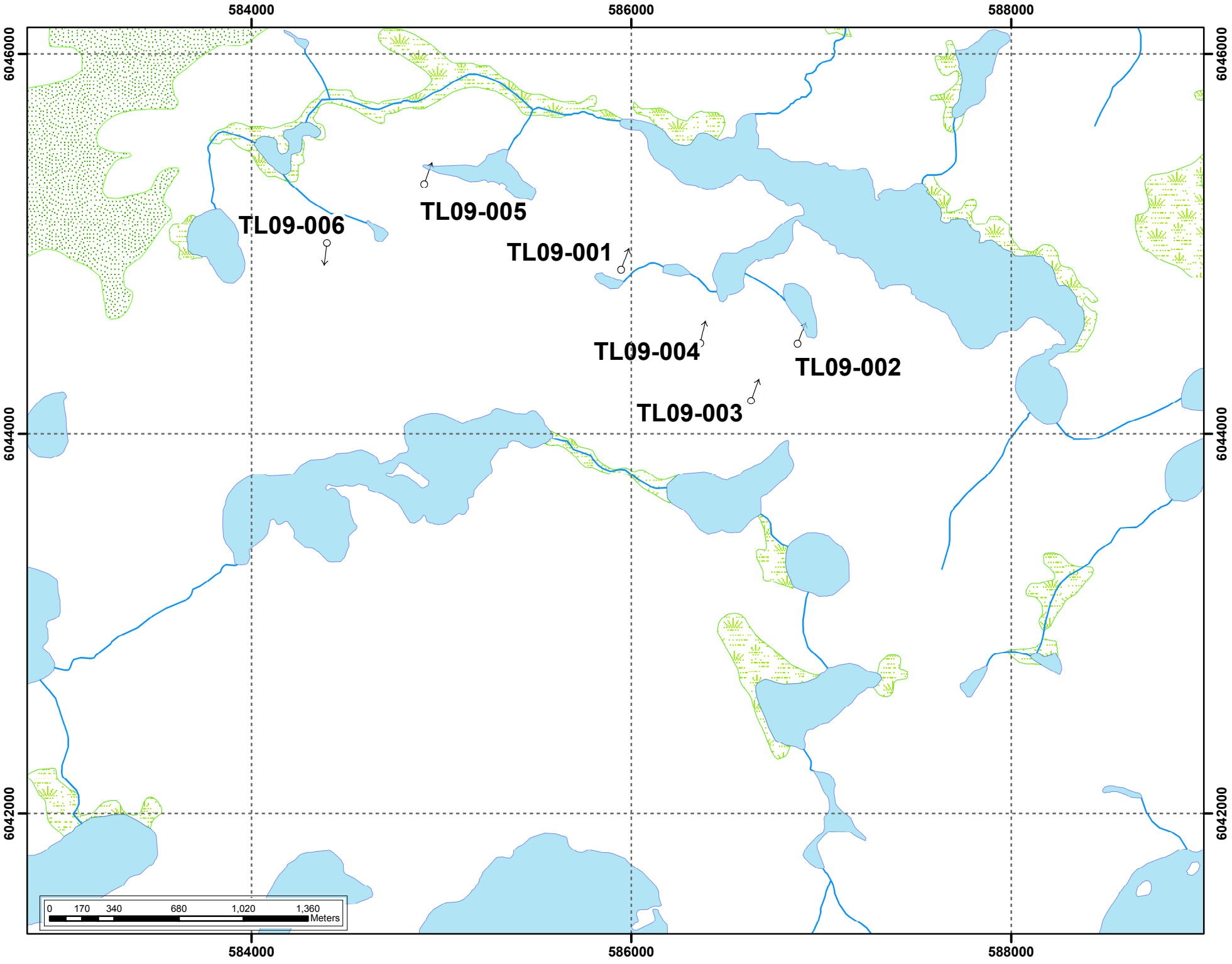

Au (g/t)
2.0
1.5
1.0
0.5
0
Ca (%)
6
5
4
3
2
Fe (%)
7
5
3
Mg (%)
14
10
6
2
Na (%)
4
3
2
1
0
K (%)
2.0
1.0
0
50
100
150
from


Au (g/t
1.4
1.0
0.6
0.2
0
Ca (%)
15
10
5
Fe (%)
12
10
8
6
4
Mg (%)
8
6
4
2
Na (%)
3.0
2.0
1.0
0.0
K (%)
2.0
1.5
1.0
0.5
0
0
50
from
100
150


Au (g/t)
3.0
2.5
2.0
1.5
1.0
0.5
0
Ca (%)
15
10
5
Fe (%)
10
6
2
Mg (%)
6
4
2
Na (%)
3.0
2.0
1.0
0.0
K (%)
2.5
2.0
1.5
1.0
0.5
0
50
100
150
from


Au (g/t)
1.5
1.0
0.5
0
Ca (%)
16
14
12
10
8
6
4
Fe (%)
14
12
10
8
6
4
Mg (%)
6
5
4
3
2
1
Na (%)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
K (%)
2.0
1.5
1.0
0.5
0
50
100
150
from


Au (g/t)
3.0
2.5
2.0
1.5
1.0
0.5
0
Ca (%)
20
15
10
5
Fe (%)
10
8
6
4
Mg (%)
10
8
6
4
2
Na (%)
3
2
1
0
K (%)
2.0
1.5
1.0
0.5
0
50
100
150
from


584000
586000
588000
6046000
6044000
6042000
TL09-006
TL09-005
TL09-001
TL09-004
TL09-002
TL09-003
0 170 340 680 1,020 1,360
Meters

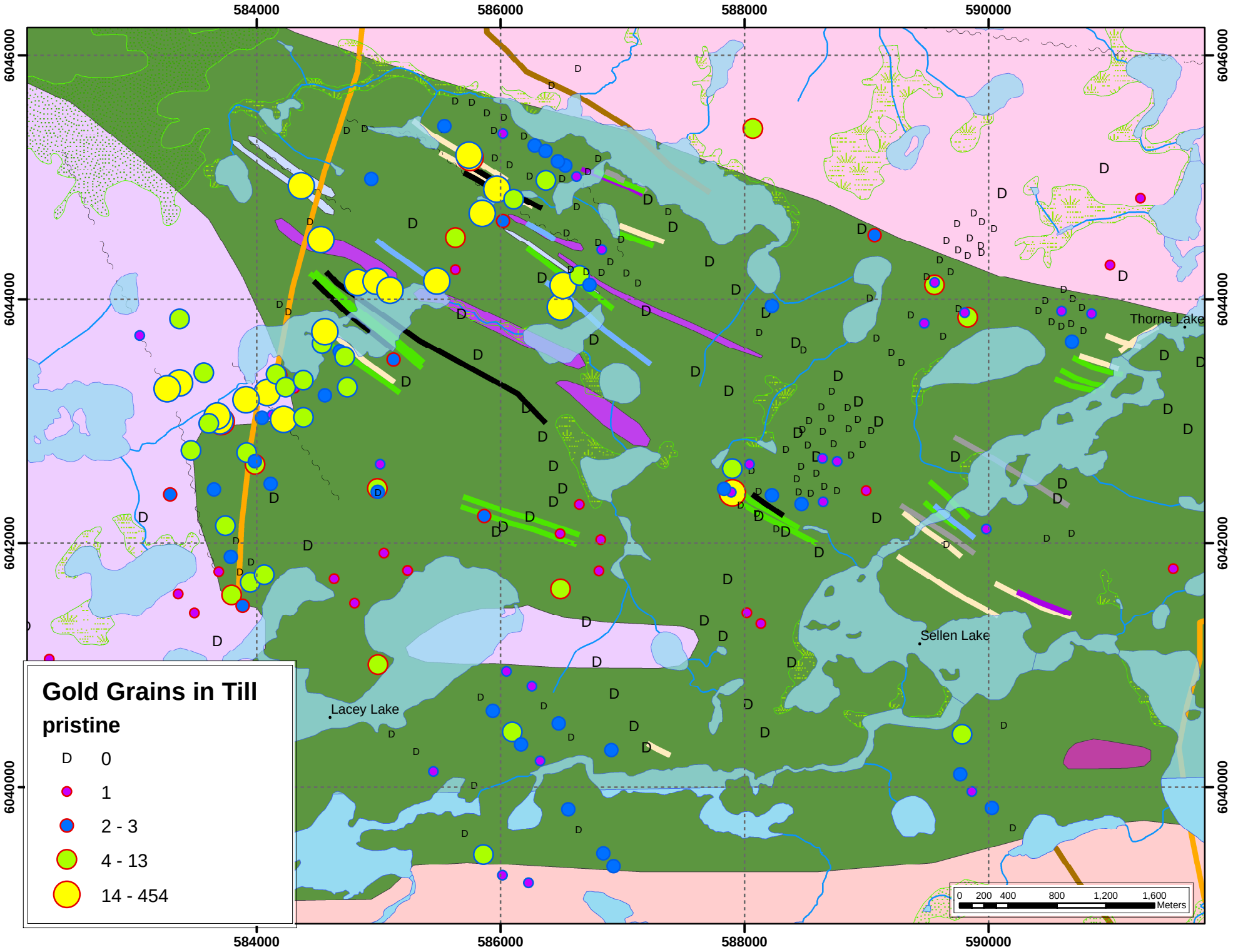
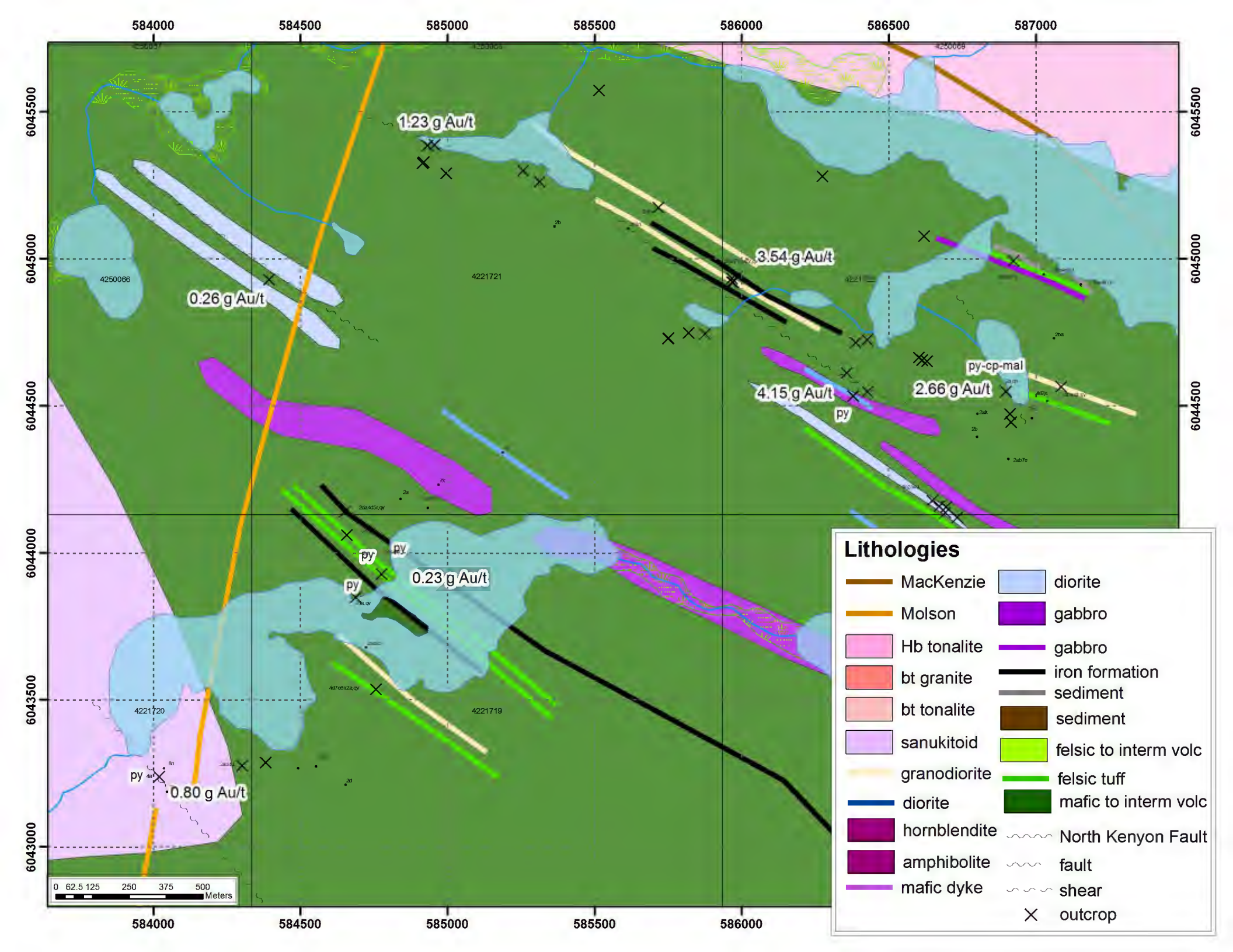
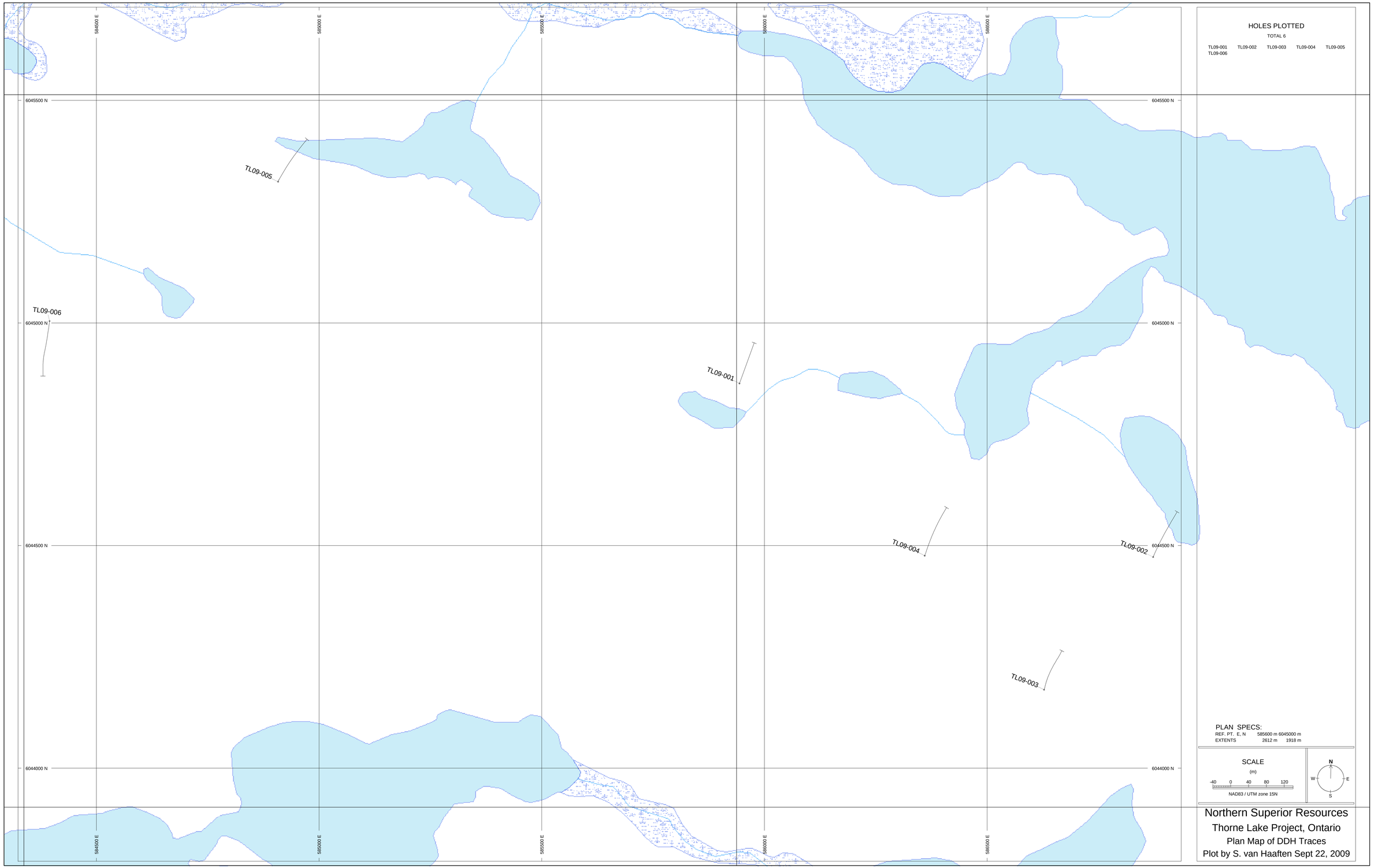

584000
586000
588000
590000
6046000
6044000
6042000
6040000
Thorne Lake
Sellen Lake
Lacey Lake
Gold Grains in Till
pristine
D 0
1
2 - 3
4 - 13
14 - 454
0 200 400 800 1,200 1,600
Meters

Figure 6b: 955 Showing displaying ribbony character of the quartz vein

Figure 6b: 959 Showing displaying ribbony to laminated character of the quartz veining


584000
584500
585000
585500
586000
586500
587000
6045500
6045000
6044500
6044000
6043500
6043000
1.23 g Au/t
3.54 g Au/t
0.26 g Au/t
4.15 g Au/t
2.66 g Au/t
py-cp-mal
py
0.23 g Au/t
0.80 g Au/t
4250066
4221721
4221720
4221719
0 62.5 125 250 375 500
Meters
Lithologies
MacKenzie
Molson
Hb tonalite
bt granite
bt tonalite
sanukitoid
granodiorite
diorite
hornblendite
amphibolite
mafic dyke
diorite
gabbro
gabbro
iron formation
sediment
sediment
felsic to interm volc
felsic tuff
mafic to interm volc
North Kenyon Fault
fault
shear
outcrop



HOLES PLOTTED

TOTAL 6

TL09-001 TL09-002 TL09-003 TL09-004 TL09-005 TL09-006

PLAN SPECS:

REF. PT. E, N	585600 m	6045000 m
EXTENTS	2612 m	1918 m

SCALE

(m)

-40 0 40 80 120

NAD83 / UTM zone 15N

N W E S

Northern Superior Resources

Thorne Lake Project, Ontario

Plan Map of DDH Traces

Plot by S. van Haaften Sept 22, 2009

Project	Claim	4221722	Depth	Az.	Dip	Survey Type	Start Date: Aug. 20, 2009	Hole # **TL09-001**
Thorne Lake	Core Size:	BW	0	20	-50		End Date: Aug. 23, 2009	
Units: M	UTM_N	6044864					Logged by: T. Hart	
Drilling Contractor:	UTM_E	585944					Final Depth 151 m	
Bradley	Elev.	201					Date Logge Aug 22-23, 2009	

location: undercutting the 959 vein southeast of the iron formation - NAD83 Z15

comment: the reflex instrument was late arriving and this hole was not surveyed

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au
0.00	3.84	casing								ppm
3.84	6.53	mafic metavolcanic	very broken core with moderate recovery, complex mixture of very fine-grained moderately			754551	3.84	4.93	1.09	<0.005
		and ferruginous chert	foliated mafic metavolcanic and highly contorted lenses of medium grey, ferruginous			754552	4.93	6.23	1.30	0.008
			chert with very fine-grained magnetite - lenses up to 20 cm wide	ct	30	754553	6.23	6.53	0.30	2.75
			6.50-6.53 quartz - medium grey, 1-2% very fine-grained pyrite	vn	20					
6.53	11.08	mafic metavolcanic	very fine-grained, weakly foliated, medium green, with occasional hairline fractures with			754554	6.53	8.00	1.47	0.019
			very fine grained pyrite and pyrrhotite	foln	40	754555	8.00	10.24	2.24	0.006
			10.60-11.08 moderate to strong biotite alteration	ct	20	754556	10.24	11.08	0.84	0.01
11.08	33.00	ferruginous chert	very complex mixture of highly contorted medium grey ferruginous chert and mafic			754557	11.08	11.83	0.75	0.245
		and mafic metavolcanic	metavolcanic with some intervals being more one unit than the other			754558	11.83	12.73	0.90	0.997
			12.00 - photo			754559	12.73	13.20	0.47	0.038
			11.84-12.20 - ferruginous chert with 2-3% very fine-grained pyrite-pyrrhotite	foln	25	754560	13.20	14.35	1.15	2.98
			12.20 -12.73: moderate biotite alteration with 40% mafic	foln	20	754561	14.35	15.00	0.65	0.925
			13.20 -14.35: 80% mafic with disseminated fine-grained pyrite	foln	0	754562	15.00	16.04	1.04	0.07
			14.35-15.00: 60% mafic metavolcanic			754563	16.04	16.40	0.36	<0.005
			16.04-16.40: fp diorite - fine-grained, weakly foliated, dark grey with medium-			754564	16.40	17.45	1.05	0.012
			grained, anhedral, white feldspar phenocrysts; both contacts ground			754565	17.45	18.40	0.95	<0.005
			17.45-18.40: 80-90% mafic, contorted ferruginous chert; trace to 1% disseminated			754566	18.40	18.80	0.40	<0.005
			fine-grained pyrite	foln	40	754567	standard HiSiK2			3.27
			18.80-19.10: 90% mafic with coarse-grained disseminated subhedral pyrite			754568	18.80	19.86	1.06	0.006
			20.13-21.18: 70% mafic, highly brecciated			754569	19.86	20.80	0.94	0.005
			20.8-21.18: strong biotite alteration	foln	35	754570	20.80	21.22	0.42	1.275
			22.26-23.32: 10-15% mafic and trace to 2% medium to coarse grained disseminated	foln	35	754571	21.22	22.26	1.04	0.047
			subhedral pyrite			754572	22.26	23.32	1.06	0.011
			22.50 - photo with strongly biotite zone and chert			754573	23.32	24.30	0.98	<0.005
			25.20-27.25: 80-90% mafic metavolcanic	foln	50	754574	24.30	25.20	0.90	<0.005
			27.25-27.93: 70% ferruginous chert	foln	60	754575	25.20	26.70	1.50	0.008
			27.93-28.40: mafic metavolcanic			754576	26.70	28.20	1.50	0.005
			28.40-30.30: mafic metavolcanic with a brecciated appearance and ferruginous chert			754577	28.20	29.70	1.50	<0.005
			matrix			754578	29.70	31.00	1.30	<0.005
			30.30-31.00: very fine-grained mafic metavolcanic with rare, suhedral, medium-grained							
			feldspar phenocrysts							
			31.00-31.70: brecciated appearance with wispy ferruginous chert matrix			754579	31.00	32.35	1.35	<0.005
			subparallel to CA							
			31.70-32.16: mafic metavolcanic							

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au
			32.16-32.35: ferruginous chert	ct	20					
			32.35-32.90: mafic metavolcanic			754580	32.35	33.00	0.65	<0.005
			32.90-33.00: ferruginous chert	ct	30					
33.00	60.38	Mafic metavolcanic	fine to very fine-grained, dark to medium grey green, weak to moderately foliated with variable			754581	33.00	34.50	1.50	<0.005
			biotite alteration; some intervals are medium-grained with a gabbroic appearance	foln	40	754582	34.50	35.38	0.88	0.011
			also intervals with very fine-grained groundmass and rare coarse to medium-grained							
			subhedral feldspar							
			35.38-35.45: ferruginous chert	ct	50	754583	35.38	36.16	0.78	<0.005
			35.74: hairline fracture with pyrite-pyrrhotite	frac	55	754584	36.16	37.60	1.44	0.01
			37.70-38.60: moderate biotite alteration in groundmass with occasional chlorite-	foln	45	754585	37.60	38.60	1.00	0.007
			albite alteration along fractures			754586	38.60	39.80	1.20	0.012
			39.00-39.80: medium-grained massive							
			39.80-40.20: strong biotite alteration with 2-3% fine-grained pyrite-pyrrhotite	foln	40	754587	39.80	40.20	0.40	0.333
			40.20-40.50: ferruginous chert - chloritic intervals towards base	ct	40	754588	40.20	40.50	0.30	0.036
			41.90: 0.25 cm irregular grey quartz stringer with 1% pyrrhotite			754589	40.50	41.84	1.34	0.706
			42.56: irregular quartz veinlet	vn	30	754590	41.84	43.03	1.19	0.27
			43.03: quartz stringer with 2-3% pyrite	str	35	754591	43.03	43.79	0.76	0.177
			43.79-44.07: well foliated, moderate to strong calcite and biotite alteration	foln	50	754592	43.79	44.96	1.17	0.272
			1-3% fine-grained to very fine-grained pyrite-pyrrhotite							
			44.07-44.50: moderate albite alteration in possible pillow margin							
			44.70-44.92: strong biotite alteration, calcite, and 2-3% pyrite-pyrrhotite	foln	50	754593	44.96	46.29	1.33	0.57
			45.07-46.29: strong biotite-calcite alteration, sheared; 2-3% fine-grained	shr	35	754594	standard HiSiK2			3.5
			pyrrhotite-pyrite			754595	46.29	47.55	1.26	0.279
			47.86-48.08: strong biotite-calcite alteration, sheared, 3-5% pyrrhotite-	shr	55	754596	47.55	48.47	0.92	1.835
			pyrite							
			48.33-48.47: strong biotite alteration, weak foliation; trace to 1% very fine-grained	ct	50					
			pyrite			754597	48.47	49.43	0.96	0.043
			49.15-49.20: well foliated possibly flow contact; albite-chlorite alteration	foln	70	754598	49.43	49.76	0.33	0.032
			49.49-49.55: light grey quartz with chlorite along margins; trace to 1% very fine-	vn	50	754599	49.76	50.95	1.19	0.016
			grained pyrite			754600	50.95	52.21	1.26	0.027
			50.85-51.40: irregular albite-chlorite possible pillow selvage; 1-2% very fine-grained			754601	52.21	52.57	0.36	0.017
			pyrrhotite-pyrite			754602	52.57	53.65	1.08	0.328
			52.21-52.57: ferruginous chert - irregular foliation	foln	50	754603	53.65	54.07	0.42	0.094
			53.80-54.00: quartz-calcite with minor biotite and sulphide along margins	vn	25	754604	54.07	55.39	1.32	0.263
			55.39-56.17: sheared with strong biotite alteration, stringers of ferruginous chert	shr	40	754605	55.39	56.44	1.05	0.127
			; 1-2% very fine-grained disseminated pyrite							
			56.17-56.28: ferruginous chert	ct	50					
			56.28-56.44: strong biotite alteration							
			58.16-59.20: variable biotite alteration with weak to moderate margins and 30 cm			754606	56.44	57.94	1.50	0.588
			core zone of intense alteration with quartz-calcite and 1-3% very fine-	foln	15	754607	57.94	59.20	1.26	0.351
			grained, disseminated pyrite			754608	59.20	60.38	1.18	0.077
60.38	63.92	bt diorite	uniform textured, massive to very weakly foliated, medium-grained, brown to grey with a			754609	60.38	61.88	1.50	0.006

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au
			central coarser grained feldspar rich core	foln	35					
			61.38-61.42: light grey highly fractured quartz and chlorite vein with 1-2% very fine-	vn	40	754610	61.88	63.00	1.12	0.017
			grained pyrite			754611	63.00	63.92	0.92	0.01
63.92	66.65	mafic metavolcanic	very fine-grained, weakly foliated, dark green with irregular albitized fractures, and rare			754612	63.92	64.60	0.68	0.242
			coarse-grained, subhedral feldspar phenocrysts							
			64.18-64.50: albitized margins with a 10 cm wide ferruginous chert core; 2-3 %	foln	50	754613	64.60	66.00	1.40	0.012
			very fine-grained pyrrhotite-pyrite			754614	66.00	66.65	0.65	0.01
66.65	67.80	fp diorite	very fine-grained, dark grey to brown, groundmass with medium-grained white anhedral	ct	30	754615	66.65	67.80	1.15	<0.005
			feldspar and medium to fine-grained biotite; rare pebble sized angular xenoliths;	foln	50	754616	67.80	69.14	1.34	0.042
			moderate foliation	ct	20					
67.80	69.14	mafic metavolcanic	top 30 cm are the very fine-grained groundmass with rare feldspar as above, but lower 1 m is							
			a well foliated biotite altered, fragmental	foln	40					
69.14	72.71	bt diorite	uniform textured, massive to very weakly foliated, medium-grained, brown to grey			754617	69.14	70.25	1.11	0.038
			70.25-70.35: well foliated with 2 irregular <0.25 cm quartz calcite stringers	foln	35	754618	70.25	71.50	1.25	0.029
			71.50-71.75: well foliated, with irregular quartz stringers	foln	20	754619	71.50	72.71	1.21	0.022
72.71	79.40	mafic metavolcanic	very fine-grained, weakly foliated, dark green with irregular albitized fractures, and rare			754620	72.71	74.21	1.50	0.01
			coarse-grained, subhedral feldspar phenocrysts; numerous well foliated intervals with			754621	standard SN-38			8.58
			ferruginous chert cores or brecciated or well foliated interval with ferruginous chert							
			matrix. Chert is a medium grey, very fine grained							
			73.45-73.50: ferruginous chert with epidote-albite margin	foln	60					
			73.70-74.00: 60% ferruginous chert							
			74.25-75.20: 50% ferruginous chert; well foliated	foln	45	754622	74.21	75.71	1.50	0.009
			75.38-75.48: ferruginous chert	ct	40					
			75.70-75.82: ferruginous chert			754623	75.71	76.40	0.69	0.01
			76.27-76.37: ferruginous chert; 2-3% very fine-grained disseminated pyrite	foln	30					
			76.86-79.40: ferruginous chert varying from 20-80% with variable trace to 1% very	foln	35	754624	76.40	77.90	1.50	0.01
			fine-grained pyrite			754625	77.90	79.40	1.50	0.016
			77.30-77.36: strong biotite alteration							
79.40	82.83	ferruginous chert	very complex mixture of highly contorted medium grey ferruginous chert and mafic			754626	79.40	80.23	0.83	<0.005
		and mafic metavolcanic	metavolcanic with some intervals being more one unit than the other	foln	35					
			79.86-80.23: brecciated mafic metavolcanic strong albite alteration wth a							
			strong biotite alteration in the matrix							
			80.23-83.00: 1-2% vey fine-grained disseminated pyrite and pyrrhotite in chert			754627	80.23	81.20	0.97	0.012
			and in biotite altered metavolcanic intervals							
			81.20-81.32: mafic with intense biotite alteration			754628	81.20	82.05	0.85	0.018
			81.32-82.05: 60% ferruginous chert with strongly chloritized mafic	foln	40					
			82.05-82.16: feldspar porphyritic massive mafic metavolcanic			754629	82.05	82.83	0.78	1.59
			82.16-82.83: sheared strongly biotite altered mafic metavolcanic with 10-15%	shr	45					
			ferruginous chert; 3-5% very fine-grained disseminated pyrite							
			82.70: photo of shear and intense biotite alteration							
82.83	89.88	mafic metavolcanic	very fine-grained, dark green with chlorite-albite alteration resembling pillow selvages			754630	82.83	84.51	1.68	0.31
			rare disseminated coarse-grained white feldspar; white calcite hairline fractures occasional	frac	40					

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au
			veinlets of quartz-calcite up to 3 cm.							
			82.83-82.88: strong biotite alteration and moderate shearing							
			82.61-83.65: strong biotite alteration, sheared, calcite; 3-5% very fine-grained	shr	40	754631	84.51	85.04	0.53	0.015
			pyrrhotite-pyrite			754632	85.04	86.29	1.25	0.024
			84.58: 0.25 quartz stringer with 2% very fine-grained pyrite	str	30	754633	86.29	87.35	1.06	0.029
			85.00: 1.0 cm ferruginous chert band with 20% pyrrhotite	ct	20	754634	87.35	87.65	0.30	0.161
			87.48-87.51: quartz-calcite veinlet with 3-5% very fine-grained pyrrhotite-pyrite	vn	25	754635	87.65	88.67	1.02	0.102
			88.73-88.77: quartz-calcite veinlet with minor epidote along margins and 3-5%	vn	15	754636	88.67	89.00	0.33	0.012
			fine-grained pyrrhotite and pyrite			754637	89.00	89.88	0.88	0.089
89.88	91.93	fp diorite	medium grey brown, moderately foliated, fine to very fine-grained with medium-grained	ct	35	754642	89.88	90.75	0.87	0.067
			intervals rich in feldspar, 1-3% very fine-grained disseminated pyrite; intervals within the dyke							
			appears to be mafic metavolcanic, very epidote altered with possibly garnet	foln	40					
			90.75-90.81: intense epidote alteration with coarse-grained garnet							
			90.96-90.98: intense epidote alteration							
			91.72-91.89: intense feldspar epidote alteration	ct	60	754638	90.75	91.93	1.18	<0.005
91.93	118.20	mafic metavolcanic	very fine-grained to aphanitic, with rare disseminated very coarse-grained subhedral to			754639	91.93	93.43	1.50	0.01
			euhedral white feldspar			754640	93.43	94.93	1.50	<0.005
			96.36-96.39: white quartz-calcite-epidote veinlet	vn	30	754641	94.93	96.43	1.50	0.011
			97.27-97.33: aphanitic siliceous dyke: resembles fp diorite above	dyke	45	754643	96.43	97.33	0.90	0.007
			97.33-98.93: occasional 0.25 cm bands of strong biotite alteration with fine-			754644	97.33	98.93	1.60	0.044
			grained disseminate garnet			754645	98.93	99.95	1.02	<0.005
			98.93-99.11 well foliated chloritic ferruginous chert	foln	35	754646	standard SE-29			0.582
			104.30-104.47: highly fractured with 1-2% very fine-grained pyrrhotite along			754647	99.95	101.45	1.50	0.007
			fractures			754648	101.45	102.95	1.50	0.008
			105.66-106.40 intense chlorite alteration and moderately foliated	foln	25	754649	102.95	104.21	1.26	<0.005
			106.04-106.10: fp diorite	ct	40	754650	104.21	104.97	0.76	<0.005
			106.34-106.35: fp diorite; strong biotite alteration along contacts	ct	25	754651	104.97	106.35	1.38	0.017
			106.73-107.68: occasional calcite+/-epidote fractures +/- biotite alteration	frac	40	754652	106.35	107.88	1.53	<0.005
			along margins							
			107.93-108.22: sheared, with strong biotite alteration, calcite stringers	shr	15	754653	107.88	108.24	0.36	0.018
			108.22-109.00: hyaloclastite			754654	108.24	109.46	1.22	0.009
			109.50-109.66: quartz-calcite veinlets 0.25-1.0 cm wide with 1-2% very fine-grained	foln	30	754655	109.46	110.00	0.54	0.03
			pyrite-pyrrhotite			754656	110.00	111.50	1.50	0.011
			109.66-109.87: well foliated; strong chlorite-biotite	foln	45	754657	111.50	112.72	1.22	<0.005
			110.71-110.75: aphanitic, medium grey, siliceous dyke	ct	45	754658	112.72	113.17	0.45	<0.005
			112.72-113.17: fp diorite, moderately foliated,	ct	40	754659	113.17	113.90	0.73	0.006
				ct	25	754660	113.90	115.40	1.50	0.005
			113.83-113.84: biotite shear with 2-3% very fine-grained pyrite	shr	35	754661	115.40	116.78	1.38	0.021
			117.33-118.20: occasional biotite rich shear with calcite+/-quartz and 3-5% very	shr	40	754662	116.78	117.31	0.53	0.014
			fine-grained disseminated pyrite			754663	117.31	118.20	0.89	0.171
118.20	119.66	fp diorite	medium grey brown, moderately foliated, fine-grained groundmass with medium-grained	ct	45	754664	118.20	119.66	1.46	0.248
			feldspar phenocrysts, 1-3% very fine-grained disseminated pyrite concentrated towards	foln	45					

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au
			the margins of the dyke	ct	60					
119.66	125.72	mafic metavolcanic	very fine-grained, weakly foliated, with occasional calcite in sheared chloritic zones			754665	119.66	121.16	1.50	0.033
			120.10-120.31: hyaloclastite with 1% very fine-grained disseminated pyrite			754666	121.16	122.14	0.98	0.116
			120.31-120.39: quartz-calcite veinlet	vn	40					
			121.39-121.52: well foliated ferruginous chert with trace pyrite	foln	40					
			122.14-122.50: moderate to strong biotite and calcite alteration, sheared, 3-5% very	foln	40	754667	122.14	122.50	0.36	0.995
			fine-grained disseminated pyrite							
			122.50-123.05: very fine-grained, medium brown to grey well foliated siliceous	ct	40	754668	122.50	123.05	0.55	0.355
			dyke with strong biotite alteration; 2-3% very fine-grained disseminated	foln	35					
			pyrite; xenolith of wallrock at upper contact							
			123.05-124.97: moderately to strongly foliated with moderate to strong biotite	foln	35	754669	123.05	124.55	1.50	0.014
			alteration with calcite alteration correlating with the biotite %							
			124.70-124.76: 3-5% fine-grained disseminated pyrite							
			124.97-125.00: grey cherty quartz with 1-2% pyrite	vn	35	754670	124.55	125.72	1.17	0.22
			125.00-125.30; strong biotite alteration and 3-5% very fine-grained pyrite	foln	25	754671	standard SN-38			8.12
125.72	129.60	fp diorite	medium grey brown, moderately foliated, fine-grained groundmass with medium-grained	ct	40	754672	125.72	127.22	1.50	0.013
			feldspar phenocrysts: irregular lower contact			754673	127.22	128.72	1.50	<0.005
129.60	130.54	mafic metavolcanic	highly epidote albite altered hyaloclastite			754674	128.72	129.60	0.88	0.005
130.54	135.66	bt diorite	fine-grained uniform textured, weakly foliated with rare feldspar phenocrysts, medium green	foln	50	754675	129.60	130.54	0.94	0.021
			to brown with abundant biotite; finer grained than the fp diorite and darker green-grey			754676	130.54	132.04	1.50	<0.005
135.66	140.33	fp diorite	medium grey brown, moderately foliated, fine-grained groundmass with medium-grained			754677	132.04	133.54	1.50	<0.005
			feldspar phenocrysts			754678	133.54	135.00	1.46	<0.005
			135.94-136.08: bt diorite	ct	45	754679	135.00	135.66	0.66	<0.005
			137.12-137.68: bt diorite	ct	35	754680	135.66	135.94	0.28	<0.005
			139.92-140.04: bt diorite	ct	30	754681	135.94	137.12	1.18	<0.005
140.33	146.60	mafic metavolcanic	variably sheared and altered; fine to very fine-grained; occasional calcite veinlets and stringers			754682	137.12	137.68	0.56	<0.005
			140.33-140.87: strong biotite alteration, calcite stringers, 3-5% very fine-grained	shr	50	754683	137.68	139.00	1.32	<0.005
			disseminated pyrite and quartz pod			754684	139.00	140.33	1.33	<0.005
			142.30-142.70: strongly sheared, intense biotite alteration, stringers of calcite			754685	140.33	140.87	0.54	0.109
			143.33-143.80: very broken core			754686	140.87	142.30	1.43	<0.005
			143.50: photo of intense biotite and shearing			754687	142.30	143.80	1.50	0.02
			143.80-144.30: well foliated with 3-5% very fine-grained disseminated pyrite			754688	143.80	145.38	1.58	0.335
			144.50-144.75: very broken core							
			145.43-145.64: fp diorite with very irregular contacts			754689	145.38	145.70	0.32	0.029
			146.00-146.30: intense biotite alteration with stringers of calcite; sheared	shr	35	754690	145.70	146.60	0.90	0.019
146.60	151.00	fp diorite	medium grey brown, moderately foliated, fine-grained groundmass with medium-grained			754691	146.60	148.10	1.50	0.127
			feldspar phenocrysts; irregular upper contact			754692	148.10	149.60	1.50	<0.005
			148.34-148.36: chlorite shear with trace to 1% very fine-grained pyrite	shr	30	754693	149.60	151.00	1.40	<0.005

Project	Claim	4221722	Depth	Az.	Dip	Survey Type	Start Date:	Aug. 23, 2009	Hole #	**TL09-002**
Thorne Lake	Core Size:	BQ	0	20	-50		End Date:	Aug. 25, 2009		
Units: M	UTM_N	6044474	11	24.2	-49.5	Reflex	Logged by:	T. Hart		
	UTM_E	586873	50	25.9	-49.4	Reflex				
Drilling Contractor:	Elev.	200	101	29.6	-48.9	Reflex	Final Depth	176.00		
Bradley			150	30.6	-48.9	Reflex	Date Logged:	Aug. 24-25, 2009		
location: undercutting the 914 vein south of Hades Lake - NAD83 Z15										
comment:										

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au(ppm)
0.00	4.00	casing	1.38-4.00: massive, fine-grained, dark green to grey green mafic metavolcanic with occasional			754694	1.38	2.88	1.50	<0.005
4.00	5.75	mafic metavolcanic	hairline fractures containing calcite			754695	2.88	4.38	1.50	<0.005
5.75	8.50	fp diorite	fine-grained weakly to moderately foliated, dark grey brown, biotite rich groundmass with			754696	standard SE-29			0.576
			subhedral, medium-grained white feldspar phenocrysts; trace very fine-gained disseminated	foln	50	754697	4.38	5.75	1.37	<0.005
			pyrite; irregular contacts at high angle to CA			754698	5.75	7.25	1.50	<0.005
8.50	15.00	mafic metavolcanic	massive, aphanitic to fine-grained, dark green, massive to weakly foliated with occasional			754699	7.25	8.50	1.25	<0.005
			hairline fractures containing calcite; occasional 3-10 cm intervals that appear to be flowtops			754700	8.50	10.00	1.50	<0.005
			10.98-11.00: calcite-quartz fracture with chloritic margins	frac	55	754701	10.00	11.50	1.50	<0.005
			12.78-12.98: calcite-quartz lenses with bleached margins, trace pyrrhotite			754702	11.50	12.65	1.15	<0.005
			probably a flowtop			754703	12.65	13.00	0.35	<0.005
15.00	19.60	fp diorite	fine-grained weakly to moderately foliated, dark grey brown, biotite rich groundmass with	ct	45	754704	13.00	14.00	1.00	<0.005
			subhedral, medium-grained white feldspar phenocrysts; trace very fine-gained disseminated	foln	50	754705	14.00	15.00	1.00	0.006
			pyrite; minor xenoliths of mafic metavolcanic at upper contact	ct	50	754706	15.00	16.50	1.50	<0.005
19.60	60.07	mafic metavolcanic	massive, aphanitic to fine-grained, dark green, massive to weakly foliated with occasional			754707	16.50	18.00	1.50	<0.005
			medium to coarse grained subhedral feldspar, occasional hairline fractures with calcite;			754708	18.00	19.60	1.60	<0.005
			3-10 cm intervals that appear to be flowtops							
			19.6-20.18: well foliated to sheared, moderate biotite alteration, calcite and			754709	19.60	20.18	0.58	<0.005
			quartz stringers; fine-grained garnet near top of intervals; 1-2%							
			fine-grained pyrrhotite disseminate and along fractures			754710	20.18	21.83	1.65	<0.005
			20.18-21.85: irregular fractures with broad alteration haloes and rare fractures			754711	21.83	23.33	1.50	<0.005
			with pyrrhotite filling			754712	23.33	24.83	1.50	<0.005
			26.79-26.81: chlorite-epidote shear	shr	45	754713	24.83	26.38	1.55	<0.005
			27.23-27.78: highly fractured possibly flowtop, bleaching and calcite fracture-fill	shr	55	754714	26.38	27.83	1.45	<0.005
			28.44-28.6: bleached- epidote alteration			754715	27.83	29.38	1.55	<0.005
			29.83: calcite fracture filling	frac	55	754716	29.38	30.88	1.50	<0.005
			33.80-34.00: broken core, minor quartz and calcite filled fractured			754717	30.88	32.38	1.50	0.005
			34.00-40.80: intermittent intervals of epidote alteration resembling flowtop or	str	50	754718	32.38	33.88	1.50	<0.005
			pillow selvages with irregular quartz-calcite veinlets and lenses			754719	33.88	35.38	1.50	<0.005
			34.95-35.3: epidote alteration / bleaching, quartz stringer, trace			754720	35.38	36.14	0.76	0.01
			pyrite-pyrrhotite			754721	standard SN-38			8.34
			35.64-35.75: calcite quartz lens							
			36.15-36.23: quartz lenses with hairline pyrrhotite stringer long lower			754722	36.14	37.41	1.27	0.005
			side			754723	37.41	38.91	1.50	<0.005
			37.18-37.38: quartz-calcite lenses, irregular with pyrrhotite stringer	frac	55					
			along lower side							

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au(ppm)
			38.73-38.79: calcite-quartz with bleaching	frac	60	754724	38.91	40.43	1.52	<0.005
			40.80-49.66: massive flow			754725	40.43	41.93	1.50	<0.005
			46.15-46.35: weak bleaching			754726	41.93	43.43	1.50	0.005
			46.83-47.17:highly brecciated with calcite-quartz matrix, angular shards			754727	43.43	44.93	1.50	0.012
			of mafic metavolcanic			754728	44.93	46.43	1.50	<0.005
			47.17-49.66: occasional intervals highly fractured with hairline calcite			754729	46.43	47.93	1.50	0.005
			and bleached haloes o some fractures			754730	47.93	49.43	1.50	<0.005
			49.66-51.44: pillowed flow with interpillow space filled with calcite and			754731	49.43	50.93	1.50	<0.005
			irregular fractures with bleached haloes			754732	50.93	52.43	1.50	<0.005
			52.47-57.50: brecciated massive flow with calcite-quartz matrix and variable			754733	52.43	53.93	1.50	<0.005
			bleaching of fragments			754734	53.93	55.43	1.50	0.006
			50.00-58.00: photo of brecciated interval	shr	60	754735	55.43	56.93	1.50	0.006
			57.5-57.74: moderate biotite alteration, quartz stringers and trace to 2% very	shr	60	754736	56.93	57.49	0.56	0.01
			fine-grained pyrite			754737	57.49	57.79	0.30	0.094
			57.74-58.44: fragmental appears with pebble sized clasts			754738	57.79	58.44	0.65	0.058
			58.44-59.34: moderate to strong biotite alteration, well foliated to sheared; calcite-	shr	60	754739	58.44	59.34	0.90	0.162
			quartz stringers; fine-grained disseminated pyrite and pyrrhotite			754740	59.34	60.07	0.73	<0.005
			dark grey quartz stringer at 59.18-59.20							
			59.90-60.00: fp diorite	ct	55					
60.07	65.94	fp diorite	fine-grained weakly to moderately foliated, dark grey brown, biotite rich groundmass with			754741	60.07	61.57	1.50	<0.005
			subhedral, medium-grained white feldspar phenocrysts; trace very fine-gained disseminated			754742	61.57	63.07	1.50	<0.005
			pyrite	foln	55	754743	63.07	64.57	1.50	0.005
			63.83-63.88: biotite rich shear probably mafic metavolcanic xenolith	shr	50	754744	64.57	65.40	0.83	<0.005
			64.41-64.51: white quartz vein with fragments of diorite, trace very fine-grained	vn	60	754745	65.40	65.94	0.54	<0.005
			pyrite; possibly molybdenite or a specular hematite	shr	50	754746	standard SE-29			0.565
			65.78-65.84: biotite-rich shear probably xenolith of mafic metavolcanic	ct	60					
65.94	88.78	mafic metavolcanic	massive, aphanitic to fine-grained, dark green, massive to weakly foliated with occasional			754747	65.94	66.70	0.76	0.005
			medium to coarse grained subhedral feldspar, occasional hairline fractures with calcite;			754748	66.70	67.35	0.65	0.024
			intervals that may be either flowtop or bed of smaller pillows with interpillow quartz-calcite			754749	67.35	68.85	1.50	<0.005
			66.72-66.92: moderate biotite alteration, weakly sheared, quartz-calcite stringers	shr	45	754750	68.85	70.00	1.15	0.005
			67.00-67.33: interpillow quartz-calcite with trace to 1% fine-grained pyrrhotite			754751	70.00	70.38	0.38	<0.005
			68.00-68.04: irregular quartz-calcite			754752	70.38	71.88	1.50	<0.005
			68.75-68.80: minor ground core			754753	71.88	72.27	0.39	<0.005
			70.03-70.07: interpillow calcite-quartz with trace stringer of pyrrhotite			754754	72.27	73.77	1.50	<0.005
			72.15-72.18: quartz-calcite vein with coarse-grained chlorite	vn	30	754755	73.77	74.77	1.00	<0.005
			72.93-73.02: interpillow quartz-calcite			754756	74.77	75.54	0.77	0.006
			73.02-78.18 : amygdaloidal pillowed flow with minor bleaching along irregular fractures			754757	75.54	77.04	1.50	0.006
			and around amygdules			754758	77.04	78.54	1.50	<0.005
			74.77-75.52: highly fractured with quartz-calcite matrix, minor biotite			754759	78.54	79.13	0.59	<0.005
			and 5-10% disseminated fine-grained garnet			754760	79.13	79.88	0.75	<0.005
			79.16-79.37: interpillow quartz-calcite			754761	79.88	81.21	1.33	<0.005
			80.15-80.20: minor ground core			754762	81.21	81.75	0.54	0.015
			81.27-81.37: quartz-epidote vein	vn	40	754763	81.75	83.25	1.50	<0.005

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au(ppm)
			83.19-83.27: interpillow quartz-calcite			754764	83.25	84.00	0.75	<0.005
			84.11-84.17: quartz-epidote vein	vn	75	754765	84.00	84.30	0.30	<0.005
			84.48-85-81: brecciated with hairline calcite fracture-fill/matrix			754766	84.30	85.80	1.50	<0.005
			85.04-85.14: strongly bleached epidote altered			754767	85.80	86.15	0.35	0.006
			86.00-86.10: strong, coarse-grained epidote alteration			754768	86.15	87.65	1.50	<0.005
			87.56-87.60: interpillow quartz-calcite			754769	87.65	88.78	1.13	<0.005
88.78	90.46	bt diorite	fine-grained weakly to moderately foliated, dark grey brown, biotite rich groundmass	ct	55	754770	88.78	90.46	1.68	0.015
			trace very fine-gained disseminated pyrite; fine-grained biotite grains/porphyroblasts	foln	40	754771	standard HiSiK2			3.55
90.46	97.97	mafic metavolcanic	massive, aphanitic to fine-grained, dark green, massive to weakly foliated with occasional	ct	35	754772	90.46	91.96	1.50	0.01
			medium to coarse grained subhedral feldspar, occasional hairline fractures with calcite;			754773	91.96	93.46	1.50	<0.005
			intervals that may be either flowtop or bed of smaller pillows with interpillow quartz-calcite			754774	93.46	94.96	1.50	<0.005
			95.69-95.75: quartz-feldspar-calcite, epidote after feldspar, trace pyrrhotite			754775	94.96	95.69	0.73	<0.005
			96.17-96.54: quartz-calcite with epidote-garnet fragments in a brecciated			754776	95.69	96.54	0.85	0.01
			interpillow space with 1-2% fine-grained pyrrhotite disseminated							
			to fine stringers							
			96.54-96.72: strong bleaching, epidote alteration, and epidote along fine fracture			754777	96.54	97.29	0.75	<0.005
			subparallel to CA							
			97.3-97.96: strong bleaching, epidote alteration along pillow selvage			754778	97.29	97.97	0.68	0.009
			97.58-97.74: interpillow quartz-calcite with minor epidote and trace							
			to 1% fine-grained pyrrhotite							
97.97	101.77	bt diorite	fine-grained weakly to moderately foliated, dark grey brown, biotite rich groundmass	ct	40	754779	97.97	99.47	1.50	<0.005
			trace very fine-gained disseminated pyrite; fine-grained biotite grains/porphyroblasts	ct	55	754780	99.47	100.97	1.50	<0.005
			20 cm medium-grain at the top of the sill - more feldspar-rich			754781	100.97	101.77	0.80	0.007
101.77	146.04	mafic metavolcanic	massive, aphanitic to fine-grained, dark green, massive to weakly foliated with occasional			754782	101.77	102.49	0.72	0.005
			medium to coarse grained subhedral feldspar, occasional hairline fractures with calcite;			754783	102.49	102.89	0.40	<0.005
			intervals that may be either flowtop or bed of smaller pillows with interpillow quartz-calcite							
			102.54-102.61: quartz-calcite vein with epidote-garnet, trace to 1% pyrrhotite	vn	30	754784	102.89	104.39	1.50	0.006
			103.18-103.40: interpillow quartz-calcite with fragments of metavolcanic			754785	104.39	105.89	1.50	<0.005
			and trace pyrrhotite			754786	105.89	107.39	1.50	0.01
			103.98-104.27: interpillow quartz-calcite with fragments of interpillow hyaloclastite			754787	107.39	108.89	1.50	0.008
			and trace pyrrhotite			754788	108.89	110.11	1.22	0.012
			110.11-110.96: sheared, moderate biotite alteration, quartz-calcite stringers	shr	60	754789	110.11	110.96	0.85	0.006
			along shear, trace fine-grained pyrite-pyrrhotite			754790	110.96	112.46	1.50	0.016
			112.83-112.91: shear with quartz-calcite, chlorite-epidote alteration, hairline	shr	35	754791	112.46	113.30	0.84	0.01
			stringer of pyrrhotite			754792	113.30	114.24	0.94	0.014
			113.17-116.64: variably sheared to well foliated, moderate to strong biotite			754793	114.24	115.74	1.50	0.018
			alteration; stringer of quartz-calcite; trace to 1% pyrrhotite-pyrite	foln	50	754794	115.74	116.64	0.90	0.01
			as stringers to disseminated			754795	116.64	118.14	1.50	0.02
			117.08-117.56: variably sheared-well foliated with stringers of quartz-calcite			754796	standard SH-35			1.43
			117.90-118.20: highly broken core - some grinding			754797	118.14	119.24	1.10	0.02
			119.15-119.24: irregular white to grey quartz with fragments of wallrock; trace			754798	119.24	120.83	1.59	0.021
			pyrite-pyrrhotite			754799	120.83	122.33	1.50	0.012
			120.83-124.21: moderate to highly fractured, possibly some flowtop intervals			754800	122.33	123.77	1.44	0.049

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au(ppm)
			with fine to hairline quartz-calcite fracture-fill, and occasional stringers							
			of pyrrhotite-pyrite			754801	123.77	124.66	0.89	0.014
			124.66-125.23: moderate to strong biotite alteration, moderate to strong foliation/			754802	124.66	125.23	0.57	0.132
			shearing with fine stringers of quartz/calcite; 2-3% very fine-grained	shr	50					
			disseminated to stringer pyrrhotite-pyrite							
			125.23-127.26: as between 120.83-124.21			754803	125.23	126.73	1.50	0.025
			126.17-126.4: weak biotite alteration and weak shearing	foln	40					
			127.26-129.77: highly fractured, moderate to well foliated/sheared; stringers of							
			calcite/quartz; trace to 1% fine-grained disseminated pyrrhotite			754804	126.73	128.00	1.27	0.021
			variable biotite alteration - moderate to weak	foln	30	754805	128.00	128.48	0.48	1.54
			128.17-128.23: 40% fine-stringer pyrite-pyrrhotite			754806	128.48	129.77	1.29	0.151
			128.17: photo of 40% stringer pyrite-pyrrhotite			754807	129.77	131.15	1.38	0.018
			129.77-131.15: massive to weakly foliated, medium-grained, feldspar and chlorite	ct	40	754808	131.15	132.40	1.25	0.005
			appears to be a mafic/gabbro dyke			754809	132.40	132.86	0.46	<0.005
			131.15-132.86: moderately well foliated, medium to fine-grained mafic - possibly			754810	132.86	134.02	1.16	0.005
			a bt diorite but could be a massive flow; trace to 2% very fine-grained	foln	40	754811	134.02	134.96	0.94	0.053
			disseminated to stringer pyrrhotite-pyrite			754812	134.96	135.81	0.85	0.054
			132.86-134.02: massive flow with irregular medium-grained gabbro patches			754813	135.81	137.31	1.50	<0.005
			134.02-135.80: variably altered, weak to intense , brecciated with fine stringers of			754814	137.31	137.61	0.30	<0.005
			quartz-calcite, disseminated to stringer pyrrhotite up to 3%	foln	50	754815	137.61	139.11	1.50	0.012
			135.03-135.07: 40% stringer pyrite-pyrrhotite			754816	139.11	140.61	1.50	<0.005
			136.64-137.00: 0.5-1.0 cm quartz-calcite veinlets	vn	70	754817	140.61	142.05	1.44	0.007
			137.53-137.6: irregular quartz-calcite with trace to 1% fine-grained pyrrhotite			754818	142.05	142.70	0.65	<0.005
			142.05-142.10: ferruginous chert - medium to light grey possibly interflow	ct	55	754819	142.70	144.20	1.50	0.012
			142.76-145.79: occasional white to light grey 0.5 to 2.0 cm quartz-calcite veins	vn	65	754820	144.20	145.55	1.35	0.005
			generally 60-70 deg to CA			754821	standard SH-35			1.43
			145.79-146.04: moderate bleaching to a medium grey brown			754822	145.55	146.04	0.49	0.005
146.04	147.35	fp diorite	fine-grained weakly to moderately foliated, dark grey brown, biotite rich groundmass with	ct	30	754823	146.04	147.35	1.31	<0.005
			subhedral, medium-grained white feldspar phenocrysts; trace very fine-grained disseminated	ct	35					
			pyrite							
147.35	163.63	mafic metavolcanic	massive, aphanitic to fine-grained, dark green, massive to weakly foliated with occasional			754824	147.35	148.91	1.56	0.006
			medium to coarse grained subhedral feldspar, occasional hairline fractures with calcite;							
			145.79-146.04: moderate bleaching to a medium grey brown, hairline calcite							
			148.91-149.48: strong bleaching to a medium grey brown with fragmental			754825	148.91	150.41	1.50	0.006
			appearance and chlorite rich matrix							
			149.77-149.90: chlorite-quartz-calcite alteration to light grey-green- sharp contacts	vn	40					
			150.04-150.08: ferruginous chert, medium grey	ct	40					
			150.44-151.60: weak to moderate biotite alteration, with interpillow intervals			754826	150.41	151.91	1.50	<0.005
			containing strongly bleached fragments to a medium-light grey-brown			754827	151.91	153.41	1.50	<0.005
			with associated quartz-calcite			754828	153.41	154.91	1.50	0.008
			152.66-152.70: quartz-calcite veinlet: irregular lower contact	vn	65	754829	154.91	156.41	1.50	0.01
			152.70-156.40: hairline quartz/calcite stringers; intervals up to 5 cm brecciated			754830	156.41	157.00	0.59	0.008
			to weakly foliated intervals with quartz-calcite and minor biotite	foln	50					

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au(ppm)
			trace to 1% fine-grained disseminated pyrrhotite-pyrite							
			157.15-157.29: fragments of banded chert and ferruginous chert, medium to dark grey to	ct	50	754831	157.00	157.77	0.77	0.011
			white with variable magnetite; trace to 1% fine-grained pyrrhotite			754832	157.77	159.27	1.50	0.008
			157.87-157.90: moderate calcite-quartz alteration			754833	159.27	160.77	1.50	<0.005
			160.19-160.22: chlorite-calcite alteration with trace to 1% fine-grained stringer			754834	160.77	161.37	0.60	0.006
			pyrrhotite; 70-80 deg to CA							
			161.21-161.34: interpillow space: minor bleaching to medium grey-brown; chlorite			754835	161.37	162.87	1.50	0.005
			alteration; quartz-calcite and ferruginous chert space filling with trace			754836	162.87	163.63	0.76	<0.005
			pyrrhotite							
163.63	165.70	fp diorite	fine-grained weakly to moderately foliated, dark grey brown, biotite rich groundmass with	ct	50	754837	163.63	165.00	1.37	<0.005
			subhedral, medium-grained white feldspar phenocrysts; trace very fine-grained disseminated	foln	55	754838	165.00	165.70	0.70	<0.005
			pyrite; feldspar irregularly distributed with some intervals lacking phenocrysts	ct	50	754839	165.70	167.20	1.50	<0.005
165.70	172.30	mafic metavolcanic	massive, aphanitic to fine-grained, dark green, massive to weakly foliated with occasional			754840	167.20	168.70	1.50	0.015
			medium to coarse grained subhedral feldspar, occasional hairline fractures with calcite;			754841	168.70	170.20	1.50	0.005
			167.07-168.80: interpillow space with quartz-calcite filling, moderate chlorite			754842	170.20	171.50	1.30	<0.005
			alteration			754843	171.50	172.30	0.80	<0.005
			169.70-170.26: interpillow space with quartz-calcite filling			754844	172.30	173.80	1.50	<0.005
172.30	176.00	fp diorite	fine-grained weakly to moderately foliated, dark grey brown, biotite rich groundmass with	ct	30	754845	173.80	175.30	1.50	<0.005
			subhedral, medium-grained white feldspar phenocrysts; trace very fine-grained disseminated	foln	35	754846	standard SE-29			0.616
			pyrite			754847	175.30	176.00	0.70	<0.005

Project	Claim	4221722	Depth	Az.	Dip	Survey Type	Start Date:	Aug. 25, 2009	Hole #	**TL09-003**
Thorne Lake	Core Size:	BQ	0	20	-50		End Date:	Aug. 26, 2009		
Units: M	UTM_N	6044176	12	13.1	-49.4	Reflex	Logged by:	T. Hart		
	UTM_E	586628	51	22.4	-49.4	Reflex				
Drilling Contractor:	Elev.	200	102	31.4	-50.3	Reflex	Final Depth	150.00		
Bradley			150	28.4	-50	Reflex	Date Logged:	Aug. 26, 2009		
location: up ice of the 3 sample dispersal train SW of the 914 vein										
comment:										

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au
0.00	3.13	casing				754848	3.13	4.63	1.50	0.01
3.13	37.33	quartz diorite	medium grained, weakly to moderately foliated, feldspar, biotite and minor quartz with trace			754849	4.63	6.13	1.50	<0.005
			disseminated pyrite; occasional more mafic sheared/well foliated intervals; occasional	foln	40	754850	6.13	7.63	1.50	<0.005
			quartz veinlets			754851	7.63	9.00	1.37	<0.005
			4.00: 0.1 cm quartz chlorite stringer, trace pyrite	vn	30	754852	9.00	9.40	0.40	<0.005
			6.35: rusty fracture	frac	50	754853	9.40	10.90	1.50	<0.005
			7.31-7.38: more mafic/chlorite rich	foln	40	754854	10.90	12.00	1.10	<0.005
			7.38-7.41: more felsic- feldspar rich			754855	12.00	12.55	0.55	<0.005
			9.16-9.33: bleached margins to a 0.25 cm light grey quartz-chlorite stringer with	str	25	754856	12.55	14.05	1.50	<0.005
			trace to1% fine-grained disseminated pyrite			754857	14.05	15.12	1.07	<0.005
			9.80: chlorite-quartz-pyrrhotite fracture fill	frac	15	754858	15.12	16.27	1.15	<0.005
			10.33: chlorite-quartz-pyrrhotite fracture fill	frac	20	754859	16.27	17.00	0.73	<0.005
			10.65-11.0: moderate chlorite alteration			754860	17.00	18.00	1.00	0.007
			11.19: chlorite-quartz-pyrrhotite fracture fill			754861	18.00	18.40	0.40	0.007
			12.10-12.31: bleached margins to a 0.5 cm chlorite-quartz fracture fill pink to white	frac	20	754862	18.40	19.90	1.50	<0.005
			with 1% disseminated coarse grained pyrite			754863	19.90	21.00	1.10	<0.005
			14.85-15.70: patchy moderate chlorite alteration			754864	21.00	21.81	0.81	0.006
			16.78-16.97: chlorite-quartz lenses subparallel to CA			754865	21.81	22.34	0.53	0.023
			18.00-18.25: moderate to strong chlorite alteration associated 0.25 cm light grey	foln	50	754866	22.34	23.84	1.50	<0.005
			quartz stringer; trace pyrite			754867	23.84	25.34	1.50	<0.005
			21.80-21.90: strong chlorite alteration, sheared	shr	30	754868	25.34	26.84	1.50	<0.005
			22.21: irregular light grey quartz lens with chlorite, trace to 1% fine-grained	frac	25	754869	26.84	28.00	1.16	0.007
			disseminated pyrite			754870	28.00	29.00	1.00	0.022
			25.78: irregular light grey quartz lens with chlorite	frac	35	754871	standard HiSiK2			3.51
			25.95-26.10: strong chlorite alteration	shr	40	754872	29.00	30.00	1.00	0.006
			26.50: open fracture with minor grinding	frac	45	754873	30.00	30.43	0.43	<0.005
			27.16: 0.1 cm quartz stringer with chlorite	vn	35	754874	30.43	31.93	1.50	0.012
			28.25: open fracture with minor grinding: minor bleaching along lower contact	frac	55	754875	31.93	33.43	1.50	<0.005
			29.48: 8 cm ground core	flt	55	754876	33.43	34.20	0.77	0.006
			30.10-30.11: white quartz stringer	str	35	754877	34.20	35.20	1.00	<0.005
			30.40: chlorite rich fracture with fine quartz stringer and trace very fine-gained			754878	35.20	36.60	1.40	0.027
			pyrite			754879	36.60	37.25	0.65	0.007
			30.47-30.90: highly fractures, minor pink alteration	flt	50					
			30.83-30.89 fault gouge							
			32.12-32.45:highly fractured broken core with minor muddy seams							
			33.69-33.74: chlorite shear	shr	60					
			34.02-34.09: chlorite shear	shr	50					

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au
			35.16-35.46: biotite-chlorite-carbonate shear possibly a fragment of metavolcanic	shr	50					
			35.46-37.22; moderate chlorite alteration, irregular 0.1 cm quartz stringers							
			subparallel to CA with associated moderate epidote alteration							
37.33	44.00	mafic metavolcanic	fine to very fine-grained, well foliated, dark green-brown to moderately foliated and less			754880	37.25	38.75	1.50	0.082
			biotite altered towards the base of the interval							
			37.22-38.86: moderate to strong epidote alteration of highly fractured metavolcanic							
			37.81-37.82: 2-3% disseminated fine-grained pyrite along foliation	foln	55					
			38.16-38.18: 2-3% disseminated fine-grained pyrite							
			38.32-38.65: well foliated or possibly bedded dark to medium grey, siliceous with	foln	35					
			1-2% fine-grained pyrite along some foliation planes			754881	38.75	39.54	0.79	0.094
			38.86-39.54: siliceous, biotite rich well foliated with 3-5% fine-grained disseminated	foln	35	754882	39.54	40.00	0.46	<0.005
			pyrite			754883	40.00	40.40	0.40	0.074
			39.54-40.00: quartz diorite to fp diorite as above	ct	40	754884	40.40	41.90	1.50	0.005
			40.00-40.10: well foliated with 3-5% fine-grained pyrite	foln	45	754885	41.90	43.00	1.10	<0.005
			40.10-42.90: strongly foliated/sheared, strong biotite-chlorite alteration			754886	43.00	44.00	1.00	0.018
44.00	47.50	quartz diorite	medium grained, weakly to moderately foliated, feldspar, biotite and minor quartz with trace	ct	30	754887	44.00	45.30	1.30	<0.005
			disseminated pyrite; occasional more mafic sheared/well foliated intervals; occasional			754888	45.30	45.70	0.40	<0.005
			quartz veinlets			754889	45.70	47.50	1.80	<0.005
			45.54-45.55: white to light grey quartz veinlet with trace fine-grained pyrite	vn	25					
			47.20-47.50: disjointed fragments of aplite along an irregular lower contact			754890	47.50	49.00	1.50	0.018
			aplite is an aphanitic, light grey to pinkish grey 2-3cm wide at a low CA			754891	49.00	49.55	0.55	<0.005
47.50	51.36	mafic metavolcanic	well foliated to sheared; dark green to brown, variably biotite altered with occasional	foln	40	754892	49.55	49.95	0.40	<0.005
			stringers of carbonate; trace very fine-grained disseminated pyrite			754893	49.95	51.36	1.41	0.006
51.36	75.09	gabbro	fine-grained, weakly foliated, dark grey brown to green, variably biotite altered, lack of foliation	ct	30	754894	51.36	51.81	0.45	0.015
			could represent a massive flow but no obvious flowtops	ct	45	754895	51.81	52.81	1.00	<0.005
			51.36-51.81: bt diorite, fine-grained, weakly foliated, dark grey brown with 1%			754896	standard SE-29			0.595
			fine-grained disseminated pyrite			754897	52.81	54.00	1.19	0.012
			54.00-54.20: fracturing subparallel to CA			754898	54.00	55.56	1.56	0.007
			55.60-57.00: fractures subparallel to CA with stringer quartz-carbonate stringers			754899	55.56	57.00	1.44	0.011
			trace to1% fine-grained disseminated pyrite			754900	57.00	58.50	1.50	0.007
			61.43: quartz-epidote veinlet	vn	25	754901	58.50	60.00	1.50	<0.005
			71.33-71.37: biotite-chlorite shear with0.5 cm quartz veinlet	vn	35	754902	60.00	61.21	1.21	<0.005
			74.68: quartz-carbonate stringer along shear	shr	25	754903	61.21	61.60	0.39	<0.005
75.09	79.36	mafic metavolcanic	fine-grained to very fine-grained, dark green to grey green, probably massive mafic			754904	61.60	63.10	1.50	<0.005
			metavolcanic flow; with 10-20 cm slightly coarser-grained intervals			754905	63.10	64.60	1.50	<0.005
			75.38-75.43: light to medium grey quartz vein with chlorite fragments and trace	vn	50	754906	64.60	66.10	1.50	0.005
			fine grained disseminated pyrite in the wallrock			754907	66.10	67.60	1.50	<0.005
			75.66-75.68: light to medium grey quartz vein with	vn	80	754908	67.60	69.10	1.50	<0.005
			76.10-76.25: well foliated/sheared with strong biotite alteration, stringers of quartz			754909	69.10	70.50	1.40	<0.005
			2-3% fine-grained disseminated pyrite	shr	50	754910	70.50	71.17	0.67	<0.005
79.36	83.58	fp diorite	medium grey, weakly foliated, with a fine to very fine-grained groundmass and medium-grained	ct	55	754911	71.17	71.47	0.30	<0.005
			disseminated white anhedral feldspar; resembles diorite in other holes rather than quartz			754912	71.47	72.97	1.50	<0.005
			diorite at the top of this hole; occasional intervals possibly fractures with chlorite/biotite			754913	72.97	74.56	1.59	<0.005
			alteration up to 1 cm wide; trace fine-grained disseminated sulphide; rare xenoliths			754914	74.56	75.09	0.53	<0.005
			of mafic metavolcanic	ct	70	754915	75.09	75.82	0.73	0.013

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au
			81.17: fracture with quartz-carbonate fill and chlorite alteration halo	frac	80	754916	75.82	76.28	0.46	0.011
83.58	91.23	mafic metavolcanic	very fine-grained to aphanitic, massive, dark grey green with occasional hairline carbonate/			754917	76.28	77.65	1.37	<0.005
			quartz stringers; occasional 10 cm intervals of fine-grained material of same composition			754918	77.65	79.00	1.35	0.008
			83.58-84.23: biotite rich shear, weakly silicified	shr	55	754919	79.00	79.36	0.36	<0.005
			90.34-90.45: medium-grained fp diorite, but indistinct contacts, possibly gabbroic			754920	79.36	80.86	1.50	<0.005
			phase of the mafic metavolcanic			754921	standard SN-38			8.48
			90.68-90.98: medium grained fp diorite	ct	55	754922	80.86	82.36	1.50	<0.005
91.23	94.41	fp diorite	medium grey, weakly foliated, with a fine to very fine-grained groundmass and medium-			754923	82.36	83.58	1.22	<0.005
			rained disseminated white anhedral feldspar; rare slightly coarser feldspar; trace fine-grained	ct	70	754924	83.58	84.23	0.65	0.111
			disseminated pyrite; biotite rich groundmass			754925	84.23	85.73	1.50	0.026
			91.65-91.92: biotite-rich shear with stringers of carbonate/quartz and 1-2%			754926	85.73	87.23	1.50	0.044
			fine-grained disseminated pyrite: possible metavolcanic xenolith	shr	45	754927	87.23	88.73	1.50	0.007
			91.87-91.88: medium grey quartz veinlet	vn	45	754928	88.73	90.34	1.61	0.005
			93.46-94.41: weakly sheared/foliated, moderate biotite/chlorite alteration	foln	45	754929	90.34	91.23	0.89	0.005
			trace fine-grained disseminated pyrite			754930	91.23	91.92	0.69	<0.005
94.41	95.61	mafic metavolcanic	very fine-grained to aphanitic, massive, dark grey green with occasional hairline carbonate/			754931	91.92	93.44	1.52	<0.005
			quartz stringers			754932	93.44	94.41	0.97	<0.005
			94.86-95.06: strongly sheared; strong biotite alteration; carbonate stringers	shr	45	754933	94.41	95.61	1.20	0.005
			94.96-94.99: white quartz-carbonate vein	vn	50	754934	95.61	96.50	0.89	0.027
95.61	150.00	gabbro	massive, medium to fine-grained, dark green to white, occasional 5-10 cm medium to coarse-			754935	96.50	98.00	1.50	<0.005
			grained intervals/pods; trace fine-grained disseminated pyrrhotite; occasional fracture with			754936	98.00	99.50	1.50	0.011
			stringer pyrrhotite-pyrite: irregularly distributed 3-5% medium-grained magnetite			754937	99.50	100.83	1.33	0.011
			95.61-96.50: 3-5% fine-grained disseminated pyrrhotite			754938	100.83	101.45	0.62	<0.005
			95.77-95.84: irregular aplite dykelet	dyke	30	754939	101.45	102.65	1.20	<0.005
			98.21-98.24: chlorite shear	shr	40	754940	102.65	103.28	0.63	<0.005
			99.04-99.09: chlorite shear with carbonate	shr	55	754941	103.28	104.40	1.12	<0.005
			100.85-101.45: fp diorite, siliceous, aphanitic with rare fine-grained white anhedral	ct	55	754942	104.40	105.20	0.80	<0.005
			feldspar phenocrysts	ct	45	754943	105.20	106.20	1.00	0.007
			103.28-105.20: occasional fractures with bleached margins, trace to 1% fine-grained			754944	106.20	107.70	1.50	<0.005
			pyrrhotite			754945	107.70	109.20	1.50	<0.005
			103.28-103.38: chlorite-biotite shear	shr	30	754946	standard SE-29			0.587
			104.46: chloritic fracture with stringer pyrrhotite	frac		754947	109.20	110.70	1.50	<0.005
			105.69-105.75: aplite dykelet with 10 cm chloritic breccia along upper contact	dyke	25	754948	110.70	112.20	1.50	<0.005
			107.21-107.23: chloritic shear	shr	50	754949	112.20	113.70	1.50	<0.005
			109.19-109.36: irregular aplite dykelet subparallel to CA			754950	113.70	115.20	1.50	<0.005
			110.54: aplite stringer	dyke	35	754951	115.20	116.70	1.50	<0.005
			111.55: aplite stringer	dyke	25	754952	116.70	118.60	1.90	<0.005
			114.00-114.09 pink aplite dyke	dyke	10	754953	118.60	119.00	0.40	<0.005
			114.35: chlorite fracture/shear	frac	50	754954	119.00	120.50	1.50	<0.005
			115.06: chlorite-carbonate fracture fill	frac	25	754955	120.50	122.00	1.50	0.005
			116.38-116.40: aplite dykelet	dyke	40	754956	122.00	123.50	1.50	<0.005
			116.43: chlorite-carbonate fracture fill - fracture subparallel to CA			754957	123.50	125.00	1.50	<0.005
			118.69-118.96: medium grey, aphanitic, siliceous dyke with indistinct contacts	ct	40	754958	125.00	125.50	0.50	0.011
			1% fine-grained disseminated pyrite			754959	125.50	126.30	0.80	0.005
			120.25-120.28: epidote altered aplite?	vn	40	754960	126.30	126.80	0.50	<0.005

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au
			121.75-121.77: quartz-carbonate-chlorite veinlet with trace pyrrhotite	vn	35	754961	126.80	128.30	1.50	<0.005
			121.95-122.15: highly fractured, irregular orientation, chloritic			754962	128.30	129.80	1.50	0.007
			123.97-124.04: strongly sheared chlorite-carbonate	shr	50	754963	129.80	131.30	1.50	0.006
			124.46-124.60: moderate to strong shear, chloritic,	shr	60	754964	131.30	132.50	1.20	<0.005
			124.88-125.45: strongly sheared, chlorite with moderate biotite; carbonate	shr	55	754965	132.50	133.00	0.50	<0.005
			quartz veining 125.21-125.33			754966	133.00	134.50	1.50	0.008
			129.00-129.04: chloritic shear with 0.25 cm aplite	shr	60	754967	134.50	136.00	1.50	<0.005
			131.45-131.46: aplite dykelet	dyke	50	754968	136.00	137.50	1.50	0.006
			131.77-132.05: highly fractured with chlorite-epidote alteration			754969	137.50	138.17	0.67	<0.005
			132.59-132.67: strongly sheared with carbonate-quartz stringers; strong chlorite	shr	25	754970	138.17	138.60	0.43	<0.005
			135.70-135.72: strong chlorite shear	shr	45	754971	standard SE-29			0.544
			136.36-136.37: pink aplite dykelet	dyke	60	754972	138.60	139.92	1.32	0.008
			137.17-137.25: irregular bleached zone - light green-pink with diffuse contacts			754973	139.92	140.43	0.51	0.028
			137.57: 0.5 cm light grey quartz veinlet	vn	70	754974	140.43	141.93	1.50	<0.005
			138.25-138.58: fp diorite- medium to dark grey aphanitic groundmass with rare			754975	141.93	143.43	1.50	0.008
			disseminated fine-grained white anhedral feldspar	ct	35	754976	143.43	144.93	1.50	0.024
			upper contact indistinct - sharp lower contact			754977	144.93	146.43	1.50	0.011
			140.06-140.18: irregular quartz carbonate veinlet; moderate biotite alteration	str	65	754978	146.43	147.93	1.50	<0.005
			141.34: chlorite shear	shr	30	754979	147.93	149.43	1.50	<0.005
						754980	149.43	150.00	0.57	<0.005

Project	Claim	4221722	Depth	Az.	Dip	Survey Type	Start Date:	Aug. 26, 2009	Hole #	TL09-004
Thorne Lake	Core Size:	BQ	0	20	-50		End Date:	Aug. 27, 2009		
Units: M	UTM_N	6044477	11	18.5	-49.5	Reflex	Logged by:	T. Hart		
	UTM_E	586360	50	20.7	-46.9	Reflex				
Drilling Contractor:	Elev.	198	101	25.2	-46.9	Reflex	Final Depth	176.00		
Bradley			152	30.3	-47	Reflex	Date Logged:	Aug. 26, 2009		
location: undercutting the 455 vein that returned 4.15 g Au/t										
comment:										

From	To	Lithology	Description	Structu	C.A.	number	from	to	Length	Au_ppm
0.00	1.89	casing				754981	1.89	2.20	0.31	0.032
1.89	2.20	fp diorite	light grey, fine-grained weakly foliated, with occasional medium grained white feldspar	ct	40	754982	2.20	2.90	0.70	0.011
			phenocrysts, and rare mafic xenoliths up to 1.5 cm			754983	2.90	3.78	0.88	0.018
2.20	2.90	gabbro	coarse-grained, moderately well foliated, white and green, subhedral feldspar	ct	50	754984	3.78	4.34	0.56	0.026
			ground core - estimated 80% recovery			754985	4.34	5.50	1.16	0.014
2.90	3.78	mafic metavolcanic	very fine-grained to aphanitic, weakly foliated, dark green			754986	5.50	6.70	1.20	0.01
			ground core - estimated 80% recovery			754987	6.70	7.60	0.90	0.008
			4.20-4.24: biotite rich shear with 0.5 cm light grey quartz	shr	35	754988	7.60	8.46	0.86	0.006
3.78	4.34	bt diorite	fine-grained, moderately foliated, dark to medium grey brown	ct	40	754989	8.46	9.50	1.04	0.008
4.34	17.94	gabbro	medium to coarse grained dark to medium grey green groundmass with irregular distributed			754990	9.50	10.52	1.02	<0.005
			coarse-grained anhedral to subhedral feldspar variably epidote altered			754991	10.52	11.00	0.48	0.032
			4.34-4.64: strongly sheared and chloritized, with bands of strong biotite alteration	shr	50	754992	11.00	12.50	1.50	<0.005
			4.64-7.57: moderate to weakly foliated; progressively less foliated down hole			754993	12.50	14.00	1.50	0.006
			moderate biotite alteration along foliated also decreasing downhole			754994	14.00	15.50	1.50	0.008
			6.43-6.48: fp diorite	dyke	50	754995	15.50	16.48	0.98	0.006
			7.60-8.46: fp diorite; minor epidote alteration along fractures	ct	25	754996	standard SE-29			0.602
				ct	35	754997	16.48	16.88	0.40	0.008
			10.56-10.91: fp diorite, nearly aplite; subparallel to CA			754998	16.88	17.51	0.63	0.157
			16.50-16.89: strongly shear, chloritic, minor carbonate stringers	shr	30	754999	17.51	17.94	0.43	1.005
			16.89-17.65: quartz veining with fragments/septa of aphanitic mafic, and 3-5%	vn	40	755000	17.94	18.94	1.00	0.033
			fine-grained pyrite associated with mafic fragments			755001	18.94	20.00	1.06	0.007
			17.50-17.75: moderate biotite alteration, silicification, and 3-5%			755002	20.00	20.41	0.41	0.007
			disseminated pyrite in fragment and wallrock			755003	20.41	21.00	0.59	0.006
17.94	40.87	mafic metavolcanic	very fine-grained to aphanitic, massive, dark green to grey green with occasional hairline			755004	21.00	21.40	0.40	0.005
			carbonate stringers along fractures			755005	21.40	22.90	1.50	0.005
			20.02-20.03: irregular quartz veinlet with trace pyrrhotite			755006	22.90	24.40	1.50	0.007
			20.20-20.24: quartz-carbonate veinlet with minor chlorite	vn	70	755007	24.40	24.90	0.50	0.008
			21.12-21.14: quartz veinlet with minor chlorite	vn	45	755008	24.90	26.18	1.28	<0.005
			22.69: 0.25 cm quartz veinlet	vn	80	755009	26.18	27.08	0.90	0.02
			24.90-26.18: bt diorite: fine-grained, massive biotite-rich, grey brown with chloritic	ct	30	755010	27.08	27.79	0.71	0.172
			alteration of metavolcanic along contacts			755011	27.79	29.29	1.50	0.011
			27.10-27.58: moderate biotite alteration, weakly foliated, carbonate stringers	str	35	755012	29.29	30.79	1.50	0.005
			27.58-27.79: coarse-grained gabbro with strong biotite alteration along upper	ct	40	755013	30.79	32.29	1.50	0.006

From	To	Lithology	Description	Structu	C.A.	number	from	to	Length	Au_ppm
			contact; irregular lower contact			755014	32.29	33.79	1.50	0.005
			29.98-30.02: chloritic shear	shr	45	755015	33.79	35.29	1.50	0.006
			33.84-33.85: chloritic-carbonate shear	shr	30	755016	35.29	36.99	1.70	0.007
			38.30-38.68: moderately well foliated; weak biotite alteration	foln	40	755017	36.99	38.68	1.69	0.009
			38.68-39.04: coarse-grained gabbro with moderate biotite alteration	ct	35	755018	38.68	39.04	0.36	0.014
			39.04-39.11: biotite-carbonate rich shear with 1-2% fine-grained pyrite	shr	30	755019	39.04	40.01	0.97	0.084
			40.01-40.87: fp diorite; fine-grained biotite rich groundmass with medium-grained	ct	60	755020	40.01	40.87	0.86	0.01
			white subhedral feldspar phenocrysts	ct	45	755021	standard SH-35			1.38
40.87	60.95	gabbro	coarse-grained anhedral feldspar in a fine-grained dark green groundmass of chlorite with			755022	40.87	42.37	1.50	0.009
			variable biotite alteration; occasional chlorite-carbonate filled fractures; trace blue quartz			755023	42.37	43.87	1.50	<0.005
			42.02-42.07: carbonate-chlorite vein	vn	35	755024	43.87	45.37	1.50	<0.005
			42.50-44.10:irregular carbonate-chlorite fracture fill at low angles to CA			755025	45.37	46.87	1.50	<0.005
			44.65-44.66: carbonate veinlet	vn	30	755026	46.87	48.28	1.41	0.006
			45.86: chlorite-carbonate fracture fill	frac	35	755027	48.28	48.85	0.57	0.008
			48.12-49.20: moderate biotite alteration			755028	48.85	50.35	1.50	<0.005
			48.28.48.42: irregular light grey quartz veinlet at low angle to CA			755029	50.35	51.85	1.50	0.009
			48.66.48.79: diorite- siliceous, aphanitic, medium grey with shearing	ct	45	755030	51.85	53.35	1.50	0.012
			of metavolcanic along contacts, trace-1% pyrite			755031	53.35	54.85	1.50	0.007
			51.25-51.38: chlorite-carbonate shear with weak biotite alteration	shr	35	755032	54.85	56.35	1.50	0.007
			52.90: chloritic shear	shr	25	755033	56.35	57.85	1.50	0.011
			57.01-57.02: white carbonate-quartz veinlet with bounding chlorite-carbonate shear	shr	30	755034	57.85	59.35	1.50	0.009
60.95	64.75	bt diorite	well foliated, medium to dark brown, biotite rich, possibly an altered and sheared mafic			755035	59.35	60.95	1.60	0.009
			metavolcanic or sediment; 2-3% fine-grained disseminated to stringer pyrite			755036	60.95	62.45	1.50	0.005
			61.15-61.18: light grey chert to ferruginous chert with minor chlorite	foln	60	755037	62.45	63.95	1.50	0.009
			62.97-62.99: light grey ferruginous chert	foln	55	755038	63.95	64.75	0.80	0.253
64.75	82.10	gabbro	coarse-grained anhedral feldspar in a fine-grained dark green groundmass of chlorite with			755039	64.75	65.42	0.67	0.078
			variable biotite alteration; occasional chlorite-carbonate filled fractures; trace blue quartz			755040	65.42	66.18	0.76	0.005
			64.75-65.05: moderately well foliated/sheared, bleached/epidote altered			755041	66.18	67.68	1.50	<0.005
			65.44-66.19:fp diorite, medium grey biotitic groundmass with medium grained	ct	45	755042	67.68	68.56	0.88	<0.005
			white anhedral feldspar phenocrysts			755043	68.56	68.93	0.37	<0.005
			68.58-68.80: well sheared, chlorite-carbonate alteration, moderate silicification	shr	45	755044	68.93	70.43	1.50	0.045
			possible fp diorite core; trace pyrite							
			69.39-69.58: strongly sheared, chlorite-carbonate alteration	shr	25					
			70.26-72.00: moderate irregular albitic alteration along fractures			755045	70.43	71.86	1.43	0.013
			70.65-70.66: chloritic shear	shr	45	755046	standard SN-38			8.71
			72.00-72.37: progressively stronger shearing, chlorite and carbonate alteration	shr	40	755047	71.86	72.37	0.51	0.021
			72.37-73.26::fp diorite, medium grey biotitic groundmass with medium grained			755048	72.37	73.26	0.89	1.18
			white anhedral feldspar phenocrysts; 1-2% fine-grained disseminated							
			pyrite			755049	73.26	73.66	0.40	0.066
			73.26-73.35: strong shear with carbonate-biotite alteration; trace pyrite	shr	40	755050	73.66	74.12	0.46	0.155
			73.66-73.89:fp diorite, medium grey biotitic groundmass with medium grained	ct	50	755051	74.12	75.63	1.51	0.008

From	To	Lithology	Description	Structu	C.A.	number	from	to	Length	Au_ppm
			white anhedral feldspar phenocrysts			755052	75.63	77.13	1.50	0.09
			73.89-74.12: moderately well sheared with moderate biotite alteration			755053	77.13	78.43	1.30	0.03
			79.12-79.34: fine-grained, mafic dyke	ct	45	755054	78.43	79.93	1.50	0.006
			81.57-82.1: variably sheared, moderately biotite altered, with carbonate-silica	shr	30	755055	79.93	81.49	1.56	<0.005
			bands that appear to be cored by ferruginous chert			755056	81.49	82.10	0.61	<0.005
82.10	83.86	ferruginous chert	medium grey, very fine-grained, massive to banded ferruginous chert with 0.25-3 cm bands			755057	82.10	83.86	1.76	0.011
			of gabbro, very fine-grained chloritized mafic, and chlorite-biotite altered mafic; trace fine-							
			grained disseminated pyrite							
83.86	86.95	fp diorite	light grey, fine-grained weakly foliated, with medium-grained white feldspar phenocrysts			755058	83.86	85.40	1.54	0.005
			,rare mafic xenoliths up to 1.5 cm, irregular contacts; some xenoliths upto to 15 cm with very	ct	25	755059	85.40	86.95	1.55	0.006
			irregular shapes							
86.95	91.77	gabbro	coarse-grained anhedral feldspar in a fine-grained dark green groundmass of chlorite with			755060	86.95	88.45	1.50	0.006
			variable biotite alteration; occasional chlorite-carbonate filled fractures; trace blue quartz							
			88.65-88.72: shear - chlorite-biotite altered, carbonate stringer; trace pyrite	shr	60	755061	88.45	89.95	1.50	0.005
			89.25- 89.43: highly fractured with hairline carbonate stringers							
			89.43-89.50: fractures with fault gouge	flt	40	755062	89.95	91.45	1.50	0.007
			91.66-91.77:strongly sheared and biotite altered	shr	55	755063	91.45	91.77	0.32	0.052
91.77	93.29	bt diorite	very fine-grained, medium grey brown to brown, moderately well foliated, lacking feldspar	foln	55	755064	91.77	92.61	0.84	0.124
			phenocrysts; 3-5% very fine-grained pyrite as stringers along foliation			755065	92.61	93.29	0.68	0.067
			92.0-92.57: fp diorite, fine-grained groundmass with medium-grained feldspar							
			phenocrysts, 3-5% fine-grained pyrite along foliation	ct	55					
93.29	93.67	gabbro	coarse-grained anhedral feldspar in a fine-grained dark green groundmass of chlorite with			755066	93.29	93.80	0.51	0.043
			variable biotite alteration; occasional chlorite-carbonate filled fractures; 1-2% pyrite			755067	93.80	94.29	0.49	0.012
93.67	93.80	fp diorite	light grey, fine-grained weakly foliated, with medium-grained white feldspar phenocrysts	ct	40					
			,rare mafic xenoliths up to 1.5 cm							
93.80	94.29	ferruginous chert	medium grey, very fine-grained, massive to banded ferruginous chert with 0.25-3 cm bands	foln	40					
			of gabbro, very fine-grained chloritized mafic, and chlorite-biotite altered mafic; trace fine-							
			grained disseminated pyrite							
94.29	111.42	gabbro	coarse-grained anhedral feldspar in a fine-grained dark green groundmass of chlorite with			755068	94.29	95.79	1.50	0.02
			variable biotite alteration; occasional chlorite-carbonate filled fractures;							
			94.67-95.00: highly fractured - some open - possibly fault			755069	95.79	96.45	0.66	0.007
			95.46-95.55: very broken core - probably some grinding			755070	96.45	96.84	0.39	0.678
			95.55-95.62: sheared and chloritized	shr	60	755071	standard SN-38			8.51
			96.53-96.55: carbonate veinlet along chlorite fracture; 1-2% fine-grained	frac	25					
			disseminated pyrite							
			96.55-96.75: 1-2% fine-grained disseminated pyrite			755072	96.84	98.11	1.27	0.032
			98.11-98.46: fine-grained, dark green- mafic dyke	ct	60	755073	98.11	98.46	0.35	0.025
			99.03-99.17: fine-grained, mafic dyke	ct	55	755074	98.46	100.20	1.74	0.01
			100.20-101.13: bt diorite dyke, biotite rich, fine-grained, dark green brown	ct	65	755075	100.20	101.13	0.93	0.018
			3-5% fine-grained disseminated pyrite along 5 cm band at upper contact			755076	101.13	102.50	1.37	0.023
			102.80-102.88: fine-grained dark green mafic dyke	ct	45	755077	102.50	103.18	0.68	0.01

From	To	Lithology	Description	Structu	C.A.	number	from	to	Length	Au_ppm
			103.18-104.58: increasing to a very strongly sheared,, strongly biotite-carbonate			755078	103.18	104.58	1.40	3.31
			altered with 2-3% fine-grained disseminated pyrite							
			104.58-105.38: progressively less sheared, less biotite and carbonate			755079	104.58	105.38	0.80	1.74
			106.84-107.03: strong shearing with biotite-carbonate alteration and 2-3% fine-	shr	40	755080	105.38	106.70	1.32	0.236
			grained disseminated pyrite			755081	106.70	107.10	0.40	0.234
			108.58-109.14: moderately well sheared/foliated, moderate biotite alteration	shr	55	755082	107.10	108.58	1.48	0.083
			carbonate stringers and trace to 1% fine-grained disseminated pyrite			755083	108.58	109.14	0.56	0.611
			109.14-111.42: very broken core, probably lost 20-30 cm			755084	109.14	110.50	1.36	0.02
			110.50-111.42: fp diorite dyke; medium grained, moderately well foliated	ct	60					
			biotite rich groundmass, with 2-3% fine-grained disseminated							
			pyrite							
			111.42-111.46: strongly sheared, strong biotite alteration, 1-2% pyrite	shr	50	755085	110.50	111.42	0.92	0.562
111.42	176.00	mafic metavolcanic	very fine-grained to aphanitic, medium green to grey green, moderately well foliated with			755086	111.42	112.32	0.90	0.47
			hairline stringers of carbonate; rare medium-grained white feldspar phenocrysts							
			occasional 0.25-0.5 cm intervals of strong biotite alteration with fine-grained garnet	ct	40	755087	112.32	113.61	1.29	0.016
			112.32-113.61: fp diorite, fine grained dark grey biotite rich groundmass with							
			medium-grained subhedral white feldspar	vn	15					
			112.80-112.85:light grey quartz veinlet with 1-2% pyrite and pyrrhotite	vn	75					
			113.40-113.45: light grey quartz vein	foln	60	755088	113.61	114.75	1.14	0.038
			113.61-114.75: 3-4 0.2 cm wide bands with fine-grained garnet: biotite alteration	ct	55	755089	114.75	115.27	0.52	0.011
			114.75-115.27: fp diorite, fine grained dark grey biotite rich groundmass with			755090	115.27	116.73	1.46	0.022
			medium-grained subhedral white feldspar	ct	40	755091	116.73	117.46	0.73	0.007
			116.73-117.46: fp diorite, fine grained dark grey biotite rich groundmass with							
			medium-grained subhedral white feldspar; very irregular lower contact							
			with fine dykelets of diorite in mafic metavolcanic	shr	57	755092	117.46	118.96	1.50	0.047
			117.46-124.65: occasional 0.20.05 cm wide biotite rich shears with carbonate							
			stringers 50-65 deg to CA	shr	65					
			118.27-118.29: biotite-carbonate shear	shr	50	755093	118.96	120.46	1.50	0.032
			118.80-118.95: biotite-carbonate shear	shr	60					
			119.43-119.47: biotite-carbonate shear	shr	60	755094	120.46	121.96	1.50	0.014
			120.46-120.55: siliceous-biotitic shear; possibly sheared dykelet	shr	50	755095	121.96	123.46	1.50	0.016
			121.90-121.94: biotite-carbonate shear	frac	55	755096	standard HiSiK2			3.53
			122.98-122.98: carbonate rich fracture	frac	50	755097	123.46	124.65	1.19	0.028
			123.37-123.40: carbonate rich fracture with biotitic margins	foln	65	755098	124.65	125.70	1.05	0.11
			124.65-125.70: well foliated/sheared, strongly biotite-carbonate altered with			755099	125.70	127.20	1.50	0.008
			bands of light to medium grey ferruginous chert, trace to 1% fine-grained pyrite	foln	40	755100	127.20	128.70	1.50	0.012
			125.70-128.00: moderately well foliated with 0.25-0.5 cm biotite+/- garnet intervals			755101	128.70	130.15	1.45	<0.005
			130.03-130.16: irregular interflow ferruginous chert with fine-grained garnet and minor			755102	130.15	131.00	0.85	0.35
			biotite	shr	65	755103	131.00	132.23	1.23	0.269
			130.78-131.00: moderate carbonate-biotite alteration, moderately well shear/			755104	132.23	133.73	1.50	0.016
			foliated	foln	45	755105	133.73	135.53	1.80	0.011

From	To	Lithology	Description	Structu	C.A.	number	from	to	Length	Au_ppm
			131.67-131.78: irregular interflow ferruginous chert with fine-grained garnet and minor			755106	135.53	136.55	1.02	0.009
			biotite; trace to 1% fine-grained pyrrhotite			755107	136.55	138.05	1.50	0.491
			134.55-134.85: 1% fine-grained disseminated to blebby - amygdule fill pyrrhotite	foln	45	755108	138.05	139.55	1.50	0.011
			135.56-135.63: ferruginous chert with chlorite and minor carbonate	vn	45	755109	139.55	140.63	1.08	0.009
			136.51-136.53: quartz-carbonate veinlet with 3-5% fine-grained pyrrhotite in the			755110	140.63	141.25	0.62	0.012
			upper wallrock	vn	50	755111	141.25	142.80	1.55	0.014
			140.66-140.67: quartz-carbonate-epidote veinlet			755112	142.80	143.21	0.41	0.006
			140.87-141.25: irregular quartz-carbonate veinlet at low angle to CA			755113	143.21	144.05	0.84	0.007
			142.96-143.00: irregular quartz-carbonate vein with trace pyrite	frac	35	755114	144.05	145.65	1.60	0.008
			143.35-143.36: carbonate filled fracture	frac	35	755115	145.65	146.00	0.35	<0.005
			143.44-143.45: open space filled carbonate fracture	vn	50	755116	146.00	147.00	1.00	0.007
			143.81-143.89: quartz-carbonate-epidote vein	foln	45	755117	147.00	147.48	0.48	0.009
			145.86-145.91: ferruginous chert with sheared chloritic margins with trace pyrrhotite			755118	147.48	148.98	1.50	0.006
			147.15-147.24: well foliated, strong biotite alteration, carbonate stringers	foln	50	755119	148.98	150.48	1.50	0.007
			3-5% pyrrhotite as stringers along foliation			755120	150.48	151.60	1.12	0.017
			151.64-152.04: strongly silica and biotite alteration, strong shear adjacent to	shr	50	755121	standard SH-35			1.375
			quartz vein from 151.8-151.84; 2-3% fine-grained disseminated pyrite			755122	151.60	152.05	0.45	0.415
			152.04-176.00: irregular shape of carbonate veinlets, and orientation of carbonate filled			755123	152.05	153.25	1.20	0.018
			amygdules suggests a pillow flow sequence			755124	153.25	154.13	0.88	0.084
			154.19-154.49: strong silica, biotite alteration, sheared, strong carbonate	shr	30	755125	154.13	154.76	0.63	0.933
			light brown colour, possibly a shear fp diorite core			755126	154.76	155.56	0.80	0.091
			3-5% fine-grained disseminated pyrite							
			154.60-154.72: strong silica, biotite alteration, sheared, some intervals							
			are a light brown colour, possibly a shear fp diorite core							
			3-5% fine-grained disseminated pyrite							
			155.15-155.40: strong silica, biotite alteration, sheared, carbonate	shr	30					
			mixed with biotite, possibly a shear fp diorite core							
			3-5% fine-grained disseminated pyrite							
			155.50-155.52: light grey quartz vein with trace fine-grained pyrite	vn	35					
			and pyrrhotite; bounded by strongly shear biotite-							
			carbonated			755127	155.56	156.59	1.03	0.019
			155.52-156.57: irregular fracturing with carbonate, minor quartz and			755128	156.59	157.87	1.28	0.009
			trace to 1%fine-grained disseminated to stringer pyrrhotite			755129	157.87	158.80	0.93	0.011
			157.32-157.40: irregular carbonate interflow with trace to 1% stringer			755130	158.80	159.18	0.38	0.214
			pyrrhotite			755131	159.18	160.68	1.50	0.014
			157.87-159.18: fp diorite with medium grey brown groundmass, rare	ct	55	755132	160.68	162.18	1.50	0.007
			feldspar phenocrysts and biotite defining weak foliation			755133	162.18	163.68	1.50	0.006
			158.80-159.18: moderate shearing with moderate to			755134	163.68	165.18	1.50	0.006
			strong silica alteration; 3-5% fine-grained			755135	165.18	166.68	1.50	0.006
			disseminated pyrite			755136	166.68	168.18	1.50	0.007
			159.0-159.03 irregular white quartz veinlet	ct	55	755137	168.18	169.68	1.50	0.009

From	To	Lithology	Description	Structu	C.A.	number	from	to	Length	Au_ppm
			167.24-167.29: quartz-carbonate vein with minor biotite; irregular shape	shr	40	755138	169.68	171.00	1.32	0.016
			appears to be interpillow			755139	171.00	172.16	1.16	0.092
			172.18-172.50: well foliated/sheared, strong biotite-carbonate alteration	foln	40	755140	172.16	172.50	0.34	2.44
			strong silicification; 3-5% fine grained stringer pyrrhotite			755141	172.50	174.00	1.50	0.029
			175.20-175.47: strong carbonate-biotite alteration, chloritic alteration			755142	174.00	175.20	1.20	0.014
			,of wall rock, 3-5% fine-grained pyrrhotite; moderately			755143	175.20	175.47	0.27	0.352
			foliated			755144	175.47	176.00	0.53	0.045

Project	Claim	4221721	Depth	Az.	Dip	Survey Type	Start Date:	Aug. 27, 2009	Hole #	**TL09-005**
Thorne Lake	Core Size:	BQ	0	20	-50		End Date:	Aug. 30, 2009		
Units: M	UTM_N	6045317	12	30.5	-48.4		Logged by:	T. Hart		
	UTM_E	584908	51	31.3	-48.5					
Drilling Contractor:	Elev.	198	102	36.1	-48		Final Depth	174 m		
Bradley			150	38.8	-48		Date Logged:	Aug. 30, 2009		
location: undercutting the 472 vein that returned 1.225 g Au/t										
comment:										

NORTHERN SUPERIOR RESOURCES

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au
0.00	4.00	casing								
			2.00-3.50: bt diorite: weakly foliated to massive, medium-grained with biotite-rich groundmass			755145	2.00	3.50	1.50	<0.005
			3.50-4.00: mafic metavolcanic, moderately well foliated, possibly pillowed flow			755146	standard SE-29			0.593
4.00	53.30	mafic metavolcanic	dark green, very fine-grained to aphanitic variably foliated, rare medium to coarse-grained			755147	3.50	4.00	0.50	0.009
			subhedral feldspar phenocrysts, occasional shears with biotite-carbonate+/-silica alteration							
			4.00-7.16: moderate to highly broken core	foln	25	755148	4.00	4.56	0.56	0.009
			4.47-4.56: medium grey brown, siliceous, possibly diorite dyke or siliceous interpillow			755149	4.56	5.94	1.38	0.005
			4.67-4.71: quartz in epidote-chlorite shear	shr	50					
			4.93-5.0:carbonate fracture filling with strong biotite in adjacent wallrock	frac	15					
			5.45-5.58: siliceous, medium grey brown, possibly diorite dyke with 5 cm band	shr	20					
			of biotite-carbonate rich shear in the middle of the interval							
			5.95-6.30: moderate to strong biotite and epidote alteration, 2-3% fine-grained			755150	5.94	6.30	0.36	0.022
			disseminated pyrrhotite; 1 cm bleb with garnet							
			6.30-7.17: 65 cm of core			755151	6.30	6.80	0.50	<0.005
			6.56-6.8: strong biotite-carbonate alteration with carbonate stringers	shr	25					
			and 1-2% fine-grained disseminated pyrite-pyrrhotite			755152	6.80	8.18	1.38	<0.005
			7.17-7.93: moderate to strong biotite alteration with lower 30 cm							
			intense epidote alteration: 2-3% fine-grained pyrite-	shr	25					
			pyrrhotite as disseminations and hairline stringers							
			8.20-8.43: moderate to strong silicification, moderate biotite-carbonate			755153	8.18	8.96	0.78	0.228
			alteration, moderate s alteration, moderate shearing, 3-5% pyrrhotite-pyrite	shr	50					
			as stringers							
			8.39-8.42: quartz vein with 3-5% pyrite	vn	50					
			8.69-8.96: moderate to strong silicification, moderate biotite-carbonate							
			alteration, moderate shearing, 3-5% pyrrhotite-pyrite	shr	55					
			as stringers							
			8.96-9.38: diorite: siliceous, fine-grained, medium grey brown, moderately well	foln	55	755154	8.96	9.47	0.51	0.181
			foliated, trace o 1% disseminated pyrite	ct	50					
			9.10-9.16: white to light grey quartz vein with 3-5% fine-grained	vn	60					
			disseminated pyrite-pyrrhotite							
			9.19-9.20: white quartz veinlet with 1-2% pyrite in wallrock							
			9.44-9.47: white to light grey quartz with minor carbonate	vn	55					
			9.56-10.32: diorite: siliceous, fine-grained, medium grey brown, moderately well	ct	55	755155	9.47	10.14	0.67	0.162
			foliated, trace o 1% disseminated pyrite							
			10.14-10.32: 5-10% disseminated to stringer pyrrhotite-pyrite	foln	55	755156	10.14	10.46	0.32	0.393
			10.29-10.30: irregular white quartz veinlet along foliation							
			10.32-10.46: chlorite-biotite-carbonate altered shear							

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au
			10.46-11.80: fp diorite with a fine-grained siliceous biotite rich grey brown			755157	10.46	10.94	0.48	0.062
			groundmass with fine to medium-grained light grey, anhedral feldspar	foln	55					
			phenocrysts; weakly foliated							
			10.46-10.94: 1-2% fine-grained disseminated pyrite and quartz stringers							
			along foliated			755158	10.94	11.41	0.47	0.015
			11.41-11.72: 4 1 cm white quartz veinlets along foliated with 1-2% fine	vn	50	755159	11.41	11.80	0.39	0.086
			grained disseminated pyrite in the groundmass							
			11.80-12.51: bt diorite or possibly strongly biotite altered and sheared flow	foln	50	755160	11.80	13.05	1.25	0.115
			medium-grained, dark brown to grey, carbonate-biotite rich							
			12.51-12.80: well foliated moderately biotite-carbonate altered	foln	55					
			12.80-13.05: bt diorite as above							
			13.05-13.32: well foliated with bands of medium grey, fine-grained siliceous			755161	13.05	13.75	0.70	0.01
			ferruginous chert							
			13.23-13.25: bt diorite							
			13.75-15.73: strongly silicified, medium green grey, moderately well foliated	foln	35	755162	13.75	14.69	0.94	<0.005
			15.73-17.25: occasional bands of light grey ferruginous chert in a highly	shr	40	755163	14.69	15.73	1.04	<0.005
			variably silica-chlorite-carbonate altered sheared interval			755164	15.73	16.85	1.12	<0.005
			16.89-17.25: ferruginous chert			755165	16.85	17.25	0.40	<0.005
			17.85-18.67: strongly silicified, medium grey, very fine-grained, possibly a felsic			755166	17.25	17.86	0.61	<0.005
			dyke but no clear contacts			755167	17.86	18.67	0.81	<0.005
			18.67-19.78: weakly biotite alteration with numerous carbonate stringers	foln	30	755168	18.67	19.78	1.11	<0.005
			well foliated							
			19.78-19.91: strong biotite alteration, well foliated with carbonate stringers			755169	19.78	20.42	0.64	0.01
			20.24-20.34: quartz-carbonate patch, appears to be interpillow fill with 5-10%	frac	55	755170	20.42	21.92	1.50	<0.005
			fine-grained pyrrhotite-pyrite			755171	standard SH-35			1.31
			26.97-27.02: quartz vein with 1% medium-grained pyrrhotite	vn	65	755172	21.92	23.42	1.50	<0.005
			27.15-29.12: irregular fracture subparallel to CA with minor biotite-garnet rimming			755173	23.42	24.92	1.50	0.009
			29.06-29.12: interflow carbonate/quartz	frac	60	755174	24.92	26.82	1.90	<0.005
			30.13-30.15: interflow carbonate/quartz weak biotite alteration rim	frac	45	755175	26.82	27.19	0.37	<0.005
			36.20-36.3: chlorite alteration with deformed siliceous ferruginous chert - light grey green			755176	27.19	28.11	0.92	<0.005
			36.72-36.86: chlorite-carbonate shear with variably biotite alteration	shr	90	755177	28.11	29.12	1.01	<0.005
			37.77-38.03: interflow, carbonate-chlorite altered, moderate silicification; 6 cm	foln	40	755178	29.12	30.62	1.50	<0.005
			core of medium to light grey ferruginous chert			755179	30.62	32.12	1.50	<0.005
			38.30-38.32: interflow with ferruginous chert			755180	32.12	33.62	1.50	<0.005
			39.23-39.62: three 3 cm bands of interflow ferruginous chert			755181	33.62	34.70	1.08	<0.005
			39.62-43.00: fragmental appearance, well foliated, variably silcified with light grey	foln	50	755182	34.70	35.85	1.15	<0.005
			green bands of quartz-carbonate-chlorite			755183	35.85	36.32	0.47	<0.005
			42.76-43.00: moderate biotite alteration			755184	36.32	36.89	0.57	<0.005
			43.01-43.05; 43.09-43.12: quartz veins, light grey some with irregular outlines and	vn	55	755185	36.89	37.75	0.86	<0.005
			3-5% stringer pyrrhotite and strong biotite alteration of adjacent wallrock			755186	37.75	38.09	0.34	<0.005
			40.12-44.50: moderately well foliated, strong biotite-carbonate alteration, trace to	foln	50	755187	38.09	39.22	1.13	<0.005
			5% disseminated to stringer pyrrhotite			755188	39.22	39.64	0.42	<0.005
			43.43-43.49: chlorite-carbonate with fragments of ferruginous chert			755189	39.64	41.14	1.50	<0.005
			43.92-44.00: chlorite-carbonate mixed with ferruginous chert			755190	41.14	42.54	1.40	<0.005
			44.07-44.17: brecciated appearance with light to medium grey quartz			755191	42.54	42.96	0.42	<0.005

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au
			44.32-44.35: light grey to white quartz vein with trace to 1% pyrrhotite	vn	35	755192	42.96	43.43	0.47	<0.005
			biotite-silica alteration of adjacent wallrock ~5 cm both sides			755193	43.43	44.00	0.57	<0.005
			45.26-45.60: irregular fracture possibly interflow with quartz/carbonate alteration			755194	44.00	44.57	0.57	0.005
			fragments of ferruginous chert and moderate epidote alteration			755195	44.57	45.26	0.69	<0.005
			towards the base; 2-3% disseminated pyrite-pyrrhotite throughout			755196	standard SE-29			0.591
			45.64-45.68: quartz-carbonate vein with 2-3% pyrite-pyrrhotite along margins	vn	40	755197	45.26	45.78	0.52	<0.005
			46.63-47.14: ferruginous chert in a matrix of chlorite-carbonate altered			755198	45.78	46.63	0.85	<0.005
			mafic metavolcanic; with 1-2% fine-grained disseminated pyrrhotite			755199	46.63	47.18	0.55	<0.005
			probably interpillow material			755200	47.18	47.81	0.63	<0.005
			47.14-47.72: strong biotite alteration; well foliated/sheared; 1% disseminated pyrrhotite	shr	55	755201	47.81	49.31	1.50	<0.005
			47.36-47.59: bt diorite or medium-grained diorite dyke with biotite			755202	49.31	50.50	1.19	<0.005
			shears within the dyke			755203	50.50	51.00	0.50	<0.005
			47.72-53.30: rare medium to very coarse-grained zoned feldspar phenocrysts			755204	51.00	51.91	0.91	<0.005
			49.43-49.46: strong biotite-rich shear, 2% stringer pyrrhotite	shr	55	755205	51.91	53.30	1.39	<0.005
			49.87-49.91: quartz matrix to breccia with tabular fragments and 2-3%			755206	53.30	54.80	1.50	<0.005
			pyrrhotite			755207	54.80	56.50	1.70	<0.005
			50.58-50.61 quartz vein	vn	40	755208	56.50	57.20	0.70	<0.005
			50.75-50.92: irregular quartz-carbonate veining subparallel to CA			755209	57.20	58.40	1.20	<0.005
			50.96-52.50: moderate epidote-chlorite bleaching with variably biotite			755210	58.40	59.50	1.10	<0.005
			alteration			755211	59.50	60.47	0.97	<0.005
			52.00-52.50: 2-3% fine-grained disseminated to patchy			755212	60.47	61.35	0.88	<0.005
			pyrrhotite			755213	61.35	62.60	1.25	<0.005
			52.50-53.30: aphanitic to fine-grained with 2-3% disseminated	foln	40	755214	62.60	63.06	0.46	<0.005
			pyrrhotite and 1-2% disseminated garnet			755215	63.06	64.56	1.50	<0.005
53.30	60.47	bt diorite	medium to fine grained, grey green to grey brown, moderately well foliated with medium-			755216	64.56	66.00	1.44	<0.005
			grained biotite and chlorite phenocrysts/porphyroblasts	foln	45	755217	66.00	66.31	0.31	<0.005
			56.50-58.40: 1-2% fine-grained disseminated pyrite	ct	30	755218	66.31	67.81	1.50	<0.005
60.47	129.68	mafic metavolcanic	fine-grained to aphanitic, moderately well foliated, medium to dark grey green with occasional			755219	67.81	69.00	1.19	0.007
			hairline carbonate stringer			755220	69.00	70.00	1.00	0.131
			62.60-63.04: 3-5 cm carbonate-chlorite fracture fill with chlorite fragments with			755221	standard HiSiK2			3.33
			chlorite alteration of wallrock			755222	70.00	71.27	1.27	0.006
			63.063-.04: ferruginous chert	ct	55	755223	71.27	72.77	1.50	0.006
			63.04-68.17: 2-3% medium to coarse-grained subhedral feldspar phenocrysts			755224	72.77	73.59	0.82	<0.005
			66.00-66.23: chlorite-carbonate alteration, sheared, trace fine-grained pyrite	shr	15	755225	73.59	75.09	1.50	<0.005
			68.20-68.35: moderate bleaching, epidote with strong biotite-silica alteration in two			755226	75.09	76.58	1.49	<0.005
			irregular patches			755227	76.58	77.00	0.42	<0.005
			70.04-71.27: irregular fracturing with quartz-carbonate matrix, some subrounded			755228	77.00	77.57	0.57	<0.005
			some jigsaw fragments; trace pyrite			755229	77.57	78.18	0.61	0.014
			72.00-72.09: light grey quartz possibly interflow/interpillow, 2-3% epidote			755230	78.18	79.20	1.02	0.012
			73.08-73.45: irregular quartz-carbonate with minor epidote and chlorite interflow			755231	79.20	80.24	1.04	0.035
			breccia?			755232	80.24	80.52	0.28	0.014
			76.59-76.90: moderate shearing, chlorite-biotite alteration; with 1 cm light grey			755233	80.52	81.00	0.48	0.09
			quartz vein in the core			755234	81.00	82.47	1.47	0.047
			77.57-77.70: highly fractured with 3-5% fracture fill pyrrhotite-pyrite			755235	82.47	83.23	0.76	0.009
			77.70-78.18: very fine-grained, siliceous, medium grey diorite dyke	ct	20	755236	83.23	84.45	1.22	0.006

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au
			77.78-77.8: quartz vein with 2-3% fine-grained pyrite	vn	50	755237	84.45	85.33	0.88	1.415
			77.78: chlorite-quartz fracture subparallel to CA2-3% pyrite			755238	85.33	86.33	1.00	0.012
			80.24-80.43: very fine-grained, siliceous, medium grey diorite dyke	ct	30	755239	86.33	87.40	1.07	<0.005
			80.49-80.50: light grey quartz veinlet	vn	60	755240	87.40	87.83	0.43	0.072
			80.67-80.76: strong shearing, strong biotite alteration, minor carbonate	shr	50	755241	87.83	88.55	0.72	0.031
			82.47- 83.21: moderate to strong biotite alteration, well foliated; possibly interflow			755242	88.55	90.00	1.45	0.006
			with lower 25 cm brecciated with carbonate matrix			755243	90.00	90.41	0.41	0.006
			83.21-84.10: carbonate-quartz-chlorite subparallel to CA with 1% coarse-grained			755244	90.41	91.28	0.87	<0.005
			pyrrhotite-pyrite			755245	91.28	92.28	1.00	<0.005
			84.45-85.33: bt diorite, dark grey brown, moderately foliated, with rare siliceous	foln	55	755246	standard SE-29			0.604
			bands			755247	92.28	93.35	1.07	0.007
			85.17-85.33: quartz-carbonate with 3-5% pyrrhotite-pyrite			755248	93.35	94.13	0.78	0.005
			87.40-87.83: moderately well sheared, strong biotite-carbonate alteration with			755249	94.13	94.96	0.83	<0.005
			0.25-0.5cm white quartz bands, 3-5% fine to coarse-grained pyrite and	shr	50	755250	94.96	95.62	0.66	<0.005
			pyrrhotite			755251	95.62	96.19	0.57	<0.005
			88.18-88.20: quartz-carbonate in biotitic fracture with 3-5% fine-grained pyrrhotite	frac	55	755252	96.19	96.89	0.70	<0.005
			89.62-89.67: irregular white to light grey quartz in interpillow space with 2% pyrrhotite			755253	96.89	98.39	1.50	0.007
			90.15-90.32: strong biotite alteration of margins to quartz-carbonate interpillow			755254	98.39	99.89	1.50	<0.005
			space fill with 3-5% fine-grained pyrrhotite			755255	99.89	101.39	1.50	<0.005
			90.87-91.28: quartz-chlorite stringers as a variety of angles to CA and 2-3%			755256	101.39	102.89	1.50	<0.005
			fine-grained pyrrhotite			755257	102.89	104.39	1.50	<0.005
			93.35-94.13: strongly sheared, moderate to strong biotite alteration, carbonate	shr	35	755258	104.39	105.89	1.50	0.005
			stringers, and intense quartz flooding 93.59-93.72 with 3-5% fine-grained			755259	105.89	107.39	1.50	<0.005
			pyrite and pyrrhotite			755260	107.39	108.89	1.50	<0.005
			94.13-94.96: bt diorite, fine to very fine-grained, light to medium grey brown	shr	45	755261	108.89	110.39	1.50	<0.005
			siliceous with fine carbonate bands, trace pyrite			755262	110.39	111.89	1.50	<0.005
			94.96-95.62: light to medium grey brown silicified mafic metavolcanic, possibly			755263	111.89	113.39	1.50	<0.005
			diorite but less foliated/sheared resembles mafic metavolcanic below			755264	113.39	114.89	1.50	<0.005
			95.62-96.19: well foliated, dark brown, siliceous, possibly shear diorite or silicified			755265	114.89	116.39	1.50	<0.005
			tuff/sediment; 2-3% very fine-grained disseminated pyrrhotite-pyrite			755266	116.39	117.89	1.50	<0.005
			96.19-96.62: irregular quartz interpillow space fill with 1% fine-grained pyrite			755267	117.89	119.39	1.50	<0.005
			97.80-98.26: irregular quartz interpillow space fill with 1% fine-grained pyrite			755268	119.39	120.89	1.50	<0.005
			105.20: carbonate-chlorite fracture	frac	20	755269	120.89	122.39	1.50	<0.005
			105.70: carbonate-chlorite fracture	frac	15	755270	122.39	123.89	1.50	<0.005
			108.45: muddy chlorite fracture	frac	20	755271	standard SN-38			8.42
			113.22-113.25: quartz-feldspar vein	vn	45	755272	123.89	125.39	1.50	0.009
			114.21:chloritic fracture subparallel to CA			755273	125.39	126.89	1.50	0.01
			119.40-119.42: carbonate fill fracture	frac	35	755274	126.89	128.39	1.50	0.008
			121.96-122.06: irregular band of strong biotite alteration			755275	128.39	128.88	0.49	<0.005
			123.57-123.69: minor ground core			755276	128.88	129.33	0.45	<0.005
			123.89-124.0 badly broken core - grinding			755277	129.33	129.68	0.35	<0.005
			126.00-126.47: highly broken core			755278	129.68	131.18	1.50	<0.005
			126.29: 1 cm chlorite-carbonate fracture fill with trace to1%pyrrhotite	flt	15	755279	131.18	132.50	1.32	<0.005
			126.85-126.90: quartz-carbonate-epidote vein with biotite alteration for 6 cm in	vn	30	755280	132.50	133.63	1.13	<0.005
			the footwall			755281	133.63	135.00	1.37	0.008

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au
			128.47-128.88: moderate biotite alteration			755282	135.00	136.30	1.30	<0.005
			128.88-129.33: strongly sheared, chlorite-carbonate alteration	shr	30	755283	136.30	136.82	0.52	<0.005
			129.33-129.68: aphantic, medium grey brown siliceous fine hairline carbonate-	frac	30	755284	136.82	138.00	1.18	<0.005
			chlorite fracture fill			755285	138.00	138.92	0.92	0.005
129.68	133.63	bt diorite	medium grained weakly foliated, biotite-rich, indistinct contacts			755286	138.92	139.32	0.40	<0.005
			131.27: muddy fracture			755287	139.32	140.82	1.50	<0.005
133.63	173.54	mafic metavolcanic	fine-grained to aphanitic, moderately well foliated, medium to dark grey green	flt	45	755288	140.82	142.39	1.57	0.007
			133.63-151.05 : variably patchy silicification to a light pinkish grey green with			755289	142.39	143.89	1.50	0.006
			carbonate fracture fill	frac	80	755290	143.89	145.39	1.50	<0.005
			135.76-135.79: white quartz and cherty			755291	145.39	146.89	1.50	<0.005
			136.76-136.80: irregular quartz fracture fill with 2-3% pyyrrhotite	frac	35	755292	146.89	148.39	1.50	<0.005
			139.10-139.13: quartz-carbonate fracture fill with 2-3% pyrrhotite			755293	148.39	149.89	1.50	0.005
			140.26-140.80: well sheared, carbonate-chlorite alteration	shr	25	755294	149.89	151.05	1.16	0.009
			141.00-141.36: very broken core, grinding, 1 cm carbonate chlorite seam	flt		755295	151.05	151.65	0.60	0.009
			146.92-146.97: light grey quartz vein	vn	30	755296	standard SH-35			NSS
			151.05-151.31: fp diorite - medium grey brown, biotite rich groundmass			755297	151.65	153.15	1.50	0.009
			with medium grained anhedral white feldspar phenocrysts			755298	153.15	154.65	1.50	0.005
			151.26-151.31: fault gouge			755299	154.65	156.15	1.50	0.006
			151.31-151.65: strong epidote-carbonate alteration			755300	156.15	157.65	1.50	<0.005
			153.66-154.21: well sheared, chloritic with epidote silicification of some fragments	shr	30	755301	157.65	159.15	1.50	<0.005
			154.21-155.70: moderately foliated, possibly a fragment metavolcanic	foln	55	755302	159.15	160.65	1.50	<0.005
			156.0-161.0: weakly foliated uniform medium grained			755303	160.65	162.15	1.50	<0.005
			161.00-174.00: irregular patchy silicification, bleaching/epidote-carbonate alteration			755304	162.15	163.25	1.10	<0.005
			pale grey green to brown green			755305	163.25	164.25	1.00	0.011
			159.00-159.02: chlorite-carbonate breccia - fine fragments	flt	50	755306	164.25	165.50	1.25	<0.005
			164.20-165.50: bt diorite, massive to very weakly foliated, biotite rich			755307	165.50	167.00	1.50	<0.005
			170.90-173.54: strong patchy chloritic-epidote with 1-3% very fine-grained			755308	167.00	168.50	1.50	<0.005
			disseminated pyrite			755309	168.50	170.00	1.50	<0.005
	174.00	bt diorite	medium to fine grained, grey green to grey brown, moderately well foliated with medium-			755310	170.00	170.90	0.90	<0.005
			grained biotite and chlorite phenocrysts/porphyroblasts; with 2-3% fine-grained			755311	170.90	172.00	1.10	<0.005
			disseminated pyrite			755312	172.00	173.54	1.54	0.009
						755313	173.54	174.00	0.46	<0.005

Project	Claim	4221721	Depth	Az.	Dip	Survey Type	Start Date:	Aug. 30, 2009	Hole #	**TL09-006**
Thorne Lake	Core Size:	BQ	0	187	-50		End Date:	Sept. 1, 2009		
Units: M	UTM_N	6045004	12	187.8	-46.4	Reflex	Logged by:	T. Hart		
	UTM_E	584395	51	188.7	-45.8	Reflex				
Drilling Contractor:	Elev.	201	99	192	-44.3	Reflex	Final Depth	175.40		
Bradley			150	180.1	-42.4	Reflex	Date Logged:	Aug. 31, 2009		

location: undercutting the gold in till anomaly with 161 pristine grain out of a total of 184 grains

comment:

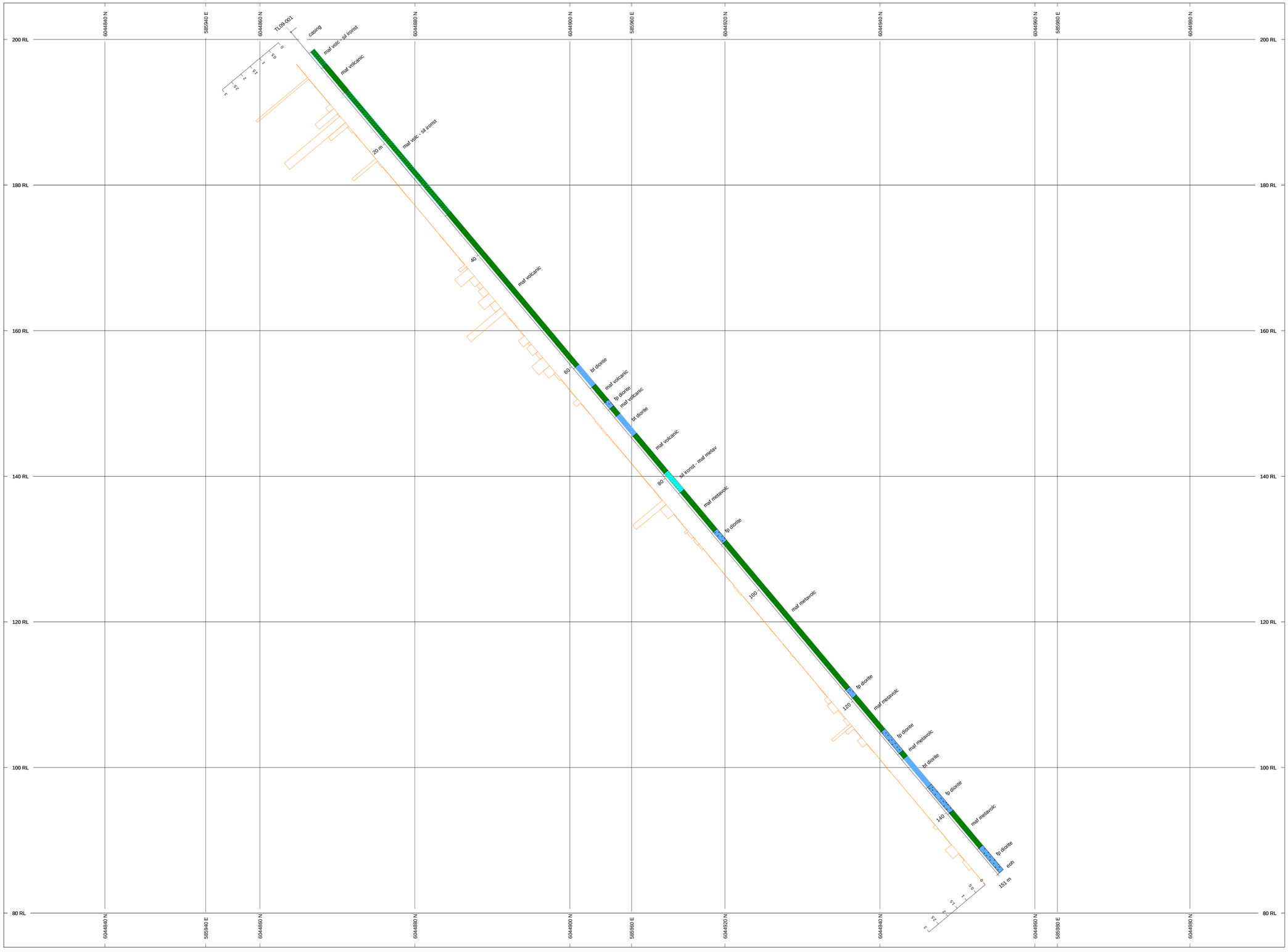
From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au_ppm
0.00	4.00	casing	0.00-2.00: overburden			755314	2.50	4.00	1.50	0.024
			2.00-4.00: medium-grained massive diorite			755315	4.00	5.50	1.50	0.005
4.00	62.62	diorite	massive to weakly foliated, medium grey to black with biotite-rich groundmass, variable			755316	5.50	6.58	1.08	0.012
			chlorite; occasional fractures with dark green black chlorite alteration; moderately magnetic			755317	6.58	7.98	1.40	0.038
			this unit could be classed as a gabbro but is finer grained less hornblende rich than the gabbro							
			in hole 3 and 5; this unit could be a border phase to the Ellard Lake intrusion							
			6.00-9.00 broken core - recovery moderate	vn	40	755318	7.98	9.32	1.34	0.016
			6.58: 0.5 cm rusty white quartz veinlet in muddy fracture			755319	9.32	10.75	1.43	0.013
			6.98-7.98: feldspar porphyritic diorite			755320	10.75	11.77	1.02	0.013
			7.98-9.32: fine to very fine-grained, medium grey green mafic with moderate foliation	foln	55	755321	standard SH-35			*1.415*
			9.32-10.75: feldspar porphyritic							
			11.77-11.93: fine-grained mafic	ct	80	755322	11.77	12.75	0.98	0.02
			12.75-13.25: fine-grained mafic	ct	55	755323	12.75	13.25	0.50	0.01
			13.15-13.17: white quartz-carbonate veinlet	vn	55	755324	13.25	14.15	0.90	0.018
			14.15-15.34: fine-grained mafic			755325	14.15	15.34	1.19	0.218
			14.85-14.91: strong silicification with 2-3% fine-grained disseminated	shr	60	755326	15.34	15.73	0.39	0.107
			pyrite			755327	15.73	16.70	0.97	0.015
			15.57-15.65: fine-grained mafic with 2-3% fine-grained pyrite	ct	45					
			16.33-16.60: fine to medium grained mafic resembles bt diorite in other holes							
			16.65-16.70: fine-grained, quartz-carbonate alteration - resemble altered and	shr	60	755328	16.70	18.20	1.50	0.017
			sheared mafic metavolcanic			755329	18.20	19.70	1.50	0.075
			16.70-17.70: fractured, carbonate stringers, and pinkish grey alteration			755330	19.70	21.20	1.50	0.028
			21.58-21.64: fine-grained mafic	ct	65	755331	21.20	22.09	0.89	0.012
			22.21-22.35: 0.25-0.5 cm white quartz veinlets with minor chlorite and carbonate	vn	55	755332	22.09	22.48	0.39	0.033
			trace to 2% fine-grained disseminated pyrite			755333	22.48	22.89	0.41	0.013
			22.67-22.87: fine-grained with 1% fine-grained disseminated pyrite			755334	22.89	24.39	1.50	0.025
			23.00-24.00: pervasive light green epidote alteration			755335	24.39	25.69	1.30	0.039
			24.15-24.37: dark grey chlorite alteration			755336	25.69	26.05	0.36	0.454
			25.69-26.05: strong dark grey chlorite alteration, 1% fine-grained disseminated pyrite			755337	26.05	26.57	0.52	0.018
			26.55-26.57: light grey quartz veinlet	vn	55	755338	26.57	27.43	0.86	0.014
			26.57-27.43: moderate to strong dark grey chlorite alteration			755339	27.43	28.93	1.50	0.017
			28.29-28.32: white to light grey quartz-carbonate veinlet	vn	30	755340	28.93	29.87	0.94	0.014
			28.95-29.06: strong shear, chlorite-carbonate with minor light grey quartz	shr	30	755341	29.87	31.37	1.50	0.012
			29.65-29.87: fine-grained, dark grey, siliceous, resembles fp diorite in other holes			755342	31.37	32.10	0.73	0.011
			31.38-32.10 moderate to strong shear, strong biotite-chlorite alteration with an	shr	40	755343	32.10	33.26	1.16	0.018
			irregular core of light grey quartz, associated with 10 cm bt diorite at base			755344	33.26	34.26	1.00	0.107
			32.63-32.81: fine-grained medium grey siliceous, possibly mafic	ct	35	755345	34.26	35.21	0.95	0.023

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au_ppm
			33.26-34.26: well sheared, dark grey-green, with quartz stringers			755346	standard SH-35			*1.42*
			34.83-35.21: fine-grained mafic with irregular contacts, 1% pyrite lower contact			755347	35.21	36.06	0.85	0.015
			35.85-36.06: chloritic alteration and fine-grained mafic - broken core			755348	36.06	36.96	0.90	0.017
			36.37-36.5: irregular pink aplite							
			36.50-36.96: fine-grained dark green mafic with coarser grained diorite along lower							
			contact			755349	36.96	38.04	1.08	0.02
			38.05-38.06: pink aplite			755350	38.04	38.53	0.49	0.021
			38.30-38.47: irregular fragments highly altered to a light grey green epidote with			755351	38.53	39.53	1.00	0.01
			trace pyrite interstitial to fragments			755352	39.53	40.62	1.09	0.009
			39.15-39.34: highly chlorite altered with epidote fractures, fine grained mafic			755353	40.62	41.36	0.74	0.016
			40.62-40.74: fine-grained medium grey green mafic							
			41.12-41.36: fine-grained mafic	ct	60	755354	41.36	42.86	1.50	0.011
			43.83-43.91: fine-grained mafic	ct	30	755355	42.86	44.18	1.32	0.015
			44.18-44.41: moderate dark grey chlorite alteration patch			755356	44.18	45.66	1.48	0.008
			45.66-45.75: dark grey chloritic alteration adjacent to carbonate fracture	frac	45	755357	45.66	47.16	1.50	0.008
			47.65-47.68: carbonate-chlorite+/-quartz fracture	frac	30	755358	47.16	48.50	1.34	0.021
			48.68-48.80: dark grey chloritic alteration bordering carbonate fracture	frac	55	755359	48.50	49.50	1.00	0.009
			49.50-49.99: bt diorite, dark grey green, fine-grained with slightly coarser core zone			755360	49.50	49.99	0.49	0.01
			with medium-grained white feldspar	ct	55	755361	49.99	51.15	1.16	0.009
			51.15-52.75: strong chlorite alteration along fractures increasing in occurrence			755362	51.15	52.34	1.19	0.02
			towards the base of this interval			755363	52.34	52.75	0.41	0.248
			52.52-52.55: white to light grey quartz with minor chlorite, 1% pyrite	vn	65	755364	52.75	54.25	1.50	0.088
			53.24-53.52: bt diorite, dark grey green, fine-grained with slightly coarser basal zone			755365	54.25	55.58	1.33	0.021
			with medium-grained white feldspar	ct	55	755366	55.58	57.00	1.42	0.009
			53.89-53.95: chlorite-biotite altered mafic, well foliated/sheared	shr	50	755367	57.00	58.00	1.00	0.018
			55.58-57: bt diorite, medium grey green, weakly foliated with moderate biotite	ct	60					
			alteration along some fractures							
			58.05: 0.5 cm light grey quartz vein with 1% fine-grained pyrite	vn	50	755368	58.00	58.47	0.47	0.14
			58.40-58.42: light grey quartz vein with 1% fine-grained pyrite	vn	50	755369	58.47	59.39	0.92	0.062
			59.39-61.62 : fine-grained, dark green, weakly foliated, mafic, fine grained than			755370	59.39	60.70	1.31	0.009
			the unit at interval 55.58m			755371	standard SE-29			*0.618*
			60.3-61.62 weak to moderate foliated with moderate biotite alteration	foln	55	755372	60.70	61.62	0.92	0.008
62.62	66.00	fault	fault gouge- clay to mud seams with carbonate, highly broken diorite core			755373	61.62	63.00	1.38	0.013
			recovery less the 10%			755374	63.00	66.00	3.00	0.07
66.00	72.00	diorite	massive to weakly foliated fine to medium-grained, medium grey to grey green, medium-			755375	66.00	67.50	1.50	0.011
			grained biotite and chlorite with rare white anhedral feldspar, moderately magnetic	frac	55	755376	67.50	69.00	1.50	0.011
			hairline carbonate along fractures, occasional intervals of chlorite-biotite alteration			755377	69.00	70.50	1.50	0.014
			66.20-66.40: broken core, rounded fragments possible fault	frac	45	755378	70.50	72.00	1.50	0.024
			71.64-72.00: highly fractured							
72.00	87.63	contact zone	numerous subrounded chloritic mafic fragments, moderate to strong chlorite-biotite			755379	72.00	73.00	1.00	0.03
			alteration of the matrix diorite; variable assimilation of some of the fragments			755380	73.00	74.13	1.13	0.033
			72.00-74.13: 1% fine-grained pyrite along fractures			755381	74.13	75.63	1.50	0.022
			76.50: photo			755382	75.63	77.13	1.50	0.023
			76.28-76.38: moderate to strong biotite-chlorite alteration with basal 5 cm shear	shr	60	755383	77.13	78.63	1.50	0.023
			79.19-79.25: moderate biotite-chlorite alteration with 3-5% disseminated pyrite	shr	55	755384	78.63	79.35	0.72	0.013

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au_ppm
			79.52_79.54: intense biotite altered shear with 3-5% fine-grained pyrite	shr	60	755385	79.35	79.78	0.43	1.60
			81.16-81.24: quartz veinlet along shear with chloritic alteration and 2-3% pyrite	vn	45	755386	79.78	81.00	1.22	0.093
			82.57-83.03: irregular chloritic very fine-grained mafic fragment			755387	81.00	81.41	0.41	0.036
			83.14-83.17: 3-5% fine-grained disseminated pyrite along fracture	frac	50	755388	81.41	82.59	1.18	0.019
			83.59-83.61: 2-3% fine-grained disseminated pyrite along fracture	frac	80	755389	82.59	83.03	0.44	0.11
			84.69-85.22: irregular quartz-carbonate veinlets with intensely altered chloritic			755390	83.03	83.64	0.61	0.393
			margins, fractures vary form near perpendicular to subparallel to CA			755391	83.64	84.76	1.12	0.403
			with 1-2% fine-grained disseminated pyrite			755392	84.76	85.22	0.46	2.26
			86.77-87.05: irregular quartz-chlorite veinlets and bleaching of wall rock with			755393	85.22	86.41	1.19	0.077
			1-2% fine-grained disseminated pyrite along lower portion			755394	86.41	87.63	1.22	0.075
			87.38-87.63: well foliated, chloritic, fine-grained mafic	ct	65					
87.63	112.50	diorite	massive to weakly foliated fine to medium-grained, medium grey to grey green, medium-			755395	87.63	89.13	1.50	0.115
			grained biotite and chlorite with rare white anhedral feldspar, moderately magnetic			755396	standard HiSiK2			*3.30*
			hairline carbonate along fractures, occasional intervals of chlorite-biotite alteration			755397	89.13	90.63	1.50	0.084
			irregular length intervals of finer-grained diorite usually with gradual contacts			755398	90.63	92.05	1.42	0.02
			92.22-92.42: moderately well sheared, moderate chloritic alteration, 2 cm light			755399	92.05	92.46	0.41	0.122
			grey quartz veinlet and1-2% fine-grained pyrite along fractures			755400	92.46	93.96	1.50	0.032
			94.73-94.79: white quartz vein with chloritic fragments, and 1-2% pyrite	vn	65	755401	93.96	94.73	0.77	0.021
			94.79 - photo							
			94.79-95.17: moderate chlorite and silica alteration with occasional stringers of			755402	94.73	95.17	0.44	0.258
			quartz and 2-3% fine-grained disseminated pyrite			755403	95.17	96.67	1.50	0.03
			94.91-94.92: white quartz veinlet with 5-10% medium-grained pyrite	vn	50	755404	96.67	98.17	1.50	0.028
			along contacts			755405	98.17	98.61	0.44	0.326
			94.91 - photo			755406	98.61	100.11	1.50	0.013
			98.40-98.47: irregular white quartz veinlets with chlorite along margins, 5-10%	vn	50	755407	100.11	101.61	1.50	0.014
			disseminated fine-grained pyrite between veinlets			755408	101.61	103.11	1.50	0.014
			98.50- photo			755409	103.11	104.63	1.52	0.011
			99.15-101.18: breccia with diorite matrix with a variety of 3-5 cm fragments							
			similar to contact zone above							
			101.18-102.42: medium-grey, fine-grained, siliceous unit resembles fp diorite							
			in other holes without the feldspar phenocrysts							
			104.83-105.13: irregular fracture up to 0.5 cm wide with chlorite fill subparallel CA			755410	104.63	106.13	1.50	0.007
			106.30-106.80: coarse-grained resembling gabbro intruding the mafic metavolcanic			755411	106.13	107.63	1.50	0.01
			109.23-109.43: well foliated/sheared, strong biotite-carbonate-chlorite alteration	shr	60	755412	107.63	109.23	1.60	0.397
			with 2-3% fine-grained disseminated pyrite			755413	109.23	109.92	0.69	0.019
			109.43-109.90: moderate biotite-silica alteration, moderately well foliated with							
			1-2% fine-grained disseminated pyrite							
			110.17-110.18: white quartz veinlet with 1% fine-grained pyrite along contact	vn	55	755414	109.92	111.25	1.33	0.013
			111.25-111.43: light grey quartz veinlets with 3-5% fine-grained pyrite	vn	50	755415	111.25	111.61	0.36	0.452
			111.25 - photo of entire box			755416	111.61	112.50	0.89	0.249
			111.43-111.93: moderate foliated, moderate chlorite-biotite, trace to 1% pyrite							
			111.93-111.95, 111.98-111.99, light grey quartz veinlets with 2-3% pyrite	vn	60					
			112.37-112.50: light grey to white quartz vein with minor chloritic fragments and							
			3-5% coarse-grained pyrite; broken core	vn	50					
112.50	137.34	contact zone	numerous subrounded chloritic mafic fragments, moderate to strong chlorite-biotite			755417	112.50	113.72	1.22	0.024

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au_ppm
			alteration of the matrix diorite; variable assimilation of some of the fragments							
			113.05-113.72: variable chlorite-biotite alteration; weak silicification and			755418	113.72	115.38	1.66	0.052
			2-3% disseminated pyrite			755419	115.38	116.23	0.85	0.022
			113.80-114.30:mafic fragment with talceous upper portion and coarse-grained			755420	116.23	117.73	1.50	0.021
			amphibolitic lower portion			755421	standard HiSiK2			*3.42*
			115.17-115.38:fine-grained mafic			755422	117.73	118.38	0.65	0.023
			115.38-116.23: fine-grained, siliceous, medium grey with trace to 1% fine-grained pyrite			755423	118.38	119.11	0.73	0.149
			116.23-116.45: medium grained mafic resembling bt diorite			755424	119.11	119.79	0.68	0.009
			117.00-117.21: fine-grained mafic			755425	119.79	121.29	1.50	0.036
			118.38-119.11: trace to1% fine-grained disseminated pyrite			755426	121.29	122.79	1.50	0.016
			119.11-119.79: chloritic fine-grained mafic fragment			755427	122.79	123.64	0.85	0.016
			123.64-125.33: variably silicified, biotite and chlorite altered with 1-2% fine-grained			755428	123.64	125.33	1.69	0.127
			pyrite along fractures and as disseminations			755429	125.33	126.50	1.17	0.041
			127.44-128.00: moderate biotite chlorite alteration and 1-2% disseminated pyrite			755430	126.50	127.44	0.94	0.038
			128.88-129.46: fine-grained chloritic mafic			755431	127.44	128.00	0.56	0.168
			132.71-137.34: diorite as at top of this hole, with moderate silicification, highly	foln	50	755432	128.00	129.50	1.50	0.05
			fractured and 5-10 cm intervals with 3-5% fine-grained pyrite			755433	129.50	131.00	1.50	0.037
137.34	149.94	mafic metavolcanic	fine-grained to aphanitic, medium to dark green to grey green, variably talceous and chlorite			755434	131.00	132.71	1.71	0.014
			altered with irregular dykelets of diorite producing a brecciated appearance in some intervals			755435	132.71	134.33	1.62	0.157
			137.34-138.40: 3-5 cm intervals of strong biotite-carbonate alteration with			755436	134.33	135.83	1.50	0.304
			2-3% disseminated pyrite			755437	135.83	137.34	1.51	0.142
			139.71-139.93: irregular dyke of diorite with 0.5 cm quartz veinlet and pyrrhotite			755438	137.34	138.40	1.06	0.103
			140.25-140.59: irregular dykelet of diorite with 2-3% disseminated pyrite			755439	138.40	139.71	1.31	0.008
			144.00-146.07 irregular dykelets of diorite with fragments of metavolcanic			755440	139.71	140.59	0.88	0.024
			147.50-149.94: moderate to strong alteration to talc	foln	70	755441	140.59	142.09	1.50	0.034
149.94	157.77	diorite	massive to weakly foliated fine to medium-grained, medium grey to grey green, medium-			755442	142.09	143.59	1.50	0.015
			grained biotite and chlorite with rare white anhedral feldspar, moderately magnetic			755443	143.59	145.09	1.50	0.013
			hairline carbonate along fractures, occasional intervals of chlorite-biotite alteration			755444	145.09	146.59	1.50	0.034
			irregular length intervals of finer-grained diorite usually with gradual contacts			755445	146.59	147.50	0.91	0.024
			149.94-152.58: trace to 2% fine-grained disseminated pyrite with irregular quartz			755446	standard SE-29			*0.597*
			veinlets along fractures			755447	147.50	149.00	1.50	0.027
			152.58-153.10: fine-grained dark grey groundmass with medium-grained white	ct	50	755448	149.00	149.94	0.94	0.021
			feldspar phenocrysts			755449	149.94	151.00	1.06	0.133
157.77	171.03	fp diorite	medium to dark grey, aphanitic to very fine-grained groundmass with fine-grained biotite			755450	151.00	152.58	1.58	0.106
			and rare anhedral white feldspar			755451	152.58	153.10	0.52	<0.005
			157.90-158.10: well foliated/sheared, chlorite-carbonate-biotite altered, weakly	shr	60	755452	153.10	154.60	1.50	0.019
			silicified with trace to 1% pyrite			755453	154.60	156.10	1.50	0.046
			159.05-159.37: medium-grained diorite dykelet as unit above			755454	156.10	157.77	1.67	0.044
			161.15-161.81: moderately well foliated with carbonate stringers along foliation	foln	60	755455	157.77	158.20	0.43	0.211
			161.81-162.35: irregular medium-grained diorite as above			755456	158.20	159.37	1.17	0.005
			162.55: 0.5 cm pinkish grey aplite	dyke	25	755457	159.37	161.15	1.78	<0.005
			163.71-163.85: sheared, strong biotite-chlorite altered with 2-3% pyrite	shr	45	755458	161.15	161.81	0.66	0.01
			164.78-165.30: medium-grained diorite			755459	161.81	162.35	0.54	0.013
			165.30-165.32: white quartz veinlet with 3-5% disseminated pyrite in wallrock	vn	50	755460	162.35	163.60	1.25	0.008
			165.70-165.88: sheared, strong biotite alteration, 5-10% fine-grained disseminated	shr	55	755461	163.60	164.00	0.40	0.284

From	To	Lithology	Description	Structure	C.A.	number	from	to	Length	Au_ppm
			pyrite			755462	164.00	165.28	1.28	0.03
			165.88-166.67: medium-grained diorite			755463	165.28	165.88	0.60	1.03
			169.35-171.03: moderately well sheared, moderate to strong biotite-chlorite	shr	60	755464	165.88	166.67	0.79	0.025
			alteration, irregular quartz stringers			755465	166.67	168.17	1.50	0.025
171.03	175.40	diorite	massive medium grained unit as at the top of the hole.			755466	168.17	169.35	1.18	0.006
						755467	169.35	170.00	0.65	1.275
						755468	170.00	171.03	1.03	0.111
						755469	171.03	172.53	1.50	0.042
						755470	172.53	174.03	1.50	0.081
						755471	174.03	175.40	1.37	0.018



HOLES PLOTTED

TOTAL 1

TL09-001

BAR GRAPHS L/R COL
Au_ppm L

ROCK CODES PAT LABEL
Major_cd
bt diorite
casing
fp diorite
maf metavolc
maf volc - sil ironst
maf volcanic
sil ironst - maf metav

POSTED TEXT L/R TEXT ITEMS
Major_cd R ------- All

SECTION SPECS:

REF. PT. E, N	585961 m	6044910 m
EXTENTS	175.9 m	129.7 m
SECTION TOP, BOT	205 m	75.3 m
TOLERANCE +/-	0.534 m	

SCALE
(m)
-2 0 2 4 6 8 10 12
NAD83 / UTM zone 15N

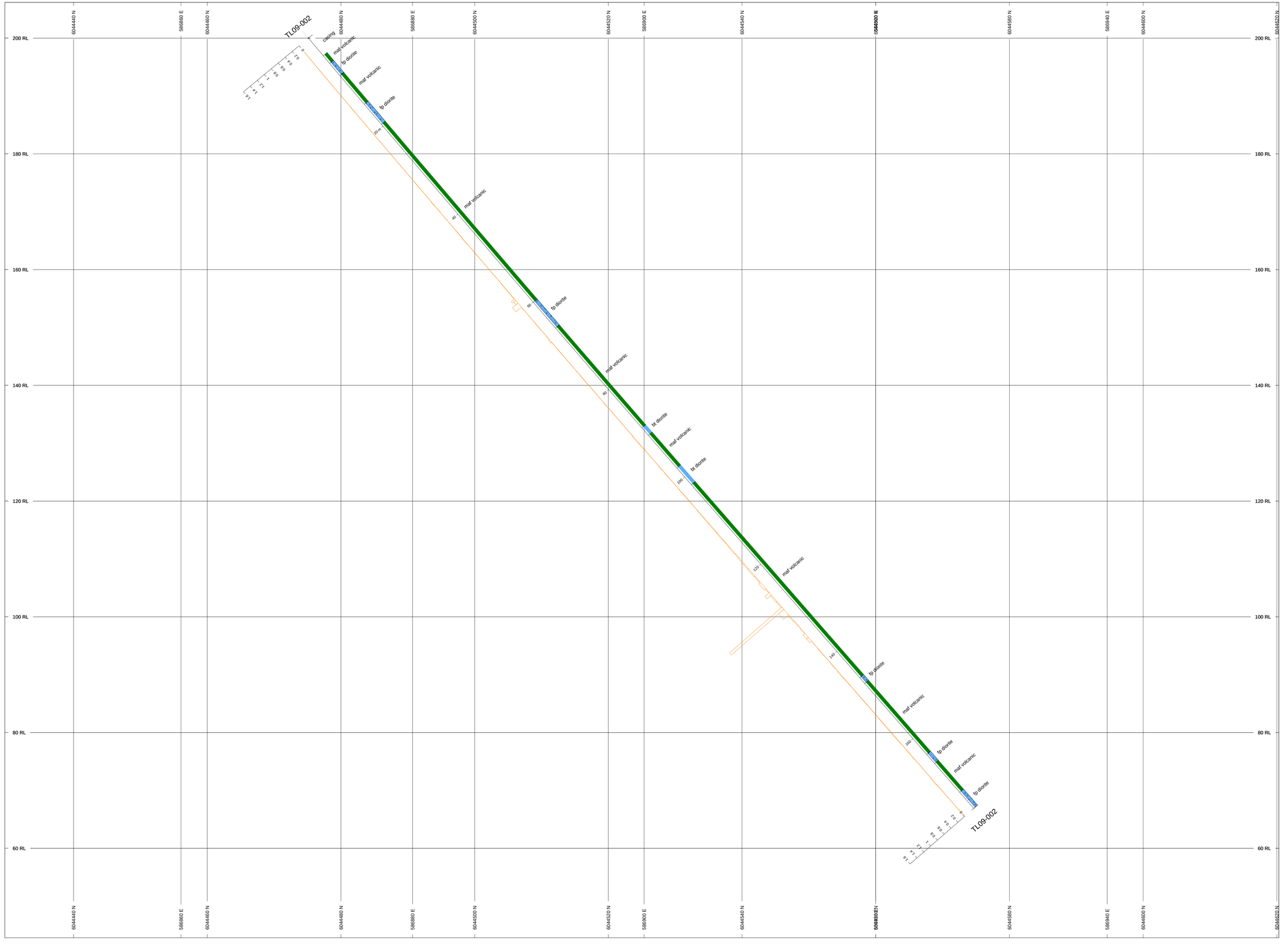
AZIMUTH = 20°
N
W E
S

Northern Superior Resources

Thorne Lake Project, Ontario

Diamond Drill Hole Section

Plot by S. van Haaften Sept 11, 2009



HOLES PLOTTED

TOTAL 1

TL09-002

BAR GRAPHS	L/R	COL
Au_ppm	L	

ROCK CODES	PAT	LABEL
Major_cd		bt diorite
		casing
		fp diorite
		maf volcanic

POSTED TEXT	L/R	TEXT	ITEMS
Major_cd	R	-------	All

SECTION SPECS:

REF. PT. E, N	586900 m	6044525 m
EXTENTS	220.1 m	161.6 m
SECTION TOP, BOT	206.2 m	44.52 m
TOLERANCE +/-	2.481 m	

SCALE

(m)

-4 0 4 8 12

NAD83 / UTM zone 15N

AZIMUTH = 30°

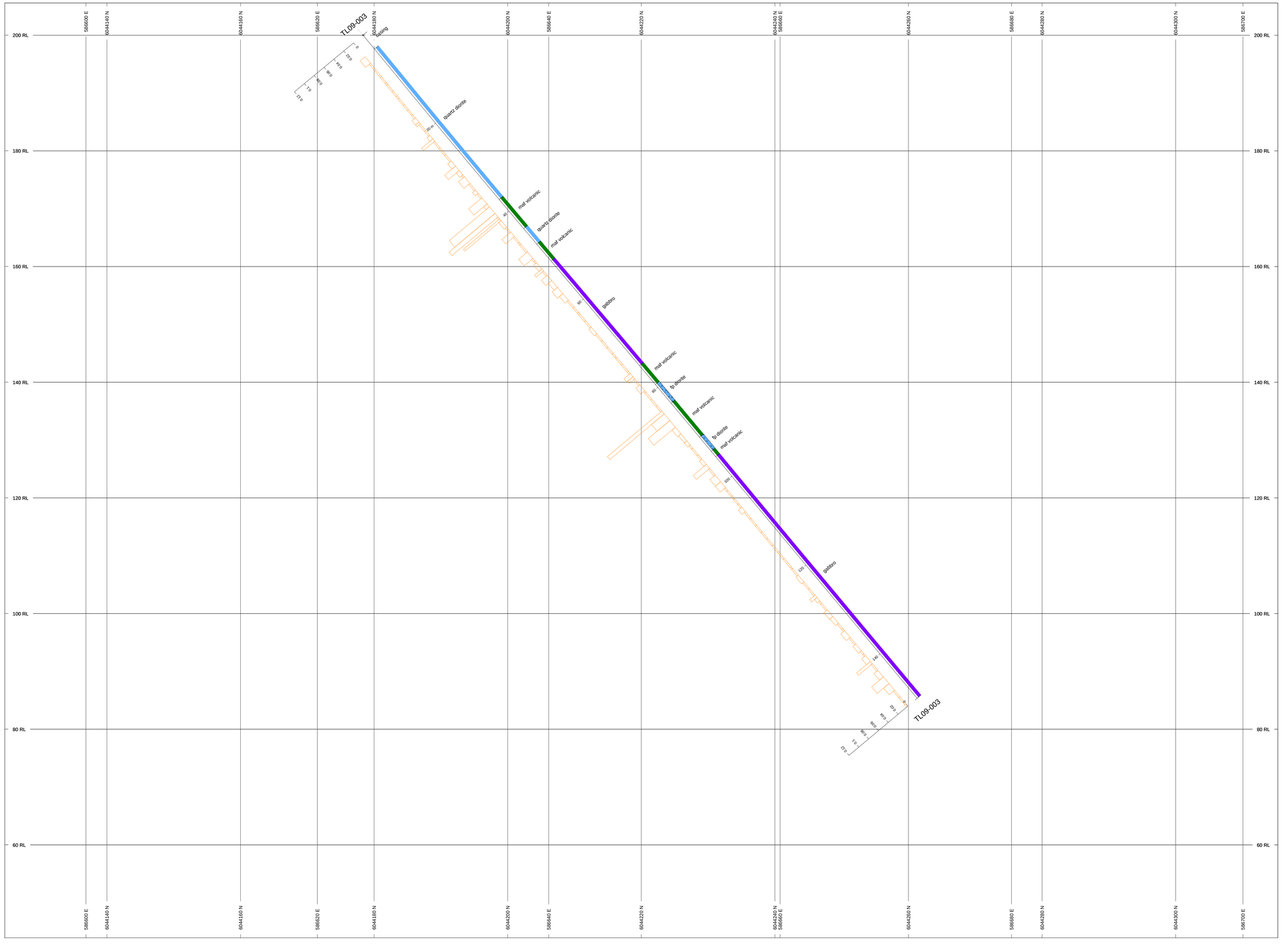
N W E S

Northern Superior Resources

Thorne Lake Project, Ontario

Diamond Drill Hole Section

Plot by S. van Haaften Sept 22, 2009



HOLES PLOTTED

TOTAL 1

TL09-003

BAR GRAPHS	L/R	COL
Au_ppm	L	

ROCK CODES	PAT	LABEL
Major_cd		casing
		fp diorite
		maf volcanic
		gabbro
		quartz diorite

POSTED TEXT	L/R	TEXT	ITEMS
Major_cd	R	-------	All

SECTION SPECS:

REF. PT. E, N	586648 m	6044220 m
EXTENTS	220.1 m	161.6 m
SECTION TOP, BOT	205.6 m	43.92 m
TOLERANCE +/-	4.968 m	

SCALE

(m)

-4 0 4 8 12

NAD83 / UTM zone 15N

AZIMUTH = 30°

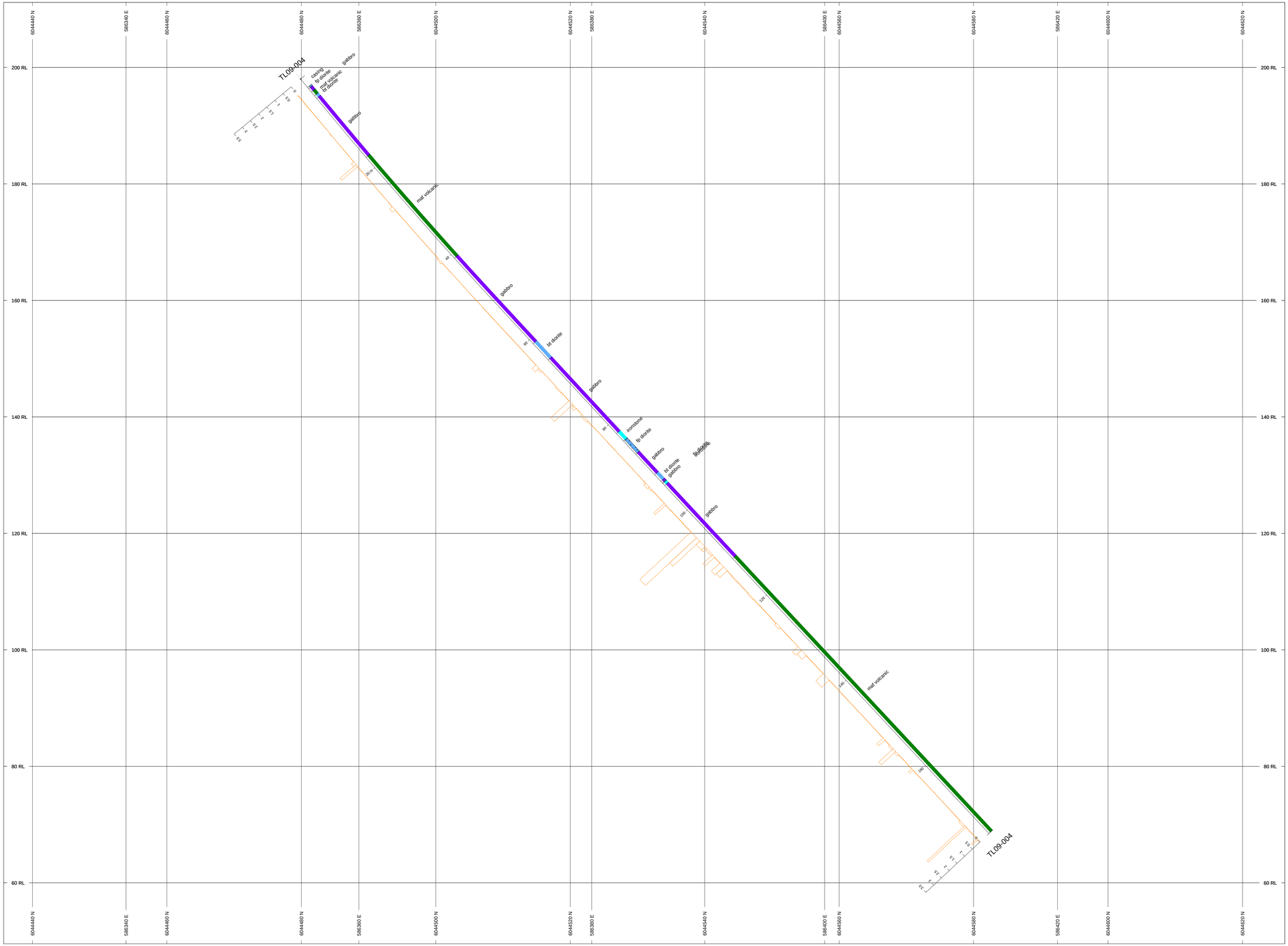
N W E S

Northern Superior Resources

Thorne Lake Project, Ontario

Diamond Drill Hole Section

Plot by S. van Haaften Sept 24, 2009



HOLES PLOTTED

TOTAL 1

TL09-004

BAR GRAPHS	L/R	COL
Au_ppm	L	

ROCK CODES	PAT	LABEL
Major_cd		bt diorite
		casing
		fp diorite
		maf volcanic
		gabbro
		ironstone

POSTED TEXT	L/R	TEXT	ITEMS
Major_cd	R	--------	All

SECTION SPECS:

REF. PT. E, N	586385 m	6044531 m
EXTENTS	220.1 m	161.6 m
SECTION TOP, BOT	211.2 m	49.52 m
TOLERANCE +/-	6.385 m	

SCALE

(m)

-4 0 4 8 12

NAD83 / UTM zone 15N

AZIMUTH = 30°

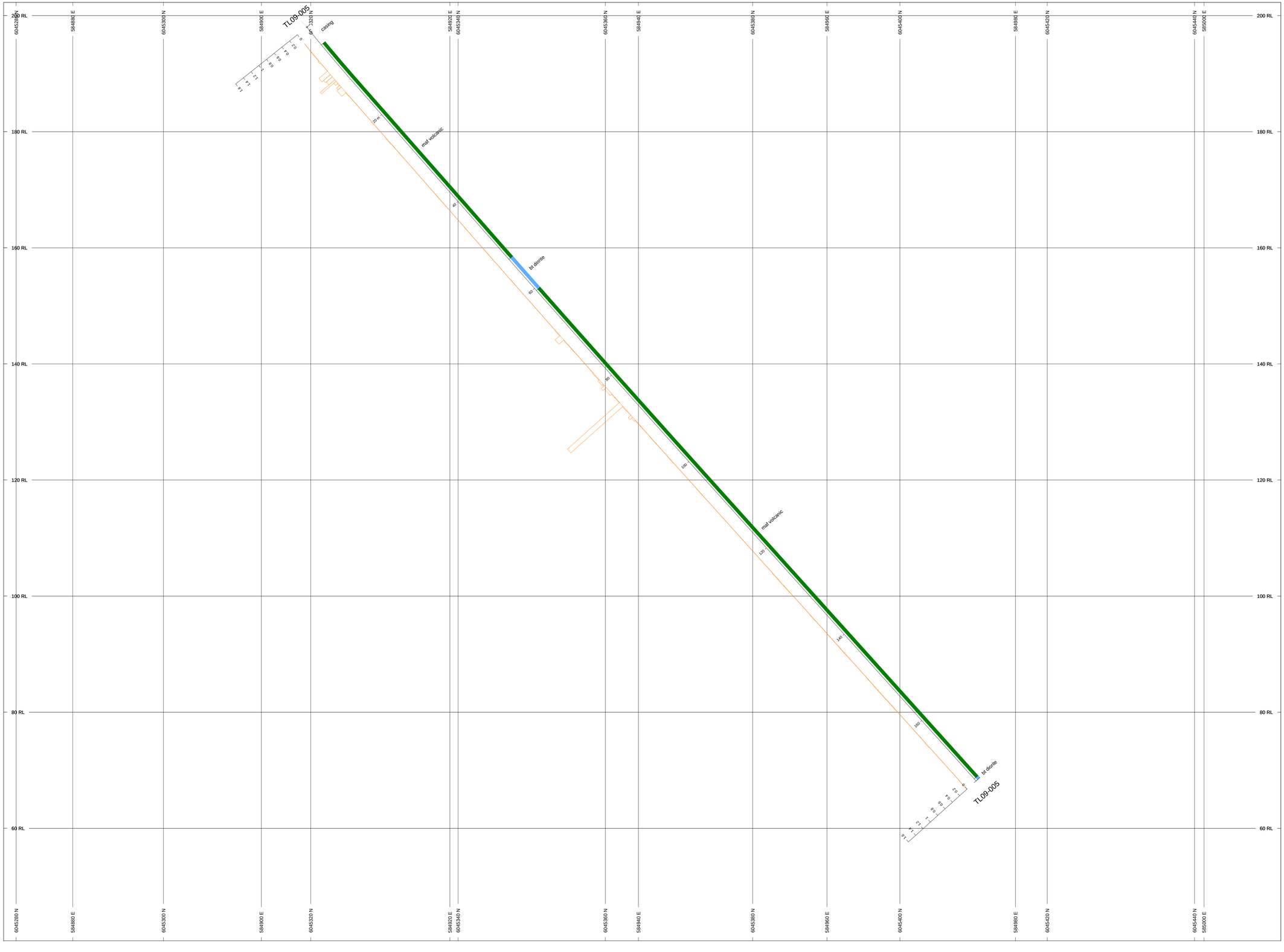
N E S W

Northern Superior Resources

Thorne Lake Project, Ontario

Diamond Drill Hole Section

Plot by S. van Haaften Sept 30, 2009



HOLES PLOTTED

TOTAL 1

TL09-005

BAR GRAPHS L/R COL
Au_ppm L

ROCK CODES PAT LABEL
Major_cd
bt diorite
casing
maf volcanic

POSTED TEXT L/R TEXT ITEMS
Major_cd R ------- All

SECTION SPECS:

REF. PT. E, N	584940 m	6045365 m
EXTENTS	220.1 m	161.6 m
SECTION TOP, BOT	202.3 m	40.62 m
TOLERANCE +/-	4.301 m	

SCALE
(m)
-4 0 4 8 12
NAD83 / UTM zone 15N

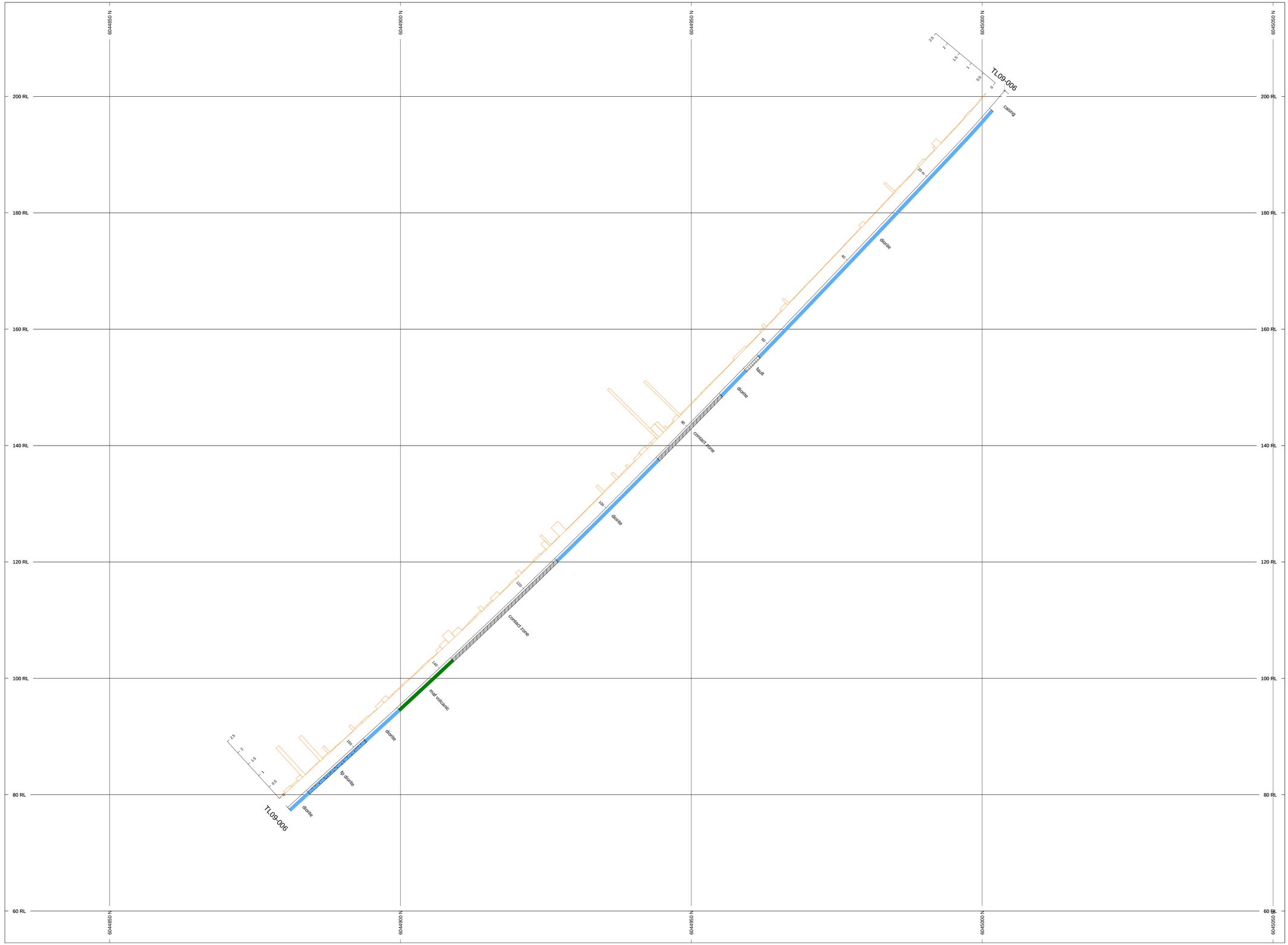
AZIMUTH = 38°
N
W E
S

Northern Superior Resources

Thorne Lake Project, Ontario

Diamond Drill Hole Section

Plot by S. van Haaften Sept 24, 2009



HOLES PLOTTED

TOTAL 1

TL09-006

BAR GRAPHS	L/R	COL
Au_ppm	L	

ROCK CODES	PAT	LABEL
Major_cd		casing
		fp diorite
		maf volcanic
		contact zone
		diorite
		fault

POSTED TEXT	L/R	TEXT	ITEMS
Major_cd	R	--------	All

SECTION SPECS:

REF. PT. E, N	584388 m	6044942 m
EXTENTS	220.1 m	161.6 m
SECTION TOP, BOT	216.2 m	54.52 m
TOLERANCE +/-	9.37 m	

SCALE

(m)

-4 0 4 8 12

NAD83 / UTM zone 15N

AZIMUTH = 359°

N W E S

Northern Superior Resources

Thorne Lake Project, Ontario

Diamond Drill Hole Section

Plot by S. van Haaften Sept 30, 2009

		Au-AA23																			
			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	ME-MS61	ME-MS61	ME-MS61	ME-MS61
sample	hole	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K
		g/t	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
H754551	TL09-001	<0.005	0.25	6.48	4.5	330	0.87	0.12	8.9	0.07	25.3	32.7	117	2.7	33.2	6.09	15.55	0.12	1.9	0.051	0.83
H754552	TL09-001	0.008	0.35	4.67	<5	110	0.62	0.09	12.8	0.19	15.2	25.3	26	3.29	79.8	6.76	11.75	0.12	1.4	0.06	0.52
H754553	TL09-001	2.75	2.34	0.77	<5	10	0.27	0.3	14.15	0.13	20.2	17.6	5	0.27	50.4	5.09	2.22	0.1	0.4	0.018	0.03
H754554	TL09-001	0.019	0.23	7.28	3.6	30	0.52	0.13	5.22	0.06	26.7	19.4	29	0.36	54.3	8.31	16.95	0.15	2.5	0.05	0.14
H754555	TL09-001	0.006	0.43	7.61	3.3	20	0.48	0.12	6.63	0.07	16.5	34	43	0.23	87.6	9.9	20.2	0.16	1.9	0.077	0.15
H754556	TL09-001	0.01	0.13	7.56	3	140	0.45	0.14	6.54	0.06	16.8	35.1	42	2.92	64	7.5	21.4	0.14	1.9	0.095	0.47
H754557	TL09-001	0.245	0.86	3.01	6	30	0.36	0.14	17.2	0.15	14.95	33	13	0.85	147.5	6.42	8.18	0.11	1	0.043	0.12
H754558	TL09-001	0.997	0.82	2.81	8	30	0.3	0.24	17.15	0.12	6.98	26.2	15	1.61	80.8	6.46	8.32	0.11	0.6	0.041	0.14
H754559	TL09-001	0.038	0.19	1.03	<5	<10	0.3	0.07	18.25	0.11	5.38	19.4	5	0.18	59.7	6.17	3.04	0.1	0.4	0.018	0.02
H754560	TL09-001	2.98	2.45	0.74	<5	<10	0.33	1	20.1	0.15	8.69	11.8	4	0.05	69.1	5.02	2.44	0.09	0.3	0.033	0.01
H754561	TL09-001	0.925	1.5	0.32	<5	<10	0.26	0.32	17.6	0.36	2.76	12	4	0.05	43	5.88	1.39	0.1	0.3	0.016	0.01
H754562	TL09-001	0.07	0.05	0.29	77	<10	0.17	0.04	18.5	0.09	2.1	11.8	3	<0.05	9.6	6.07	0.97	0.1	0.2	0.006	<0.01
H754563	TL09-001	<0.005	0.08	7.76	2.2	910	1.6	0.09	3.43	0.03	49.8	16.4	105	4.3	21.9	3.25	20.4	0.1	3.3	0.028	1.08
H754564	TL09-001	0.012	0.05	0.87	<5	<10	0.18	0.02	19.2	0.17	1.95	21.3	8	<0.05	35.7	7.03	2.18	0.1	0.4	0.02	0.01
H754565	TL09-001	<0.005	0.05	5.31	<5	40	0.65	0.04	13.4	0.06	6.16	31.5	51	0.51	48.5	7.27	11.55	0.1	0.9	0.066	0.15
H754566	TL09-001	<0.005	0.06	0.81	<5	<10	0.07	0.01	19.45	0.09	1.58	15.9	10	0.05	39.3	5.83	2.17	0.08	0.3	0.015	<0.01
H754568	TL09-001	0.006	0.04	3.14	<5	10	0.55	0.02	16.85	0.08	3.46	24.5	38	0.24	37.8	6.47	6.9	0.11	0.5	0.028	0.06
H754569	TL09-001	0.005	0.16	3.62	<5	30	0.49	0.04	17.45	0.08	4.46	23	45	0.82	94.1	6.09	7.95	0.11	0.5	0.041	0.14
H754570	TL09-001	1.275	0.33	5.45	<5	470	0.7	0.11	12.9	0.06	6.61	29	62	18.45	33.7	6.62	13	0.1	0.7	0.051	1.99
H754571	TL09-001	0.047	0.08	1.3	<5	20	0.27	0.03	18.9	0.14	2.58	22.1	17	0.76	55.4	5.89	3.31	0.09	0.4	0.023	0.08
H754572	TL09-001	0.011	0.09	1.61	5	<10	0.38	0.02	17.3	0.06	2.95	27.3	24	0.06	126	6.58	4.22	0.11	0.3	0.031	0.01
H754573	TL09-001	<0.005	0.11	2.03	<5	<10	0.24	0.02	18.7	0.11	3.03	18.2	31	0.1	132	5.95	4.88	0.09	0.4	0.021	0.01
H754574	TL09-001	<0.005	0.06	2.81	<5	50	0.36	0.03	17.3	0.11	3.83	22.2	39	1.51	55.4	6.28	6.31	0.09	0.5	0.027	0.17
H754575	TL09-001	0.008	0.12	6.63	<5	30	0.44	0.07	12.1	0.1	7.32	29.2	87	0.18	199.5	7.11	14.9	0.11	1.1	0.068	0.12
H754576	TL09-001	0.005	0.07	5.64	<5	60	0.3	0.02	13.8	0.08	6.81	36.7	66	0.43	61.4	7.62	12.2	0.11	0.9	0.051	0.13
H754577	TL09-001	<0.005	0.08	6.16	<5	40	0.43	0.04	12.7	0.12	7.66	40.1	77	0.23	90.2	7.71	14.35	0.13	1	0.057	0.14
H754578	TL09-001	<0.005	0.09	7.44	<5	40	0.63	0.05	11.15	0.12	8.74	44.8	104	0.23	127	8.21	16.7	0.13	1.3	0.075	0.17
H754579	TL09-001	<0.005	0.12	5.42	<5	50	0.41	0.02	14.05	0.09	6.53	44.8	77	0.62	170.5	8.28	12.3	0.12	0.8	0.038	0.13
H754580	TL09-001	<0.005	0.09	7.54	<5	60	0.52	0.05	10.45	0.06	8.41	45	105	0.35	94.5	8.23	17.5	0.11	1	0.064	0.19
H754581	TL09-001	<0.005	0.08	7.62	2.1	60	0.41	0.02	9.29	0.08	10.2	45.9	103	0.2	67.5	8.93	18.8	0.12	1.1	0.066	0.22
H754582	TL09-001	0.011	0.07	5.2	<5	30	0.28	0.01	12.05	0.1	15.35	38.2	43	0.15	44.3	8.51	13.85	0.12	1.5	0.056	0.15
H754583	TL09-001	<0.005	0.15	8.09	0.9	170	0.44	0.04	8.55	0.1	11	50.8	113	0.55	158.5	9.35	19.8	0.13	1	0.072	0.53
H754584	TL09-001	0.01	0.13	7.59	1.7	100	0.29	0.03	8.18	0.11	11.95	54.2	99	2.03	111	8.34	21.3	0.13	1.3	0.081	0.28
H754585	TL09-001	0.007	0.14	8.19	4.6	250	0.37	<0.01	6.35	0.07	10.45	57.3	116	4.19	93.6	5.02	21.5	0.12	0.9	0.073	0.51
H754586	TL09-001	0.012	0.17	7.84	2.1	110	0.45	0.01	8.41	0.11	11.05	50	110	0.77	120.5	8.33	20.2	0.11	1.2	0.076	0.28
H754587	TL09-001	0.333	0.28	8.33	1.2	660	0.73	0.07	5.06	0.07	10.55	45.9	177	18.9	373	10.65	22.3	0.12	1.2	0.06	1.34
H754588	TL09-001	0.036	0.09	1.02	<5	10	0.21	<0.01	18.8	0.21	2.15	23.8	14	0.75	95.2	6.4	3.8	0.08	0.3	0.024	0.02
H754589	TL09-001	0.706	0.27	8.08	2	50	0.32	0.17	7.59	0.15	9.77	51.3	120	0.55	118	9.14	19.9	0.1	0.8	0.074	0.29
H754590	TL09-001	0.27	0.27	7.73	1.9	210	0.42	0.13	7.9	0.12	9.45	50.3	115	0.86	139	8.9	19.7	0.12	1	0.074	0.79
H754591	TL09-001	0.177	0.19	7.63	1.7	90	0.31	0.12	7.32	0.11	9.23	48.8	118	1.26	78.1	9.27	18.15	0.12	1.1	0.065	0.47
H754592	TL09-001	0.272	0.3	7.41	1.3	160	0.43	0.18	9.55	0.12	11.95	44.8	109	4.42	96.9	8.36	18	0.12	1.3	0.074	0.63
H754593	TL09-001	0.57	0.48	6.83	<5	320	0.75	0.27	10	0.19	11.7	41.9	101	6.77	107.5	8.21	17	0.09	1.1	0.066	0.94
H754595	TL09-001	0.279	0.26	7.86	1.4	80	0.56	0.28	7.91	0.13	9.92	53.3	129	0.94	137.5	9.18	17.8	0.08	1.1	0.218	0.31
H754596	TL09-001	1.835	0.39	7.6	1	180	0.73	0.23	7.16	0.11	10.75	53.4	129	4.21	125	8.68	19.9	0.11	1.4	0.072	0.63
H754597	TL09-001	0.043	0.09	8.65	2	110	0.52	0.07	6.74	0.11	11.3	49	149	0.87	80.4	9.96	21.2	0.1	0.7	0.089	0.45
H754598	TL09-001	0.032	0.08	7.66	1.5	150	0.52	0.02	4.99	0.08	8.42	43.7	118	2.73	63.5	9.09	19.05	0.1	0.7	0.066	0.57

sample	hole	Au	ME-MS61 Ag	ME-MS61 Al	ME-MS61 As	ME-MS61 Ba	ME-MS61 Be	ME-MS61 Bi	ME-MS61 Ca	ME-MS61 Cd	ME-MS61 Ce	ME-MS61 Co	ME-MS61 Cr	ME-MS61 Cs	ME-MS61 Cu	ME-MS61 Fe	ME-MS61 Ga	ME-MS61 Ge	ME-MS61 Hf	ME-MS61 In	ME-MS61 K
		g/t	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
H754599	TL09-001	0.016	0.14	8.86	2.9	190	0.51	0.05	5.86	0.08	10.65	65.1	171	3.29	145	9.72	23.2	0.11	0.7	0.078	0.62
H754600	TL09-001	0.027	0.21	8.6	3.2	130	0.44	0.11	6.49	0.15	10.6	74.9	158	1.26	243	8.96	22.8	0.12	0.9	0.087	0.45
H754601	TL09-001	0.017	0.06	2.54	<5	10	0.12	0.05	17.85	0.13	4.43	34.5	41	0.2	72.2	6.04	6.5	0.06	0.5	0.028	0.03
H754602	TL09-001	0.328	0.23	8.49	1.8	120	0.39	0.21	6.99	0.1	10	66.5	154	0.99	129	9.29	19.25	0.12	0.6	0.072	0.35
H754603	TL09-001	0.094	0.25	8.36	1.1	390	0.55	0.12	8.05	0.09	10.85	60.5	145	6.91	210	8.22	18.5	0.1	1	0.083	0.85
H754604	TL09-001	0.263	0.32	7.11	<5	340	0.63	0.21	10.75	0.11	7.84	72.5	115	12.3	162	7.73	15.9	0.11	0.8	0.051	1.28
H754605	TL09-001	0.127	0.21	7.98	1.4	70	0.33	0.14	7.53	0.13	10.2	53	131	0.56	117.5	9.86	18.4	0.13	0.6	0.074	0.34
H754606	TL09-001	0.588	0.37	7.6	2	140	0.51	0.27	8.66	0.12	10.35	52.4	122	1.59	128	8.95	18.95	0.08	0.9	0.075	0.47
H754607	TL09-001	0.351	0.36	8.05	0.7	190	0.47	0.23	8.64	0.11	10.7	53.2	131	3.84	115.5	7.12	18.05	0.08	1.1	0.059	0.68
H754608	TL09-001	0.077	0.12	7.86	0.9	330	0.54	0.09	5.83	0.08	24.4	32	183	2.21	57.3	5.39	17.65	0.08	1.9	0.033	0.74
H754609	TL09-001	0.006	0.06	7.63	1.2	550	0.95	0.02	3.64	0.05	30.6	27	163	5.3	17.6	4.12	22.4	0.11	2.6	0.025	1.18
H754610	TL09-001	0.017	0.07	7.95	1.2	580	0.87	0.01	3.87	0.04	32.3	25.9	184	4.83	24.2	4.16	20.4	0.08	2.6	0.026	1.31
H754611	TL09-001	0.01	0.07	7.83	0.9	500	0.59	0.02	4.48	0.05	37.8	27.4	199	4.18	39.1	4.38	20	0.1	2.5	0.018	1.22
H754612	TL09-001	0.242	0.29	6.72	<5	280	0.41	0.11	11.5	0.35	21.5	36.2	133	0.97	123.5	6.19	16.35	0.1	1.5	0.049	0.52
H754613	TL09-001	0.012	0.11	7.57	1.6	40	0.27	0.05	9.93	0.09	9.84	48.4	119	0.13	83.7	8.75	16.85	0.08	1.1	0.067	0.17
H754614	TL09-001	0.01	0.07	7.72	0.8	90	0.51	0.2	9.17	0.1	10.9	47.9	119	0.28	51.7	8.23	18.55	0.11	1.1	0.177	0.22
H754615	TL09-001	<0.005	0.06	7	0.9	770	1.06	0.01	2.84	0.04	34.1	14.5	53	2.92	21.4	2.68	19.55	0.09	2.5	0.015	0.95
H754616	TL09-001	0.042	0.12	7.6	0.6	780	0.88	0.08	5.77	0.06	28.8	38.3	330	7.67	68.6	6.36	16.65	0.07	1.7	0.042	1.66
H754617	TL09-001	0.038	0.22	6.97	1	910	1.01	0.05	5.17	0.05	41.3	39.2	476	7.69	155	5.64	14.65	0.09	1.9	0.037	1.97
H754618	TL09-001	0.029	0.14	6.62	0.5	810	1.09	0.04	5.23	0.06	36.9	43.3	541	8.98	80.5	5.8	14.85	0.12	1.9	0.043	1.94
H754619	TL09-001	0.022	0.14	7.14	<0.2	720	1.02	0.03	6.32	0.06	33.7	44.1	503	8.07	53.4	6.28	14.8	0.09	1.7	0.036	1.75
H754620	TL09-001	0.01	0.13	7.64	<5	70	0.36	0.09	10.05	0.09	10.05	43.8	111	0.62	115.5	7.86	17.55	0.09	1.1	0.072	0.28
H754622	TL09-001	0.009	0.25	6.65	<5	70	0.39	0.04	12.55	0.09	8.49	46.2	89	0.62	146.5	8.23	15.3	0.09	0.9	0.053	0.23
H754623	TL09-001	0.01	0.31	6.88	<5	60	0.24	0.03	11.1	0.13	8.12	41.8	97	0.39	123.5	8.21	15.15	0.09	0.7	0.047	0.21
H754624	TL09-001	0.01	0.19	6.29	<5	140	0.37	0.01	12.7	0.07	8.13	39.3	82	2.17	77.5	7.64	14.45	0.08	0.9	0.055	0.43
H754625	TL09-001	0.016	0.19	5.38	<5	60	0.47	0.01	14.4	0.08	6.87	32.7	59	1.19	85	7.44	11.7	0.08	0.7	0.043	0.21
H754626	TL09-001	<0.005	0.15	5.87	<5	180	0.69	0.05	15.4	0.12	9.47	31.9	72	6.06	60.6	7.79	13	0.09	0.9	0.054	0.64
H754627	TL09-001	0.012	0.1	2.37	<5	10	0.38	0.01	18.35	0.07	6.11	15.3	32	0.68	48.6	6.67	5.38	0.06	0.5	0.018	0.05
H754628	TL09-001	0.018	0.11	2.46	<5	110	0.38	0.02	17.55	0.09	7.7	16.4	36	3.08	38	5.89	5.26	0.05	0.8	0.014	0.4
H754629	TL09-001	1.59	0.44	7.04	0.8	370	0.91	0.28	7.02	0.09	20.8	32.6	83	8.1	94.1	6.11	16.2	0.08	1.7	0.042	1.22
H754630	TL09-001	0.31	0.2	7.65	1	70	0.37	0.12	9.04	0.09	9.03	47.8	117	0.85	124	8.58	16	0.08	1	0.053	0.27
H754631	TL09-001	0.015	0.16	7.49	1.3	40	0.37	0.04	8.65	0.08	9.89	56.3	126	0.12	172	9.28	17.55	0.1	1.1	0.074	0.16
H754632	TL09-001	0.024	0.14	7.72	1.1	40	0.28	0.04	9.2	0.1	9.27	50.2	116	0.08	132.5	8.81	17.55	0.08	1.2	0.058	0.16
H754633	TL09-001	0.029	0.12	7.66	1.5	50	0.29	0.04	9.09	0.09	9.77	50.9	113	0.14	84.5	9.28	17.8	0.11	1.3	0.067	0.21
H754634	TL09-001	0.161	0.23	6.71	<5	150	0.39	0.09	10.3	0.08	8.02	43.8	108	0.74	186.5	7.91	14.45	0.09	0.9	0.058	0.29
H754635	TL09-001	0.102	0.15	7.78	1.5	60	0.31	0.08	9.68	0.11	9.75	49.5	111	0.23	102	8.3	17.85	0.1	0.8	0.067	0.23
H754636	TL09-001	0.012	0.09	6.58	5	60	0.2	0.18	12.5	0.15	7.82	35.2	95	0.64	70.5	7.06	16	0.1	0.8	0.072	0.21
H754637	TL09-001	0.089	0.15	8.07	<5	40	0.22	0.09	10.1	0.12	10	49	118	0.17	98.7	9.1	19.6	0.12	1.2	0.081	0.21
H754642	TL09-001	0.067	0.11	7.63	2.5	260	0.54	0.15	5.83	0.24	30.3	24.9	57	6.29	82	5.34	18.65	0.13	2.4	0.058	1.22
H754638	TL09-001	<0.005	0.07	7.54	6	200	0.61	0.14	6.46	0.22	39	15.7	28	3.7	39	3.74	19.7	0.14	3	0.049	1
H754639	TL09-001	0.01	0.1	8	1	60	0.25	0.03	9.07	0.09	9.34	49.7	151	0.19	145	8.21	19.6	0.12	1.1	0.078	0.21
H754640	TL09-001	<0.005	0.08	7.82	1.2	40	0.29	0.01	7.96	0.08	9.79	48.7	147	0.15	133	8.58	19.95	0.13	1.3	0.081	0.19
H754641	TL09-001	0.011	0.11	8.13	1.1	70	0.26	0.02	8.96	0.1	9.84	53.5	156	0.31	114.5	8.38	20.1	0.13	1.1	0.079	0.28
H754643	TL09-001	0.007	0.07	8.14	1.3	200	0.37	0.05	7.93	0.08	16.2	40.4	139	2.74	68.9	7.49	20.5	0.13	1.7	0.074	0.62
H754644	TL09-001	0.044	0.08	7.08	0.5	310	0.54	0.04	4.65	0.07	32.4	16.1	38	6.43	66.9	9.94	16.95	0.16	2.4	0.035	1.18
H754645	TL09-001	<0.005	0.06	7.18	<5	120	0.3	0.02	12.65	0.11	10.5	42.6	114	0.63	82.7	7.08	15.7	0.11	0.9	0.058	0.31
H754647	TL09-001	0.007	0.08	8.72	0.9	70	0.26	0.01	8.99	0.12	12.4	46.9	149	0.22	98.8	7.93	19.1	0.13	0.9	0.062	0.21

Partial Geochemistry

sample	hole	Au	ME-MS61 Ag	ME-MS61 Al	ME-MS61 As	ME-MS61 Ba	ME-MS61 Be	ME-MS61 Bi	ME-MS61 Ca	ME-MS61 Cd	ME-MS61 Ce	ME-MS61 Co	ME-MS61 Cr	ME-MS61 Cs	ME-MS61 Cu	ME-MS61 Fe	ME-MS61 Ga	ME-MS61 Ge	ME-MS61 Hf	ME-MS61 In	ME-MS61 K
		g/t	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
H754648	TL09-001	0.008	0.11	8.7	1	60	0.31	0.02	8.94	0.11	12	50.3	152	0.27	151	8.94	19.4	0.14	1	0.068	0.24
H754649	TL09-001	<0.005	0.07	8.26	0.7	240	0.43	0.02	6.92	0.09	24.6	41.8	151	0.91	75.7	7.48	19.2	0.15	1.4	0.054	0.49
H754650	TL09-001	<0.005	0.08	8.31	0.9	320	0.29	0.01	7.3	0.07	8.98	51	167	0.89	140.5	8.74	18.5	0.14	0.8	0.06	0.58
H754651	TL09-001	0.017	0.11	7.76	0.6	270	0.49	<0.01	6.27	0.09	22.1	56.5	274	1.4	134.5	7.85	18.05	0.16	1.5	0.051	0.52
H754652	TL09-001	<0.005	0.06	8.24	0.6	270	0.37	0.02	8.48	0.09	18.45	45.5	162	1.66	65.3	7.57	18.2	0.13	1.1	0.057	0.56
H754653	TL09-001	0.018	0.06	6.46	<5	920	0.18	0.01	13.1	0.09	11.35	43.6	121	5.66	109.5	7.09	14.3	0.11	0.6	0.058	1.61
H754654	TL09-001	0.009	0.11	7.45	<5	110	0.27	0.04	10.8	0.11	7.94	43.6	138	0.48	95.7	8.07	16.9	0.11	0.9	0.069	0.25
H754655	TL09-001	0.03	0.06	7.25	0.2	340	0.45	0.02	9.3	0.1	13.55	43.2	156	1.43	86	7.68	16.4	0.13	0.8	0.058	0.63
H754656	TL09-001	0.011	0.07	7.62	0.5	230	0.43	0.02	6.35	0.08	22.9	46.4	175	0.91	103.5	7.53	17.7	0.15	1.4	0.054	0.49
H754657	TL09-001	<0.005	0.08	7.81	0.3	410	0.45	0.02	6.06	0.07	28.2	44.8	179	2.09	72.7	7.48	18.5	0.16	1.6	0.05	0.83
H754658	TL09-001	<0.005	0.09	7.12	0.2	730	1.17	<0.01	3.25	0.05	55.9	15.8	80	4.12	29.2	3.12	21	0.17	2.9	0.025	1.29
H754659	TL09-001	0.006	0.07	7.64	<0.2	330	0.63	<0.01	5.34	0.06	33.7	50.8	315	2.29	50.1	6.28	18.6	0.18	2	0.035	0.71
H754660	TL09-001	0.005	0.06	7.47	0.3	310	0.66	<0.01	5.6	0.07	39.4	43.2	233	1.7	49.3	5.96	18.35	0.18	2.1	0.039	0.63
H754661	TL09-001	0.021	0.13	7.87	<0.2	290	0.59	0.05	6.93	0.08	28.8	45.5	196	1.74	95	6.3	18.85	0.16	1.7	0.054	0.61
H754662	TL09-001	0.014	0.08	7.93	0.2	440	0.73	0.03	5.68	0.06	40.8	38.6	204	3.56	47.9	5.99	19.7	0.17	2.1	0.047	1.04
H754663	TL09-001	0.171	0.12	8.24	1	560	0.64	0.13	6.43	0.06	28.9	41	169	4.28	82.4	6.99	19.25	0.18	1.6	0.057	1.31
H754664	TL09-001	0.248	0.11	6.9	0.4	820	1.12	0.08	3.14	0.06	57.7	15.4	50	2.6	59.2	2.94	20.4	0.17	3	0.023	1.11
H754665	TL09-001	0.033	0.12	7.14	0.4	280	0.58	0.03	7.11	0.07	31.8	38.8	177	1.33	52	6.2	16.95	0.17	1.7	0.044	0.6
H754666	TL09-001	0.116	0.18	7.37	1.3	200	0.45	0.08	8.64	0.05	21.9	44.2	194	1.36	94.8	7.69	16.75	0.09	1.3	0.051	0.55
H754667	TL09-001	0.995	0.36	7.66	1.3	610	0.72	0.22	7.33	0.07	17.45	54.5	157	6.14	170	7.79	18.6	0.14	1.3	0.055	1.75
H754668	TL09-001	0.355	0.11	7.51	<0.2	1290	1.93	0.12	3.08	0.04	66.2	10.1	23	2.87	51.9	2.94	20.8	0.19	3.5	0.023	1.49
H754669	TL09-001	0.014	0.07	6.76	<0.2	830	1.76	<0.01	4.94	0.07	59.5	32.7	379	5.64	31.9	4.53	17.3	0.18	2.8	0.033	1.94
H754670	TL09-001	0.22	0.15	7.41	0.2	810	0.79	0.08	6.51	0.05	34.1	34.5	159	7.35	55.5	7.62	18.65	0.17	1.9	0.042	2.06
H754672	TL09-001	0.013	0.17	7.62	0.2	670	1.64	0.03	4.4	0.07	81.3	26.1	147	4.97	75.2	4.03	20.1	0.22	3	0.045	1.56
H754673	TL09-001	<0.005	0.07	7.63	<0.2	920	1.55	0.07	4.21	0.06	83	24.7	147	4.25	43.1	3.97	19.8	0.21	3	0.037	1.63
H754674	TL09-001	0.005	0.11	7.75	0.5	800	1.55	0.06	4.19	0.06	79.7	22.9	152	3.01	91.1	3.93	19.55	0.21	3	0.032	1.31
H754675	TL09-001	0.021	0.11	7.64	<5	540	0.5	0.22	10.45	0.12	15.95	41.9	144	2.54	268	7.2	16.95	0.15	1.1	0.071	1.19
H754676	TL09-001	<0.005	0.06	7.22	0.5	1220	2.41	0.06	4.78	0.06	67.7	27.1	307	4.62	108.5	4.29	18.2	0.2	3.4	0.029	2.11
H754677	TL09-001	<0.005	0.04	6.92	0.3	1310	2.13	0.04	4.66	0.05	60.7	26.6	324	5.11	44.2	4.27	17	0.21	3.1	0.029	2.38
H754678	TL09-001	<0.005	0.05	6.82	<0.2	1060	1.7	<0.01	4.65	0.07	55	34.6	492	5.06	62.2	4.63	17.15	0.2	2.9	0.03	2.12
H754679	TL09-001	<0.005	0.05	6.61	<0.2	940	1.49	<0.01	4.84	0.07	65	34.7	481	4.47	38.1	4.77	16.85	0.19	2.7	0.033	1.9
H754680	TL09-001	<0.005	0.04	7.61	0.4	1090	1.07	0.01	4.57	0.04	52.6	24.8	132	4.83	30.4	4.46	19.6	0.19	2.6	0.032	1.89
H754681	TL09-001	<0.005	0.04	7.1	0.3	530	1.1	<0.01	3.79	0.03	48.4	20.6	130	1.95	14.1	2.95	19.65	0.19	2.9	0.023	0.9
H754682	TL09-001	<0.005	0.05	7.33	0.2	1150	1.05	0.02	6.54	0.05	60.3	35	219	4.56	11.7	6.54	17.65	0.19	2.1	0.043	1.87
H754683	TL09-001	<0.005	0.05	7.75	0.3	560	1.03	<0.01	4.19	0.04	46.9	24.6	153	1.89	18.7	3.59	19.95	0.18	3	0.027	0.89
H754684	TL09-001	<0.005	0.06	7.82	0.2	650	1.15	<0.01	4.2	0.05	57	26.8	170	2.76	22	3.99	20	0.2	3.2	0.029	1.15
H754685	TL09-001	0.109	0.14	7.48	0.3	1150	1.05	0.05	4.81	0.04	55.3	32.1	188	6.23	29.9	5.16	19.75	0.21	2.7	0.04	2.17
H754686	TL09-001	<0.005	0.06	7.49	0.3	1110	2.22	<0.01	4.75	0.04	68.2	28.9	289	5.01	21.7	4.75	18.8	0.22	3.3	0.031	1.91
H754687	TL09-001	0.02	0.12	6.9	<0.2	1070	1.89	0.03	4.55	0.05	50	25.2	292	6.17	21.1	4.17	17.25	0.18	3.2	0.03	2.3
H754688	TL09-001	0.335	0.56	7.29	<0.2	1020	1.7	0.43	4.14	0.04	68.3	28.9	307	6.51	25.3	4.53	19.3	0.22	3.4	0.029	2.34
H754689	TL09-001	0.029	0.13	6.8	0.4	790	1.46	0.01	2.79	0.03	48	17.8	116	3.97	29.4	2.46	19.85	0.18	3	0.02	1.49
H754690	TL09-001	0.019	0.26	7.12	<0.2	910	1.36	<0.01	4.52	0.04	49.8	26	194	5.68	60.6	3.68	17.7	0.21	2.9	0.029	2.06
H754691	TL09-001	0.127	0.09	6.9	0.3	780	1.08	0.06	3.12	0.03	38.7	17.6	105	3.52	19.1	2.89	20.4	0.17	2.9	0.019	1.51
H754692	TL09-001	<0.005	0.05	7.18	<0.2	700	1.04	<0.01	3.45	0.04	47.3	20.4	156	3.03	33.8	3.52	20.5	0.2	3	0.022	1.46
H754693	TL09-001	<0.005	0.04	7.24	0.5	660	1.05	<0.01	3.44	0.03	44.9	20.9	160	3.48	32	3.57	20.6	0.19	3	0.02	1.53
H754694	TL09-002	<0.005	0.06	8.11	0.5	20	0.24	<0.01	9.08	0.1	8.76	46.9	158	0.14	66.8	8.38	17.45	0.16	1.2	0.064	0.14
H754695	TL09-002	<0.005	0.06	8.04	0.7	20	0.23	<0.01	8.68	0.11	7.79	49.7	152	0.14	99.1	8.75	17.55	0.16	1.1	0.063	0.15

Partial Geochemistry

sample	hole	Au	ME-MS61 Ag	ME-MS61 Al	ME-MS61 As	ME-MS61 Ba	ME-MS61 Be	ME-MS61 Bi	ME-MS61 Ca	ME-MS61 Cd	ME-MS61 Ce	ME-MS61 Co	ME-MS61 Cr	ME-MS61 Cs	ME-MS61 Cu	ME-MS61 Fe	ME-MS61 Ga	ME-MS61 Ge	ME-MS61 Hf	ME-MS61 In	ME-MS61 K
		g/t	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
H754697	TL09-002	<0.005	0.09	7.68	0.6	70	0.22	<0.01	7.88	0.11	8.87	49.3	160	1.86	114	8.57	18	0.18	1.1	0.061	0.35
H754698	TL09-002	<0.005	0.06	7.8	0.3	990	1.48	0.01	4.24	0.06	79.4	24	151	4.48	43.6	4.04	19.7	0.22	2.9	0.033	1.6
H754699	TL09-002	<0.005	0.06	7.68	0.4	1050	1.56	0.03	4.13	0.05	81.5	23.5	148	4.21	36	3.88	19.45	0.24	3	0.034	1.53
H754700	TL09-002	<0.005	0.08	8.08	0.8	120	0.28	0.03	8.04	0.1	8.7	49.8	172	2	84.8	8.86	18.35	0.19	1	0.062	0.46
H754701	TL09-002	<0.005	0.09	7.54	0.9	70	0.28	0.03	7.2	0.12	9.34	47.8	166	0.76	101.5	8.59	17.9	0.18	1.2	0.066	0.25
H754702	TL09-002	<0.005	0.09	7.85	0.7	40	0.31	0.04	7.68	0.13	9.1	50.2	166	0.11	116.5	9.21	18.9	0.18	1.3	0.066	0.17
H754703	TL09-002	<0.005	0.07	6.67	<5	20	0.24	0.04	12.8	0.1	7.13	41.1	128	0.06	133.5	8.73	14.25	0.14	0.8	0.052	0.13
H754704	TL09-002	<0.005	0.08	8.02	0.5	20	0.28	0.03	7.96	0.14	8.35	50.5	156	0.09	104	8.87	18.75	0.16	1.3	0.068	0.14
H754705	TL09-002	0.006	0.09	7.58	0.7	30	0.28	0.02	7.33	0.13	10.2	48.9	156	0.21	111.5	9	18.7	0.18	1.3	0.067	0.15
H754706	TL09-002	<0.005	0.04	7.26	<0.2	660	1.05	0.03	2.69	0.04	42.6	9.5	32	3.15	17.3	2.6	21.5	0.19	2.9	0.024	1.16
H754707	TL09-002	<0.005	0.04	7.23	<0.2	650	1.06	0.03	2.68	0.04	38.5	9.2	30	2.94	14.8	2.59	21.4	0.19	2.9	0.024	1.17
H754708	TL09-002	<0.005	0.03	7.36	<0.2	740	1.08	0.01	2.79	0.04	41	9.3	34	2.45	13	2.7	21.8	0.19	3	0.03	1.42
H754709	TL09-002	<0.005	0.08	6.37	0.5	140	0.34	0.06	7.16	0.09	20	15	26	4.99	117	13.7	15.25	0.2	1.7	0.044	0.82
H754710	TL09-002	<0.005	0.06	8.08	<5	40	0.26	0.05	10.15	0.07	8.62	49.6	177	0.1	151.5	8.12	17.9	0.16	1.1	0.069	0.14
H754711	TL09-002	<0.005	0.07	8.08	0.8	40	0.24	0.01	7.7	0.12	7.86	52.4	172	0.11	110.5	8.6	17.4	0.16	1.2	0.063	0.1
H754712	TL09-002	<0.005	0.06	8.44	0.4	30	0.25	0.01	8.04	0.12	8	53.4	177	0.1	105.5	8.96	18.45	0.2	1.3	0.066	0.11
H754713	TL09-002	<0.005	0.08	8.36	1.1	40	0.25	0.01	8.81	0.13	7.85	52.5	168	0.08	134.5	8.5	17.45	0.2	1.2	0.066	0.12
H754714	TL09-002	<0.005	0.06	8.19	0.9	80	0.26	0.02	9.1	0.12	8.23	52	173	0.06	94.2	8.32	17.95	0.19	1.1	0.068	0.11
H754715	TL09-002	<0.005	0.05	8.28	0.6	50	0.25	0.02	9.35	0.11	13.3	49.7	144	0.05	92.9	7.69	18.25	0.17	1.3	0.065	0.11
H754716	TL09-002	<0.005	0.07	8.28	<0.2	30	0.27	0.01	7.92	0.14	8.17	52.8	173	0.07	122	8.88	18.1	0.19	1.2	0.067	0.1
H754717	TL09-002	0.005	0.08	7.9	0.2	30	0.25	0.01	7.64	0.13	8.35	53	175	0.09	131.5	8.72	18.25	0.18	1.1	0.067	0.1
H754718	TL09-002	<0.005	0.07	8.26	<0.2	40	0.25	0.01	8.02	0.14	8.22	54.3	179	0.1	127.5	8.98	18.45	0.18	1.1	0.067	0.12
H754719	TL09-002	<0.005	0.08	8.12	<5	50	0.23	0.01	10.7	0.13	8.06	51	159	0.05	101	7.61	17.35	0.15	1	0.065	0.11
H754720	TL09-002	0.01	0.06	7.58	<5	50	0.24	<0.01	11.35	0.15	7.54	48.5	157	<0.05	100.5	6.79	16.4	0.14	0.9	0.059	0.15
H754722	TL09-002	0.005	0.06	7.57	<5	50	0.23	<0.01	11.55	0.11	7.51	48.7	152	<0.05	104	7.03	16.15	0.14	0.9	0.061	0.11
H754723	TL09-002	<0.005	0.06	8.38	<5	50	0.25	<0.01	10.45	0.13	7.75	50.7	163	<0.05	103	7.57	17.5	0.15	1	0.062	0.13
H754724	TL09-002	<0.005	0.06	8.11	1.1	40	0.23	0.01	9.21	0.12	8.03	51.9	164	<0.05	104.5	8.13	18	0.14	1.1	0.064	0.14
H754725	TL09-002	<0.005	0.07	8.28	1.9	40	0.26	<0.01	8.88	0.1	7.76	50.7	172	<0.05	109.5	8.11	17.4	0.15	1	0.063	0.12
H754726	TL09-002	0.005	0.06	8.16	0.7	30	0.23	0.01	8.09	0.13	7.86	51.2	171	<0.05	120.5	8.63	17.45	0.14	1.2	0.065	0.09
H754727	TL09-002	0.012	0.09	8.1	<0.2	30	0.24	0.01	7.65	0.16	7.8	49.9	174	<0.05	145.5	8.66	17.25	0.16	1.2	0.064	0.09
H754728	TL09-002	<0.005	0.05	8.38	0.3	40	0.25	0.01	8.62	0.13	8.17	51.8	184	<0.05	120.5	8.52	18	0.14	1.2	0.068	0.12
H754729	TL09-002	0.005	0.06	7.76	<5	40	0.22	<0.01	10.65	0.13	7.2	48.1	159	<0.05	117.5	7.75	16.3	0.13	1	0.061	0.1
H754730	TL09-002	<0.005	0.06	8.16	1	40	0.26	0.01	9.31	0.12	7.63	50.2	173	<0.05	115.5	8.08	17.2	0.15	1.1	0.063	0.11
H754731	TL09-002	<0.005	0.04	7.91	<5	40	0.25	<0.01	11.05	0.1	7.39	48.9	157	<0.05	83.2	7.19	16.55	0.12	0.9	0.06	0.08
H754732	TL09-002	<0.005	0.05	7.92	5	30	0.24	<0.01	11.3	0.13	7.53	48.5	155	<0.05	110	7.27	16.55	0.12	1	0.063	0.09
H754733	TL09-002	<0.005	0.06	7.86	<5	50	0.18	0.03	10.5	0.11	7.53	46.9	156	<0.05	82.2	6.44	16.5	0.08	0.9	0.062	0.12
H754734	TL09-002	0.006	0.05	7.55	<5	190	0.26	0.01	11.2	0.12	8.23	41.6	155	0.63	111.5	8.38	16.15	0.07	0.8	0.058	0.27
H754735	TL09-002	0.006	0.06	7.1	<5	90	0.31	0.06	12.95	0.08	7.08	38.2	135	0.26	92.5	6.26	15.15	0.06	0.7	0.062	0.18
H754736	TL09-002	0.01	0.06	7.35	8	40	0.2	0.04	13.95	0.11	6.61	42	150	0.13	107	6.52	15.7	0.11	0.7	0.055	0.16
H754737	TL09-002	0.094	0.1	6.31	0.9	300	0.33	0.26	9.66	0.1	6.01	35.7	155	2.97	101.5	6.94	13.05	0.07	0.7	0.047	0.7
H754738	TL09-002	0.058	0.07	8.2	0.3	90	0.2	0.08	8.09	0.11	7.48	48.6	174	0.51	84.8	8.48	17.55	0.12	0.9	0.061	0.28
H754739	TL09-002	0.162	0.09	6.8	0.5	730	0.48	0.37	9.61	0.08	16.9	38.3	171	6.31	106	6.36	14.9	0.08	0.9	0.044	1.54
H754740	TL09-002	<0.005	0.02	7.12	0.6	720	0.99	0.06	5.63	0.1	64.4	30.8	340	4.03	25.3	5.48	15.2	0.08	2.4	0.034	1.31
H754741	TL09-002	<0.005	0.03	6.99	<0.2	1110	1.26	0.12	3.02	0.03	48.5	16.4	146	2.85	16.9	2.87	18.3	0.1	2.9	0.021	1.24
H754742	TL09-002	<0.005	0.02	7.08	1	1160	1.4	0.09	3.01	0.03	50.6	14.7	146	2.71	15.2	2.93	17.1	0.09	2.8	0.017	1.52
H754743	TL09-002	0.005	0.02	7.21	0.9	1180	1.37	0.06	3.19	0.04	55.6	15.6	145	2.18	23.2	3.03	17.9	0.1	2.9	0.021	1.56
H754744	TL09-002	<0.005	0.01	7.15	0.8	1070	1.42	0.09	2.91	0.04	50.5	14.8	142	2.53	18.5	2.83	17.45	0.08	2.9	0.021	1.33

Partial Geochemistry

sample	hole	Au	ME-MS61 Ag	ME-MS61 Al	ME-MS61 As	ME-MS61 Ba	ME-MS61 Be	ME-MS61 Bi	ME-MS61 Ca	ME-MS61 Cd	ME-MS61 Ce	ME-MS61 Co	ME-MS61 Cr	ME-MS61 Cs	ME-MS61 Cu	ME-MS61 Fe	ME-MS61 Ga	ME-MS61 Ge	ME-MS61 Hf	ME-MS61 In	ME-MS61 K
		g/t	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
H754745	TL09-002	<0.005	0.01	6.11	1	790	1.09	0.01	2.68	0.03	44.3	15.3	115	3.45	21.4	2.95	13	0.08	2.3	0.016	1.36
H754747	TL09-002	0.005	0.02	6.41	0.5	960	0.88	0.02	5.49	0.07	65.8	37.4	448	4.23	16.3	6.08	14.5	0.11	2.2	0.036	1.66
H754748	TL09-002	0.024	0.09	6.69	<5	430	0.48	0.1	13.1	0.11	11.6	44.8	146	2.15	180	6.52	14.6	0.08	0.8	0.048	0.72
H754749	TL09-002	<0.005	0.07	7.94	<5	40	0.29	0.03	11.05	0.09	9.2	46.9	165	0.05	113.5	7.59	16.75	0.07	0.9	0.058	0.17
H754750	TL09-002	0.005	0.06	8.29	<5	40	0.31	0.01	10.2	0.11	8.99	49.1	179	<0.05	132	7.95	18	0.08	1.1	0.061	0.15
H754751	TL09-002	<0.005	0.07	7.54	10	30	0.28	<0.01	12.3	0.13	8.4	51.6	160	<0.05	168	7.36	18.2	0.08	1	0.062	0.12
H754752	TL09-002	<0.005	0.05	8.49	2.2	30	0.26	0.02	9.54	0.1	8.21	47.2	181	<0.05	113	8.29	17.3	0.06	1.1	0.064	0.13
H754753	TL09-002	<0.005	0.09	8.13	1	40	0.3	0.01	9.41	0.07	9.04	48	171	<0.05	131	8.33	17.35	0.08	1.2	0.058	0.14
H754754	TL09-002	<0.005	0.07	7.99	7	40	0.21	0.03	11.75	0.14	7.76	49.1	169	<0.05	106	7.64	17.4	0.11	0.9	0.06	0.13
H754755	TL09-002	<0.005	0.04	8.55	<5	50	0.35	0.02	10.7	0.09	9.14	54.1	175	0.05	70.4	7.17	18.5	0.06	1	0.06	0.15
H754756	TL09-002	0.006	0.05	6.28	6	20	0.31	0.03	15.2	0.14	7.38	37.6	132	0.07	117	12.6	13.2	0.12	0.6	0.044	0.25
H754757	TL09-002	0.006	0.05	8.17	6	40	0.28	0.02	11.7	0.09	7.55	43.4	170	<0.05	88	7.87	15.55	0.07	1	0.053	0.11
H754758	TL09-002	<0.005	0.06	8.4	<5	50	0.32	0.02	10.85	0.11	9	50.7	164	<0.05	108	7.83	19.05	0.08	1.2	0.06	0.1
H754759	TL09-002	<0.005	0.06	8.53	1.5	60	0.33	0.02	9.56	0.09	8.82	46.4	178	<0.05	108	7.62	17.6	0.08	1	0.058	0.15
H754760	TL09-002	<0.005	0.06	7.4	<5	50	0.25	0.02	13	0.09	7.63	43.7	160	<0.05	120.5	7.66	14.9	0.06	0.9	0.055	0.12
H754761	TL09-002	<0.005	0.12	8.57	0.3	50	0.24	0.05	9.99	0.08	7.79	53	191	<0.05	97.9	8.55	17.9	0.1	1.1	0.063	0.14
H754762	TL09-002	0.015	0.08	7.66	<5	40	0.31	0.06	11.15	0.12	7.78	45.8	195	<0.05	194.5	7.14	15	0.05	0.8	0.052	0.11
H754763	TL09-002	<0.005	0.07	8.43	<5	50	0.2	0.05	11.35	0.09	8.02	51.8	173	<0.05	91.8	7.69	19.2	0.12	1	0.065	0.13
H754764	TL09-002	<0.005	0.07	8.88	1	60	0.33	0.01	8.76	0.1	8.97	52.2	209	<0.05	124.5	6.8	18.45	0.07	0.9	0.058	0.11
H754765	TL09-002	<0.005	0.06	6.74	6	50	0.21	0.02	14.15	0.12	6.06	36.4	127	<0.05	115	5.86	15.75	<0.05	0.7	0.045	0.1
H754766	TL09-002	<0.005	0.07	9.19	<5	60	0.27	0.04	10.75	0.12	8.39	57.1	174	<0.05	115.5	6.74	19.7	0.09	1	0.073	0.11
H754767	TL09-002	0.006	0.06	9.19	1	60	0.24	0.04	9.62	0.12	8.88	54.3	192	<0.05	148	7.67	20.9	0.11	1.2	0.108	0.12
H754768	TL09-002	<0.005	0.05	8.85	1.4	60	0.3	0.02	8.76	0.11	8.12	52.9	192	<0.05	109.5	6.61	18.6	0.06	1	0.068	0.12
H754769	TL09-002	<0.005	0.13	9.28	1.5	70	0.29	0.06	9.21	0.11	8.65	57.4	206	0.07	107	6.77	18.3	0.09	1.1	0.075	0.15
H754770	TL09-002	0.015	0.09	7.96	<0.2	890	1.27	0.04	4.91	0.1	52.8	29.8	138	5.67	80.1	5.7	19.75	0.13	3	0.051	1.55
H754772	TL09-002	0.01	0.1	8.53	0.5	50	0.26	0.07	9.2	0.12	8.28	54.8	176	0.06	129.5	7.83	18.1	0.09	1	0.071	0.17
H754773	TL09-002	<0.005	0.09	8.43	0.6	40	0.26	0.05	9.56	0.11	8.23	53.3	164	<0.05	101	8.7	18.2	0.13	1.1	0.071	0.16
H754774	TL09-002	<0.005	0.05	8.72	1.9	40	0.2	0.04	9.16	0.1	7.26	46.5	177	<0.05	114	8.97	17.9	0.05	1.2	0.064	0.15
H754775	TL09-002	<0.005	0.06	8.77	1.4	40	0.32	0.05	9.96	0.08	8.28	50.7	169	<0.05	79.4	8.3	19.35	0.05	1.2	0.069	0.19
H754776	TL09-002	0.01	0.1	7.38	<5	90	0.24	0.11	16.35	0.09	7.76	47.5	141	0.48	203	6.97	17	0.05	0.9	0.068	0.26
H754777	TL09-002	<0.005	0.04	8.58	<5	240	0.59	0.18	10.3	0.08	24.4	44.1	160	1.22	98.7	8.52	18.75	0.06	1.4	0.076	0.6
H754778	TL09-002	0.009	0.12	8.12	5	290	0.47	0.12	12.65	0.13	13.2	50	152	2.42	215	7.55	17.4	0.11	1	0.067	1
H754779	TL09-002	<0.005	0.07	7.92	2.4	1130	1.87	0.19	5.95	0.07	80.7	32.1	171	3.12	81	5.78	21.8	0.12	3.5	0.053	2.16
H754780	TL09-002	<0.005	0.05	7.96	2.6	1180	1.91	0.25	5.77	0.08	77.6	31	187	3.55	76.2	5.61	21.6	0.15	3.4	0.049	2.38
H754781	TL09-002	0.007	0.1	7.39	3.5	750	2	0.31	7.52	0.11	89.5	42.1	160	4.83	101	7.1	19.2	0.15	3.2	0.061	1.79
H754782	TL09-002	0.005	0.07	9.14	1.2	180	0.38	0.07	9.81	0.12	8.94	55	183	1.08	123.5	8.7	19.1	0.13	1	0.071	0.49
H754783	TL09-002	<0.005	0.07	7.23	5	150	0.19	0.08	11.3	0.09	6.81	41.1	140	1.72	163.5	7.75	16.1	0.07	0.9	0.058	0.57
H754784	TL09-002	0.006	0.04	7.46	<5	60	0.2	0.07	14.75	0.09	6.3	43	150	0.16	114	7.15	15.5	0.06	0.8	0.053	0.17
H754785	TL09-002	<0.005	0.06	9.2	1.5	70	0.28	0.16	8.97	0.08	8.27	55.1	193	0.21	138.5	7.05	19.95	0.06	1.1	0.074	0.14
H754786	TL09-002	0.01	0.09	8.61	1.4	30	0.26	0.04	9.34	0.15	7.79	51.3	164	0.05	164.5	8.39	19.2	0.07	1.2	0.077	0.12
H754787	TL09-002	0.008	0.07	9.27	1.4	20	0.29	0.02	9.39	0.16	8.35	55.8	180	0.07	138	8.6	20.8	0.07	1.3	0.072	0.13
H754788	TL09-002	0.012	0.09	8.5	1	20	0.21	0.03	9.15	0.19	7.75	49.4	170	0.12	132	9.29	18.8	0.08	1.1	0.066	0.14
H754789	TL09-002	0.006	0.07	8.28	0.6	100	0.28	0.07	8.07	0.11	11.9	45.4	136	1.34	111.5	8.88	17.8	0.06	1	0.057	0.45
H754790	TL09-002	0.016	0.1	8.36	0.4	80	0.35	0.08	8.24	0.06	9.51	52.1	159	0.9	111	9.05	18.4	0.14	1.2	0.067	0.49
H754791	TL09-002	0.01	0.08	7.84	1.3	60	0.31	0.14	8.43	0.08	8.6	45.2	142	0.74	98.4	8.69	19.1	0.08	1.2	0.083	0.34
H754792	TL09-002	0.014	0.13	7.66	0.9	70	0.3	0.07	7.87	0.08	7.99	47.5	139	0.81	159	8.75	17.75	0.07	0.8	0.073	0.32
H754793	TL09-002	0.018	0.07	7.92	0.9	170	0.29	0.04	7.75	0.11	8.24	44.5	145	1.65	129	8.68	17.3	0.07	0.6	0.057	0.45

sample	hole	Au	ME-MS61 Ag	ME-MS61 Al	ME-MS61 As	ME-MS61 Ba	ME-MS61 Be	ME-MS61 Bi	ME-MS61 Ca	ME-MS61 Cd	ME-MS61 Ce	ME-MS61 Co	ME-MS61 Cr	ME-MS61 Cs	ME-MS61 Cu	ME-MS61 Fe	ME-MS61 Ga	ME-MS61 Ge	ME-MS61 Hf	ME-MS61 In	ME-MS61 K
		g/t	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
H754794	TL09-002	0.01	0.12	8.43	1.2	30	0.3	0.06	9.5	0.19	7.87	52.8	154	0.14	118	8.59	17.4	0.12	0.7	0.065	0.17
H754795	TL09-002	0.02	0.1	8.41	2.2	40	0.26	0.04	8.15	0.07	7.92	52.2	166	0.18	170.5	8.86	18.45	0.09	1	0.068	0.26
H754797	TL09-002	0.02	0.08	8.17	1.9	30	0.22	0.02	7.5	0.09	6.93	47.2	155	0.18	106.5	8.51	17.45	0.07	0.9	0.061	0.12
H754798	TL09-002	0.021	0.11	8.86	2	30	0.28	0.03	8.4	0.14	7.47	49.9	156	0.1	134.5	9.08	18.5	0.06	1.1	0.067	0.13
H754799	TL09-002	0.012	0.09	8.02	<5	30	0.28	0.06	10.1	0.09	7.58	50.4	142	0.06	119	8.36	16.7	0.12	0.8	0.065	0.11
H754800	TL09-002	0.049	0.13	8.61	<5	60	0.32	0.1	11	0.11	7.53	49.2	165	0.29	117	9.13	18.9	0.08	1	0.066	0.2
H754801	TL09-002	0.014	0.1	8.28	<5	120	0.31	0.16	10.6	0.08	7.84	51.2	150	1.05	118.5	8.53	20.6	0.09	0.9	0.101	0.3
H754802	TL09-002	0.132	0.08	6.98	1.2	530	0.61	0.44	7.21	0.07	23.5	36.5	160	7.13	96.4	7.2	15.05	0.11	1.2	0.055	1.42
H754803	TL09-002	0.025	0.11	7.65	<5	70	0.23	0.16	10.1	0.13	6.59	47.9	163	0.36	124.5	8.26	16.35	0.13	0.7	0.065	0.19
H754804	TL09-002	0.021	0.13	8.03	<5	40	0.25	0.1	10.4	0.15	7.22	46.2	152	0.09	139.5	7.85	16.1	0.05	0.7	0.064	0.12
H754805	TL09-002	1.54	5.8	7.04	<5	120	0.27	0.45	10.8	2.98	6.02	87.9	163	0.98	4850	8.77	15.45	0.11	0.5	0.141	0.24
H754806	TL09-002	0.151	0.2	7.9	0.8	260	0.37	0.2	8.13	0.18	20.6	41.9	121	2.73	221	7.45	18.55	0.06	0.9	0.072	0.54
H754807	TL09-002	0.018	0.07	7.8	<0.2	80	0.51	0.1	6.43	0.09	29.3	28.6	27	0.32	46.2	5.21	17.7	0.1	2.2	0.06	0.13
H754808	TL09-002	0.005	0.02	7.05	1.1	140	0.5	0.35	6.59	0.05	25.4	32.9	160	1.2	26.3	6.82	16.65	0.06	1.7	0.059	0.32
H754809	TL09-002	<0.005	0.06	7.46	<0.2	700	0.4	0.12	5.89	0.07	27	34.6	210	7.75	60.2	6.83	19.3	0.13	1.9	0.061	1.74
H754810	TL09-002	0.005	0.01	6.68	0.8	220	0.53	0.11	6.48	0.07	23.7	53.7	397	2.23	18.4	7.69	17.9	0.08	2.2	0.058	0.54
H754811	TL09-002	0.053	0.7	7.73	0.9	220	0.36	2.39	7.89	0.2	12.1	33.3	189	1.79	733	6.43	16.5	0.05	1.2	0.045	0.47
H754812	TL09-002	0.054	1.62	7.16	5	30	0.25	0.47	11.05	0.59	7.15	46.6	183	0.11	1775	8.1	16.8	0.06	0.9	0.093	0.11
H754813	TL09-002	<0.005	0.05	8.28	1.4	40	0.19	0.22	9.78	0.11	8	46.8	163	0.24	78	7.72	18.35	0.07	1	0.056	0.16
H754814	TL09-002	<0.005	0.04	8.44	1.4	50	0.21	0.2	9.9	0.08	6.68	45	168	0.25	75	7.64	17.75	0.06	1	0.062	0.18
H754815	TL09-002	0.012	0.1	8.23	<0.2	180	0.21	0.08	7.97	0.09	6.81	51.1	173	1.92	82.6	7.93	16.75	0.13	0.8	0.054	0.49
H754816	TL09-002	<0.005	0.04	7.99	0.6	90	0.18	0.08	8.09	0.07	6.39	49.6	171	0.56	40.3	8.01	16.4	0.12	0.8	0.055	0.29
H754817	TL09-002	0.007	0.07	8.54	0.6	30	0.2	0.12	8.66	0.09	7.32	51.6	175	0.15	79.6	8.54	17.85	0.12	0.8	0.067	0.17
H754818	TL09-002	<0.005	0.06	8.85	1.2	120	0.27	0.05	7.86	0.1	8.45	41.9	209	0.77	116	7.63	19.35	0.05	1.2	0.064	0.23
H754819	TL09-002	0.012	0.09	8.16	<0.2	240	0.37	0.03	6.11	0.08	7.18	46.9	194	2.49	110	7.37	16.8	0.11	0.5	0.052	0.58
H754820	TL09-002	0.005	0.04	7.67	1	170	0.33	0.03	9.51	0.08	6.68	43.8	156	1.25	68.5	7.45	17.1	0.05	0.6	0.062	0.35
H754822	TL09-002	0.005	0.03	8.01	0.7	290	0.5	0.02	7.36	0.08	8.14	38.5	177	2.01	73.5	6.79	17.5	0.06	0.7	0.063	0.54
H754823	TL09-002	<0.005	0.04	7.68	<0.2	490	0.85	0.02	3.65	0.03	38.4	12.2	36	3.34	27.1	3.14	18.75	0.11	3	0.032	0.85
H754824	TL09-002	0.006	0.04	8.54	1.2	130	0.21	0.02	7.82	0.07	7.89	46	203	0.76	92	7.74	17.75	0.07	0.6	0.064	0.36
H754825	TL09-002	0.006	0.07	9.02	1.4	170	0.28	0.01	9.08	0.09	8.09	43.8	192	1.44	128.5	7.34	19.45	0.07	0.9	0.069	0.42
H754826	TL09-002	<0.005	0.04	9.26	1.5	220	0.26	0.01	8.77	0.08	7.53	45.1	202	1.22	112.5	7.21	19.25	0.06	0.6	0.064	0.43
H754827	TL09-002	<0.005	0.07	8.73	1.2	70	0.23	0.02	8.37	0.12	8.01	48.7	198	0.31	166	8.15	19.05	0.05	0.8	0.072	0.22
H754828	TL09-002	0.008	0.05	8.35	1.4	90	0.24	0.02	9.17	0.09	8.14	52.2	180	0.36	117	8.05	18.7	0.07	1.1	0.069	0.22
H754829	TL09-002	0.01	0.05	8.07	7	70	0.22	0.01	10.45	0.1	7.65	49.9	171	0.28	102	7.93	17.95	0.07	1	0.059	0.19
H754830	TL09-002	0.008	0.05	8.21	1.2	40	0.2	0.01	8.5	0.1	7.49	49.3	177	0.13	103	8.48	17.95	0.06	1.1	0.066	0.18
H754831	TL09-002	0.011	0.06	7.63	9	130	0.28	0.02	10.65	0.09	8.41	40.1	153	0.73	127	6.97	15.7	0.05	1	0.059	0.23
H754832	TL09-002	0.008	0.06	8.23	1.4	130	0.28	0.03	8.32	0.13	12.85	47.7	163	0.71	123.5	7.86	19.75	0.07	0.9	0.065	0.26
H754833	TL09-002	<0.005	0.05	8.2	1.4	260	0.51	0.06	7.38	0.1	30	41.5	122	1.53	113	6.98	19.9	0.08	1.6	0.057	0.4
H754834	TL09-002	0.006	0.09	7.25	<5	60	0.3	0.09	10.65	0.12	12	50.3	161	0.16	162	7.47	17.15	0.07	1.1	0.065	0.17
H754835	TL09-002	0.005	0.07	8.31	1.3	50	0.24	0.07	9.02	0.13	8.07	51.5	204	<0.05	122.5	8.49	18.65	0.08	1.3	0.069	0.17
H754836	TL09-002	<0.005	0.05	8.26	1.7	100	0.31	0.19	8.74	0.11	8.15	52.3	202	0.53	132.5	8.39	18.35	0.07	1.1	0.067	0.26
H754837	TL09-002	<0.005	0.01	7.57	0.6	710	0.81	0.19	2.96	0.05	34.3	8.9	31	3.13	15.3	2.65	21.5	0.06	2.9	0.026	1.23
H754838	TL09-002	<0.005	<0.01	7.89	0.5	660	0.91	0.21	2.9	0.05	37.2	9.2	37	3.75	15.9	2.69	21.6	0.07	3	0.031	1.17
H754839	TL09-002	<0.005	0.07	8.45	5	150	0.28	0.07	10.15	0.12	11.6	52.4	173	1.08	142	7.81	19.15	0.07	1.3	0.068	0.32
H754840	TL09-002	0.015	0.06	7.74	<5	50	0.21	0.04	13.45	0.19	7.61	48.9	148	0.07	122	6.92	16.8	0.12	0.8	0.06	0.13
H754841	TL09-002	0.005	0.05	7.68	<5	40	0.25	0.04	12.3	0.11	7.57	49.1	156	<0.05	113	7.69	16.85	0.11	0.9	0.063	0.13
H754842	TL09-002	<0.005	0.03	7.74	<5	30	0.25	0.06	12.65	0.08	7.5	46.2	165	<0.05	83.2	6.96	16.4	0.11	1	0.059	0.12

Partial Geochemistry

sample	hole	Au	ME-MS61 Ag	ME-MS61 Al	ME-MS61 As	ME-MS61 Ba	ME-MS61 Be	ME-MS61 Bi	ME-MS61 Ca	ME-MS61 Cd	ME-MS61 Ce	ME-MS61 Co	ME-MS61 Cr	ME-MS61 Cs	ME-MS61 Cu	ME-MS61 Fe	ME-MS61 Ga	ME-MS61 Ge	ME-MS61 Hf	ME-MS61 In	ME-MS61 K
		g/t	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
H754843	TL09-002	<0.005	0.03	8.66	<5	70	0.27	0.07	12.05	0.14	8.75	53.7	177	0.26	96.9	8.08	18.7	0.13	1.2	0.075	0.23
H754844	TL09-002	<0.005	0.03	7.95	0.8	670	1.03	0.02	4.36	0.1	52.9	24.2	95	2.43	47.3	4.43	21.7	0.13	3.2	0.039	1.2
H754845	TL09-002	<0.005	<0.01	7.93	0.8	750	1.17	0.03	4.14	0.06	58.1	23.7	101	3.61	36.4	4.32	22.7	0.13	3.6	0.04	1.44
H754847	TL09-002	<0.005	<0.01	7.58	0.6	840	1.14	0.02	3.53	0.04	56.2	23.8	106	5.92	27	4.34	22.5	0.13	3.5	0.035	1.7
H754848	TL09-003	0.01	0.06	7.02	0.6	750	1.07	0.06	3.1	0.03	45.1	19.4	98	8.24	36.6	3.15	22	0.15	2.2	0.021	1.99
H754849	TL09-003	<0.005	0.04	7.3	0.2	700	1.15	0.13	2.92	0.04	44.5	16.5	86	7.3	13.9	2.87	22.9	0.17	2.2	0.022	1.79
H754850	TL09-003	<0.005	0.03	7.14	<0.2	740	1.22	0.06	2.7	0.03	45.1	14.7	79	6.35	11.4	2.67	21.3	0.16	2.2	0.016	1.74
H754851	TL09-003	<0.005	0.03	7.05	0.5	750	1.23	0.05	2.66	0.03	43.2	14.5	77	5.63	12.2	2.69	20.4	0.17	2.1	0.019	1.75
H754852	TL09-003	<0.005	0.03	7.12	1.3	660	1.18	0.05	2.91	0.04	50.5	15.4	83	5.16	5.5	2.77	19.85	0.17	2.2	0.014	1.7
H754853	TL09-003	<0.005	0.04	7.05	<0.2	730	1.35	0.09	2.64	0.02	51	13.9	73	5.39	10.6	2.71	20.1	0.2	2.1	0.016	1.77
H754854	TL09-003	<0.005	0.02	6.94	0.3	780	1.52	0.07	2.43	0.03	44.8	13.6	73	5.88	9.4	2.53	19.85	0.17	2.2	0.018	1.77
H754855	TL09-003	<0.005	0.02	6.92	0.5	420	1.49	0.04	2.35	0.04	46.4	12.8	62	2.82	6	2.31	17.25	0.17	2.4	0.016	1.38
H754856	TL09-003	<0.005	0.03	7.11	<0.2	730	1.34	0.07	2.56	0.03	38.8	13.2	74	3.79	9.9	2.65	19.2	0.15	2.1	0.016	1.69
H754857	TL09-003	<0.005	0.05	7.21	0.6	680	1.46	0.06	2.4	0.03	40.6	14	77	3.22	17	2.64	20	0.16	2.2	0.021	1.73
H754858	TL09-003	<0.005	0.04	7.07	0.3	730	1.5	0.08	2.78	0.04	43.7	15.3	82	3.26	13.4	2.78	20.2	0.2	2.2	0.019	1.71
H754859	TL09-003	<0.005	0.03	7.37	1.2	730	1.43	0.05	2.59	0.03	52.8	14.3	76	2.52	4.3	2.59	19.85	0.19	2.2	0.015	1.68
H754860	TL09-003	0.007	0.04	7.17	1.1	740	1.39	0.1	2.59	0.03	50.4	14.9	84	2.81	11.8	2.73	20.7	0.19	2.3	0.02	1.75
H754861	TL09-003	0.007	0.03	7.39	0.7	830	1.39	0.07	2.73	0.03	48.2	13.8	71	2.56	4.4	2.75	20	0.19	2.2	0.02	1.71
H754862	TL09-003	<0.005	0.03	7.18	1	800	1.41	0.08	2.36	0.03	45.9	12.1	59	2.1	49.3	2.45	19.7	0.16	2.5	0.016	1.55
H754863	TL09-003	<0.005	0.04	7.35	1.4	880	1.39	0.1	2.18	0.04	46.1	14.2	68	2.59	10.3	2.59	20.5	0.17	2.4	0.018	1.96
H754864	TL09-003	0.006	0.05	7.06	0.2	740	1.22	0.08	2.45	0.03	53.6	13.8	68	2.42	10.3	2.57	19.85	0.18	2.2	0.019	1.67
H754865	TL09-003	0.023	0.15	7.05	0.2	770	1.13	0.21	2.42	0.04	45.7	14.1	73	2.44	64.5	2.78	20.2	0.22	2.1	0.025	1.82
H754866	TL09-003	<0.005	0.07	7.18	0.2	750	1.44	0.08	2.44	0.03	44.2	12.4	69	2.33	9	2.55	20.2	0.21	2.2	0.027	1.68
H754867	TL09-003	<0.005	0.05	7.04	0.4	770	1.31	0.05	2.48	0.04	52.1	12.3	71	2.38	9.9	2.61	20.1	0.23	2.2	0.026	1.65
H754868	TL09-003	<0.005	0.04	7.11	<0.2	770	1.19	0.05	2.45	0.04	49.1	12.3	67	2.27	12.3	2.57	19.85	0.24	2.2	0.024	1.71
H754869	TL09-003	0.007	0.03	7.26	<0.2	780	1.27	0.06	2.59	0.04	47.6	12.3	67	2.24	20.2	2.63	19.8	0.24	2.2	0.029	1.71
H754870	TL09-003	0.022	0.05	7.35	<0.2	800	1.42	0.07	2.61	0.04	45.5	13.3	71	2.35	16.4	2.68	20.6	0.24	2.3	0.025	1.83
H754872	TL09-003	0.006	0.04	7.52	<0.2	780	1.34	0.14	2.55	0.05	41.6	12.1	62	2.21	7.4	2.54	19.65	0.22	2.2	0.033	1.69
H754873	TL09-003	<0.005	0.04	7.42	<0.2	800	1.32	0.05	2.44	0.04	45.7	12.6	59	2.51	7.1	2.56	20.5	0.25	2.2	0.029	1.81
H754874	TL09-003	0.012	0.03	7.34	<0.2	770	1.25	0.04	2.89	0.04	43.2	12.8	62	2.93	5.8	2.55	19.65	0.26	2.2	0.033	2.19
H754875	TL09-003	<0.005	0.03	7.36	<0.2	760	1.17	0.05	2.62	0.03	41.8	13	69	2.53	8.2	2.7	19.9	0.19	2.1	0.024	1.94
H754876	TL09-003	0.006	0.03	7.26	0.7	710	1.31	0.08	2.73	0.05	42.9	12.9	68	2.26	15.2	2.6	20.2	0.23	2.2	0.027	1.5
H754877	TL09-003	<0.005	0.05	7.59	0.2	860	1.35	0.05	2.97	0.05	45.2	15.3	83	3.1	18.9	2.93	20.8	0.28	2.1	0.026	1.81
H754878	TL09-003	0.027	0.08	7.33	0.7	880	1.59	0.08	3.04	0.04	48.6	16.4	88	3.3	20.8	3.13	18.95	0.26	2.9	0.031	1.84
H754879	TL09-003	0.007	0.11	7.25	0.3	550	1.31	0.05	5.57	0.06	52.7	18.5	107	2.56	33	6.34	16.9	0.24	2.4	0.053	1.26
H754880	TL09-003	0.082	0.11	6.6	4.7	90	0.79	0.09	9.86	0.06	41.3	21.5	27	0.56	44.2	7.41	17.95	0.14	3.1	0.13	0.32
H754881	TL09-003	0.094	0.25	6.26	2.5	340	0.75	0.08	4.54	0.07	33.5	20.5	27	2.88	260	8.36	13.2	0.18	2.3	0.071	1.28
H754882	TL09-003	<0.005	0.06	7.04	0.9	570	1.5	<0.01	2.91	0.03	50	11.7	53	2.91	14.1	3.09	18.5	0.22	2.6	0.025	1.22
H754883	TL09-003	0.074	0.14	6.9	<0.2	470	1.23	0.08	4.32	0.09	55	26.7	196	3.15	63.8	6.26	16.25	0.26	2.6	0.037	1.12
H754884	TL09-003	0.005	0.12	7.51	0.5	770	1.34	0.09	4.23	0.07	57.9	30.2	244	4.63	57.2	4.69	17.05	0.23	2.5	0.037	1.54
H754885	TL09-003	<0.005	0.12	7.64	0.5	770	1.43	0.1	4.18	0.07	63.8	32.7	256	4.98	45.1	4.78	18.3	0.26	2.6	0.045	1.47
H754886	TL09-003	0.018	0.15	7.46	0.2	750	1.37	0.11	4.15	0.08	59.3	31.1	246	4.23	63.6	4.58	17.55	0.26	2.7	0.043	1.44
H754887	TL09-003	<0.005	0.05	7.55	<0.2	760	1.31	0.05	2.73	0.04	46	12.7	68	3.03	10.9	2.62	19.55	0.22	2.2	0.027	1.22
H754888	TL09-003	<0.005	0.05	6.77	0.3	600	1.35	0.07	2.53	0.05	44.6	12.4	95	2.9	4.1	2.42	16.5	0.19	2	0.033	1.18
H754889	TL09-003	<0.005	0.07	7.46	0.8	650	1.63	0.08	2.89	0.05	49.4	14.5	82	3.32	14.4	2.77	20.5	0.25	2.6	0.031	1.29
H754890	TL09-003	0.018	0.12	7.36	<0.2	660	1.57	0.08	4.17	0.08	58.3	29.6	232	3.23	54.2	4.42	16.85	0.25	2.6	0.038	1.22
H754891	TL09-003	<0.005	0.1	7.52	0.2	810	1.37	0.05	4.17	0.06	58.6	31	245	4.77	23.4	4.62	17.05	0.25	2.6	0.04	1.49

Partial Geochemistry

sample	hole	Au	ME-MS61 Ag	ME-MS61 Al	ME-MS61 As	ME-MS61 Ba	ME-MS61 Be	ME-MS61 Bi	ME-MS61 Ca	ME-MS61 Cd	ME-MS61 Ce	ME-MS61 Co	ME-MS61 Cr	ME-MS61 Cs	ME-MS61 Cu	ME-MS61 Fe	ME-MS61 Ga	ME-MS61 Ge	ME-MS61 Hf	ME-MS61 In	ME-MS61 K
		g/t	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
H754892	TL09-003	<0.005	0.08	7.48	0.6	650	1.36	0.04	4.08	0.07	57.6	30.3	258	2.88	22.6	4.7	16.55	0.22	2.7	0.039	1.05
H754893	TL09-003	0.006	0.13	7.28	0.3	630	1.33	0.07	4.27	0.07	55.1	30.2	236	3.6	47.1	4.52	16.5	0.24	2.6	0.038	1.12
H754894	TL09-003	0.015	0.13	8.01	0.9	1300	1.55	0.12	4.29	0.07	119.5	29.5	47	6.89	85.7	6.01	23.2	0.25	3.7	0.061	2.03
H754895	TL09-003	<0.005	0.12	7.43	<0.2	780	1.42	0.06	3.95	0.08	57	30.3	249	4.7	47.2	4.56	16.8	0.22	2.7	0.038	1.48
H754897	TL09-003	0.012	0.11	7.44	<0.2	670	1.38	0.1	4.09	0.07	54	29.8	209	4.11	49.4	4.59	17.15	0.23	2.7	0.035	1.28
H754898	TL09-003	0.007	0.08	7.55	<0.2	580	1.19	0.06	4.27	0.06	45.6	31.6	184	3.43	33.3	4.98	17.75	0.22	2	0.042	1.1
H754899	TL09-003	0.011	0.13	7.37	<0.2	630	1	0.04	4.45	0.05	46.7	33.8	194	3.91	79.8	5.27	17.25	0.22	2.1	0.041	1.21
H754900	TL09-003	0.007	0.12	7.56	<0.2	650	1.37	0.04	4.84	0.07	53.2	37.1	214	4.25	68.2	5.67	18.1	0.25	2.5	0.049	1.2
H754901	TL09-003	<0.005	0.11	7.53	0.3	600	1.1	0.04	4.87	0.07	49.9	35.7	216	3.89	47.9	5.68	17	0.23	2.4	0.041	1.17
H754902	TL09-003	<0.005	0.1	7.6	<0.2	660	1.24	0.05	4.96	0.08	50.4	37.2	232	4.05	54.8	5.89	17.4	0.26	2.3	0.045	1.18
H754903	TL09-003	<0.005	0.04	7.56	<0.2	560	0.99	0.05	4.05	0.07	49.4	25.9	148	2.47	25.2	4.18	18.5	0.15	2.3	0.037	0.96
H754904	TL09-003	<0.005	0.07	7.87	<0.2	690	0.94	0.05	4.83	0.06	48.6	37.1	214	3.5	50.3	5.78	20.4	0.16	2.5	0.045	1.24
H754905	TL09-003	<0.005	0.04	7.68	0.2	590	0.85	0.05	4.98	0.08	47	37.7	240	3.81	52.9	5.9	18.9	0.16	2.5	0.046	1.11
H754906	TL09-003	0.005	0.05	7.33	<0.2	570	0.89	0.05	4.84	0.08	47.3	36.8	225	3.71	74.3	5.79	18.55	0.16	2.5	0.044	1.05
H754907	TL09-003	<0.005	0.05	7.61	<0.2	620	0.87	0.05	5.04	0.07	50.5	41.1	238	4.05	64	6.02	19.95	0.17	2.6	0.045	1.13
H754908	TL09-003	<0.005	0.05	7.56	0.2	620	0.89	0.05	4.86	0.06	48	38.6	224	3.89	59.8	5.84	19.3	0.18	2.4	0.047	1.13
H754909	TL09-003	<0.005	0.04	8.25	0.5	680	0.87	0.06	5.34	0.07	48.9	40.1	248	4.14	75	6.34	20.2	0.19	2.6	0.046	1.25
H754910	TL09-003	<0.005	0.07	7.92	0.3	660	1.03	0.07	5.1	0.07	50.9	40.1	226	4.02	50.4	6.18	20	0.15	2.7	0.048	1.22
H754911	TL09-003	<0.005	0.07	6.87	<0.2	510	0.83	0.04	4.55	0.06	45	33.4	202	2.88	29.7	5.16	16.75	0.15	2.4	0.039	0.94
H754912	TL09-003	<0.005	0.05	7.33	<0.2	560	0.87	0.05	4.72	0.26	46	37.7	241	3.22	70	5.8	18.4	0.15	2.5	0.044	1.01
H754913	TL09-003	<0.005	0.07	7.42	<0.2	640	0.94	0.05	4.83	0.07	47.2	40.3	255	3.76	69.6	5.89	19.6	0.17	2.4	0.049	1.17
H754914	TL09-003	<0.005	0.04	7.1	<0.2	650	0.76	0.03	5.31	0.06	43.7	39.4	256	3.84	45.5	5.99	18.1	0.16	2.3	0.045	1.12
H754915	TL09-003	0.013	0.12	7.07	0.3	490	0.77	0.07	4.95	0.08	43.9	40.5	255	2.89	67.8	5.98	18.35	0.16	2.1	0.051	0.9
H754916	TL09-003	0.011	0.08	8	0.7	700	0.9	0.08	5.22	0.09	49.1	43.3	287	4.26	39.1	6.76	20.5	0.19	2.5	0.049	1.28
H754917	TL09-003	<0.005	0.06	7.58	0.3	650	1.07	0.05	5.21	0.09	53.1	40.1	270	3.71	68.3	6.19	19.5	0.18	2.6	0.044	1.21
H754918	TL09-003	0.008	0.05	7.54	<0.2	750	1.01	0.06	5.1	0.08	51.8	40.1	279	4.13	54.7	6.26	18.75	0.18	2.5	0.049	1.4
H754919	TL09-003	<0.005	0.04	7.49	<0.2	870	0.97	0.07	4.81	0.07	50.8	39.6	266	4.45	54.9	6.21	19.35	0.18	2.6	0.048	1.57
H754920	TL09-003	<0.005	0.05	7.56	<0.2	760	0.94	0.07	4.35	0.06	51.2	29.6	247	2.67	45.3	4.84	18	0.15	2.3	0.035	1.28
H754922	TL09-003	<0.005	0.15	7.5	<0.2	840	1.15	0.1	4.23	0.06	57.6	31.5	238	2.97	51.5	4.67	19.65	0.16	2.4	0.039	1.37
H754923	TL09-003	<0.005	0.05	7.48	<0.2	820	1.2	0.1	4.26	0.07	56.4	31	239	3.17	38.4	4.69	19.3	0.18	2.8	0.039	1.4
H754924	TL09-003	0.111	0.09	7.49	<0.2	1260	1.34	0.04	4.99	0.08	59.1	32.1	183	6.86	69.8	5.44	20	0.19	3.4	0.047	2.59
H754925	TL09-003	0.026	0.05	7.75	<0.2	600	1.06	0.04	4.7	0.06	39.8	32.9	118	2.66	37	5.93	20.2	0.16	2.1	0.049	1.06
H754926	TL09-003	0.044	0.04	7.67	<0.2	610	0.74	<0.01	4.26	0.06	42.3	32.3	172	2.68	19.4	4.91	20.7	0.16	2.6	0.04	1.09
H754927	TL09-003	0.007	0.04	7.75	<0.2	540	0.75	<0.01	4.44	0.07	34.7	32.8	164	2.5	17.1	5.45	20.6	0.17	2.5	0.041	1.02
H754928	TL09-003	0.005	0.03	7.69	<0.2	510	0.83	0.03	4.69	0.06	38.9	33.8	153	2.54	23.6	5.84	20.3	0.17	2.4	0.049	0.93
H754929	TL09-003	0.005	0.08	8	<0.2	580	0.81	0.06	5.33	0.07	30	37.2	136	2.79	57.4	6.51	20.5	0.17	2.1	0.052	1.06
H754930	TL09-003	<0.005	0.04	7.51	<0.2	910	1.37	0.09	3.9	0.06	61.5	25	210	4.76	33.6	3.89	19.15	0.2	3	0.03	1.65
H754931	TL09-003	<0.005	0.05	7.88	0.4	1050	1.5	0.09	4	0.06	61.6	26.2	238	4.77	32.4	4.05	19.95	0.18	3.1	0.035	1.79
H754932	TL09-003	<0.005	0.07	7.52	0.6	970	1.48	0.1	3.85	0.07	55.8	26.7	224	4.58	33.6	4.22	20.4	0.16	3	0.034	1.71
H754933	TL09-003	0.005	0.07	7.74	0.3	400	0.61	0.03	6.16	0.12	23.9	41.7	96	2.92	82.7	8.31	20.9	0.17	1.9	0.07	0.85
H754934	TL09-003	0.027	0.14	7.57	0.2	210	0.56	0.01	5.15	0.19	22.7	40.7	48	2.38	208	9.6	21.8	0.19	2.8	0.083	0.54
H754935	TL09-003	<0.005	0.05	7.25	<0.2	70	0.46	0.01	5.98	0.12	13.85	44.5	63	0.68	76.7	9.95	20.9	0.17	1.5	0.104	0.21
H754936	TL09-003	0.011	0.08	8.02	<0.2	90	0.39	0.01	6.79	0.14	13.55	49.3	100	1.13	143.5	10.1	21.5	0.16	1.3	0.099	0.27
H754937	TL09-003	0.011	0.13	7.14	0.3	100	0.52	<0.01	5.74	0.16	16.45	53.1	21	1.28	252	11.85	23.4	0.19	1.9	0.121	0.26
H754938	TL09-003	<0.005	0.05	7.94	<0.2	430	0.9	0.01	4.9	0.1	48.9	31.5	101	4.31	64.3	5.74	21.4	0.17	3.1	0.051	0.7
H754939	TL09-003	<0.005	0.07	6.88	0.3	170	0.57	<0.01	5.42	0.15	15.45	46.9	11	1.45	101	11	22.8	0.18	2.2	0.101	0.28
H754940	TL09-003	<0.005	0.07	7.12	0.2	50	0.48	0.01	5.86	0.16	14.15	47.9	8	0.42	70.7	11.25	25	0.18	2.1	0.111	0.15

Partial Geochemistry

sample	hole	Au	ME-MS61 Ag	ME-MS61 Al	ME-MS61 As	ME-MS61 Ba	ME-MS61 Be	ME-MS61 Bi	ME-MS61 Ca	ME-MS61 Cd	ME-MS61 Ce	ME-MS61 Co	ME-MS61 Cr	ME-MS61 Cs	ME-MS61 Cu	ME-MS61 Fe	ME-MS61 Ga	ME-MS61 Ge	ME-MS61 Hf	ME-MS61 In	ME-MS61 K
		g/t	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
H754941	TL09-003	<0.005	0.04	6.4	0.4	50	0.53	0.01	5.77	0.29	19.5	45.5	7	0.53	74.6	11	23.9	0.17	2.3	0.12	0.14
H754942	TL09-003	<0.005	0.08	6.6	1.1	30	0.52	0.04	6.76	0.55	18.15	43.7	5	0.12	132.5	10.9	24.9	0.16	2.5	0.123	0.1
H754943	TL09-003	0.007	0.04	6.86	<0.2	90	0.57	<0.01	6.96	0.16	19.15	44.4	11	0.93	79.9	10.2	22.7	0.17	1.8	0.102	0.21
H754944	TL09-003	<0.005	0.04	7.42	0.3	30	0.27	<0.01	6.96	0.08	9.95	46.3	28	0.26	69.8	9.29	20.3	0.15	1.3	0.086	0.13
H754945	TL09-003	<0.005	0.08	7.78	0.2	40	0.27	<0.01	7.11	0.12	8.99	49.1	60	0.49	155.5	9.58	19.9	0.16	1.2	0.086	0.17
H754947	TL09-003	<0.005	0.08	7.58	0.3	50	0.3	<0.01	6.8	0.15	10.45	47.5	63	0.73	124	9.22	20.3	0.16	1.3	0.088	0.21
H754948	TL09-003	<0.005	0.03	7.46	<0.2	60	0.3	0.02	6.82	0.15	10.15	45.4	69	1.22	57.8	9	20	0.15	1.5	0.084	0.29
H754949	TL09-003	<0.005	0.04	8.14	<0.2	80	0.27	0.01	7.28	0.09	8.46	46.4	101	1.46	86	8.39	19.9	0.14	1.5	0.075	0.39
H754950	TL09-003	<0.005	0.06	7.7	0.7	150	0.48	<0.01	6.19	0.12	13.75	42.9	95	1.42	92.2	7.55	19.15	0.13	1.8	0.072	0.5
H754951	TL09-003	<0.005	0.05	8.11	0.2	130	0.3	0.01	7.07	0.08	8.75	42.9	145	1.07	109.5	8.08	18.9	0.15	1.6	0.073	0.44
H754952	TL09-003	<0.005	0.05	7.78	1.1	190	0.62	0.03	6.33	0.09	35.3	41.1	214	1.32	53.9	7.02	19.85	0.15	1.9	0.059	0.51
H754953	TL09-003	<0.005	0.07	7.38	0.4	140	0.57	0.02	6.66	0.08	32.1	37.4	184	0.9	51.3	6.84	17.95	0.16	1.8	0.061	0.37
H754954	TL09-003	<0.005	0.03	8.2	<0.2	110	0.37	0.01	7.24	0.07	9.62	43.4	109	0.89	40.8	8.18	19.45	0.16	1.5	0.077	0.37
H754955	TL09-003	0.005	0.05	7.99	0.2	90	0.23	0.01	7.09	0.08	8.24	47.2	144	0.93	96.7	8.28	18.75	0.15	1.3	0.07	0.35
H754956	TL09-003	<0.005	0.06	7.98	<0.2	110	0.25	0.01	6.59	0.07	8.53	45.1	133	1.03	101.5	8.46	19.6	0.14	1.6	0.071	0.39
H754957	TL09-003	<0.005	0.05	7.54	0.2	140	0.46	<0.01	6.23	0.08	23.4	41.4	184	1.07	91.6	7.17	18.45	0.14	1.7	0.061	0.4
H754958	TL09-003	0.011	0.05	7.74	0.6	300	0.66	<0.01	5.65	0.06	47.1	37.7	258	1.95	115.5	6.07	20.1	0.17	2.1	0.057	0.62
H754959	TL09-003	0.005	0.05	7.8	0.2	270	0.81	0.01	5.72	0.07	34.1	41.9	220	2.17	70.5	6.82	20	0.17	2	0.057	0.62
H754960	TL09-003	<0.005	0.05	7.4	<0.2	190	0.47	0.01	6.4	0.08	18.4	43	114	1.8	31.3	7.64	19.6	0.15	1.8	0.068	0.49
H754961	TL09-003	<0.005	0.07	7.79	<0.2	130	0.35	0.01	7.16	0.1	10.55	48.5	97	1.61	107	9.51	20.7	0.15	1.8	0.086	0.48
H754962	TL09-003	0.007	0.08	8.31	0.4	100	0.25	0.01	6.63	0.09	8.79	43.2	156	1.67	116	7.37	18.85	0.15	1.4	0.065	0.55
H754963	TL09-003	0.006	0.07	8.57	0.8	60	0.21	<0.01	7.35	0.09	8.01	45.7	179	1.04	175.5	8.2	19.8	0.14	1.5	0.079	0.48
H754964	TL09-003	<0.005	0.09	8.08	0.4	50	0.26	<0.01	7.28	0.08	9.76	43.2	164	0.9	117	7.87	18.8	0.14	1.5	0.074	0.32
H754965	TL09-003	<0.005	0.03	8.47	<0.2	50	0.23	0.02	7.37	0.06	6.68	41	164	1.19	54.3	7.8	19.85	0.14	1.5	0.066	0.35
H754966	TL09-003	0.008	0.06	8.35	<0.2	40	0.21	<0.01	7.15	0.07	7.98	42.8	193	0.69	154.5	7.74	19.25	0.14	1.6	0.072	0.27
H754967	TL09-003	<0.005	0.06	8.47	0.7	50	0.29	<0.01	7.4	0.07	9.85	39.5	194	0.62	118	7.4	19.7	0.13	1.6	0.077	0.3
H754968	TL09-003	0.006	0.14	8.34	1.2	120	0.28	<0.01	7.04	0.08	8.66	43.1	227	0.6	160	7.49	20	0.14	1.8	0.074	0.57
H754969	TL09-003	<0.005	0.05	9	0.5	120	0.3	0.01	7.61	0.07	8.03	47.2	201	1.64	58.3	8.16	21.1	0.14	1.6	0.069	0.56
H754970	TL09-003	<0.005	0.08	8.23	<0.2	200	0.75	0.01	5.72	0.06	37.5	36.8	138	3.31	62	6.2	21.1	0.16	2.6	0.051	0.69
H754972	TL09-003	0.008	0.07	7.88	1.3	60	0.33	0.01	6.79	0.09	14.25	45	256	0.73	102.5	8.2	19.5	0.14	2.1	0.073	0.24
H754973	TL09-003	0.028	0.09	8.35	0.7	100	0.26	0.01	9.3	0.08	8.86	44.2	195	2	183	7.13	17.8	0.12	1.2	0.064	0.45
H754974	TL09-003	<0.005	0.05	8.29	0.9	70	0.24	0.01	6.77	0.1	7.03	45.9	243	1.4	101.5	7.68	18.4	0.14	1.4	0.062	0.38
H754975	TL09-003	0.008	0.08	7.75	0.2	40	0.19	<0.01	7.27	0.09	7.17	48.4	320	0.91	144.5	8.01	17.25	0.14	1.4	0.072	0.28
H754976	TL09-003	0.024	0.09	8.16	0.4	40	0.22	0.01	6.92	0.1	7.38	49.6	309	0.8	156	7.92	18.3	0.14	1.3	0.076	0.25
H754977	TL09-003	0.011	0.07	7.71	0.5	50	0.16	0.01	7.24	0.1	6.8	52.1	343	0.81	96.2	8.07	18.3	0.15	1.3	0.067	0.3
H754978	TL09-003	<0.005	0.04	8.37	<0.2	50	0.15	<0.01	7.53	0.1	6.41	45.8	323	0.69	46.3	7.18	16.65	0.14	1.3	0.06	0.26
H754979	TL09-003	<0.005	0.04	8	0.3	30	0.16	<0.01	7.63	0.08	5.6	48.2	292	0.49	46.8	7.31	16.15	0.13	1.2	0.051	0.17
H754980	TL09-003	<0.005	0.04	7.99	<0.2	30	0.18	<0.01	7.73	0.08	5.76	52.3	292	0.52	35	7.7	16.35	0.13	1.2	0.058	0.18
H754981	TL09-004	0.024	0.05	6.39	2.4	490	1.37	0.02	1.55	0.02	49.5	6.4	34	1.62	33.6	1.52	15.4	0.07	4.2	0.01	0.91
H754982	TL09-004	0.011	0.05	8.7	1.1	460	0.38	0.06	6.35	0.06	8.12	43.8	91	2.79	34.7	6.16	16.4	0.12	0.6	0.041	1.41
H754983	TL09-004	<0.005	0.07	8.04	1	430	1.01	0.03	4.92	0.06	45.7	36.8	223	3.6	58.7	5.49	17.15	0.12	2.4	0.038	1.41
H754984	TL09-004	<0.005	0.32	8.13	1.6	1010	1.48	0.05	4.38	0.05	91.7	28.4	35	6.02	115	6.19	20.4	0.19	3.4	0.052	2.77
H754985	TL09-004	<0.005	0.07	8.91	0.8	290	0.26	0.03	7.53	0.08	9.99	47.4	91	2.75	45.4	6.57	14.9	0.13	0.7	0.037	1.63
H754986	TL09-004	0.01	0.05	8.96	0.9	310	0.32	0.02	6.59	0.07	6.07	44.7	73	2.19	59.1	5.86	15.8	0.1	0.5	0.039	1.69
H754987	TL09-004	0.008	0.04	9.2	0.5	450	0.34	0.02	6.46	0.05	6.22	40.9	71	2.89	40.7	5.64	16.35	0.11	0.4	0.035	2.23
H754988	TL09-004	0.006	0.03	7.37	2.3	520	1.44	0.04	2.43	0.06	46.4	9.9	41	1.67	21.7	2.08	17.35	0.08	3.1	0.015	1.02
H754989	TL09-004	0.008	0.03	8.81	1	200	0.22	0.04	6.74	0.04	5.43	45.6	82	1.15	47.8	5.71	15.85	0.09	0.5	0.035	0.94

sample	hole	Au	ME-MS61 Ag	ME-MS61 Al	ME-MS61 As	ME-MS61 Ba	ME-MS61 Be	ME-MS61 Bi	ME-MS61 Ca	ME-MS61 Cd	ME-MS61 Ce	ME-MS61 Co	ME-MS61 Cr	ME-MS61 Cs	ME-MS61 Cu	ME-MS61 Fe	ME-MS61 Ga	ME-MS61 Ge	ME-MS61 Hf	ME-MS61 In	ME-MS61 K
		g/t	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
H754990	TL09-004	<0.005	0.02	8.99	1.1	130	0.18	0.02	6.6	0.04	4.49	49	76	0.93	42.7	6.12	16.05	0.1	0.5	0.036	0.57
H754991	TL09-004	0.032	0.03	8.26	1.8	140	0.71	0.03	4.8	0.05	14.2	30.9	60	0.98	48.5	4.2	15.5	0.08	1.4	0.024	0.62
H754992	TL09-004	<0.005	0.03	9.51	1.3	80	0.17	0.02	7.06	0.06	4.39	45.8	83	0.65	18.4	5.95	16.45	0.11	0.5	0.035	0.38
H754993	TL09-004	0.006	0.02	9.56	0.9	70	0.21	0.01	6.87	0.05	4.43	42.2	81	0.58	43.5	5.82	16.45	0.11	0.5	0.036	0.38
H754994	TL09-004	0.008	0.03	9.81	0.9	110	0.16	0.01	6.8	0.04	4.34	43.9	73	1.12	78.6	5.95	16.65	0.11	0.5	0.041	0.48
H754995	TL09-004	0.006	0.06	10.15	0.8	80	0.18	0.02	7.32	0.05	6.38	41.9	86	0.63	56.8	5.77	16.4	0.09	0.6	0.038	0.36
H754997	TL09-004	0.008	0.01	9.58	0.8	240	0.31	0.02	6.39	0.05	6.37	39	94	1.28	9.4	5.8	16.55	0.11	0.4	0.036	1.44
H754998	TL09-004	0.157	0.12	2.52	1.7	60	0.25	0.11	2.28	0.02	7.66	13	22	0.43	57.7	1.53	4.05	<0.05	0.3	0.008	0.34
H754999	TL09-004	1.005	0.13	7.46	1.7	160	0.61	0.04	2.28	0.03	29.3	28.2	111	1.21	187.5	4.96	15.5	0.1	1.9	0.03	0.69
H755000	TL09-004	0.033	0.03	8.82	1	280	0.66	0.03	4.23	0.06	46.3	34.8	44	1.52	69.9	7.43	20.1	0.14	2.3	0.054	0.79
H755001	TL09-004	0.007	0.03	8.05	1.2	150	0.6	0.05	5.36	0.07	42.6	34.8	150	0.53	27.9	6.9	18.4	0.13	2.1	0.053	0.34
H755002	TL09-004	0.007	0.02	8.63	1	160	0.47	0.05	5.33	0.06	39.7	31.2	13	0.66	34	6.94	18.75	0.13	1.8	0.049	0.3
H755003	TL09-004	0.006	0.02	8.73	0.8	210	0.55	0.04	5.12	0.08	39.6	35.7	118	0.72	41.5	7.49	18.9	0.12	2.2	0.056	0.48
H755004	TL09-004	0.005	0.02	8.33	0.8	170	0.61	0.04	4.69	0.06	43.5	34.8	133	0.71	33.8	6.73	17.45	0.13	1.9	0.052	0.33
H755005	TL09-004	0.005	0.03	8.77	0.9	250	0.62	0.04	5.12	0.07	51	32.7	90	0.59	43.5	7.13	19.1	0.14	2.3	0.055	0.38
H755006	TL09-004	0.007	0.03	8.64	0.5	320	0.67	0.02	4.71	0.06	41.5	33.6	34	1.17	55.2	7.46	18.95	0.14	2.2	0.052	0.46
H755007	TL09-004	0.008	0.03	8.02	1	580	1.06	0.07	5.16	0.08	57.1	31.7	234	2.26	55.8	6.28	16.4	0.12	2.2	0.05	0.83
H755008	TL09-004	<0.005	0.02	7.34	0.9	760	1.72	0.03	4.25	0.06	99.4	30	333	3.82	15.6	4.37	17.05	0.15	2.8	0.032	1.17
H755009	TL09-004	0.02	0.05	8.14	0.8	470	0.78	0.04	5.01	0.08	55.3	33.3	24	3.53	44.9	7.15	20.2	0.17	2.3	0.055	0.8
H755010	TL09-004	0.172	0.1	8.74	0.6	410	0.73	0.09	4.94	0.08	46.1	36.5	22	3.54	76.5	7	20.1	0.16	1.8	0.05	0.77
H755011	TL09-004	0.011	0.05	8.58	0.6	180	0.75	0.03	4.7	0.11	60.9	35.8	11	0.95	64.2	7.45	22.3	0.18	2.6	0.059	0.27
H755012	TL09-004	0.005	0.04	8.63	0.7	220	0.65	0.03	4.38	0.09	55.1	34.9	9	1.21	54.7	7.7	21.4	0.17	2.5	0.059	0.31
H755013	TL09-004	0.006	0.02	8.79	0.3	220	0.67	0.03	4.6	0.09	54.4	37.4	9	1.04	50.3	7.67	22.4	0.18	2.4	0.059	0.28
H755014	TL09-004	0.005	0.06	8.73	<0.2	220	0.65	0.04	4.99	0.09	58.1	38.5	10	0.98	65.1	7.81	22.8	0.19	2.5	0.06	0.34
H755015	TL09-004	0.006	0.03	8.57	0.2	230	0.66	0.03	5.32	0.1	56.4	35.5	9	0.76	57.8	7.52	21.4	0.18	2.4	0.06	0.24
H755016	TL09-004	0.007	0.05	8.86	0.5	260	0.62	0.04	5.7	0.13	54.5	36.8	8	1	70.1	7.78	22	0.17	2.4	0.059	0.41
H755017	TL09-004	0.009	0.08	8.21	0.4	260	0.72	0.05	5.58	0.14	59.1	36.5	15	1.84	62.5	7.34	22	0.17	2.5	0.059	0.51
H755018	TL09-004	0.014	0.07	9.78	0.3	460	0.41	0.09	7.42	0.11	11.25	39.1	89	3.76	59	5.99	18.9	0.12	0.5	0.045	1.17
H755019	TL09-004	0.084	0.21	9.54	0.4	410	0.7	0.12	6.14	0.14	58.6	38.2	10	3.44	100	7.76	23.6	0.18	2.5	0.066	0.93
H755020	TL09-004	0.01	0.02	7.81	0.3	790	1.47	0.02	2.94	0.03	58.7	12.8	55	4.84	9.2	2.84	22.1	0.13	3.5	0.015	1.32
H755022	TL09-004	0.009	0.05	9.79	0.6	330	0.35	0.05	7.81	0.1	9.96	36.3	35	1.12	61	5.86	21.1	0.13	1.3	0.053	0.89
H755023	TL09-004	<0.005	0.03	9.92	0.4	150	0.24	0.04	8.25	0.07	7.22	34.7	63	1.2	38.2	5.27	18.1	0.11	1.1	0.038	0.53
H755024	TL09-004	<0.005	0.05	9.61	1	130	0.26	0.02	7.94	0.09	6.01	33.3	48	0.64	41.5	5.42	17.5	0.12	0.9	0.042	0.42
H755025	TL09-004	<0.005	0.09	9.36	1.2	90	0.25	0.03	7.97	0.11	6.42	43.4	82	0.34	60.4	6.31	18.95	0.13	0.9	0.048	0.25
H755026	TL09-004	0.006	0.08	9.62	0.8	120	0.25	0.04	7.7	0.18	10.1	43.9	58	1.32	65.4	5.8	19.15	0.13	1.2	0.052	0.43
H755027	TL09-004	0.008	0.08	8.52	<0.2	220	0.39	0.06	6.65	0.12	17.15	36.2	95	3.1	95.7	5.05	16.8	0.13	1.2	0.039	0.74
H755028	TL09-004	<0.005	0.04	9.6	0.6	110	0.25	0.04	8.49	0.12	7.89	44.9	66	1.29	43.7	6.17	18.4	0.13	0.7	0.059	0.42
H755029	TL09-004	0.009	0.09	9.27	0.5	70	0.21	0.03	8.91	0.23	8.15	46	77	0.59	105	6.88	18.15	0.12	0.9	0.061	0.28
H755030	TL09-004	0.012	0.09	8.66	0.4	40	0.25	0.03	7.61	0.17	8.16	47.2	85	0.32	146	7.35	17.1	0.13	0.9	0.06	0.21
H755031	TL09-004	0.007	0.11	9.3	0.7	40	0.3	0.05	8.01	0.21	9.59	51.1	92	0.3	129	8.03	18.9	0.13	1.2	0.063	0.18
H755032	TL09-004	0.007	0.12	9.34	0.8	60	0.26	0.04	8.15	0.31	8.74	53.6	94	0.23	143	8.15	19.3	0.14	1	0.066	0.19
H755033	TL09-004	0.011	0.13	9.32	0.8	110	0.29	0.04	7.97	0.27	8.72	51	99	0.51	164	8.11	19.5	0.13	1	0.066	0.3
H755034	TL09-004	0.009	0.1	8.65	0.6	50	0.27	0.03	7.21	0.43	9.1	49	97	0.24	91.5	8.3	19.05	0.16	0.9	0.071	0.18
H755035	TL09-004	0.009	0.1	8.61	<0.2	40	0.31	0.04	7.28	0.19	8.81	49.8	103	0.14	88.8	8.83	18.9	0.14	1	0.073	0.18
H755036	TL09-004	0.005	0.06	7.43	0.7	460	0.88	0.04	4.54	0.08	43.5	25.7	72	6.39	53.1	7.61	18.65	0.15	3.2	0.05	1.4
H755037	TL09-004	0.009	0.21	7.56	0.4	250	0.81	0.14	3.66	1.46	41.2	28.4	17	5.45	107	7.95	18.65	0.16	2.4	0.064	1.29
H755038	TL09-004	0.253	0.45	7.32	0.7	340	0.81	0.36	3.62	0.28	46.7	31.9	22	4.94	336	8.45	18.5	0.17	2.3	0.083	1.21

Partial Geochemistry

sample	hole	Au	ME-MS61 Ag	ME-MS61 Al	ME-MS61 As	ME-MS61 Ba	ME-MS61 Be	ME-MS61 Bi	ME-MS61 Ca	ME-MS61 Cd	ME-MS61 Ce	ME-MS61 Co	ME-MS61 Cr	ME-MS61 Cs	ME-MS61 Cu	ME-MS61 Fe	ME-MS61 Ga	ME-MS61 Ge	ME-MS61 Hf	ME-MS61 In	ME-MS61 K
		g/t	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
H755039	TL09-004	0.078	0.08	9.77	0.4	420	0.34	0.06	8.12	0.06	8.45	30.6	75	1.61	21.9	5.33	17.8	0.12	0.4	0.047	1.3
H755040	TL09-004	0.005	0.02	7.25	0.2	590	1.4	0.01	3.52	0.03	60	15.8	75	3.82	21.9	2.9	19.85	0.14	3.3	0.025	1.05
H755041	TL09-004	<0.005	0.04	9.79	0.7	280	0.25	0.03	8.39	0.08	6.97	39.3	70	1.11	44.8	5.65	18.65	0.12	0.5	0.037	0.67
H755042	TL09-004	<0.005	0.03	9.79	0.9	210	0.28	0.04	8.05	0.07	5.43	35.9	62	1.85	39.3	5.76	18.75	0.13	0.5	0.042	0.57
H755043	TL09-004	<0.005	0.05	10.5	0.5	330	0.47	0.02	9.38	0.05	5.8	39.1	69	2.9	81.7	5.36	18.6	0.12	0.8	0.03	0.86
H755044	TL09-004	0.045	0.05	10.35	1	230	0.24	0.04	8.55	0.08	5.63	39.6	78	1.42	46.5	5.9	19.1	0.12	0.7	0.042	0.54
H755045	TL09-004	0.013	0.06	9.98	0.9	90	0.19	0.05	9.14	0.1	4.96	41.5	88	0.58	88.5	5.87	18.45	0.11	0.4	0.04	0.26
H755047	TL09-004	0.021	0.06	9.17	<5	280	0.3	0.07	10	0.16	9.53	35.8	51	2.68	64.8	6.28	17.95	0.11	0.8	0.045	0.8
H755048	TL09-004	1.18	0.14	7.19	<0.2	540	1.66	0.12	2.72	0.05	69.8	10	23	3.68	28.9	2.54	19.55	0.15	3.7	0.022	0.91
H755049	TL09-004	0.066	0.05	9.32	<0.2	270	0.49	0.02	7.75	0.06	10.9	33.4	47	5.21	26.3	5.07	20.7	0.15	1	0.044	1.24
H755050	TL09-004	0.155	0.06	8.59	<0.2	410	1	0.03	5.49	0.06	35.5	26.1	72	6.94	72.5	4.06	19.8	0.16	1.9	0.035	1.21
H755051	TL09-004	0.008	0.06	9.23	1.1	110	0.15	0.04	8.14	0.09	4.23	39.5	84	1.34	57.2	5.63	18.45	0.13	0.5	0.042	0.39
H755052	TL09-004	0.09	0.06	8.98	1.4	90	0.2	0.04	8.07	0.07	4.22	39.1	84	0.81	57.8	5.61	18.2	0.13	0.4	0.04	0.25
H755053	TL09-004	0.03	0.07	9.42	1.2	80	0.22	0.03	8.2	0.09	6.22	43.9	83	0.41	74.8	5.98	19.1	0.14	0.5	0.046	0.22
H755054	TL09-004	0.006	0.07	9.32	0.8	120	0.21	0.04	8.16	0.07	9.14	42.8	97	0.81	49.2	5.75	18.55	0.14	0.8	0.043	0.26
H755055	TL09-004	<0.005	0.03	9.82	1.3	100	0.15	0.08	8.61	0.07	4.75	35	79	0.9	20.7	5.29	18.75	0.12	0.4	0.044	0.29
H755056	TL09-004	<0.005	0.02	9.3	<5	250	0.47	0.06	11.75	0.07	4.01	28.5	42	5.39	15.5	6.35	16.85	0.12	0.5	0.046	0.89
H755057	TL09-004	0.011	0.04	2.29	<5	100	0.37	0.01	18	0.11	6.49	22.1	18	2.42	20.5	5.33	4.46	0.11	0.4	0.015	0.38
H755058	TL09-004	0.005	0.06	7.38	1	770	1.15	0.03	4.08	0.04	51.9	16.2	71	6.89	33.4	3.3	20.1	0.13	2.7	0.032	1.54
H755059	TL09-004	0.006	0.03	7.37	0.9	920	1.27	0.04	3.23	0.04	55.4	16	78	5.39	30.7	2.97	21	0.14	3.2	0.03	1.44
H755060	TL09-004	0.006	0.05	8.95	1.6	510	0.26	0.02	8.37	0.05	4.54	29.2	82	2.67	47.9	5.23	16.95	0.1	0.4	0.035	0.86
H755061	TL09-004	0.005	0.03	9.54	1.3	220	0.24	0.03	8.89	0.06	5.71	31.1	85	1.13	20.6	5.69	17.85	0.11	0.6	0.035	0.36
H755062	TL09-004	0.007	0.04	9.61	1.1	190	0.2	0.02	9.12	0.06	3.19	30.4	83	0.56	39.8	5.41	17.35	0.13	0.5	0.036	0.27
H755063	TL09-004	0.052	0.2	9.34	2	520	0.4	0.09	8.02	0.07	4.22	45.2	79	1.65	250	5.48	18.1	0.13	0.5	0.044	0.6
H755064	TL09-004	0.124	0.09	7.47	1.9	720	0.91	0.48	5.29	0.06	115.5	29	93	4.89	20.6	5.97	19.35	0.26	2.5	0.049	1.03
H755065	TL09-004	0.067	0.07	7.18	1.3	600	0.89	0.31	5.53	0.07	95.7	40.5	214	6.23	25	6.6	19.2	0.26	2.5	0.055	1.17
H755066	TL09-004	0.043	0.1	8.7	1.2	770	1.01	0.18	6.44	0.05	17.05	33.5	74	6.42	57.9	5.21	18.5	0.15	1.2	0.039	1.49
H755067	TL09-004	0.012	0.04	2.86	<5	70	0.46	0.02	18.65	0.1	25.6	19.1	22	1.46	19.7	4.47	5.11	0.11	0.4	0.015	0.33
H755068	TL09-004	0.02	0.09	9.39	0.7	190	0.36	0.04	8.99	0.07	8	35.5	81	1.71	72.7	5.74	17.35	0.12	0.6	0.045	0.55
H755069	TL09-004	0.007	0.08	8.92	0.3	150	0.39	0.03	7.56	0.06	4.47	30.6	66	0.89	40.5	5.37	18.35	0.12	0.8	0.036	0.39
H755070	TL09-004	0.678	0.36	9.05	2.4	170	0.34	0.12	7.36	0.07	6.44	40.7	80	1.51	68.3	5.98	17.05	0.14	0.6	0.038	0.51
H755072	TL09-004	0.032	0.11	9.09	0.7	260	0.34	0.05	7.83	0.07	6.52	41.5	70	2.05	65.5	6.62	17.25	0.14	0.7	0.041	0.68
H755073	TL09-004	0.025	0.07	7.13	0.9	330	1.15	0.02	7.12	0.09	30	38.4	353	2.54	51.1	6.19	15.45	0.17	2	0.056	0.77
H755074	TL09-004	0.01	0.15	8.5	0.7	300	0.41	0.05	7.35	0.08	11.05	43.8	105	2.7	66.2	6.74	17.95	0.16	1	0.05	0.72
H755075	TL09-004	0.018	0.07	6.79	0.5	420	0.78	<0.01	5.19	0.06	32.3	41	260	6.42	12.8	5.85	17.05	0.19	2.3	0.046	1.16
H755076	TL09-004	0.023	0.13	8.46	1.8	90	0.24	0.03	7.56	0.08	5.99	39.1	88	0.71	59.7	6.15	15.9	0.14	0.7	0.043	0.34
H755077	TL09-004	0.01	0.1	8.51	0.9	120	0.35	0.03	7.57	0.09	15.55	35.5	81	1.27	39.6	5.84	16.5	0.16	0.9	0.043	0.42
H755078	TL09-004	3.31	0.59	7.12	1.1	330	0.52	0.28	9.76	0.11	9.57	32.3	72	7.82	50.4	6.29	14.25	0.14	0.9	0.05	1.6
H755079	TL09-004	1.74	0.51	6.77	0.6	350	0.61	0.3	6.21	0.12	12.65	44.6	47	9.36	140	9.58	17.65	0.17	1.2	0.085	1.43
H755080	TL09-004	0.236	0.2	7.29	0.8	90	0.52	0.07	5.95	0.13	13.9	49.3	56	1.13	94.1	10.85	18.2	0.19	1.3	0.085	0.33
H755081	TL09-004	0.234	0.19	6.74	0.9	480	0.79	0.14	6.14	0.11	22.2	40.9	204	7.19	107.5	8.81	16.35	0.18	1.6	0.081	1.18
H755082	TL09-004	0.083	0.1	7.27	0.3	330	0.77	0.02	5.96	0.1	48.8	42.5	262	4.85	43.3	7.97	17.45	0.21	2.2	0.062	0.9
H755083	TL09-004	0.611	0.35	7.27	0.6	330	0.69	0.11	6.36	0.09	14.25	47.4	43	5.24	124.5	9.58	18.15	0.18	1.2	0.086	1.03
H755084	TL09-004	0.02	0.3	7.4	1.2	80	0.49	0.04	6.69	0.1	17.45	46.4	42	0.38	119	10.6	18.65	0.2	1.3	0.083	0.33
H755085	TL09-004	0.562	0.43	7.28	0.7	780	1.23	0.03	3.15	0.03	44.7	13.6	35	3.89	40.1	2.92	19.35	0.2	2.9	0.021	1.22
H755086	TL09-004	0.47	0.36	7.26	1.5	200	0.52	0.11	9.11	0.11	16.15	46.8	43	1.8	147.5	9.74	18.1	0.19	1.1	0.099	0.54
H755087	TL09-004	0.016	0.13	7.5	1.5	820	1.31	<0.01	3.24	0.04	60.2	11.6	35	3.53	53.5	3.12	19.15	0.2	2.8	0.021	1.3

sample	hole	Au	ME-MS61 Ag	ME-MS61 Al	ME-MS61 As	ME-MS61 Ba	ME-MS61 Be	ME-MS61 Bi	ME-MS61 Ca	ME-MS61 Cd	ME-MS61 Ce	ME-MS61 Co	ME-MS61 Cr	ME-MS61 Cs	ME-MS61 Cu	ME-MS61 Fe	ME-MS61 Ga	ME-MS61 Ge	ME-MS61 Hf	ME-MS61 In	ME-MS61 K
		g/t	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
H755088	TL09-004	0.038	0.14	6.83	1.5	110	0.53	0.03	5.68	0.13	17.95	29.9	42	0.95	85	13.9	15.25	0.19	1.7	0.061	0.28
H755089	TL09-004	0.011	0.07	7.63	0.4	660	1.14	<0.01	3.62	0.06	45.4	14.3	48	7.18	19.6	3.28	20.2	0.19	2.6	0.023	1.11
H755090	TL09-004	0.022	0.15	7.6	0.9	130	0.37	0.02	7.71	0.13	10.85	50.4	109	1.13	143	9.72	17	0.18	1	0.071	0.34
H755091	TL09-004	0.007	0.07	7.31	0.5	870	1.04	<0.01	4.06	0.06	68.8	22.5	234	8.58	28.3	3.59	17.75	0.2	2.5	0.026	1.16
H755092	TL09-004	0.047	0.15	7.94	0.8	220	0.48	0.02	8.19	0.12	21.5	47.6	147	2.46	107.5	8.35	17.4	0.17	1.3	0.073	0.46
H755093	TL09-004	0.032	0.11	8.02	0.5	170	0.44	0.01	7.22	0.11	10.7	45.6	119	1.87	119	8.65	17.9	0.17	0.7	0.079	0.34
H755094	TL09-004	0.014	0.1	7.56	0.9	110	0.3	0.01	8.79	0.12	9.29	46.3	114	0.55	101.5	8.22	16.05	0.14	1.2	0.073	0.23
H755095	TL09-004	0.016	0.11	7.89	<5	60	0.34	<0.01	10.3	0.13	9.59	48.8	113	0.07	103.5	8.26	17.2	0.14	1.2	0.077	0.16
H755097	TL09-004	0.028	0.13	7.91	<5	70	0.31	0.04	10.5	0.17	9.8	53.8	104	0.22	133.5	8.8	18.7	0.16	0.9	0.084	0.23
H755098	TL09-004	0.11	0.2	6.79	5	450	0.37	0.09	10.05	0.1	9.12	48.4	105	12	153	7.58	16.65	0.13	0.7	0.069	0.99
H755099	TL09-004	0.008	0.11	8.42	2.2	120	0.35	0.03	8	0.14	10.8	56.7	134	6.29	138.5	9.33	19.9	0.16	0.8	0.087	0.55
H755100	TL09-004	0.012	0.08	8.54	1.4	100	0.3	0.04	7.6	0.14	10.8	53.8	128	2.7	125.5	9.12	19.9	0.17	0.7	0.085	0.31
H755101	TL09-004	<0.005	0.08	8.59	2.7	70	0.32	0.05	8	0.14	10.9	57.5	125	0.74	124	9.58	20.6	0.18	0.7	0.083	0.25
H755102	TL09-004	0.35	0.1	8.13	0.9	200	0.35	0.05	8.04	0.12	12.3	57	130	11	211	10.35	19.55	0.16	1.1	0.079	0.6
H755103	TL09-004	0.269	0.09	7.85	0.8	140	0.27	0.07	9.23	0.08	10.45	51.3	125	2.06	100.5	8.43	18.6	0.16	1	0.078	0.28
H755104	TL09-004	0.016	0.09	7.49	<5	40	0.25	0.04	10.7	0.13	10.3	49.1	103	0.18	99.8	8.23	17.5	0.15	1	0.08	0.16
H755105	TL09-004	0.011	0.1	8.1	0.8	70	0.29	0.05	7.89	0.19	10	51.1	126	0.17	184	9.21	18.65	0.18	1.1	0.074	0.21
H755106	TL09-004	0.009	0.08	7.47	0.9	60	0.21	0.04	8.29	0.11	9.73	49.1	124	0.23	113	8.93	17.75	0.16	1.1	0.075	0.16
H755107	TL09-004	0.491	0.1	7.52	0.9	40	0.24	0.03	7.47	0.16	12.1	52	104	0.21	120.5	9.73	18.6	0.18	1.4	0.085	0.15
H755108	TL09-004	0.011	0.1	8.05	0.4	40	0.19	0.03	7.57	0.14	10.5	52.8	113	0.25	120.5	9.85	18.75	0.17	1.3	0.077	0.15
H755109	TL09-004	0.009	0.11	7.66	2.6	50	0.27	0.03	8.81	0.14	9.12	50.5	103	0.17	107	8.08	17.65	0.14	1.1	0.072	0.15
H755110	TL09-004	0.012	0.18	6.31	8	40	0.18	0.04	11.1	0.21	8.28	47	95	0.16	192	8.8	16.6	0.15	0.9	0.071	0.14
H755111	TL09-004	0.014	0.12	7.94	0.7	40	0.25	0.03	9.14	0.1	10.5	53.7	119	0.18	132	9.13	19.1	0.16	1.3	0.085	0.19
H755112	TL09-004	0.006	0.05	7.91	1.1	50	0.28	0.02	9.38	0.11	9.35	45.4	110	0.2	54.9	9.44	19.35	0.15	1	0.082	0.22
H755113	TL09-004	0.007	0.16	7.67	2.2	60	0.33	0.06	8.72	0.11	8.92	46.3	111	0.85	74.8	7.87	18.05	0.14	0.6	0.075	0.34
H755114	TL09-004	0.008	0.1	8.67	3.1	80	0.28	0.03	8.36	0.2	11.05	52.5	122	1.39	120	9.52	20.3	0.17	1	0.086	0.39
H755115	TL09-004	<0.005	0.05	7.53	<0.2	80	0.27	0.01	9.61	0.15	10.5	41.6	105	2	63.3	8.6	17.75	0.15	1.1	0.076	0.35
H755116	TL09-004	0.007	0.1	8.25	0.8	60	0.25	0.03	8.9	0.19	10.85	52.7	117	0.11	121.5	9.17	19.05	0.15	1.1	0.078	0.28
H755117	TL09-004	0.009	0.06	8.02	1.8	90	0.24	0.08	8.93	0.13	10.15	53.3	117	0.41	123	8.44	18.65	0.14	0.8	0.081	0.31
H755118	TL09-004	0.006	0.06	7.84	1.3	40	0.23	0.02	8.94	0.14	10.1	49.7	110	0.18	120.5	8.99	18.05	0.15	1.3	0.076	0.26
H755119	TL09-004	0.007	0.07	8.19	2.2	30	0.22	0.02	9.48	0.17	10.45	53.5	115	0.09	131.5	9.12	19.1	0.15	1.2	0.079	0.21
H755120	TL09-004	0.017	0.14	8.19	1.7	40	0.28	0.06	9.65	0.16	10.45	53.4	130	0.11	176	9.09	20.1	0.11	1.5	0.085	0.23
H755122	TL09-004	0.415	0.17	6.34	0.8	260	0.4	0.15	8.14	0.14	6.76	37.9	108	8.35	150	6.18	13.9	0.08	1	0.06	0.94
H755123	TL09-004	0.018	0.1	7.36	5	70	0.25	0.05	10.45	0.15	8.86	45.5	116	0.19	118.5	7.77	17	0.1	1.2	0.067	0.19
H755124	TL09-004	0.084	0.16	8.41	1.1	120	0.38	0.15	9.25	0.14	10.75	55.9	144	0.71	132.5	8.6	20.5	0.11	1.5	0.081	0.5
H755125	TL09-004	0.933	0.4	7.61	0.5	230	0.55	0.42	8.57	0.13	8.82	45.4	121	6.46	157.5	7.55	18.75	0.11	1.1	0.07	1.41
H755126	TL09-004	0.091	0.15	6.3	5	230	0.29	0.47	12.6	0.14	8	41.5	102	2.58	113	6.43	14.75	0.08	1	0.059	0.54
H755127	TL09-004	0.019	0.08	7.25	<5	90	0.28	0.1	10.8	0.13	8.85	51.5	109	0.84	111	7.42	17.4	0.1	1.2	0.069	0.28
H755128	TL09-004	0.009	0.08	7.97	1	50	0.29	0.04	9.36	0.15	9.88	53.4	143	0.08	240	8.66	19.05	0.11	1.1	0.074	0.16
H755129	TL09-004	0.011	0.08	7.85	0.5	710	1.28	0.05	4.58	0.08	64.6	30.5	212	6.27	39.6	4.97	20.4	0.11	3.3	0.038	1.3
H755130	TL09-004	0.214	0.16	7.02	<0.2	370	0.89	0.12	4.75	0.1	58.3	23.9	186	3.59	46.4	4.24	17.65	0.09	2.9	0.035	0.73
H755131	TL09-004	0.014	0.09	7.87	<5	60	0.29	0.02	10.2	0.11	9.99	51.4	116	0.09	107.5	8.28	18.6	0.1	1.5	0.073	0.15
H755132	TL09-004	0.007	0.06	7.7	2.2	90	0.25	0.01	8.86	0.13	9.79	50	121	<0.05	107.5	8	18.3	0.09	1.6	0.071	0.11
H755133	TL09-004	0.006	0.06	7.61	<5	70	0.23	0.01	10.45	0.14	9.77	51	112	0.06	128	8.83	17.6	0.12	1.4	0.071	0.1
H755134	TL09-004	0.006	0.05	8.18	8.3	70	0.27	0.01	9.34	0.14	10.05	53.9	126	0.06	143.5	8.25	19.45	0.1	1.6	0.079	0.08
H755135	TL09-004	0.006	0.05	8	<5	50	0.28	0.01	10.25	0.11	10.15	53.3	119	0.06	115.5	8.88	19.45	0.12	1.6	0.078	0.08
H755136	TL09-004	0.007	0.06	7.38	6	90	0.22	0.02	11.8	0.18	8.98	51.3	104	0.07	183	7.88	17.6	0.1	1.2	0.068	0.1

sample	hole	Au	ME-MS61 Ag	ME-MS61 Al	ME-MS61 As	ME-MS61 Ba	ME-MS61 Be	ME-MS61 Bi	ME-MS61 Ca	ME-MS61 Cd	ME-MS61 Ce	ME-MS61 Co	ME-MS61 Cr	ME-MS61 Cs	ME-MS61 Cu	ME-MS61 Fe	ME-MS61 Ga	ME-MS61 Ge	ME-MS61 Hf	ME-MS61 In	ME-MS61 K
		g/t	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
H755137	TL09-004	0.009	0.08	7.67	1	70	0.25	0.02	9.94	0.17	9.64	52.4	115	0.08	129	8.51	18.4	0.11	1.4	0.073	0.08
H755138	TL09-004	0.016	0.09	7.86	1.2	50	0.28	0.05	9.43	0.15	10.1	53	113	0.18	112	9.03	19.1	0.11	1.4	0.078	0.09
H755139	TL09-004	0.092	0.08	7.81	1.4	50	0.29	0.05	7.99	0.11	9.62	52.1	125	0.14	91	9.66	18.15	0.12	1.4	0.074	0.13
H755140	TL09-004	2.44	0.47	6.44	<0.2	470	0.56	4	8.4	0.12	7.88	49.7	107	22.7	465	7.51	14.95	0.1	1.3	0.057	0.71
H755141	TL09-004	0.029	0.09	8.03	0.8	70	0.3	0.06	8.82	0.11	9.41	51.9	116	0.5	111.5	8.65	18.8	0.1	1.4	0.073	0.18
H755142	TL09-004	0.014	0.09	8.01	1	50	0.27	0.04	8.96	0.16	10.2	53.8	124	0.26	123	9.5	19.05	0.11	1.5	0.074	0.12
H755143	TL09-004	0.352	0.27	6.9	<5	170	0.37	0.27	13.85	0.09	8.23	40.8	112	4.6	217	6.42	14.1	0.08	1.2	0.044	0.21
H755144	TL09-004	0.045	0.14	7.88	0.6	140	0.29	0.25	9.23	0.13	9.76	52.3	125	6.75	135	8.68	19.4	0.11	1.6	0.077	0.3
H755145	TL09-005	<0.005	0.03	7.3	<0.2	520	0.77	0.02	5.4	0.09	32.9	39.8	290	4.16	35.5	5.94	18.35	0.15	2.4	0.055	1.07
H755147	TL09-005	0.009	0.08	8.65	<0.2	140	0.4	0.03	6.76	0.06	12.25	50.2	141	0.95	135	8.57	20.8	0.15	0.6	0.095	0.35
H755148	TL09-005	0.009	0.14	7.09	<0.2	160	0.35	0.1	9.66	0.08	19.8	47.9	101	1.69	164.5	8.04	16.25	0.15	1	0.082	0.47
H755149	TL09-005	0.005	0.17	7.19	<5	120	0.2	0.42	10.55	0.1	14	52.5	100	1.74	238	8.74	18.15	0.15	1	0.121	0.42
H755150	TL09-005	0.022	0.38	8	0.4	240	0.25	0.77	8.77	0.26	19.35	63.2	126	2.77	389	8.99	20.2	0.17	1.4	0.143	1
H755151	TL09-005	<0.005	0.24	7.39	<0.2	210	0.35	0.27	6.72	0.07	15.05	48.4	110	3.1	203	8.9	17.9	0.17	1.3	0.096	0.89
H755152	TL09-005	<0.005	0.09	7.02	0.7	110	0.36	0.3	9.06	0.09	25.3	28.8	65	0.97	103.5	7.14	16.8	0.13	1.7	0.084	0.43
H755153	TL09-005	0.228	0.95	6.86	<0.2	170	0.26	0.29	9	0.29	8.69	43.9	128	1.32	525	8.29	16.1	0.13	0.8	0.089	0.58
H755154	TL09-005	0.181	1.56	6.36	<5	300	0.24	0.21	10.8	0.26	8.8	42.2	130	3.51	706	7.05	14.95	0.13	0.8	0.074	1.07
H755155	TL09-005	0.162	0.12	7.48	<0.2	420	0.48	0.29	4.95	0.05	32.3	28.8	57	4.26	56.4	6.77	17.15	0.15	1.9	0.05	1.29
H755156	TL09-005	0.393	0.61	6.84	0.2	510	0.43	0.65	7.85	0.09	15.15	53.5	125	5.71	370	8.78	16.35	0.16	1.1	0.062	1.46
H755157	TL09-005	0.062	0.17	7.94	<0.2	550	0.95	0.13	3.35	0.12	41.6	18.1	31	5.27	47.3	3.86	22	0.17	3.5	0.028	1.47
H755158	TL09-005	0.015	0.05	7.61	<0.2	670	0.97	0.06	3.67	0.06	42.7	18.3	24	6.17	22.3	3.62	21.8	0.16	3.4	0.028	1.57
H755159	TL09-005	0.086	0.16	7.06	<0.2	500	0.84	0.24	3.15	0.08	39.6	16	26	4.78	38	3.39	20.1	0.16	3.1	0.023	1.18
H755160	TL09-005	0.115	0.17	7.46	<0.2	530	0.75	0.06	4.82	0.05	27.6	30.8	148	6.08	64.9	4.94	18.6	0.18	2.2	0.04	1.53
H755161	TL09-005	0.01	0.08	7.84	<0.2	120	0.26	0.16	8.96	0.11	10.3	45	107	1.26	139	9.33	17.95	0.14	1.1	0.083	0.37
H755162	TL09-005	<0.005	0.05	8.16	<0.2	90	0.3	0.16	6.47	0.09	10.75	50.5	128	0.87	95.8	8.72	19.5	0.14	0.6	0.089	0.26
H755163	TL09-005	<0.005	0.05	9.08	<0.2	110	0.25	<0.01	6.8	0.09	11.05	60.1	143	0.55	124.5	8.21	22	0.16	0.6	0.091	0.25
H755164	TL09-005	<0.005	0.09	6.69	<5	60	0.2	<0.01	11.1	0.13	8.58	47.6	91	0.38	151.5	7.91	15.2	0.14	1	0.062	0.14
H755165	TL09-005	<0.005	0.04	1.3	<5	10	<0.05	<0.01	17.5	0.2	7.91	20.6	16	0.11	41.9	5.61	3.26	0.09	0.4	0.013	0.01
H755166	TL09-005	<0.005	0.07	8.47	<0.2	110	0.32	0.06	8.21	0.06	11.4	47.8	158	0.53	102.5	8.53	20.2	0.16	1.5	0.088	0.17
H755167	TL09-005	<0.005	0.05	8.25	<5	50	0.27	0.03	10	0.08	10.4	45.3	151	0.15	48.1	7.96	19.4	0.14	1.4	0.086	0.13
H755168	TL09-005	<0.005	0.04	6.97	<0.2	410	0.52	0.02	7.25	0.07	43.2	40.6	260	2.26	40.9	5.88	16	0.17	1.6	0.053	0.55
H755169	TL09-005	0.01	0.07	6.75	5	1000	0.29	0.07	10.6	0.09	11.55	46.4	118	6.91	95.4	8.06	16.1	0.15	1.1	0.067	1.23
H755170	TL09-005	<0.005	0.08	7.69	<0.2	70	0.23	0.03	9.25	0.11	10.15	50.4	112	0.06	107.5	8.56	17.85	0.15	1.2	0.082	0.16
H755172	TL09-005	<0.005	0.08	8.02	<0.2	60	0.25	0.02	9.98	0.12	10.45	52.7	122	0.05	119.5	8.68	18.3	0.16	1.4	0.081	0.13
H755173	TL09-005	0.009	0.13	7.84	<0.2	50	0.26	0.05	9.51	0.12	10.4	51.2	117	0.05	162	8.75	17.6	0.16	1.4	0.078	0.14
H755174	TL09-005	<0.005	0.06	7.88	<0.2	40	0.24	0.11	9.18	0.09	10.55	51.3	114	0.09	81.5	9.32	18.4	0.15	1.3	0.08	0.19
H755175	TL09-005	<0.005	0.06	7.33	0.3	70	0.25	0.06	7.54	0.08	9.31	45.3	120	0.42	119	8.69	16.65	0.14	1.2	0.073	0.2
H755176	TL09-005	<0.005	0.08	8.04	<0.2	240	0.25	0.08	8.8	0.08	10.05	58.9	131	2.72	208	8.92	18.55	0.15	1.3	0.071	0.44
H755177	TL09-005	<0.005	0.07	7.97	<5	90	0.21	0.07	11	0.09	11.6	55.2	112	1.12	136	8.43	19.05	0.14	1.3	0.101	0.27
H755178	TL09-005	<0.005	0.1	8.21	0.3	40	0.23	0.02	8.57	0.11	10.65	52.8	127	0.24	126	9.5	19.55	0.16	1.6	0.084	0.24
H755179	TL09-005	<0.005	0.05	8.37	<0.2	110	0.25	0.01	8.13	0.12	11.4	48.6	138	1.22	118	8.73	19.8	0.15	0.8	0.083	0.32
H755180	TL09-005	<0.005	0.09	7.57	<0.2	440	0.5	0.05	7.34	0.1	28.2	43.1	209	4.92	71.8	7.16	18.2	0.16	1.6	0.063	0.66
H755181	TL09-005	<0.005	0.06	8.06	<0.2	150	0.29	0.04	7.91	0.1	11.05	49.9	130	1	93.9	8.56	20	0.14	0.8	0.087	0.31
H755182	TL09-005	<0.005	0.05	7.84	<0.2	90	0.35	0.01	8.11	0.1	9.88	52.6	127	0.63	105.5	8.9	18.9	0.14	0.9	0.083	0.25
H755183	TL09-005	<0.005	0.05	7.14	<5	140	0.32	<0.01	10.1	0.11	10.2	46.7	103	1.63	85.8	8.06	17	0.12	1.3	0.071	0.28
H755184	TL09-005	<0.005	0.08	7.71	<0.2	120	0.32	<0.01	9.34	0.12	10.6	46.4	130	1.11	162.5	9.4	19.55	0.14	1.5	0.089	0.31
H755185	TL09-005	<0.005	0.06	8.21	<0.2	120	0.38	0.01	6.05	0.09	9.1	49.4	143	0.84	155	9.65	20.3	0.14	0.6	0.09	0.33

sample	hole	Au	ME-MS61 Ag	ME-MS61 Al	ME-MS61 As	ME-MS61 Ba	ME-MS61 Be	ME-MS61 Bi	ME-MS61 Ca	ME-MS61 Cd	ME-MS61 Ce	ME-MS61 Co	ME-MS61 Cr	ME-MS61 Cs	ME-MS61 Cu	ME-MS61 Fe	ME-MS61 Ga	ME-MS61 Ge	ME-MS61 Hf	ME-MS61 In	ME-MS61 K
		g/t	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
H755186	TL09-005	<0.005	0.03	5.75	<5	110	0.26	0.01	13.1	0.11	7.56	40.5	78	1.48	75.3	6.34	13.4	0.12	1	0.067	0.21
H755187	TL09-005	<0.005	0.07	7.9	<0.2	80	0.39	0.01	7.66	0.1	9.73	48.6	125	0.61	130.5	9.79	19.85	0.15	0.9	0.095	0.27
H755188	TL09-005	<0.005	0.08	6.58	<5	60	0.29	<0.01	10	0.25	11.15	43.9	89	0.51	136.5	7.61	15.1	0.12	1.1	0.07	0.18
H755189	TL09-005	<0.005	0.08	7.32	<5	20	0.29	0.02	10.1	0.09	9.13	41.5	103	0.18	96.2	8.46	18.3	0.13	1.3	0.082	0.12
H755190	TL09-005	<0.005	0.05	6.6	<5	30	0.36	<0.01	10.75	0.07	8.89	41.7	86	0.28	78.6	7.85	16.2	0.13	1.1	0.073	0.1
H755191	TL09-005	<0.005	0.06	7.97	<0.2	260	0.54	0.03	7.33	0.07	9.5	40.6	111	3.56	65.9	8.43	19.55	0.15	0.9	0.073	0.71
H755192	TL09-005	<0.005	0.09	4.96	<0.2	200	0.33	0.07	7.55	0.23	11.65	40.4	69	3.26	188	6.83	12.2	0.12	1.5	0.051	0.66
H755193	TL09-005	<0.005	0.06	4.85	<5	140	0.37	0.03	11.35	0.2	16.15	24.6	36	2.08	67.2	8.04	11.3	0.13	1.6	0.044	0.4
H755194	TL09-005	0.005	0.09	6.94	<0.2	310	0.35	0.59	7.85	0.09	11.6	35.6	113	6.2	61.8	7.6	15.95	0.13	1.6	0.049	1
H755195	TL09-005	<0.005	0.1	7.08	<5	50	0.39	0.21	12.35	0.11	9.42	47.3	95	0.16	150.5	8.9	18	0.14	1.1	0.103	0.18
H755197	TL09-005	<0.005	0.06	7.33	<0.2	70	0.39	0.15	9.09	0.08	9.34	45.4	99	0.32	48.2	9.34	16.9	0.14	1.2	0.087	0.26
H755198	TL09-005	<0.005	0.05	7.64	<5	40	0.34	0.08	10.05	0.11	11.05	45.7	104	0.1	68.5	8.31	18.1	0.13	1.6	0.093	0.15
H755199	TL09-005	<0.005	0.07	5.45	<5	40	0.23	0.07	14.3	0.22	10.7	32.4	70	0.21	127	6.23	12.8	0.11	1.2	0.061	0.13
H755200	TL09-005	<0.005	0.08	7.26	<0.2	250	0.46	0.1	7.65	0.12	24.2	33.8	57	2.94	80.3	7.65	16.55	0.14	2.1	0.056	0.67
H755201	TL09-005	<0.005	0.04	7.69	<5	80	0.3	0.06	10.25	0.08	11	46.5	136	0.6	24.7	7.81	18.9	0.13	1.6	0.075	0.24
H755202	TL09-005	<0.005	0.06	7.47	<5	40	0.29	0.09	10.4	0.07	10.2	49.9	152	0.13	57.7	8.88	18.3	0.14	1.5	0.08	0.2
H755203	TL09-005	<0.005	0.08	6.53	<5	50	0.28	0.21	13.9	0.1	9.93	35.5	118	0.19	77.7	6.86	17	0.11	1.1	0.11	0.16
H755204	TL09-005	<0.005	0.04	7.78	<5	240	0.47	0.09	11.05	0.08	24	41.4	118	1.22	38.9	7.36	18.55	0.14	1.7	0.086	0.39
H755205	TL09-005	<0.005	0.11	7.41	<0.2	160	0.48	0.13	6.76	0.09	25.2	28.3	85	1.21	105.5	13.4	19.05	0.17	1.9	0.061	0.32
H755206	TL09-005	<0.005	0.03	7.8	<0.2	750	1.4	0.02	4.6	0.07	51.6	27.5	177	4.95	16.8	5.92	19.3	0.16	3.3	0.043	1.38
H755207	TL09-005	<0.005	0.01	8.28	<0.2	1000	1.48	0.04	4.42	0.05	54.1	31.7	205	6.85	13	5.41	20.2	0.2	3.5	0.043	1.77
H755208	TL09-005	<0.005	0.04	7.33	<0.2	710	1.08	0.19	4.34	0.05	50.8	29.2	194	3.92	66.2	5.12	19.75	0.17	3	0.043	1.17
H755209	TL09-005	<0.005	0.03	7.38	<0.2	690	1.01	0.25	4.21	0.06	51.8	28.8	187	4.55	48	5.04	19.4	0.17	3	0.044	1.27
H755210	TL09-005	<0.005	0.04	7.33	<0.2	770	1.1	0.09	4.23	0.06	50.2	26.1	168	5.35	49.8	4.77	19.7	0.18	3	0.042	1.41
H755211	TL09-005	<0.005	0.04	7.32	<0.2	750	1.2	0.04	4.17	0.06	51	26.1	164	5.14	38.3	4.67	20	0.17	3	0.039	1.28
H755212	TL09-005	<0.005	0.07	7.51	<0.2	320	0.33	0.16	6.89	0.13	14	44.2	164	1.66	155	8.95	18.8	0.15	1.5	0.08	0.6
H755213	TL09-005	<0.005	0.08	7.57	<0.2	200	0.34	0.07	7.41	0.07	10.65	43.7	159	1.06	124	9.31	19.2	0.15	1.2	0.079	0.5
H755214	TL09-005	<0.005	0.1	5.78	<5	30	0.18	0.01	13.15	0.53	13.9	39	93	0.2	90.2	7.46	11.95	0.11	0.7	0.075	0.11
H755215	TL09-005	<0.005	0.09	8.3	<0.2	60	0.26	0.03	9.01	0.08	8.47	46.5	150	0.3	96.9	8.07	17.35	0.14	0.7	0.063	0.21
H755216	TL09-005	<0.005	0.05	8.3	<0.2	100	0.22	0.03	7.82	0.07	6.73	43.5	167	0.7	86.8	7.96	17	0.14	0.8	0.055	0.29
H755217	TL09-005	<0.005	0.03	5.52	<5	20	0.11	0.03	14.35	0.09	7.4	38.1	87	0.36	60.2	8.09	11.2	0.15	0.5	0.04	0.11
H755218	TL09-005	<0.005	0.06	8.78	<0.2	120	0.29	0.05	7.96	0.06	7.14	36.7	165	1.15	106.5	8.16	17.25	0.19	0.8	0.064	0.4
H755219	TL09-005	0.007	0.05	8.32	<0.2	90	0.27	0.06	8.2	0.06	8.86	44.1	174	0.78	108	7.95	18.9	0.18	0.8	0.068	0.34
H755220	TL09-005	0.131	0.14	7.44	<5	20	0.27	0.1	10.9	0.11	8.75	47.8	147	0.1	239	7.66	18.45	0.21	1	0.078	0.15
H755222	TL09-005	0.006	0.05	6.03	<5	20	0.18	0.06	17.45	0.08	6.5	33.9	83	0.08	99.6	5.53	13.2	0.25	0.7	0.054	0.09
H755223	TL09-005	0.006	0.04	6.91	<5	30	0.26	0.09	10.9	0.07	7.92	46.7	141	0.09	57.5	6.71	17.1	0.2	0.9	0.064	0.11
H755224	TL09-005	<0.005	0.04	6.23	<5	30	0.2	0.1	13.75	0.06	6.5	38.1	104	0.12	47.9	6.67	13.45	0.17	0.7	0.067	0.16
H755225	TL09-005	<0.005	0.06	8.13	0.2	50	0.23	0.09	9.49	0.06	9.4	46.2	138	0.17	40.2	7.44	19.25	0.36	1.3	0.075	0.23
H755226	TL09-005	<0.005	0.05	7.58	<0.2	30	0.22	0.07	9.79	0.06	8.3	45.2	147	<0.05	57.8	7.86	17.1	0.15	1	0.056	0.15
H755227	TL09-005	<0.005	0.06	8.07	<0.2	180	0.26	0.07	6.7	0.04	7.3	41.6	168	1.03	101	8.76	15.75	0.09	0.7	0.063	0.43
H755228	TL09-005	<0.005	0.12	7.9	<0.2	90	0.28	0.07	8.05	0.08	8.63	48.4	159	0.53	99.2	8.66	17.35	0.16	1	0.068	0.38
H755229	TL09-005	0.014	0.47	7.35	<0.2	220	0.46	0.07	6.3	1.35	24.1	64.5	94	2.09	567	7.96	17.65	0.17	1.6	0.068	0.63
H755230	TL09-005	0.012	0.11	8.21	<0.2	40	0.24	0.07	8.95	0.08	8.45	49.5	166	0.17	87.6	8.64	17.8	0.16	1	0.065	0.24
H755231	TL09-005	0.035	0.11	8.06	<0.2	190	0.3	0.06	8.95	0.09	8.45	52.5	153	2.54	177	9.15	17.7	0.18	1	0.062	0.67
H755232	TL09-005	0.014	0.06	8.55	<0.2	440	0.78	0.06	5.27	0.02	32.3	22.4	54	6.67	69.1	4.67	19.3	0.14	2.1	0.047	1.48
H755233	TL09-005	0.09	0.1	7.47	<5	170	0.4	0.12	10.1	0.09	10.7	36.9	133	2.44	102	8.34	17.35	0.16	1	0.085	0.64
H755234	TL09-005	0.047	0.06	8	<5	70	0.29	0.07	10.15	0.06	8.93	41.8	153	0.54	52.7	8.15	18.5	0.17	0.9	0.064	0.29

Partial Geochemistry

sample	hole	Au	ME-MS61 Ag	ME-MS61 Al	ME-MS61 As	ME-MS61 Ba	ME-MS61 Be	ME-MS61 Bi	ME-MS61 Ca	ME-MS61 Cd	ME-MS61 Ce	ME-MS61 Co	ME-MS61 Cr	ME-MS61 Cs	ME-MS61 Cu	ME-MS61 Fe	ME-MS61 Ga	ME-MS61 Ge	ME-MS61 Hf	ME-MS61 In	ME-MS61 K
		g/t	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
H755235	TL09-005	0.009	0.08	7.82	<0.2	320	0.41	0.51	9.42	0.09	19.8	28.9	103	2.99	102	7.74	17.7	0.21	1.3	0.108	0.86
H755236	TL09-005	0.006	0.11	7.5	<0.2	60	0.39	0.06	9.43	0.09	6.48	38.9	150	0.24	99.2	8.02	16.3	0.15	0.8	0.063	0.2
H755237	TL09-005	1.415	0.13	7.15	<0.2	570	1.23	0.12	5.34	0.07	64	25.4	46	6.7	40.6	5.92	16.8	0.16	3.6	0.049	1.45
H755238	TL09-005	0.012	0.08	8.36	<0.2	50	0.44	0.06	7.74	0.06	8.42	41.6	175	0.2	54	8.02	18.4	0.15	0.5	0.061	0.18
H755239	TL09-005	<0.005	0.1	8.45	<5	30	0.32	0.08	10.05	0.05	8.6	47.5	172	0.06	49.5	7.31	18.45	0.13	0.6	0.066	0.12
H755240	TL09-005	0.072	0.39	7.45	<0.2	330	0.33	0.57	8.89	0.1	7.42	42.5	157	5.19	135.5	6.86	16	0.14	0.9	0.064	1.23
H755241	TL09-005	0.031	0.71	8.1	<0.2	100	0.35	0.17	9.69	0.18	9.43	53.6	160	0.91	295	8.02	20.5	0.16	0.9	0.094	0.3
H755242	TL09-005	0.006	0.18	7.98	<0.2	40	0.27	0.08	9.28	0.09	7.94	45.3	163	0.13	124.5	6.76	17.05	0.13	0.8	0.066	0.16
H755243	TL09-005	0.006	0.13	7.63	<5	280	0.23	1.14	10.2	0.1	7.79	50.3	166	2.7	179	8.4	16.7	0.14	0.9	0.059	0.71
H755244	TL09-005	<0.005	0.13	8.09	<0.2	70	0.28	0.11	8.17	0.09	7.89	49.2	166	0.22	106.5	7.29	17.35	0.13	1	0.076	0.2
H755245	TL09-005	<0.005	0.04	8.01	0.7	30	0.25	0.05	9.05	0.06	8.12	48.7	168	<0.05	48.1	8.36	17.75	0.14	0.9	0.066	0.15
H755247	TL09-005	0.007	0.08	8.17	<0.2	30	0.27	0.08	9.99	0.07	8.09	47.9	172	0.08	75.6	7.31	17.8	0.14	0.9	0.07	0.14
H755248	TL09-005	0.005	0.16	7.83	<0.2	430	0.52	0.59	8.1	0.12	21.9	73.9	168	5.33	132	7.84	17.1	0.15	1.8	0.068	1.33
H755249	TL09-005	<0.005	0.07	6.59	<5	260	0.51	0.22	10.95	0.21	28.9	15.5	36	2.38	52.3	3.62	14.6	0.1	2.1	0.049	1.12
H755250	TL09-005	<0.005	0.07	7.16	<0.2	110	0.53	0.09	8.97	0.13	32.5	14.8	40	2.54	35.4	3.71	15.95	0.1	1.9	0.048	0.95
H755251	TL09-005	<0.005	0.06	7.32	0.2	160	0.48	0.21	4.74	0.09	23.4	10.3	40	4.61	45.6	4.59	16.55	0.11	1.6	0.048	1.12
H755252	TL09-005	<0.005	0.05	7.14	<5	10	0.2	0.26	14.2	0.08	7.47	38	120	0.09	58.3	6.82	15.45	0.11	1	0.086	0.11
H755253	TL09-005	0.007	0.08	7.3	<5	20	0.22	0.27	12.75	0.08	7.66	41.1	138	0.06	146	7.23	16.4	0.12	1	0.089	0.08
H755254	TL09-005	<0.005	0.06	7.72	<5	20	0.24	0.17	10.7	0.06	7.99	44.5	153	<0.05	63.8	8.01	16.75	0.12	1.1	0.075	0.1
H755255	TL09-005	<0.005	0.08	7.16	<5	20	0.26	0.28	11	0.04	8.83	43.4	143	0.08	26.5	7.44	18.25	0.13	1	0.093	0.08
H755256	TL09-005	<0.005	0.06	7.44	<5	20	0.24	0.23	10.3	0.05	7.91	47.1	148	0.11	36.5	7.89	17.65	0.13	0.9	0.081	0.12
H755257	TL09-005	<0.005	0.07	7.97	<0.2	30	0.3	0.07	8.94	0.05	8.43	51.3	162	0.15	69.1	8.68	18	0.18	1	0.065	0.2
H755258	TL09-005	0.005	0.09	7.64	<0.2	20	0.23	0.04	7.49	0.09	9.75	50.3	158	0.16	146	8.6	18.2	0.16	1	0.07	0.14
H755259	TL09-005	<0.005	0.07	7.79	<0.2	20	0.31	0.01	6.6	0.09	9.17	50.3	170	0.15	132.5	8.88	18.05	0.16	0.9	0.073	0.12
H755260	TL09-005	<0.005	0.07	7.41	<0.2	20	0.26	0.01	6.64	0.11	9.65	48.7	162	0.16	113	8.54	17.8	0.17	0.9	0.066	0.11
H755261	TL09-005	<0.005	0.08	7.76	<0.2	20	0.31	0.01	6.35	0.11	8.41	48.8	159	0.17	117	8.94	18.1	0.18	0.9	0.067	0.16
H755262	TL09-005	<0.005	0.07	7.71	<0.2	20	0.33	0.02	6.99	0.12	9.85	48.8	145	0.15	105.5	9.04	19.1	0.26	1.1	0.077	0.14
H755263	TL09-005	<0.005	0.07	8.14	<0.2	20	0.32	0.02	6.84	0.11	9.34	51.3	163	0.12	97.7	9.27	18.85	0.18	1	0.075	0.15
H755264	TL09-005	<0.005	0.08	7.18	<0.2	20	0.25	0.02	5.97	0.08	8.09	43.4	158	0.13	121	8.68	15.5	0.12	0.8	0.06	0.11
H755265	TL09-005	<0.005	0.07	7.32	0.2	20	0.29	0.01	5.85	0.08	9.08	50	161	0.12	102	8.71	18.4	0.22	1	0.069	0.11
H755266	TL09-005	<0.005	0.07	7.48	<0.2	20	0.28	0.02	6.28	0.09	8.46	50.2	153	0.15	101.5	8.58	17.9	0.17	0.9	0.063	0.13
H755267	TL09-005	<0.005	0.09	8.01	<0.2	100	0.3	0.09	7.15	0.08	7.77	51.2	161	2.14	116	8.54	17.5	0.16	0.9	0.07	0.39
H755268	TL09-005	<0.005	0.09	7.78	<0.2	120	0.26	0.06	7.82	0.07	7.73	48.7	150	3.64	69	8.07	17.2	0.16	0.8	0.058	0.55
H755269	TL09-005	<0.005	0.07	7.8	<0.2	80	0.26	0.09	8.63	0.05	8.34	48.4	154	2.55	58	8.1	17.4	0.17	0.8	0.059	0.49
H755270	TL09-005	<0.005	0.27	7.9	0.5	50	0.28	0.73	8.04	0.06	8.98	51.4	154	0.74	405	8.27	17.85	0.17	0.9	0.076	0.33
H755272	TL09-005	0.009	0.43	7.71	0.2	50	0.25	0.34	7.82	0.06	11.25	55	169	0.65	595	8.41	18.65	0.16	0.9	0.089	0.35
H755273	TL09-005	0.01	0.36	8.26	<0.2	90	0.33	0.4	8.26	0.09	14.95	61.3	162	1.65	265	8.35	19.15	0.14	0.8	0.078	0.48
H755274	TL09-005	0.008	0.12	8.42	<0.2	100	0.27	0.08	8.6	0.1	8.52	52.8	177	0.92	126.5	8.22	18.75	0.14	0.9	0.066	0.32
H755275	TL09-005	<0.005	0.14	8.25	<0.2	800	0.61	0.07	6.3	0.06	8.3	53.7	185	8.09	179.5	6.99	18.55	0.16	0.4	0.068	1.75
H755276	TL09-005	<0.005	0.02	2.94	<5	20	0.15	0.01	18.2	0.12	7.93	29.5	44	0.57	19.9	5.34	8.73	0.1	0.4	0.036	0.09
H755277	TL09-005	<0.005	0.06	8.62	<0.2	1060	0.82	0.06	5.08	<0.02	11.75	53	252	7.96	111.5	5.53	20.6	0.14	0.4	0.057	2.04
H755278	TL09-005	<0.005	0.03	7.48	<0.2	400	0.69	0.03	5.4	0.06	23.4	34.8	263	3.93	12.2	5.5	18.55	0.13	1.9	0.048	1.02
H755279	TL09-005	<0.005	0.03	7.28	<0.2	470	0.77	0.03	4.99	0.07	29.2	35.8	247	3.79	11.9	4.92	17.75	0.13	1.9	0.043	1.1
H755280	TL09-005	<0.005	0.02	6.94	0.2	440	0.67	0.02	5.21	0.09	30.5	37.8	281	3.77	2.8	5.21	18.05	0.13	2	0.047	0.91
H755281	TL09-005	0.008	0.08	8.04	<0.2	140	0.32	0.06	8.76	0.07	8.33	41.9	178	0.71	100	6.69	17	0.12	0.5	0.062	0.27
H755282	TL09-005	<0.005	0.06	7.93	<0.2	50	0.26	0.06	9.65	0.08	7.66	49	177	0.22	110	8.15	17.4	0.14	0.5	0.062	0.2
H755283	TL09-005	<0.005	0.08	6.89	<5	70	0.28	0.06	13.35	0.06	8.83	44.6	149	0.23	152.5	6.9	14.45	0.11	0.8	0.054	0.18

Partial Geochemistry

sample	hole	Au	ME-MS61 Ag	ME-MS61 Al	ME-MS61 As	ME-MS61 Ba	ME-MS61 Be	ME-MS61 Bi	ME-MS61 Ca	ME-MS61 Cd	ME-MS61 Ce	ME-MS61 Co	ME-MS61 Cr	ME-MS61 Cs	ME-MS61 Cu	ME-MS61 Fe	ME-MS61 Ga	ME-MS61 Ge	ME-MS61 Hf	ME-MS61 In	ME-MS61 K
		g/t	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
H755284	TL09-005	<0.005	0.08	8.29	0.2	70	0.29	0.06	9.67	0.06	8.45	47.1	172	0.39	144	7.81	18.2	0.14	0.6	0.07	0.23
H755285	TL09-005	0.005	0.05	7.42	<5	70	0.23	0.03	12.2	0.08	7.24	41.4	133	0.47	86.7	7.11	15.25	0.12	0.6	0.056	0.22
H755286	TL09-005	<0.005	0.11	7.89	<0.2	80	0.23	0.09	9.29	0.08	7.27	53	175	0.54	181	7.61	16.55	0.15	0.8	0.069	0.21
H755287	TL09-005	<0.005	0.07	8.15	<0.2	350	0.28	0.1	9.13	0.07	8.39	42.6	167	1.7	110	8.32	16.9	0.16	0.6	0.06	0.82
H755288	TL09-005	0.007	0.08	7.64	<0.2	350	0.51	0.11	7.73	0.08	17.45	42.9	179	2.68	115.5	8.59	18.15	0.18	1.1	0.072	0.82
H755289	TL09-005	0.006	0.08	7.76	<0.2	150	0.36	0.06	8.56	0.08	10.6	40	184	0.42	139.5	8.87	19.2	0.16	0.8	0.077	0.32
H755290	TL09-005	<0.005	0.06	7.56	<0.2	150	0.31	0.06	8.45	0.08	8.64	44.4	137	0.33	97.2	8.86	17.65	0.14	0.8	0.068	0.35
H755291	TL09-005	<0.005	0.09	7.93	<0.2	110	0.28	0.04	8.41	0.09	10.2	47.9	151	0.36	124	8.82	18.05	0.16	0.7	0.068	0.35
H755292	TL09-005	<0.005	0.06	8.71	0.5	80	0.13	0.05	9.39	0.07	7.28	42.9	167	0.32	106.5	8.15	14.45	0.05	0.6	0.061	0.18
H755293	TL09-005	0.005	0.05	9.66	0.8	100	0.18	0.05	8.67	0.07	9.08	51.6	193	0.48	107.5	8.63	17.35	0.07	0.7	0.065	0.33
H755294	TL09-005	0.009	0.03	8.44	<5	100	0.21	0.06	10.2	0.07	11.7	47.6	151	0.59	127.5	8.37	17.2	0.12	0.8	0.067	0.3
H755295	TL09-005	0.009	0.02	8.15	0.6	270	0.42	0.08	7.65	0.05	23.8	42.8	147	8.48	104.5	7.51	17.55	0.11	1.5	0.065	0.82
H755297	TL09-005	0.009	0.03	8.63	0.8	230	0.25	0.07	8.6	0.08	10.7	50.7	165	0.67	84.6	8.16	17.35	0.1	1	0.072	0.58
H755298	TL09-005	0.005	0.07	8.57	<5	130	0.38	0.07	10.05	0.09	9.45	47.1	164	0.73	127.5	8.79	16.95	0.09	0.8	0.075	0.36
H755299	TL09-005	0.006	0.07	8.49	0.5	50	0.22	0.05	8.18	0.1	9.15	50.5	168	0.39	130.5	8.73	16	0.11	0.7	0.062	0.19
H755300	TL09-005	<0.005	0.06	8.53	0.2	40	0.19	0.08	7.45	0.09	9.45	48.9	172	0.26	110.5	8.46	18.3	0.1	0.9	0.071	0.17
H755301	TL09-005	<0.005	0.07	8.91	<0.2	40	0.31	0.28	7.83	0.12	8.46	48.3	181	0.3	115.5	8.89	15.85	0.09	0.8	0.196	0.26
H755302	TL09-005	<0.005	0.07	8.78	0.2	50	0.07	0.2	7.7	0.07	7.72	44.6	181	0.21	144.5	8.91	15	0.06	0.8	0.057	0.2
H755303	TL09-005	<0.005	0.05	8.81	0.6	50	0.18	0.14	9.19	0.12	8.96	53.2	179	0.22	111.5	8.76	16.85	0.08	0.9	0.068	0.2
H755304	TL09-005	<0.005	0.08	9.06	<5	80	0.22	0.14	10.45	0.09	10.45	54.5	190	0.24	141	8.07	18.35	0.1	0.9	0.077	0.19
H755305	TL09-005	0.011	0.07	9.11	<5	70	0.18	0.14	10.5	0.08	8.85	54.4	200	0.2	206	8.87	17.5	0.1	0.8	0.071	0.19
H755306	TL09-005	<0.005	<0.01	8.68	<0.2	600	0.81	0.02	5.07	0.06	49.5	31	98	3.49	40.9	5.64	19.8	0.12	3.1	0.05	0.8
H755307	TL09-005	<0.005	0.03	9.12	0.7	300	0.25	0.08	7.87	0.06	9.29	40.7	192	2.62	80.2	7.09	16.85	0.07	0.9	0.054	0.57
H755308	TL09-005	<0.005	0.01	8.1	0.3	120	0.18	0.11	9.41	0.06	7.67	32.8	159	1.13	47.3	5.58	16	0.07	0.6	0.069	0.25
H755309	TL09-005	<0.005	0.03	7.36	0.8	110	0.15	0.13	9.99	0.07	8.53	38.7	131	1.47	99.2	7.07	14.4	0.08	0.6	0.079	0.32
H755310	TL09-005	<0.005	0.04	9.2	0.2	170	0.24	0.14	7.05	0.1	10.2	38.2	223	2.23	146	6.88	21.2	0.09	0.6	0.064	0.44
H755311	TL09-005	<0.005	0.06	8.69	<5	50	0.21	0.11	10.15	0.09	8.28	32	165	0.32	80.1	6.83	15.85	0.07	0.7	0.07	0.14
H755312	TL09-005	0.009	0.06	6.8	<5	220	0.19	0.16	11.25	0.1	8.05	50.1	135	1.22	266	7.73	14	0.08	0.7	0.069	0.38
H755313	TL09-005	<0.005	0.03	8.26	0.8	1060	1.2	0.07	4.96	0.06	86.3	28.9	98	5.38	104.5	5.14	19.2	0.13	3.3	0.049	1.23
H755314	TL09-006	0.024	0.05	7.64	0.3	570	1.17	0.03	3.16	0.04	48.7	14.1	53	1.3	24.9	2.9	21	0.19	3.2	0.025	0.8
H755315	TL09-006	0.005	0.03	7.55	<0.2	810	1.37	0.04	2.96	0.03	47.2	13	45	1.75	23.5	2.78	22	0.2	3.4	0.029	1.15
H755316	TL09-006	0.012	0.03	7.36	<0.2	890	1.29	0.03	2.89	0.03	41.1	13.5	50	1.93	26.3	2.78	22.5	0.19	3.4	0.027	1.36
H755317	TL09-006	0.038	0.04	7.34	0.2	880	1.68	0.04	3.33	0.04	70.3	16	81	1.86	25.2	3.23	20.3	0.2	3.5	0.025	1.26
H755318	TL09-006	0.016	0.03	7.1	<0.2	1090	1.03	0.01	5.26	0.06	42.7	38.9	322	2.75	15.4	5.92	18	0.2	2.2	0.05	1.64
H755319	TL09-006	0.013	0.05	7.18	<0.2	840	1.38	0.02	3.03	0.03	54.5	15.9	93	2.02	44	3.03	19.7	0.18	3	0.021	1.32
H755320	TL09-006	0.013	0.05	7.55	<0.2	1010	1.52	0.03	4.01	0.05	78.9	29.3	176	3.44	29.9	4.74	21	0.22	3.1	0.038	1.86
H755322	TL09-006	0.02	0.05	7.45	<0.2	740	1.35	0.05	4.46	0.05	67.8	27.9	152	1.9	39.1	5.06	19.9	0.2	3.1	0.038	1.24
H755323	TL09-006	0.01	0.03	7.1	<0.2	710	0.93	0.04	5.09	0.06	66	36.6	247	2.74	7.3	5.22	18.5	0.21	2.5	0.04	1.35
H755324	TL09-006	0.018	0.05	7.85	<0.2	840	1.42	0.11	4.45	0.06	87.2	28.7	170	2.75	36.7	4.77	19.85	0.21	3.2	0.035	1.41
H755325	TL09-006	0.218	0.05	7.54	<0.2	860	0.97	0.14	4.71	0.06	62.7	37.2	227	3.02	25.9	5.48	20.2	0.19	2.7	0.048	1.44
H755326	TL09-006	0.107	0.07	7.38	<0.2	860	1.26	0.19	4.22	0.05	68.8	27.4	174	3.41	33.7	4.75	19.5	0.21	3	0.041	1.49
H755327	TL09-006	0.015	0.05	7.7	0.3	860	1.31	0.09	4.33	0.05	68.9	32.6	206	2.64	19.6	4.94	21.1	0.23	3.1	0.046	1.44
H755328	TL09-006	0.017	0.06	7.95	<0.2	1270	1.59	0.03	4.78	0.06	91	25.8	162	1.48	48.6	4.39	20	0.24	3.2	0.034	2.11
H755329	TL09-006	0.075	0.04	7.38	<0.2	860	1.5	0.01	4.08	0.07	75.8	26.5	156	2.63	36.7	4.46	19.6	0.21	2.8	0.036	1.75
H755330	TL09-006	0.028	0.07	7.54	<0.2	840	1.64	0.01	4.05	0.08	79.8	25.6	149	1.9	40.9	4.32	20.4	0.21	3	0.04	1.6
H755331	TL09-006	0.012	0.04	7.5	<0.2	810	1.43	0.02	3.89	0.06	70.2	24	123	1.46	25.7	4.17	20.8	0.21	2.8	0.035	1.35
H755332	TL09-006	0.033	0.07	7.09	<0.2	850	1.57	0.03	4.05	0.04	68.3	22.4	130	2.86	8.9	3.82	17.5	0.2	2.5	0.032	1.61

Partial Geochemistry

sample	hole	Au	ME-MS61 Ag	ME-MS61 Al	ME-MS61 As	ME-MS61 Ba	ME-MS61 Be	ME-MS61 Bi	ME-MS61 Ca	ME-MS61 Cd	ME-MS61 Ce	ME-MS61 Co	ME-MS61 Cr	ME-MS61 Cs	ME-MS61 Cu	ME-MS61 Fe	ME-MS61 Ga	ME-MS61 Ge	ME-MS61 Hf	ME-MS61 In	ME-MS61 K
		g/t	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
H755333	TL09-006	0.013	0.05	7.87	<0.2	840	1.32	0.06	5	0.06	76.5	33.8	117	1.58	20.4	5.91	20.9	0.22	2.5	0.047	1.35
H755334	TL09-006	0.025	0.06	7.69	<0.2	820	1.6	0.04	4.21	0.06	98.3	26.7	147	1.48	35.6	4.43	20.8	0.23	3	0.037	1.58
H755335	TL09-006	0.039	0.06	8.05	<0.2	980	1.51	0.05	4.46	0.07	97.9	29.2	165	1.78	46.5	4.87	20.6	0.25	2.9	0.038	1.64
H755336	TL09-006	0.454	0.31	7.87	<0.2	1190	1.56	0.15	3.51	0.06	69.6	26.2	136	3.3	35.7	4.84	23.2	0.21	3	0.036	2.11
H755337	TL09-006	0.018	0.05	7.53	<0.2	800	1.6	0.03	3.96	0.07	86.5	27.7	160	2.15	21.1	4.75	19.7	0.23	2.7	0.036	1.48
H755338	TL09-006	0.014	0.06	7.53	<0.2	890	1.31	0.04	3.85	0.06	84.4	25.7	142	2.25	24.7	4.45	20	0.24	2.5	0.033	1.54
H755339	TL09-006	0.017	0.06	7.64	<0.2	950	1.49	0.01	3.95	0.06	81.3	25.6	146	2.68	37.8	4.4	20.1	0.22	2.9	0.034	1.76
H755340	TL09-006	0.014	0.06	7.04	<0.2	870	1.35	0.02	4.01	0.06	99.9	22.8	123	2.58	40.3	3.84	18.15	0.25	2.7	0.03	1.64
H755341	TL09-006	0.012	0.05	7.88	<0.2	770	1.6	0.05	4.07	0.08	83.3	26.9	152	2.04	25.9	4.61	20.9	0.22	3	0.039	1.4
H755342	TL09-006	0.011	0.04	6.12	<0.2	700	1.01	0.04	4.49	0.07	82.2	22.3	121	2.08	17.5	3.66	16.6	0.21	2.2	0.033	1.25
H755343	TL09-006	0.018	0.06	7.81	<0.2	770	1.38	0.05	4.62	0.06	75.2	27.7	137	2.19	31.6	4.91	20	0.21	2.7	0.038	1.38
H755344	TL09-006	0.107	0.11	7.48	<0.2	820	1.24	0.12	4.17	0.06	70.4	28.6	147	2.93	25.3	4.6	21.1	0.21	3	0.035	1.53
H755345	TL09-006	0.023	0.15	8.01	0.2	690	0.93	0.06	5.67	0.07	53.3	35.9	139	2.12	77.7	6.19	19.65	0.19	2.2	0.046	1.38
H755347	TL09-006	0.015	0.05	7.25	<0.2	610	1.11	0.05	4.46	0.06	64	32.1	366	1.78	44.5	4.84	17.75	0.2	2.5	0.041	1.2
H755348	TL09-006	0.017	0.05	6.73	<0.2	640	0.93	0.03	4.55	0.07	51.8	50.3	495	2.47	63.9	5.89	17.3	0.2	2.3	0.039	1.54
H755349	TL09-006	0.02	0.05	7.17	<0.2	800	1.2	0.03	4.77	0.06	78	34	201	2.3	28.7	5.23	18.75	0.21	2.5	0.039	1.57
H755350	TL09-006	0.021	0.06	7.38	1.6	510	1.12	0.05	5.94	0.07	62.6	32.4	129	1.48	81.2	5.43	19.65	0.18	2.5	0.036	1.01
H755351	TL09-006	0.01	0.02	7.35	1.5	730	1.19	0.11	4.48	0.06	53	29.4	146	1.58	39.2	6.8	18.7	0.14	2.5	0.031	1.27
H755352	TL09-006	0.009	0.02	7.4	1.1	730	1.21	0.07	4.35	0.07	63.5	27.5	128	1.52	29.2	4.73	19.2	0.13	2.8	0.039	1.27
H755353	TL09-006	0.016	0.01	7.69	1	780	1.11	0.12	4.93	0.05	45.8	29.5	110	1.5	43.7	5.62	19.05	0.12	2.3	0.041	1.36
H755354	TL09-006	0.011	<0.01	7.41	0.5	770	1.11	0.04	4.62	0.06	46	32.9	210	1.47	25.2	5.2	18.5	0.13	2.3	0.039	1.45
H755355	TL09-006	0.015	0.03	7.38	0.7	840	1.22	0.03	4.36	0.06	57.8	29.8	205	1.48	98.2	5.17	18.95	0.13	2.5	0.037	1.54
H755356	TL09-006	0.008	0.02	7.85	0.6	960	1.4	0.03	4.03	0.06	67	25.2	126	1.6	23.7	4.59	20	0.13	2.8	0.038	1.54
H755357	TL09-006	0.008	0.02	7.38	0.5	940	1.41	0.03	4.23	0.08	64.6	26.5	143	1.59	29	4.78	19.35	0.12	2.7	0.041	1.58
H755358	TL09-006	0.021	0.06	7.46	0.7	950	1.32	0.03	3.96	0.06	62.5	26.1	129	1.53	44.4	4.54	19.5	0.14	2.7	0.036	1.64
H755359	TL09-006	0.009	0.02	7.38	0.7	860	1.34	0.04	4.07	0.06	65.6	24.5	129	1.69	29.6	4.36	19.15	0.13	2.6	0.035	1.56
H755360	TL09-006	0.01	0.01	7.45	0.4	760	0.73	0.06	5.26	0.05	27.1	39.8	258	2.18	25	6.25	19.9	0.12	2.1	0.058	1.57
H755361	TL09-006	0.009	0.02	7.4	0.5	870	1.38	0.02	4.33	0.07	58.7	27.8	139	1.45	23.7	4.78	20.8	0.12	2.8	0.041	1.44
H755362	TL09-006	0.02	0.03	7.85	0.9	990	1.48	0.05	4.11	0.06	71.5	26.2	129	1.8	31.6	4.6	19.55	0.13	2.9	0.037	1.59
H755363	TL09-006	0.248	0.09	7.05	<0.2	920	1.19	0.06	3.64	0.05	71.1	24.9	121	2.59	28.3	4.27	19.2	0.15	2.8	0.035	1.57
H755364	TL09-006	0.088	0.03	7.75	0.6	890	1.25	0.05	4.41	0.06	55.8	29.2	143	2.19	41.8	5.39	20.5	0.12	2.7	0.043	1.62
H755365	TL09-006	0.021	0.02	7.26	0.8	890	1.42	0.05	4.12	0.1	57.7	26.8	141	2.29	42.1	4.83	20	0.13	2.8	0.039	1.55
H755366	TL09-006	0.009	0.02	7.92	<0.2	720	0.89	0.04	4.96	0.05	41	41	274	4.25	6	5.65	20.7	0.13	2.5	0.04	1.72
H755367	TL09-006	0.018	0.03	7.8	0.6	770	1.39	0.13	4.32	0.05	60.3	26.3	144	2.42	47.3	4.93	20.1	0.14	3.1	0.037	1.24
H755368	TL09-006	0.14	0.01	6.99	0.9	530	1.22	0.14	3.78	0.05	56.9	19.6	105	1.35	18.1	3.81	17.35	0.12	2.6	0.028	0.83
H755369	TL09-006	0.062	0.01	7.8	0.9	600	1.4	0.08	3.75	0.04	58.6	18.6	97	1.5	62.3	3.57	20.3	0.12	3.1	0.027	0.96
H755370	TL09-006	0.009	0.02	8.11	0.2	750	0.84	0.05	5.02	0.05	37.9	40.6	247	4.52	4.7	5.49	20.5	0.12	2.6	0.038	1.51
H755372	TL09-006	0.008	0.01	8.25	<0.2	700	0.86	0.05	4.89	0.04	38.1	39.8	230	4.87	3	5.25	21	0.13	2.7	0.038	1.58
H755373	TL09-006	0.013	0.02	8.03	0.2	790	1.33	0.04	3.77	0.06	61.2	25.5	169	2.7	38.5	4.43	21.3	0.14	2.8	0.035	1.47
H755374	TL09-006	0.07	0.03	7.42	0.5	650	0.96	0.08	3.24	0.02	44.9	26.2	405	3.86	16.5	3.81	19.8	0.12	2.7	0.022	2.4
H755375	TL09-006	0.011	0.01	8.15	0.2	720	1.23	0.04	3.34	0.04	56.7	18.8	96	2.2	26.4	3.36	21.6	0.11	3.1	0.028	1.23
H755376	TL09-006	0.011	0.01	8.15	0.3	760	1.25	0.04	3.29	0.03	58.5	17.7	76	2.38	23.6	3.24	23.1	0.12	3.3	0.031	1.42
H755377	TL09-006	0.014	<0.01	8.03	0.5	770	1.25	0.06	3.25	0.04	50.4	16.7	72	2.25	24.8	3.21	21.3	0.1	3.1	0.03	1.46
H755378	TL09-006	0.024	0.02	7.81	1	710	1.21	0.1	3.44	0.05	47.9	21.1	118	2.31	66.1	3.7	20.9	0.13	2.8	0.034	1.29
H755379	TL09-006	0.03	0.1	7.44	0.6	670	1.08	0.09	3.65	0.05	49.3	25.6	177	1.85	99.2	4.4	19.9	0.11	2.6	0.03	1.13
H755380	TL09-006	0.033	0.08	7.65	<0.2	720	1.03	0.12	4.6	0.07	48.5	33.2	249	1.99	96.3	5.16	21.2	0.12	2.5	0.04	1.18
H755381	TL09-006	0.022	0.04	8.61	0.8	620	0.95	0.1	4.89	0.04	45.5	26.1	107	1.61	65.2	4.32	21.2	0.12	2.6	0.035	1.12

sample	hole	Au	ME-MS61 Ag	ME-MS61 Al	ME-MS61 As	ME-MS61 Ba	ME-MS61 Be	ME-MS61 Bi	ME-MS61 Ca	ME-MS61 Cd	ME-MS61 Ce	ME-MS61 Co	ME-MS61 Cr	ME-MS61 Cs	ME-MS61 Cu	ME-MS61 Fe	ME-MS61 Ga	ME-MS61 Ge	ME-MS61 Hf	ME-MS61 In	ME-MS61 K
		g/t	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
H755382	TL09-006	0.023	0.04	7.99	0.4	610	0.96	0.1	4.94	0.07	39.1	37.8	311	1.99	48.1	5.36	19.1	0.14	2.5	0.043	1.16
H755383	TL09-006	0.023	0.03	7.8	0.2	830	1.12	0.05	3.44	0.07	51.2	25.2	231	2.12	13.8	3.85	20.7	0.12	3	0.027	1.49
H755384	TL09-006	0.013	0.05	8.03	0.3	980	1.22	0.04	3.83	0.06	47.2	22.8	115	2.15	41.6	4.21	21.2	0.12	2.6	0.033	1.73
H755385	TL09-006	1.6	0.39	7.93	<0.2	1030	1.08	0.17	4.3	0.08	45.9	31.1	165	2.26	34.5	5.06	21.3	0.14	2.4	0.033	1.75
H755386	TL09-006	0.093	0.05	7.67	<0.2	890	1.06	0.05	3.68	0.07	46.4	26	183	1.87	33.5	4.26	20.6	0.13	2.7	0.03	1.49
H755387	TL09-006	0.036	0.04	7.54	0.3	820	1.24	0.04	3.09	0.06	53.5	16.6	85	1.58	19.2	3.12	20.3	0.09	3	0.023	1.41
H755388	TL09-006	0.019	0.03	7.83	0.7	840	1.29	0.06	3.98	0.07	49	27.6	152	1.62	18.3	4.65	21.2	0.12	2.8	0.034	1.38
H755389	TL09-006	0.11	0.99	5.66	<0.2	480	0.51	0.04	5.54	0.1	19.5	59.8	859	1.38	6.6	6.69	12.75	0.16	1.4	0.032	1.09
H755390	TL09-006	0.393	0.12	7.32	0.5	700	1.3	0.11	4.34	0.07	49.1	30.1	161	1.41	26.1	4.79	19.2	0.12	3	0.03	1.13
H755391	TL09-006	0.403	0.06	7.74	0.2	800	1.35	0.09	3.87	0.06	46.3	24.6	180	1.73	27.3	4.21	20.8	0.13	2.9	0.028	1.49
H755392	TL09-006	2.26	0.38	6.6	1.2	630	0.93	0.23	5.32	0.08	38.9	24	237	1.49	29.3	3.78	16.7	0.1	2.4	0.024	1.28
H755393	TL09-006	0.077	0.02	7.61	0.2	760	1.25	0.04	3.98	0.06	50.2	21.8	144	1.41	25	4.06	18.9	0.09	2.7	0.027	1.38
H755394	TL09-006	0.075	0.03	7.24	<0.2	860	0.99	0.06	4.92	0.07	35.3	33.4	206	2.02	26.2	5.57	18.75	0.12	2.3	0.041	1.71
H755395	TL09-006	0.115	0.04	7.92	0.3	1100	1.51	0.05	3.64	0.05	54.3	19.3	107	2.11	28.2	3.88	20.8	0.11	3	0.028	1.8
H755397	TL09-006	0.084	0.08	7.39	0.6	950	1.48	0.05	4.24	0.07	73	25.5	117	1.92	54	4.39	20.2	0.13	3.2	0.032	1.59
H755398	TL09-006	0.02	0.05	7.45	0.4	720	1.17	0.05	4.5	0.06	53.1	36.2	257	2.33	107.5	5.48	19	0.13	2.5	0.037	1.49
H755399	TL09-006	0.122	0.22	7.31	0.5	710	1.2	0.11	4.33	0.06	51.7	31.2	197	2.08	231	5.25	20.1	0.11	2.8	0.039	1.32
H755400	TL09-006	0.032	0.04	7.57	0.3	660	1	0.05	5.25	0.08	49.9	37.1	264	1.47	52.8	5.6	18.65	0.12	2.5	0.038	1.22
H755401	TL09-006	0.021	0.04	7.59	0.3	510	1.03	0.06	4.96	0.08	49.6	33.8	258	1.14	43.6	5.22	19.15	0.14	2.5	0.037	0.9
H755402	TL09-006	0.258	0.19	6.42	0.8	520	0.92	0.13	4.04	0.06	50.4	36.3	156	1.4	44.1	4.92	16.3	0.13	2.1	0.032	0.95
H755403	TL09-006	0.03	0.08	7.53	0.6	730	1.36	0.08	4.74	0.07	55.3	31.3	177	1.54	45.9	5.23	19.95	0.12	3	0.039	1.19
H755404	TL09-006	0.028	0.06	7.81	0.6	720	1.12	0.12	4.63	0.09	51.9	31	164	1.5	41.3	5.26	20.7	0.12	2.7	0.036	1.21
H755405	TL09-006	0.326	0.24	7.25	0.4	910	1.24	0.19	3.88	0.07	52.5	31.5	188	2.09	52.6	5.13	22.4	0.14	2.9	0.038	1.71
H755406	TL09-006	0.013	0.05	7.81	0.5	530	1.16	0.04	5.23	0.09	49.8	34.1	172	1.05	49.6	6.1	19.7	0.15	2.6	0.037	0.9
H755407	TL09-006	0.014	0.09	8.12	0.5	520	1.2	0.06	5.44	0.08	48.5	34.4	177	1.06	40.5	6.02	20.1	0.13	2.3	0.038	0.89
H755408	TL09-006	0.014	0.11	7.51	0.3	600	1.29	0.07	5.03	0.08	56.9	33.3	191	1.44	39.3	5.48	19.95	0.14	2.9	0.041	1.02
H755409	TL09-006	0.011	0.05	7.52	0.4	710	1.13	0.05	4.69	0.04	55.9	30.7	172	2.02	20.6	5.12	18.8	0.14	2.7	0.035	1.45
H755410	TL09-006	0.007	0.04	7.42	0.5	630	1.27	0.05	4.92	0.08	54.2	33.4	186	1.4	22.3	5.41	19.9	0.12	2.8	0.039	1.15
H755411	TL09-006	0.01	0.03	8.17	<0.2	740	1.28	0.06	5.03	0.08	57.7	30.5	198	1.68	11.9	5.65	21.3	0.13	3.1	0.04	1.32
H755412	TL09-006	0.397	0.27	7.11	0.6	640	0.93	0.43	4.49	<0.02	48.8	40.4	275	2.25	25.8	5.63	18.95	0.14	2.4	0.049	1.23
H755413	TL09-006	0.019	0.04	7.13	0.4	650	1.07	0.13	4.72	0.06	48.7	37.2	222	2.1	29.1	5.28	18.85	0.11	2.5	0.038	1.06
H755414	TL09-006	0.013	0.04	7.37	0.4	590	1.11	0.1	5.16	0.08	52.4	34.6	212	1.49	20.9	5.59	18.75	0.14	2.6	0.043	1.02
H755415	TL09-006	0.452	0.16	5.35	0.5	360	0.73	0.35	3.21	0.02	33.9	24.6	157	1.14	49	3.2	12.9	0.09	1.8	0.019	0.55
H755416	TL09-006	0.249	0.11	6.43	0.3	490	0.87	0.19	3.24	0.03	46.3	23	123	1.67	26.8	3.27	16.65	0.1	2.3	0.021	0.78
H755417	TL09-006	0.024	0.1	7.57	0.3	710	1.07	0.15	4.25	0.06	42.7	32.1	248	2.68	68.5	5.08	19.9	0.13	2.5	0.044	1.31
H755418	TL09-006	0.052	0.13	6.97	<0.2	610	0.83	0.09	4.23	0.05	39.2	48.7	761	2.18	76.3	5.26	17.35	0.14	2	0.029	1.01
H755419	TL09-006	0.022	0.09	7.72	0.5	810	0.95	0.13	5.19	0.06	100.5	36.8	211	1.99	39.4	6.44	20.1	0.16	2.9	0.052	1.17
H755420	TL09-006	0.021	0.06	6.8	<0.2	520	0.86	0.09	5.12	0.08	45.4	51.6	600	1.9	26.7	6.12	17.25	0.13	2.1	0.038	0.98
H755422	TL09-006	0.023	0.05	7.63	0.4	540	1.21	0.12	4.11	0.06	57.6	29.8	153	1.63	42.5	4.75	19.9	0.12	2.7	0.036	0.93
H755423	TL09-006	0.149	0.46	7.51	0.6	670	0.93	0.25	4.82	0.08	50.3	38.5	150	2.77	269	4.92	19.15	0.13	2.4	0.037	1.27
H755424	TL09-006	0.009	0.05	5.03	<0.2	100	0.41	0.05	5.53	0.1	7.04	73.4	1240	0.65	3.2	7.29	11.55	0.15	0.8	0.04	0.25
H755425	TL09-006	0.036	0.16	7.95	0.2	750	0.96	0.12	4.84	0.05	33.8	35.2	200	3.12	62.4	5.67	19.45	0.14	2	0.04	1.45
H755426	TL09-006	0.016	0.09	8.07	1.3	640	0.71	0.18	5.7	0.09	40.6	35.1	297	2.96	39.2	5.65	18.8	0.14	2.2	0.044	1.33
H755427	TL09-006	0.016	0.06	7.73	0.9	950	1.01	0.08	4.55	0.05	57.7	27.4	223	4.62	35.3	4.5	20.5	0.15	2.5	0.035	1.91
H755428	TL09-006	0.127	0.64	8.1	1.1	760	0.85	0.29	4.98	0.12	33.9	35	195	2.97	350	6.91	19.6	0.16	1.9	0.051	1.48
H755429	TL09-006	0.041	0.14	8.16	0.9	560	0.97	0.15	5.09	0.06	43.6	47.7	454	2.44	105	6.73	19.4	0.19	2	0.049	1.12
H755430	TL09-006	0.038	0.1	7.63	0.8	510	0.88	0.17	5.38	0.06	38.4	36.2	240	1.65	80.3	6.44	19.25	0.15	1.8	0.054	0.83

Partial Geochemistry

sample	hole	Au	ME-MS61 Ag	ME-MS61 Al	ME-MS61 As	ME-MS61 Ba	ME-MS61 Be	ME-MS61 Bi	ME-MS61 Ca	ME-MS61 Cd	ME-MS61 Ce	ME-MS61 Co	ME-MS61 Cr	ME-MS61 Cs	ME-MS61 Cu	ME-MS61 Fe	ME-MS61 Ga	ME-MS61 Ge	ME-MS61 Hf	ME-MS61 In	ME-MS61 K
		g/t	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
H755431	TL09-006	0.168	0.33	8.27	0.3	780	1.11	0.32	4.91	0.04	83.7	42.9	416	2.92	106	6.71	25.7	0.2	2.6	0.049	1.32
H755432	TL09-006	0.05	0.21	7.16	0.3	560	0.8	0.16	4.6	0.06	45	47.7	610	1.9	137	5.77	18.3	0.18	1.7	0.036	0.91
H755433	TL09-006	0.037	0.15	7.89	1.2	860	1	0.2	4.81	0.04	56.3	41.4	304	2.92	100.5	6.14	20.9	0.17	2.3	0.041	1.33
H755434	TL09-006	0.014	0.06	6.54	0.4	580	0.81	0.27	5.98	0.07	35	51	823	1.32	21.6	7.08	15.85	0.14	1.4	0.192	0.79
H755435	TL09-006	0.157	0.15	8.08	0.8	890	1.16	0.19	4.38	0.05	70.5	24	121	2.58	44.1	4.11	21.2	0.15	2.8	0.034	1.47
H755436	TL09-006	0.304	0.29	7.24	0.9	610	1.09	0.16	2.3	0.04	23	8	36	1.28	70.5	1.91	20	0.15	2	0.02	1.17
H755437	TL09-006	0.142	0.21	7.83	0.7	670	1.16	0.11	2.08	0.06	17.95	6.8	22	1.45	73.8	1.6	22.1	0.11	2.1	0.018	1.23
H755438	TL09-006	0.103	0.48	5.96	1.3	830	0.9	0.33	6.69	0.07	29.7	56.7	1060	5.92	256	7.18	15	0.19	1.4	0.078	2.29
H755439	TL09-006	0.008	0.06	6.97	0.6	810	1.26	0.08	6.31	0.1	50.4	43.2	560	7	19	6.72	17.5	0.19	2.2	0.066	1.9
H755440	TL09-006	0.024	0.11	6.9	0.7	610	1.31	0.13	5.3	0.1	49.1	31.5	295	3.04	72.4	4.88	17.55	0.17	2.2	0.062	1.18
H755441	TL09-006	0.034	0.17	5.23	0.4	260	0.5	0.18	6.45	0.12	13.05	73.8	1440	1.64	143	7.82	12.8	0.17	1	0.05	0.66
H755442	TL09-006	0.015	0.06	7.03	0.6	850	1.28	0.12	5.97	0.07	51.4	43.6	505	5.09	20.9	6.79	18.55	0.2	2.2	0.065	1.69
H755443	TL09-006	0.013	0.05	8.17	1.1	760	1.53	0.1	5.87	0.07	63.3	33.5	319	3.13	45.5	5.66	19.85	0.21	2.7	0.06	1.23
H755444	TL09-006	0.034	0.18	5.82	0.9	450	0.87	0.2	6.49	0.15	25.7	81.6	1470	2.54	105.5	7.8	14.2	0.17	1.4	0.066	1
H755445	TL09-006	0.024	0.12	4.92	1	390	0.44	0.1	5.54	0.15	11.8	91.3	1820	2.93	84.6	7.73	11.45	0.16	1	0.043	1.04
H755447	TL09-006	0.027	0.08	4.29	0.4	10	0.24	0.03	3.73	0.08	8.96	90.5	1760	0.26	86.4	7.69	9.62	0.16	0.6	0.036	0.03
H755448	TL09-006	0.021	0.08	5.53	0.3	170	0.62	0.04	4.5	0.07	19.5	81.2	1480	1.46	77.1	7.16	13.15	0.2	1.4	0.038	0.44
H755449	TL09-006	0.133	0.17	7.84	0.8	760	1.33	0.17	2.76	0.1	38.2	18.5	168	3.13	86.3	3.25	20.5	0.17	2.3	0.025	1.33
H755450	TL09-006	0.106	0.17	8.16	0.8	760	2.98	0.19	3.06	0.03	102	15.2	93	2.32	50.4	3.15	24.8	0.17	3.9	0.029	1.09
H755451	TL09-006	<0.005	0.03	7.8	0.6	930	1.64	0.07	3.95	0.06	81.3	27.8	264	3.37	5	4.18	22	0.18	3.1	0.035	1.52
H755452	TL09-006	0.019	0.07	8.01	0.6	1030	1.44	0.06	3.44	0.04	65.9	20.7	122	2.91	32.8	4.14	21.6	0.19	2.8	0.031	1.65
H755453	TL09-006	0.046	0.17	7.68	1.3	1020	1.48	0.12	3.39	0.07	72.8	17.9	104	2.32	65.1	3.52	18.85	0.14	2.9	0.027	1.49
H755454	TL09-006	0.044	0.11	7.34	0.9	1020	1.39	0.1	3.29	0.04	65.9	17.4	90	2.48	40.4	3.26	19.1	0.14	2.9	0.026	1.57
H755455	TL09-006	0.211	0.16	7.46	1	840	1.23	0.1	4.25	0.06	67.4	26.7	261	3.1	25.2	4.12	18.25	0.14	2.7	0.028	1.48
H755456	TL09-006	0.005	0.07	7.6	0.7	930	1.44	0.09	3.77	0.05	66.1	25.6	234	3.13	27.8	3.89	19.1	0.17	2.8	0.028	1.61
H755457	TL09-006	<0.005	0.02	7.26	1	910	1.38	0.1	3.78	0.05	74.4	26.1	239	2.94	33.8	3.94	18.65	0.16	2.9	0.026	1.56
H755458	TL09-006	0.01	0.05	7.36	0.3	850	1.07	0.09	3.18	0.03	45.1	16	105	3.36	32.7	3.01	19.25	0.14	3.4	0.024	1.62
H755459	TL09-006	0.013	0.09	7.96	0.7	1090	1.51	0.08	3.87	0.05	79.2	22.5	133	3.47	54	4.14	22.2	0.2	2.8	0.034	1.96
H755460	TL09-006	0.008	0.03	7.68	0.7	960	1.62	0.06	3.78	0.06	75.5	26.6	263	2.64	19.7	4.02	20.8	0.2	2.8	0.032	1.58
H755461	TL09-006	0.284	0.37	7.21	0.4	1010	1.46	0.17	3.46	0.06	72.2	25	246	2.92	29.2	3.84	20.9	0.2	2.9	0.039	1.63
H755462	TL09-006	0.03	0.15	7.81	0.5	1200	1.61	0.14	3.86	0.06	84.9	24.5	199	3.21	33.5	3.99	21.7	0.2	3.2	0.033	1.82
H755463	TL09-006	1.03	0.86	7.33	0.7	930	1.36	0.9	3.58	0.05	80.2	20.1	125	2.31	33.6	4.14	19.8	0.17	2.9	0.032	1.33
H755464	TL09-006	0.025	0.07	7.7	0.3	1000	1.53	0.13	3.75	0.06	84.9	21.4	131	2.71	21.3	4.02	19.4	0.18	3.2	0.037	1.56
H755465	TL09-006	0.025	0.09	7.68	<0.2	850	1.29	0.08	4.07	0.06	69.4	29.3	289	3.32	18.4	4.36	19.05	0.21	3.1	0.039	1.54
H755466	TL09-006	0.006	0.07	7.92	<0.2	970	1.53	0.09	4.13	0.06	79.3	28.4	287	3.75	42.4	4.37	19.45	0.23	3.2	0.036	1.63
H755467	TL09-006	1.275	0.53	7.71	<0.2	830	1.35	0.43	4.51	0.05	77.5	27.5	275	3.66	35.4	4.04	18.25	0.19	3.2	0.031	1.51
H755468	TL09-006	0.111	0.12	7.78	<0.2	940	1.48	0.1	4.06	0.06	77.9	27.3	265	3.49	28.5	4.16	19.25	0.2	3.4	0.032	1.68
H755469	TL09-006	0.042	0.12	7.51	<0.2	1160	1.68	0.09	3.27	0.05	94.2	16.1	80	2.8	23.6	3.19	21.5	0.25	3.6	0.024	1.57
H755470	TL09-006	0.081	0.1	7.26	<0.2	1080	1.52	0.12	2.96	0.03	79.4	16.2	81	1.96	12.4	3.14	18.95	0.23	3.3	0.02	1.52
H755471	TL09-006	0.018	0.08	7.4	<0.2	1200	1.74	0.04	3.61	0.05	102	18.3	100	2.22	20.6	3.68	19.05	0.23	3.1	0.024	1.62

sample	hole	Au-AA23	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	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	
		ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
H754551	TL09-001	12.7	47.1	5.36	1520	0.74	1.24	3.5	128	510	4.4	23.9	<0.002	0.23	0.86	24.9	2	0.9	297	0.22	0.06	
H754552	TL09-001	7.4	36	5.92	2310	0.82	0.31	2.7	37.4	250	12.5	15	<0.002	0.43	0.99	23	2	0.7	158.5	0.18	0.11	
H754553	TL09-001	11.4	24.6	8.59	1840	0.67	0.04	0.6	24.9	100	12.1	1.2	<0.002	1.15	0.2	4.6	3	0.3	70.1	<0.05	0.98	
H754554	TL09-001	12.6	41.9	2.75	2920	0.73	0.21	4.9	26.3	600	6.5	2.6	<0.002	0.71	0.72	13.6	2	1	186.5	0.39	<0.05	
H754555	TL09-001	6.9	33.9	3.62	3260	0.33	0.23	4.1	37.6	490	7.1	3.1	<0.002	0.69	0.7	41.4	3	0.9	116	0.29	0.12	
H754556	TL09-001	6.5	48.5	3.72	1750	0.31	0.34	4.2	46.4	310	3.4	14.9	<0.002	0.18	0.61	47.3	3	0.9	171	0.28	0.11	
H754557	TL09-001	8.9	11.8	6.43	2990	0.45	0.08	1.4	44.2	140	16.3	4.5	<0.002	1.83	0.19	17.5	3	0.3	92.1	0.1	0.73	
H754558	TL09-001	3.8	9.7	7.55	2450	0.89	0.02	1.4	25.8	120	12.3	5.8	<0.002	1.73	0.13	16.5	3	0.3	101	0.09	1.23	
H754559	TL09-001	2.8	2.3	8.36	2710	0.81	0.02	0.5	24	90	4.5	0.7	<0.002	1.12	0.37	7.6	3	<0.2	82.9	<0.05	0.31	
H754560	TL09-001	4.4	1.7	6.4	2250	5.09	0.03	0.4	19.7	90	15.8	0.2	0.002	2.29	0.21	13.9	4	0.2	121.5	<0.05	4.08	
H754561	TL09-001	1.7	1.2	9.01	2790	1.33	0.02	0.2	23.6	100	4.6	0.3	<0.002	1.7	0.07	4.2	3	<0.2	112.5	<0.05	2.58	
H754562	TL09-001	1.3	1.1	10.15	2350	0.22	0.01	0.2	20.6	110	0.6	0.2	<0.002	0.13	0.08	2.1	3	<0.2	63.6	<0.05	0.08	
H754563	TL09-001	25	35.4	2.1	576	1.01	3.44	5.8	68.6	690	4.8	30.7	<0.002	0.03	0.22	9.1	2	0.6	872	0.32	<0.05	
H754564	TL09-001	1	1.3	9.64	2670	0.5	0.01	0.4	35.6	130	0.5	0.2	<0.002	0.15	0.08	5.3	3	<0.2	64.8	<0.05	<0.05	
H754565	TL09-001	2.4	16	7.34	1770	0.3	0.25	1.9	61.7	190	1	3	<0.002	0.21	0.49	30.1	2	0.5	112.5	0.13	0.07	
H754566	TL09-001	0.7	2.3	8.99	2730	0.09	0.01	0.2	28.2	110	0.7	0.1	<0.002	0.11	0.12	5.1	3	<0.2	64.2	<0.05	0.05	
H754568	TL09-001	1.3	9.5	8.26	2120	0.19	0.1	1	41	170	0.6	1.1	<0.002	0.26	0.24	17.6	2	0.3	84.6	0.07	<0.05	
H754569	TL09-001	1.8	12.1	7.15	2240	0.27	0.2	1.2	44.7	110	1.8	3.3	<0.002	0.32	0.5	19.6	2	0.3	102	0.08	0.09	
H754570	TL09-001	2.6	53.3	6.35	1800	0.16	0.53	1.8	58.8	170	1.1	65.9	<0.002	0.38	0.19	29.8	2	0.4	136.5	0.13	1.15	
H754571	TL09-001	1.1	4.4	8.2	2610	0.17	0.03	0.5	36.1	110	0.6	2.5	<0.002	0.3	0.07	9.8	3	<0.2	70.9	<0.05	0.6	
H754572	TL09-001	1.3	2.5	8.31	2060	0.11	0.02	0.6	38	90	<0.5	0.2	<0.002	1.07	0.1	11	4	0.2	48.9	<0.05	<0.05	
H754573	TL09-001	1.3	6.2	7.16	2680	0.14	0.04	0.7	28.5	120	0.5	0.3	<0.002	0.47	0.19	13	3	<0.2	54.7	<0.05	0.09	
H754574	TL09-001	1.6	8.5	7.7	2490	0.16	0.1	0.9	42.7	140	0.7	5.3	<0.002	0.25	0.28	16.7	2	0.2	71.4	0.06	0.05	
H754575	TL09-001	2.9	9.6	5.47	1860	0.31	0.65	2	57.7	140	1.5	2.3	<0.002	0.39	0.71	33.1	2	0.5	117	0.14	0.06	
H754576	TL09-001	2.7	15.8	5.95	2280	0.2	0.66	1.8	63.9	220	1.1	2.7	<0.002	0.09	0.58	29.5	2	0.5	102.5	0.12	<0.05	
H754577	TL09-001	3	13.9	4.81	2350	0.24	0.78	2.1	66	270	1.3	1.9	<0.002	0.18	0.53	34.2	2	0.5	122.5	0.14	<0.05	
H754578	TL09-001	3.4	13	4.25	1840	0.28	0.83	2.4	77.1	380	1.6	2.9	<0.002	0.35	0.8	41.3	2	0.6	141.5	0.16	0.1	
H754579	TL09-001	2.6	13.2	5.53	2260	0.31	0.42	1.8	73.4	310	1	5.1	0.002	0.61	0.71	28.3	3	0.4	82.4	0.13	<0.05	
H754580	TL09-001	3.3	9.9	3.64	1600	0.37	1.06	2.3	82.8	310	1.7	4	0.002	0.27	1.14	38.2	2	0.6	143	0.16	0.19	
H754581	TL09-001	4.1	11.2	3.43	1820	0.37	1.13	2.7	82.8	340	1.5	4.1	<0.002	0.16	0.62	42.9	2	0.7	163.5	0.18	0.08	
H754582	TL09-001	6.8	8.9	4.46	2740	0.41	0.61	3.3	61.1	280	1.5	3.6	0.002	0.12	0.55	23.6	2	0.7	127	0.25	<0.05	
H754583	TL09-001	4.5	12	3.05	1940	0.34	1.32	2.8	90.3	370	1.6	21.7	<0.002	0.5	0.51	43.8	3	0.8	177.5	0.19	<0.05	
H754584	TL09-001	4.8	16.8	3.46	1590	0.35	1.09	3.3	93.8	360	1.5	10.1	0.003	0.22	0.47	49.8	3	1	154	0.21	0.12	
H754585	TL09-001	4.2	24.7	2.59	1340	0.3	1.52	3	96.1	360	1.9	22.8	0.003	0.07	0.37	35.6	3	1	153.5	0.2	0.15	
H754586	TL09-001	4.3	14.6	2.8	1780	0.32	1.26	3	81.5	380	1.7	7.3	0.002	0.18	0.47	46.4	3	0.8	159.5	0.21	0.12	
H754587	TL09-001	4	39.3	2.88	1560	0.23	1.68	3	72	440	1.9	65.6	0.002	1.2	0.36	53.1	3	0.6	150	0.21	0.44	
H754588	TL09-001	0.9	3.5	7.78	2740	0.14	0.05	0.5	31.7	80	0.7	2.7	0.002	0.46	0.13	9.6	3	0.2	75.5	<0.05	0.29	
H754589	TL09-001	3.9	16.4	3.59	1380	0.43	1.45	2.6	100.5	320	1.7	7	0.003	0.44	0.44	45	3	0.8	179.5	0.18	0.83	
H754590	TL09-001	3.7	17.6	3.56	1460	0.25	1.59	2.5	91.4	320	2.1	32.9	<0.002	0.98	0.4	44.7	3	0.8	201	0.17	0.7	
H754591	TL09-001	3.5	18.8	4.05	1470	0.31	1.58	2.4	95.2	310	1.8	17.3	<0.002	0.53	0.31	42.5	3	0.6	189.5	0.17	0.44	
H754592	TL09-001	5.1	22.2	2.55	2020	0.34	1.94	2.8	79.5	330	3.1	22.2	<0.002	0.66	0.41	41.1	3	0.7	224	0.21	0.45	
H754593	TL09-001	4.8	40.5	3.13	1960	0.28	1.96	2.7	71.4	290	3	34.8	0.002	1.28	0.22	37.4	3	0.8	268	0.19	2.16	
H754595	TL09-001	3.8	13.8	2.64	1960	0.29	2.07	2.4	83.9	350	2.5	5.5	<0.002	0.7	0.32	41	3	0.7	227	0.17	0.56	
H754596	TL09-001	4.1	34.3	2.37	1800	0.45	2.29	2.8	93.8	300	2.8	24.1	<0.002	1.18	0.29	46.9	3	0.8	207	0.19	1.07	
H754597	TL09-001	4.3	19.8	2	2310	0.57	1.82	3	94.8	370	3.9	8.3	0.002	0.29	0.36	49.4	3	0.8	167	0.21	0.27	
H754598	TL09-001	3.3	36.8	1.96	2120	0.21	1.65	2.5	74.9	200	2	22.3	0.002	0.23	0.29	40.5	2	0.6	137	0.18	0.23	

sample	hole	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm	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
H754599	TL09-001	3.7	22.9	1.91	2340	0.55	2.19	3.6	104.5	370	2.3	12.6	0.002	0.34	0.32	60.7	2	0.7	170	0.23	0.28
H754600	TL09-001	3.8	20.2	2.29	1800	0.43	1.75	3.3	114.5	320	2.5	11.5	<0.002	0.77	0.43	53.7	3	0.7	177.5	0.22	0.59
H754601	TL09-001	1.8	6.5	6.59	3000	0.8	0.06	0.9	61.2	80	0.6	1.4	<0.002	0.35	0.11	26.1	2	0.4	57.7	0.06	0.23
H754602	TL09-001	3.7	13.4	2.3	2240	0.84	2.1	3	103.5	300	2.5	5.8	0.002	0.48	0.36	46	2	0.8	193	0.19	0.84
H754603	TL09-001	4.3	34.6	2.15	1800	0.58	2.47	3.1	79.9	340	2.8	41.9	<0.002	1.06	0.22	49.4	3	0.6	228	0.2	0.91
H754604	TL09-001	3	27.1	2.99	2070	0.57	2.1	2.4	134	220	2.5	55.8	<0.002	1.32	0.14	36.4	2	0.5	234	0.16	1.5
H754605	TL09-001	3.9	11.5	2.35	2210	0.47	1.87	2.8	94.5	350	2.6	6.1	0.002	0.54	0.33	44.7	2	0.7	199	0.18	0.59
H754606	TL09-001	3.9	12.9	2.56	1580	0.51	1.51	2.8	91.3	330	3.1	16.7	<0.002	0.56	0.36	48.7	2	0.7	212	0.19	1.15
H754607	TL09-001	4.3	12.7	2.06	1760	0.54	2.73	2.8	93.8	340	5	24.2	0.002	0.79	0.33	46.4	2	0.7	304	0.17	1.05
H754608	TL09-001	11.9	15.7	3.03	1060	0.39	3.17	3	135	460	4.3	23.6	<0.002	0.37	0.19	23.8	1	0.5	418	0.19	0.3
H754609	TL09-001	14	32.3	2.9	559	1.65	3.25	3.9	120.5	560	5.4	29.9	<0.002	0.12	0.16	17.2	1	0.5	566	0.23	0.94
H754610	TL09-001	15.8	33.4	3.01	602	1.05	3.57	3.5	126.5	570	4.8	34.2	<0.002	0.12	0.12	17	1	0.5	517	0.23	0.41
H754611	TL09-001	19.6	30	3.28	723	1.91	3.5	3	140	540	4.1	41.3	<0.002	0.22	0.12	17.5	1	0.4	400	0.2	0.35
H754612	TL09-001	10.8	15.1	3.39	1810	0.63	1.95	2.5	106.5	360	3.3	19.6	<0.002	0.61	0.3	32	2	0.6	289	0.16	0.84
H754613	TL09-001	3.9	8.9	2.61	1840	0.54	0.95	2.6	87.2	320	2.5	1.8	<0.002	0.13	0.42	43.9	2	0.6	171.5	0.17	<0.05
H754614	TL09-001	4.3	9.9	2.56	1740	0.49	1.41	2.9	85.7	340	2.4	2.6	<0.002	0.06	0.31	46.2	1	0.7	185	0.19	0.14
H754615	TL09-001	16.1	18.6	1.06	432	0.24	3.58	3.5	36	490	5	29.6	<0.002	0.03	0.1	10	1	0.3	624	0.23	0.07
H754616	TL09-001	14.7	35	4.61	1140	1.15	2.25	2.4	167	890	5	65.4	<0.002	0.15	0.17	30.7	1	0.6	563	0.15	0.15
H754617	TL09-001	22.1	43.7	6.07	1020	0.73	2.11	2.2	226	1000	4.6	84.7	<0.002	0.12	0.13	27.4	1	0.5	677	0.13	0.23
H754618	TL09-001	19	53.4	6.65	1070	0.88	1.99	2.2	254	970	4.1	85.8	<0.002	0.04	0.12	30.8	1	0.5	591	0.13	0.16
H754619	TL09-001	17.9	44.6	6.46	1200	0.5	1.86	2.1	236	900	3.9	75.8	<0.002	0.07	0.13	32.4	1	0.5	500	0.13	0.17
H754620	TL09-001	4	11.7	3.66	1740	0.39	1.32	2.7	79.7	330	3.7	10.2	<0.002	0.26	0.42	44.9	2	0.5	203	0.17	0.21
H754622	TL09-001	3.2	13.5	4.22	2090	0.24	1.13	2.3	78.3	240	2.5	6.1	<0.002	0.26	0.36	39.4	2	0.5	134	0.15	0.15
H754623	TL09-001	3.1	11.2	3.76	2010	0.29	1.12	2.3	77.2	250	2.8	5	<0.002	0.32	0.46	37.6	1	0.5	137.5	0.16	0.14
H754624	TL09-001	3.1	14.5	4.33	2000	0.55	1.18	2.2	71.3	230	2.3	15.8	<0.002	0.1	0.37	36.3	1	0.5	140	0.14	0.11
H754625	TL09-001	2.6	10.8	5.16	2070	0.21	0.83	1.8	61.2	200	1.7	6.4	<0.002	0.15	0.71	30.5	1	0.4	117.5	0.12	0.12
H754626	TL09-001	3.9	20.7	5.7	2070	1.18	0.3	2.2	69.6	220	3.9	27.9	0.003	0.21	1.55	32.8	2	0.5	148.5	0.15	<0.05
H754627	TL09-001	3	7	7.09	2300	0.27	0.03	0.9	34.6	110	0.8	2.6	<0.002	0.34	0.1	13.7	1	0.2	60.4	0.05	0.51
H754628	TL09-001	3.7	11.5	7.02	2170	0.66	0.09	1.1	43.8	140	1.2	15.2	<0.002	0.29	0.16	9	2	0.3	72.3	0.08	0.44
H754629	TL09-001	10	26.8	2.57	1270	0.98	2.49	2.5	63	480	4.5	42.1	<0.002	0.97	0.11	27.4	2	0.6	342	0.17	0.76
H754630	TL09-001	3.5	11.4	2.29	2140	1.63	1.69	2.4	81.2	310	3.1	5.4	<0.002	0.44	0.35	40.6	1	0.6	148.5	0.16	0.32
H754631	TL09-001	3.9	13.5	2.44	2190	0.7	1.68	2.6	94	320	2.1	1	0.002	0.43	0.37	46.8	2	0.7	114.5	0.16	0.15
H754632	TL09-001	3.5	12.8	2.4	1800	0.38	1.28	2.5	88.2	320	2.1	0.9	<0.002	0.28	0.51	44.2	2	0.6	147	0.16	0.11
H754633	TL09-001	3.7	14.9	2.84	1640	0.29	1.15	2.7	86.9	330	1.8	1.9	<0.002	0.15	0.44	46.6	2	0.6	134	0.17	0.08
H754634	TL09-001	3	12.4	2.42	1680	0.53	1.82	2.2	75.9	290	2	7.3	<0.002	0.7	0.25	38.7	2	0.5	143.5	0.13	0.54
H754635	TL09-001	3.7	11.4	2.32	1900	0.3	1.41	2.7	89.7	320	2.7	3.4	<0.002	0.19	0.47	46.1	2	0.6	161	0.17	0.16
H754636	TL09-001	3	7.9	1.84	2010	0.62	0.77	2.3	76	290	5	7.4	0.002	0.29	0.63	35.4	2	0.5	191	0.15	0.34
H754637	TL09-001	3.8	9.2	2.42	1960	0.56	1.07	3	92.9	350	2.6	2.4	0.002	0.24	0.53	42.7	2	0.7	169.5	0.19	0.06
H754642	TL09-001	14.5	19.8	1.1	1120	1.33	1.44	5	46.8	510	5.1	48.2	<0.002	0.6	0.39	16.6	2	1.1	223	0.36	0.44
H754638	TL09-001	18.5	14.1	0.8	910	1.22	1.38	6.1	23.9	660	3.7	34.8	0.002	0.35	0.46	13.5	2	1.1	210	0.44	0.08
H754639	TL09-001	3.6	5.7	2.69	1730	0.44	1.51	3	73.4	350	1.9	2	<0.002	0.2	0.38	46.6	2	0.7	174	0.19	<0.05
H754640	TL09-001	3.7	7.2	3	1590	0.41	1.53	3.2	65.2	380	1.6	1.6	0.003	0.22	0.46	46.9	2	0.7	179	0.2	<0.05
H754641	TL09-001	3.8	9.7	2.99	1420	0.36	1.2	3	94.2	340	2	4.6	0.002	0.12	0.52	47.4	2	0.7	190.5	0.19	0.06
H754643	TL09-001	7.3	12.4	2.42	2200	0.52	1.14	3.7	74	380	2.7	29	0.002	0.18	0.66	44.3	2	0.8	235	0.25	0.08
H754644	TL09-001	14.7	21.7	2.55	3680	0.82	1.04	4.7	27.4	580	2.4	58.9	<0.002	0.52	0.38	13.5	2	0.8	163.5	0.33	0.12
H754645	TL09-001	5	8.8	4.15	1880	0.89	0.95	2.2	108	260	2.1	13.9	0.002	0.22	0.58	33.4	2	0.5	203	0.14	0.09
H754647	TL09-001	5.3	8.2	2.75	1510	0.72	1.42	2.7	107.5	350	2	3	0.002	0.09	0.62	39.5	2	0.6	227	0.17	<0.05

Partial Geochemistry

sample	hole	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm	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
H754648	TL09-001	5	9.6	3.53	1490	0.7	1.32	2.7	115.5	350	1.6	4.4	0.002	0.18	0.79	40.4	2	0.6	231	0.17	0.11
H754649	TL09-001	10.6	15.5	3.44	1280	0.5	1.92	3	102	460	2.3	13.7	0.002	0.12	0.43	34.2	2	0.6	310	0.17	<0.05
H754650	TL09-001	3.8	16.4	2.68	1780	0.37	2.14	2.5	106	240	2	21	0.002	0.34	0.54	39.4	2	0.5	216	0.16	0.06
H754651	TL09-001	10.3	22.4	5.07	1350	0.51	1.73	2.8	259	400	2.2	19.2	0.002	0.17	0.41	32.2	2	0.5	289	0.17	0.06
H754652	TL09-001	8.3	13.9	3.03	1840	0.44	1.92	2.8	125	380	2.9	20.3	<0.002	0.14	0.75	35.4	2	0.6	328	0.16	<0.05
H754653	TL09-001	5.6	34.2	3.34	2760	0.53	0.88	2.1	102.5	270	2	58.1	0.002	0.21	0.38	29.6	2	0.5	241	0.13	0.15
H754654	TL09-001	3.4	8.5	3.21	2350	0.54	1.24	2.4	110	270	2.7	5.7	0.003	0.18	0.78	37.2	2	0.7	300	0.14	0.16
H754655	TL09-001	6.1	18.8	3.89	1800	0.34	1.64	2.4	138	320	2.6	20.6	0.002	0.16	0.36	33.6	1	0.6	340	0.14	0.1
H754656	TL09-001	10.7	17.2	4.78	1100	1.39	1.67	2.9	166.5	420	2.7	18.3	0.004	0.18	0.43	32.5	2	0.5	335	0.17	0.08
H754657	TL09-001	13.2	20.6	4.76	1120	0.34	2.01	3.1	165	480	3.1	31.1	0.002	0.12	0.32	31.9	2	0.5	426	0.18	<0.05
H754658	TL09-001	27.2	21.2	1.54	486	0.27	3.17	5.1	45.4	690	5.2	43.7	<0.002	0.02	0.25	9.9	1	0.5	704	0.27	<0.05
H754659	TL09-001	15.8	36.5	6.33	1120	0.75	1.87	3.3	376	530	2.8	27.6	<0.002	0.06	0.2	24.6	1	0.5	378	0.18	<0.05
H754660	TL09-001	18.9	22.2	5.33	1060	0.49	2.33	3.2	246	560	3.2	23.6	<0.002	0.03	0.24	25.8	1	0.5	449	0.17	<0.05
H754661	TL09-001	13.8	18	4.37	1220	0.56	2.1	3	198	490	4.4	24.3	<0.002	0.1	0.38	31.2	2	0.6	435	0.17	0.26
H754662	TL09-001	19.3	28.3	4.83	1080	2.07	2.38	3.4	171	640	4.1	38.9	0.007	0.05	0.24	26.2	1	0.6	504	0.18	0.13
H754663	TL09-001	13.7	28	3.63	1320	2.57	2.19	3.2	129.5	490	5.1	47	<0.002	0.4	0.26	31.4	2	0.7	554	0.18	0.35
H754664	TL09-001	28.9	19.5	1.08	473	4.03	3.65	4.7	34.6	560	6.7	37.7	<0.002	0.46	0.15	10.7	2	0.4	736	0.27	0.34
H754665	TL09-001	15.1	20.4	4.94	1280	0.71	1.83	2.9	183.5	480	3.5	23.2	<0.002	0.16	0.32	25.3	1	0.5	400	0.16	0.21
H754666	TL09-001	10.6	19.3	4.8	1350	0.78	1.63	2.4	184.5	380	2.9	19.9	<0.002	0.65	0.32	33.3	3	0.7	342	0.16	0.24
H754667	TL09-001	8.3	30.5	3.41	1250	4.7	2.91	2.6	139.5	330	4.2	67.5	0.003	2.95	0.22	31.8	3	0.7	451	0.16	0.86
H754668	TL09-001	32.5	20	0.87	634	6.07	3.85	5.5	13	860	10.7	54.7	<0.002	0.39	0.16	6.3	2	0.7	910	0.31	0.18
H754669	TL09-001	29.8	34.6	5.22	901	0.75	2.63	4.7	175.5	1250	4.2	77.4	<0.002	0.05	0.11	18.3	1	0.7	759	0.21	<0.05
H754670	TL09-001	16.2	45.2	3.72	2430	1.91	1.84	3.9	152	560	4.5	90.9	<0.002	0.63	0.12	22.9	2	0.6	544	0.24	0.61
H754672	TL09-001	40	26.6	2.87	819	1.22	3.32	9.1	98.7	970	7.9	61.6	<0.002	0.12	0.18	15	1	0.7	930	0.35	<0.05
H754673	TL09-001	40.9	30.6	2.87	724	0.27	3.52	9	96.1	990	7.4	63.4	<0.002	0.11	0.18	14.5	1	0.6	1070	0.35	0.06
H754674	TL09-001	39.6	21.3	2.91	758	1.46	3.52	8.7	96.1	990	7.7	51.7	<0.002	0.07	0.25	14.7	1	0.7	1080	0.36	0.08
H754675	TL09-001	7.8	17.1	2.82	2460	34.7	1.17	2.7	111	350	5.8	54.7	0.005	0.2	0.65	35.7	2	0.8	591	0.17	0.12
H754676	TL09-001	32.5	36.7	4.37	837	3.42	2.85	5.7	98.1	1450	7.4	105	<0.002	0.03	0.16	19.1	1	0.8	1100	0.27	<0.05
H754677	TL09-001	29.9	41.5	4.53	785	0.12	2.58	5.3	110	1420	6.7	113	<0.002	0.02	0.12	17.9	1	0.7	1025	0.24	<0.05
H754678	TL09-001	25.9	37.5	6.06	811	0.14	2.55	4.5	211	1300	5.2	102.5	<0.002	0.02	0.11	19.8	1	0.7	964	0.21	0.06
H754679	TL09-001	31.5	30.8	6	895	0.11	2.52	4.2	204	1250	4.8	86.9	<0.002	0.03	0.12	20.1	1	0.7	898	0.2	<0.05
H754680	TL09-001	25.5	32.3	2.89	723	0.19	2.7	4.1	81.6	1050	7.6	83	<0.002	0.02	0.15	18.1	1	0.7	1150	0.24	0.1
H754681	TL09-001	22.5	18.9	2.28	558	0.36	3.25	4.5	101.5	670	6.4	32.7	<0.002	<0.01	0.15	11.1	1	0.5	919	0.26	0.25
H754682	TL09-001	28.5	30.1	4.46	1450	0.1	2.05	8.3	72.8	1250	6	78.3	<0.002	0.02	0.22	28.8	2	0.7	869	0.28	0.1
H754683	TL09-001	21.9	18.9	2.75	662	1.54	3.22	4.6	117.5	750	5.9	31.5	<0.002	0.01	0.15	12.4	1	0.5	902	0.28	<0.05
H754684	TL09-001	27.6	23.5	3.07	736	0.29	3.18	4.9	127	870	5.8	39.6	<0.002	0.01	0.16	13.9	1	0.6	915	0.28	<0.05
H754685	TL09-001	27.3	42.9	3.93	1000	2.1	2.41	4.3	105.5	970	4.9	90.5	<0.002	0.21	0.11	21.6	2	0.6	700	0.23	0.2
H754686	TL09-001	33.4	31.8	4.24	942	0.2	3.04	5.4	91.5	1450	5.8	80.3	<0.002	0.03	0.11	20.2	1	0.7	942	0.26	0.06
H754687	TL09-001	24.8	37.2	4.1	777	0.16	2.65	5.3	89.6	1390	4.3	93	<0.002	0.13	0.07	17.5	1	0.7	730	0.25	0.13
H754688	TL09-001	34.4	42.4	4.25	769	0.33	2.7	5.5	98.7	1430	4.5	98.9	<0.002	0.49	0.07	18.6	2	0.8	624	0.26	1.04
H754689	TL09-001	22.4	25.9	1.87	412	0.16	3.54	4.1	61.1	710	6	55.2	<0.002	0.11	0.07	9.8	2	0.4	985	0.25	0.35
H754690	TL09-001	24.7	38.4	3.26	758	1.23	2.58	4.5	107.5	870	5	84.8	<0.002	0.09	0.11	14.9	1	0.5	726	0.24	0.08
H754691	TL09-001	17.8	26.3	1.87	489	0.51	3.35	4	78.1	610	5.1	50.6	<0.002	0.07	0.1	9.1	1	0.4	719	0.25	0.05
H754692	TL09-001	22	26.3	2.56	558	0.23	3.07	4.2	114	660	4.5	42.2	<0.002	0.02	0.14	11.8	1	0.5	709	0.25	<0.05
H754693	TL09-001	20.5	27.4	2.6	543	0.18	3.02	4.3	118.5	670	4.4	46.3	<0.002	0.01	0.08	11.4	1	0.5	696	0.26	<0.05
H754694	TL09-002	3.4	9.8	4	1540	0.39	1.12	2.5	142.5	300	1.7	1.6	<0.002	0.08	0.43	38.9	2	0.6	136	0.16	<0.05
H754695	TL09-002	3	10	4.25	1530	0.28	1.06	2.3	136	290	1.6	1.8	<0.002	0.12	0.39	38.9	2	0.6	118	0.15	0.43

sample	hole	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm	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
H754697	TL09-002	3.6	13.9	4.12	1460	0.39	1.16	2.2	131	260	1.8	13.4	<0.002	0.1	0.32	58.7	2	0.5	140.5	0.15	0.08
H754698	TL09-002	39.4	37.4	2.99	726	0.62	3.37	8.6	96.5	1000	7.2	57.4	<0.002	0.08	0.15	14.6	1	0.7	1090	0.35	<0.05
H754699	TL09-002	40.9	37.1	2.91	697	0.77	3.48	8.6	95.9	980	8.1	55.2	<0.002	0.12	0.14	14.4	1	0.7	1090	0.35	<0.05
H754700	TL09-002	3.5	16.5	4.41	1500	0.76	1.52	2.4	133.5	270	2.7	20.6	<0.002	0.12	0.33	42.6	2	0.5	178	0.15	0.06
H754701	TL09-002	3.7	13.8	4	1460	0.35	1.93	2.4	120	270	2.3	9.5	<0.002	0.11	0.34	55	2	0.6	176	0.16	0.07
H754702	TL09-002	3.5	12.5	4.07	1450	0.47	1.67	2.5	122.5	300	2	1.8	<0.002	0.16	0.28	52	2	1	137.5	0.16	0.07
H754703	TL09-002	2.8	11.8	3.95	2040	0.28	0.95	2.1	97.8	230	1.5	1	<0.002	0.27	0.32	33.4	2	0.6	95.6	0.14	0.06
H754704	TL09-002	3.2	12.8	4.11	1420	0.3	1.18	2.5	122	290	1.9	1.3	<0.002	0.12	0.34	43.4	2	0.6	111.5	0.16	0.22
H754705	TL09-002	4.1	16.9	4.4	1300	0.3	1.13	2.6	121	300	2.1	2.7	<0.002	0.13	0.25	63.3	2	0.6	114.5	0.16	0.09
H754706	TL09-002	20.8	23.2	0.84	479	0.23	3.64	4.1	20.2	530	10.9	49.3	<0.002	0.08	0.13	6.6	2	0.7	654	0.26	0.05
H754707	TL09-002	18.1	22.5	0.82	473	0.22	3.75	4	19.1	540	10.2	45.4	<0.002	0.05	0.12	6.2	1	0.6	652	0.25	<0.05
H754708	TL09-002	19.3	23.6	0.85	531	0.39	3.58	4.1	19.5	560	11	51.7	<0.002	0.05	0.13	6.6	2	0.7	670	0.26	<0.05
H754709	TL09-002	9.3	16.2	2.1	4750	0.56	0.61	3.5	24.4	520	1.3	57.2	<0.002	0.81	0.18	11	2	0.9	37.2	0.25	0.09
H754710	TL09-002	3.5	5.7	2.41	2400	0.36	1.15	2.4	136.5	280	1.7	2.2	<0.002	0.28	0.35	48.4	2	0.6	153	0.15	<0.05
H754711	TL09-002	2.9	12.5	4.47	1400	0.27	1.48	2.4	137	270	1	1.3	0.002	0.06	0.22	41.8	2	0.5	123.5	0.14	0.07
H754712	TL09-002	2.9	12.7	4.42	1300	0.24	1.27	2.5	138.5	290	1.1	1.3	0.002	0.09	0.25	42.4	2	0.5	109	0.15	0.07
H754713	TL09-002	2.9	9.7	3.97	1440	0.24	1.33	2.4	138	280	1.1	1.4	0.002	0.1	0.29	40.4	2	0.5	137	0.14	0.07
H754714	TL09-002	3	10.8	3.48	1840	0.3	1.67	2.5	135	260	1.5	1.1	<0.002	0.11	0.27	42.3	2	0.6	223	0.14	0.19
H754715	TL09-002	5.5	9.2	3.03	1640	0.29	1.48	2.5	122	320	1.6	1	<0.002	0.08	0.23	38.6	2	0.5	180.5	0.14	0.06
H754716	TL09-002	3	13.2	4.46	1320	0.25	1.32	2.5	134.5	290	1.3	1	0.002	0.07	0.2	41.5	2	0.6	111.5	0.14	0.07
H754717	TL09-002	3	14.6	4.41	1200	0.31	1.26	2.4	134.5	270	1.6	1.1	0.002	0.07	0.22	43.5	2	0.5	104.5	0.14	<0.05
H754718	TL09-002	3	14.9	4.35	1340	0.26	1.34	2.5	141.5	290	2	1.3	0.002	0.13	0.19	44.7	2	0.5	109.5	0.15	0.07
H754719	TL09-002	3	11.5	2.88	1840	0.27	1.42	2.3	133.5	270	3.8	0.9	0.002	0.12	0.21	39.8	2	0.5	141	0.14	0.06
H754720	TL09-002	2.8	11.6	2.51	2100	0.26	1.55	2.2	124.5	250	3.1	1.1	0.002	0.1	0.15	37.8	2	0.5	142.5	0.13	0.06
H754722	TL09-002	2.7	10.2	2.57	2030	0.23	1.49	2.2	128	250	2.4	0.8	0.002	0.19	0.16	38.5	2	0.5	140.5	0.13	0.08
H754723	TL09-002	2.8	10.4	2.87	1760	0.34	1.7	2.3	133.5	270	1.7	0.9	0.002	0.13	0.21	40	2	0.5	153	0.13	<0.05
H754724	TL09-002	3	11.4	3.26	1650	0.25	1.44	2.4	132.5	270	1.2	0.9	<0.002	0.1	0.26	41.1	2	0.5	140.5	0.14	0.21
H754725	TL09-002	2.8	10.8	3.48	1520	0.32	1.39	2.3	134	270	1.1	0.8	<0.002	0.06	0.24	40.2	2	0.5	124	0.14	0.06
H754726	TL09-002	2.9	10	4.31	1280	0.22	1.2	2.3	132	270	1	0.7	<0.002	0.11	0.19	40	2	0.6	102.5	0.14	0.05
H754727	TL09-002	2.8	11.6	4.37	1290	0.46	1.24	2.3	130	280	1	0.7	0.002	0.08	0.19	39.9	2	0.5	97	0.14	0.07
H754728	TL09-002	2.9	10.1	3.69	1410	0.25	1.48	2.4	136.5	270	2	1	0.002	0.17	0.18	41	2	0.5	131	0.15	0.31
H754729	TL09-002	2.6	8.4	2.68	1860	0.2	1.59	2.2	126	260	1.2	0.6	0.002	0.11	0.14	36.5	2	0.5	176	0.13	<0.05
H754730	TL09-002	2.8	7.5	2.67	1600	0.23	1.52	2.3	132	270	1.2	0.7	0.002	0.13	0.24	39.4	2	0.5	217	0.14	0.05
H754731	TL09-002	2.7	11	2.86	2120	0.26	1.45	2.2	127.5	250	1.2	0.5	0.002	0.14	0.14	37.8	2	0.5	122	0.14	<0.05
H754732	TL09-002	2.7	7.7	2.45	1990	0.19	1.17	2.2	128.5	260	0.8	0.5	<0.002	0.12	0.15	37.9	2	0.5	125.5	0.13	<0.05
H754733	TL09-002	2.9	7	2.09	2090	0.28	1.7	2.1	129.5	260	0.8	1	0.002	0.08	0.13	36.9	1	0.5	121.5	0.17	0.05
H754734	TL09-002	2.9	14.1	2.78	2690	0.39	1.54	2.1	126.5	250	1	13.1	0.002	0.19	0.21	38.3	<1	0.5	126.5	0.15	0.09
H754735	TL09-002	2.4	11.4	2.4	2380	0.26	1.64	1.9	112	230	1.2	6	0.002	0.12	0.22	34.3	<1	0.5	122.5	0.14	0.11
H754736	TL09-002	2.5	6	2.14	2600	0.26	1.47	2	109	230	1.7	2.8	<0.002	0.24	0.33	33.2	2	0.5	115.5	0.16	0.19
H754737	TL09-002	2	21.1	2.75	1780	0.54	1.51	1.7	104.5	190	2.8	43.6	<0.002	0.71	0.13	29.1	<1	0.4	130	0.12	0.79
H754738	TL09-002	2.7	13	3.73	1560	0.25	1.81	2.2	133	280	2.6	10.5	0.002	0.18	0.2	39.4	1	0.5	178	0.17	0.24
H754739	TL09-002	7.1	40	2.59	1560	0.92	1.66	2.3	121	320	3.8	77.4	<0.002	0.59	0.1	33.4	<1	0.4	362	0.15	0.87
H754740	TL09-002	27.8	31.6	5.2	1020	0.5	2.51	4.2	195	930	4.3	52.2	<0.002	0.05	0.11	20.7	<1	0.8	704	0.23	0.09
H754741	TL09-002	23.7	19.1	2.01	532	0.29	3.66	5.6	79.7	540	8.5	46.1	<0.002	0.21	0.09	9.6	1	0.5	882	0.36	0.09
H754742	TL09-002	22.2	33.8	2.1	550	0.24	3.33	5.4	85.1	540	9.7	46.3	<0.002	0.18	0.08	9.1	<1	0.5	863	0.33	0.07
H754743	TL09-002	24.8	27.6	2.17	585	0.23	3.28	5.6	88.6	580	9.5	45.5	<0.002	0.12	0.1	10.2	<1	0.5	885	0.33	0.08
H754744	TL09-002	22.6	24.8	2.01	527	0.23	3.34	5.7	83	520	8.1	44.5	<0.002	0.16	0.08	9.4	<1	0.5	844	0.33	0.06

sample	hole	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm	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
H754745	TL09-002	20.6	30.4	2	527	0.45	2.5	3.8	71.5	560	4	55.4	<0.002	0.03	0.09	10	<1	0.4	643	0.23	<0.05
H754747	TL09-002	29.4	42.6	6.46	1120	0.14	1.89	4	255	900	2.8	69.1	<0.002	0.01	0.11	23.8	<1	0.5	578	0.22	0.11
H754748	TL09-002	4.8	18.2	2.42	2090	0.52	1.28	2	132	260	2.8	31.2	0.002	0.38	0.31	32.6	1	0.5	418	0.13	0.11
H754749	TL09-002	3.2	13.2	2.71	1820	0.23	1.12	2.2	138	260	1.5	1.3	<0.002	0.1	0.32	40.9	<1	0.5	162.5	0.15	0.07
H754750	TL09-002	3.1	11.1	2.83	1680	0.39	1.22	2.3	145	280	1.1	1.1	0.002	0.12	0.25	43.2	1	0.5	124.5	0.15	0.08
H754751	TL09-002	2.8	11.3	2.3	2030	0.45	1.01	2.2	141	250	1.2	0.7	0.002	0.27	0.2	40.9	1	0.5	125	0.15	0.11
H754752	TL09-002	2.8	10.3	3.02	1590	0.41	1.18	2.2	143	300	1.6	0.7	0.002	0.13	0.23	41.1	<1	0.5	119.5	0.15	<0.05
H754753	TL09-002	3.2	13.7	3.21	1590	0.32	1.28	2.3	137	280	1.4	0.9	0.002	0.24	0.28	42.2	1	0.5	113.5	0.16	0.1
H754754	TL09-002	3	7.6	2.4	2180	0.38	1.2	2.1	134	260	2	0.9	<0.002	0.17	0.27	38.3	2	0.5	117	0.16	<0.05
H754755	TL09-002	3.1	9.6	2.15	2670	0.25	1.66	2.4	154	290	2.4	1.5	<0.002	0.1	0.31	44.7	<1	0.6	118.5	0.16	0.14
H754756	TL09-002	2.7	9.3	1.64	7910	0.23	0.53	1.7	106	240	2.2	2.9	0.002	0.28	0.24	37.4	1	0.4	49.7	0.11	0.07
H754757	TL09-002	2.6	7.3	2.49	2270	0.26	1.1	2	136	280	2	0.7	<0.002	0.05	0.3	37.1	<1	0.5	106	0.13	0.1
H754758	TL09-002	3	10.6	2.73	2060	0.27	1.38	2.4	141	270	2	0.7	0.002	0.11	0.31	44.7	<1	0.5	125	0.16	0.06
H754759	TL09-002	2.9	9.8	2.73	1560	0.2	1.49	2.3	141.5	270	1.8	1.1	0.002	0.12	0.28	42.1	<1	0.5	134	0.15	0.09
H754760	TL09-002	2.6	9.7	2.56	2240	0.17	1.19	2	132.5	260	1.3	0.7	<0.002	0.18	0.27	36.2	<1	0.4	115	0.13	0.05
H754761	TL09-002	2.9	7.6	2.73	1810	0.34	1.41	2.3	144	300	2.6	1	0.002	0.1	0.29	40.5	2	0.5	107	0.17	<0.05
H754762	TL09-002	2.7	10.3	1.99	2000	0.23	1.34	2	137.5	260	1.8	0.6	<0.002	0.23	0.33	37.9	<1	0.4	121.5	0.13	0.13
H754763	TL09-002	3	8.5	2.27	2150	0.28	1.38	2.3	139.5	280	1.7	0.8	0.002	0.09	0.4	41.3	2	0.5	119.5	0.17	0.07
H754764	TL09-002	3	10.1	2.01	1610	0.25	2.25	2.4	153	300	1.5	0.4	<0.002	0.08	0.22	45.2	<1	0.5	148.5	0.16	0.11
H754765	TL09-002	2.4	7.4	1.81	2390	0.25	1.58	1.7	104.5	190	1.3	0.7	0.002	0.19	0.27	35.7	1	0.4	112	0.14	0.07
H754766	TL09-002	3.1	6	1.89	1760	0.42	2.19	2.2	147.5	300	1.6	0.6	0.003	0.09	0.29	45	2	0.5	173	0.17	0.09
H754767	TL09-002	3.3	7.1	2.16	1640	0.33	2.13	2.3	148.5	280	2.1	0.6	0.004	0.22	0.38	46	2	0.6	157.5	0.17	0.12
H754768	TL09-002	3.2	7	2.05	1590	0.27	2.42	2.4	147.5	300	1.6	0.6	0.002	0.09	0.24	49.9	<1	0.6	153	0.18	<0.05
H754769	TL09-002	3.2	5.9	2	1550	0.47	2.28	2.4	156	310	3.2	1.6	<0.002	0.11	0.45	46.9	2	0.6	198.5	0.16	0.13
H754770	TL09-002	25.8	25.3	3.37	914	0.31	2.73	4.2	111	1130	5.2	74.7	<0.002	0.05	0.17	18	1	0.8	744	0.26	0.12
H754772	TL09-002	3.3	7.9	2.56	1620	0.59	1.7	2.1	145.5	280	2.2	1.3	0.002	0.09	0.37	42.9	1	0.5	177	0.15	0.09
H754773	TL09-002	3.1	8.4	3.38	1580	0.46	1.22	2.2	140.5	290	1.6	1.1	0.002	0.12	0.44	42.7	2	0.5	130.5	0.15	0.08
H754774	TL09-002	2.9	7.3	4.08	1430	0.37	1.44	2.2	140	310	1.5	0.9	0.002	0.19	0.41	44.7	<1	0.5	126	0.16	0.05
H754775	TL09-002	3.2	8.3	3	1640	0.43	1.42	2.4	147	300	1.9	1.4	0.002	0.09	0.35	49.6	<1	0.6	135	0.17	0.11
H754776	TL09-002	3.6	8.9	2.14	2640	0.28	1.02	2	123.5	250	2.5	8.8	0.002	0.25	0.89	41.5	1	0.5	150	0.14	0.08
H754777	TL09-002	12.1	11.2	3.21	1640	1.49	1.35	2.6	125.5	730	5.1	24.1	0.002	0.13	0.88	40.1	<1	0.6	346	0.16	<0.05
H754778	TL09-002	5.8	15.3	2.71	2170	1.22	0.89	2.2	135.5	370	7.3	53.1	0.002	0.22	0.5	41	2	0.6	297	0.16	0.08
H754779	TL09-002	41.1	26	3.93	1040	0.17	3.2	4	77.1	1920	15.4	98	<0.002	0.14	0.22	28.6	<1	0.9	988	0.23	<0.05
H754780	TL09-002	40.3	30.9	3.9	991	0.4	3.22	3.7	77.5	1940	16.9	111	<0.002	0.14	0.21	27.2	<1	0.9	1025	0.22	<0.05
H754781	TL09-002	50.2	40.9	5.3	1400	0.56	2.2	4.7	100.5	2090	15.6	104.5	<0.002	0.2	0.24	37.3	<1	1	923	0.26	0.07
H754782	TL09-002	3.5	15	3.05	1800	0.82	1.24	2.3	150	330	5.1	20.3	0.002	0.18	0.34	45.1	2	0.5	212	0.16	0.1
H754783	TL09-002	2.7	10	2.87	2110	0.18	0.81	1.9	117	240	2.6	26.8	<0.002	0.34	0.42	36.7	1	0.5	114	0.13	0.15
H754784	TL09-002	2.5	6.6	2.21	2650	0.25	1.29	1.9	126.5	250	2.3	3.3	0.002	0.26	0.31	38	<1	0.5	133.5	0.13	0.05
H754785	TL09-002	3.1	9.2	2.07	1920	0.31	2.71	2.5	152	340	3	3.3	0.003	0.29	0.38	52.6	1	0.6	137.5	0.17	0.09
H754786	TL09-002	3.1	9.2	3.83	1690	0.31	1.7	2.3	142.5	300	2.2	0.6	0.003	0.12	0.43	47.7	<1	0.6	124.5	0.16	0.1
H754787	TL09-002	3.2	10.1	3.92	1570	0.32	1.35	2.6	157	320	1.9	0.8	0.002	0.13	0.56	52.4	1	0.6	118.5	0.17	0.11
H754788	TL09-002	3	13.8	4.53	1680	0.23	1.18	2.1	143.5	290	2	1.3	0.002	0.13	0.4	44.8	<1	0.5	114.5	0.16	<0.05
H754789	TL09-002	4.9	18.6	4.24	1560	0.64	1.68	2.8	114.5	380	2.7	16	<0.002	0.21	0.27	40.8	<1	0.7	167	0.2	0.09
H754790	TL09-002	3.6	17	4.41	1350	1.74	1.63	2.4	118.5	330	2.1	19.5	0.003	0.07	0.46	45.3	1	0.6	193.5	0.17	0.08
H754791	TL09-002	3.3	13.5	3.83	1360	0.71	1.53	2.7	107.5	330	2.2	12.2	0.003	0.16	0.43	47.7	<1	0.7	209	0.17	0.15
H754792	TL09-002	3.2	20.4	4.12	1360	0.38	1.39	2.4	124.5	300	1.9	11.5	0.002	0.17	0.29	43.9	<1	0.6	160.5	0.16	0.13
H754793	TL09-002	3.4	20.6	3.7	1820	0.59	1.53	2.1	124	300	2	16.8	0.002	0.29	0.24	39.8	<1	0.4	181	0.15	0.17

sample	hole	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm	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
H754794	TL09-002	3	13.7	3.12	1960	0.69	1.51	2.1	138.5	280	1.8	1.8	0.002	0.12	0.65	41.7	1	0.5	201	0.14	0.09
H754795	TL09-002	3.1	17.9	4.76	1440	0.31	1.33	2.4	143	310	1.4	3.6	0.002	0.1	0.57	48.2	<1	0.5	129.5	0.16	0.11
H754797	TL09-002	2.7	18.5	4.79	1320	0.2	1.09	2.1	140	280	1	2	<0.002	0.07	0.39	43.5	<1	0.5	101	0.14	0.06
H754798	TL09-002	2.9	12.1	4.41	1500	0.25	1.33	2.3	144.5	310	1.2	0.8	0.002	0.05	0.6	45.8	<1	0.5	116.5	0.15	0.05
H754799	TL09-002	2.9	11.7	3.07	2020	0.3	1.09	2	132.5	270	1.2	0.7	<0.002	0.22	0.54	40.4	2	0.5	118.5	0.15	0.12
H754800	TL09-002	3	12	3.04	2160	0.55	1.72	2.3	138.5	290	2.7	3.4	0.002	0.33	0.49	45.6	<1	0.5	164	0.16	0.23
H754801	TL09-002	3.1	15.2	2.35	2030	2.3	1.85	2.4	140.5	290	4.1	10	0.003	0.33	0.56	48.6	<1	0.8	185.5	0.16	0.21
H754802	TL09-002	11.3	28	2.67	1360	2.32	2.05	2.1	99.5	660	3.9	62.2	<0.002	1.05	0.14	31.7	1	0.6	259	0.13	0.76
H754803	TL09-002	2.6	14.9	2.89	1910	1.18	1.59	2	130	270	3.5	3.9	<0.002	0.37	0.44	37	2	0.5	191	0.15	0.2
H754804	TL09-002	2.9	12.8	2.59	1900	1.98	1.58	2.1	133	280	3.4	1.1	<0.002	0.15	0.65	38.5	<1	0.5	168.5	0.14	0.14
H754805	TL09-002	2.4	16	2.22	2050	0.64	1.84	1.8	128	230	2.2	9.4	<0.002	1.3	0.35	33.6	6	0.6	250	0.13	1.03
H754806	TL09-002	10.1	24.5	3.34	1400	9.56	2.02	2.7	103.5	420	2.8	26.6	0.01	0.34	0.39	35	1	0.6	348	0.19	0.31
H754807	TL09-002	14.6	16.4	3.33	976	55.1	2.63	3.7	35.8	510	2.9	3.7	0.029	0.03	0.41	30.7	1	0.7	492	0.26	<0.05
H754808	TL09-002	12.2	17.1	4.32	1090	13.55	2.08	2.9	99.3	450	2.1	12.5	0.008	0.15	0.36	30.2	<1	0.9	359	0.2	0.24
H754809	TL09-002	12.9	39.9	4	1020	4.14	2.08	4	125	620	2.1	84.5	0.003	0.3	0.28	24.3	2	0.6	337	0.25	0.07
H754810	TL09-002	10.8	27.2	6.64	1200	5.81	1.58	3.7	312	480	2	26.2	0.005	0.07	0.24	32.9	<1	0.8	292	0.23	0.11
H754811	TL09-002	5.5	17.6	3.41	1230	5.07	1.77	2.5	128	360	2.7	22.3	0.006	0.3	0.27	34.2	1	0.5	361	0.16	1.46
H754812	TL09-002	3	7.5	3.03	1810	57.6	0.91	2	111.5	280	3	2	0.045	1	0.64	36.7	4	0.9	225	0.14	0.33
H754813	TL09-002	3.1	9.6	3.51	1660	4.06	0.88	2.3	136	300	2.4	4.3	0.004	0.21	0.62	41.7	<1	0.6	179	0.16	0.11
H754814	TL09-002	2.7	11.2	3.97	1620	1.09	1.23	2	140.5	270	2.4	5	0.002	0.18	0.5	41.7	<1	0.5	194.5	0.14	0.06
H754815	TL09-002	2.7	22.9	4.67	1470	0.35	1.2	2	139	280	1.8	24.9	<0.002	0.08	0.34	39	1	0.4	167	0.15	<0.05
H754816	TL09-002	2.5	19	4.27	1520	0.34	1.11	1.9	134.5	260	1.7	11.7	<0.002	0.08	0.44	38	1	0.4	144.5	0.14	<0.05
H754817	TL09-002	2.9	12.5	3.22	1640	0.27	1.11	2.2	138.5	290	2	2.8	<0.002	0.12	0.59	40.7	2	0.6	148.5	0.15	0.06
H754818	TL09-002	3.3	12.9	2.72	1380	0.2	1.97	2.4	119.5	290	2.7	9.8	<0.002	0.25	0.28	44.4	1	0.7	185.5	0.17	0.08
H754819	TL09-002	2.9	25.3	3	1280	0.44	2.02	2.2	120	230	2.1	30.9	<0.002	0.12	0.06	37.7	2	0.5	169.5	0.16	<0.05
H754820	TL09-002	2.6	17.9	2.8	1480	0.29	1.44	1.9	119.5	250	2.1	16.9	<0.002	0.09	0.2	36.9	<1	0.5	181	0.14	0.05
H754822	TL09-002	3.4	20.4	3.18	1370	0.27	1.79	2.2	100	170	2.3	27.2	<0.002	0.05	0.15	42.8	<1	0.6	217	0.15	<0.05
H754823	TL09-002	19.1	15.8	1.04	605	1.02	3.36	4.1	24.1	640	4.4	30.8	<0.002	0.01	0.11	7.4	1	0.7	431	0.26	<0.05
H754824	TL09-002	3.1	10.2	2.75	1500	0.39	1.5	2.2	125.5	260	1.9	11.9	0.002	0.08	0.35	40.2	<1	0.6	153	0.15	<0.05
H754825	TL09-002	3.2	11.2	2.78	1520	0.32	1.54	2.4	120.5	230	2	19.4	0.002	0.06	0.41	45.5	<1	0.6	169.5	0.16	0.08
H754826	TL09-002	2.9	12.8	2.43	1520	0.37	1.56	2.3	121	240	1.8	16	<0.002	0.1	0.35	42.9	<1	0.6	175.5	0.16	0.07
H754827	TL09-002	3.1	9.5	2.8	1520	0.51	1.3	2.3	134	280	2.5	4.6	<0.002	0.07	0.43	43.1	<1	0.6	134	0.16	<0.05
H754828	TL09-002	3.2	10.7	2.97	1640	4.36	1.38	2.3	139.5	290	1.8	5.3	0.003	0.11	0.4	44.9	<1	0.6	148.5	0.16	0.08
H754829	TL09-002	3	14.9	3.07	1840	1.01	1.25	2.1	135.5	260	1.5	4.6	<0.002	0.07	0.3	42.2	<1	0.5	115	0.14	<0.05
H754830	TL09-002	3	7.9	3.33	1560	0.33	1.19	2.2	139.5	290	1.5	1.7	<0.002	0.04	0.41	42.4	<1	0.5	112.5	0.15	<0.05
H754831	TL09-002	3.4	12.2	3.63	1620	0.31	1.35	2	111	280	1.6	7.8	<0.002	0.12	0.21	37.9	<1	0.5	142	0.13	<0.05
H754832	TL09-002	5.7	10.8	2.97	1630	0.65	1.52	2.5	129	340	2.3	6.7	0.002	0.09	0.35	43.9	<1	0.6	191	0.16	0.06
H754833	TL09-002	15.1	12	2.78	1410	0.68	2.06	3	99.6	510	3.6	15.2	<0.002	0.17	0.31	35.3	<1	0.6	349	0.19	0.15
H754834	TL09-002	5.4	8.8	2.73	2200	0.78	1.36	2.2	133.5	290	2.2	2	0.002	0.28	0.59	38.6	1	0.5	171	0.15	0.19
H754835	TL09-002	3.2	9.7	2.99	1550	0.76	1.39	2.3	140.5	290	1.4	1.2	<0.002	0.16	0.51	45	<1	0.6	149.5	0.16	0.09
H754836	TL09-002	3.2	9.3	2.82	1680	4.69	1.83	2.3	141.5	280	2.5	6.1	<0.002	0.34	0.52	44.5	1	0.6	199	0.16	0.16
H754837	TL09-002	16	17	0.82	509	0.74	3.7	3.9	20.1	560	9.8	42.4	<0.002	0.08	0.14	5.6	<1	0.7	692	0.27	<0.05
H754838	TL09-002	18.4	16.9	0.86	493	1.24	3.64	4	20.1	570	9.9	46.3	<0.002	0.08	0.09	6.7	<1	0.7	658	0.28	<0.05
H754839	TL09-002	5.1	7.1	2.82	1690	0.51	1.39	2.5	143.5	330	2	14.1	<0.002	0.12	0.52	41.8	1	0.6	183	0.18	0.1
H754840	TL09-002	2.9	9.1	2.1	2310	0.48	1.34	2	129	250	1.7	1.1	0.002	0.1	0.58	40.2	1	0.5	131	0.15	0.08
H754841	TL09-002	2.8	7.1	2.74	2060	0.36	1.15	2	131	260	1.3	0.6	0.002	0.1	0.52	40.4	1	0.5	123.5	0.14	0.05
H754842	TL09-002	2.8	6.6	2.29	2140	0.39	1.19	2	125	250	1.6	0.6	0.002	0.09	0.65	38.9	1	0.5	133	0.15	0.08

sample	hole	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm	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
H754843	TL09-002	3.4	7.4	2.69	1970	0.56	1.35	2.4	144	280	2	4.3	<0.002	0.14	0.57	45.4	1	0.7	182.5	0.16	0.07
H754844	TL09-002	28.9	23.2	2.29	763	0.28	2.89	3.8	80.4	660	5.4	38.6	<0.002	0.05	0.3	14.8	1	0.8	693	0.25	0.05
H754845	TL09-002	31.3	26	2.42	728	0.72	3.05	4.1	88	680	5.9	41.8	<0.002	0.07	0.2	14	1	0.7	772	0.25	<0.05
H754847	TL09-002	29.2	33.6	2.43	668	0.52	2.93	4.1	93.3	720	5.6	47.7	<0.002	0.04	0.11	13.4	1	0.7	661	0.26	<0.05
H754848	TL09-003	20.4	27.3	1.78	510	0.47	3.13	2.6	72	580	7.7	59.8	<0.002	0.02	0.14	11.1	1	0.6	666	0.16	0.07
H754849	TL09-003	20.4	26.1	1.55	457	0.27	3.3	2.6	61.1	600	10.3	51.5	<0.002	0.03	0.15	9.1	1	0.6	875	0.17	<0.05
H754850	TL09-003	21	24.9	1.42	423	0.36	3.34	3.1	55.4	540	9.6	54.9	<0.002	0.03	0.13	8.3	1	0.6	802	0.2	0.18
H754851	TL09-003	20.1	26.1	1.42	434	0.21	3.31	2.9	54.4	540	9	52.2	<0.002	0.01	0.14	8.4	1	0.6	741	0.18	0.05
H754852	TL09-003	24.3	25	1.49	472	0.15	3.35	2.6	58	550	7.8	53.1	<0.002	0.02	0.21	8.8	1	0.6	661	0.2	<0.05
H754853	TL09-003	24.7	25.5	1.51	451	0.2	3.18	2.7	53.7	520	7.3	56.3	<0.002	0.02	0.14	7.9	1	0.6	654	0.24	0.05
H754854	TL09-003	20.9	23.8	1.39	415	0.28	3.34	3.3	53.8	520	8.2	52.3	<0.002	0.04	0.17	7.8	1	0.5	699	0.39	0.08
H754855	TL09-003	22.4	16.5	1.26	365	0.32	3.33	2	49.3	510	7.2	42.7	0.002	0.21	0.22	6.4	1	0.4	514	0.14	0.09
H754856	TL09-003	18.1	23.7	1.43	433	2.54	3.16	3.9	51.4	530	8.9	49.4	<0.002	0.01	0.16	7.1	1	0.5	752	0.28	0.05
H754857	TL09-003	19.4	30.7	1.47	426	0.37	2.92	4.1	54.3	550	10.3	48.8	<0.002	0.02	0.23	7.5	1	0.6	709	0.24	0.15
H754858	TL09-003	19.9	25.8	1.52	463	0.32	3.27	4.1	57.4	580	9.6	49.7	<0.002	<0.01	0.15	9.1	1	0.6	752	0.29	0.07
H754859	TL09-003	25	30	1.43	429	0.16	2.99	4	53	530	8.8	49.2	<0.002	<0.01	0.22	6.9	1	0.5	746	0.27	0.1
H754860	TL09-003	23.9	29.4	1.49	441	0.19	3.13	4.3	57	550	10.2	54.7	<0.002	<0.01	0.21	8.4	1	0.6	781	0.29	0.13
H754861	TL09-003	21.6	26.5	1.43	497	0.38	3.35	3.7	49.4	590	9.1	51.3	<0.002	<0.01	0.21	7.8	1	0.6	741	0.23	0.05
H754862	TL09-003	21.9	27.2	1.14	412	0.45	3.35	4.4	36.8	550	9.6	46.2	<0.002	0.01	0.19	7.3	1	0.6	761	0.27	0.05
H754863	TL09-003	23.1	34.5	1.38	433	0.3	3.01	4.9	49	600	9.5	62.1	<0.002	0.01	0.2	7.7	1	0.6	658	0.31	0.05
H754864	TL09-003	26.7	26.7	1.35	424	33.2	3.15	4.2	48.5	560	10	56.2	0.016	<0.01	0.18	7.9	1	0.6	773	0.23	0.06
H754865	TL09-003	20.5	31.9	1.51	447	0.51	2.91	3.7	53.8	540	10.6	60.5	<0.002	0.01	0.19	8.4	1	0.6	717	0.23	<0.05
H754866	TL09-003	20.6	31.5	1.38	422	0.45	3.12	3.6	48.7	550	10.8	54.5	<0.002	<0.01	0.18	7.6	1	0.6	745	0.24	<0.05
H754867	TL09-003	25.1	28.8	1.36	434	0.33	3.14	3.3	47.6	560	10.8	54.1	<0.002	<0.01	0.14	8.4	1	0.6	785	0.19	0.05
H754868	TL09-003	23.7	31.4	1.34	422	1	3.09	3.1	46.4	550	10.3	53.4	<0.002	<0.01	0.14	8.3	1	0.6	758	0.2	<0.05
H754869	TL09-003	22.3	29	1.35	421	0.49	3.23	3.1	44.8	580	9.8	52.6	<0.002	0.01	0.14	8.6	1	0.6	763	0.2	0.27
H754870	TL09-003	21.6	31.4	1.42	444	0.3	3.19	3.2	50.8	580	9.8	55.4	<0.002	<0.01	0.14	8.4	1	0.6	731	0.2	0.09
H754872	TL09-003	19.9	29.3	1.32	413	0.34	3.15	3.1	43.6	560	9.8	51	<0.002	<0.01	0.14	7.6	1	0.5	807	0.19	0.14
H754873	TL09-003	22.4	34.8	1.32	412	5.93	3.03	3.1	45.4	570	9.3	56.4	0.002	<0.01	0.12	8	1	0.6	732	0.19	0.07
H754874	TL09-003	21.5	43.1	1.42	417	0.33	2.68	3	45.6	580	9.1	58.3	<0.002	<0.01	0.14	7.9	1	0.6	689	0.18	0.05
H754875	TL09-003	20.1	33.8	1.43	433	0.3	3.11	3.1	48.4	610	10.5	53.7	<0.002	<0.01	0.18	8.5	1	0.6	801	0.18	0.06
H754876	TL09-003	20.4	25.4	1.36	430	5.5	3.43	3.2	48.3	590	10.6	46.9	<0.002	0.02	0.18	8.3	1	0.6	808	0.2	0.06
H754877	TL09-003	22	32	1.63	477	0.36	3.19	3.2	61.3	620	11.9	58.9	<0.002	0.01	0.16	9.3	1	0.6	930	0.18	0.07
H754878	TL09-003	23.5	33.3	1.76	576	3.97	3.33	4.1	42.2	780	9.4	61.1	0.002	0.09	0.24	11.8	1	0.7	736	0.26	0.17
H754879	TL09-003	25.9	19.5	2.74	1820	2.04	2.11	4.9	75.2	690	8.3	46.7	<0.002	0.04	0.38	13.7	1	0.8	728	0.32	0.11
H754880	TL09-003	19.6	8.8	1.35	3430	6.47	0.46	7.2	21.9	740	4.4	16.4	0.002	0.28	0.75	15.5	2	1.4	244	0.54	0.49
H754881	TL09-003	15.9	15.6	1.3	2490	11.3	0.76	4.5	33.7	650	5.2	52.6	0.01	1.07	0.46	11.2	3	1.2	263	0.37	0.24
H754882	TL09-003	24.1	18.1	1.24	1060	0.56	3.12	5	41.4	550	7.5	44.7	<0.002	0.02	0.2	8.1	1	0.6	609	0.34	0.08
H754883	TL09-003	28	19.6	3.75	1520	26.5	1.99	5	160.5	580	9	49.4	0.011	0.24	0.35	15.8	1	0.7	615	0.33	0.2
H754884	TL09-003	29.9	23	4.24	810	6.48	2.58	4.8	188.5	720	11.5	67.7	0.003	0.02	0.32	17.4	1	0.6	792	0.29	0.06
H754885	TL09-003	32.7	25.5	4.4	807	4.27	2.56	5.4	205	700	13.3	67.8	<0.002	0.02	0.42	18.6	1	0.7	825	0.32	0.13
H754886	TL09-003	30.5	25.6	4.08	766	0.98	2.65	4.8	191	670	11.3	55.9	<0.002	0.01	0.36	17.6	1	0.7	803	0.29	0.1
H754887	TL09-003	22.6	21.9	1.32	415	4.1	3.76	3	48.2	580	10.9	45.6	0.002	0.01	0.23	8	1	0.6	761	0.18	<0.05
H754888	TL09-003	22.5	20.5	1.41	380	1.99	2.98	2.9	51.6	530	10.7	45	<0.002	0.03	0.28	8.1	1	0.6	710	0.18	0.27
H754889	TL09-003	23.7	24.3	1.5	444	0.3	3.5	4.4	59.4	540	12.3	46.9	<0.002	0.01	0.37	8.9	1	0.6	784	0.32	0.13
H754890	TL09-003	30	23.4	3.97	766	1.23	2.61	4.9	186	630	9.2	47.1	<0.002	0.01	0.34	16.7	1	0.6	753	0.29	0.07
H754891	TL09-003	30.3	25.7	4.25	777	0.62	2.78	4.8	196.5	690	9.3	56.4	<0.002	0.02	0.32	17.4	1	0.6	789	0.3	0.09

sample	hole	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm	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
H754892	TL09-003	29.8	26.7	4.33	768	0.6	2.55	4.9	200	680	8.8	37.9	<0.002	0.01	0.41	17	1	0.7	680	0.29	0.09
H754893	TL09-003	28.1	20.2	4.07	785	1.4	2.78	4.4	187.5	660	9.2	40.1	<0.002	0.01	0.36	17.2	1	0.6	738	0.27	0.1
H754894	TL09-003	53.3	37.3	2.36	888	0.14	2.87	6	39.8	2340	12.8	89.1	<0.002	0.21	0.26	22.3	2	1.1	1210	0.32	0.1
H754895	TL09-003	29.4	24.1	4.16	813	8.06	2.9	4.6	192.5	650	9.1	57.9	<0.002	0.01	0.36	17.1	1	0.6	774	0.29	0.1
H754897	TL09-003	27.4	25	3.86	769	1.39	2.84	3.8	168.5	640	8.4	50.2	<0.002	0.01	0.31	17.6	1	0.6	739	0.25	0.09
H754898	TL09-003	22.7	26.2	3.8	780	0.37	2.8	3.1	164	680	7.3	41.9	<0.002	0.01	0.27	17.7	1	0.6	682	0.18	<0.05
H754899	TL09-003	23.2	31	3.97	791	0.58	2.42	3.2	172	640	7.1	46.1	<0.002	0.02	0.31	18.4	1	0.6	574	0.18	0.09
H754900	TL09-003	26.4	22	4.22	923	0.86	2.59	3.4	179.5	680	8.9	50.6	<0.002	0.01	0.34	21.3	1	0.7	707	0.2	0.07
H754901	TL09-003	24.6	20.1	4.27	948	0.8	2.61	3.2	177	660	8.6	50.4	<0.002	0.01	0.32	20	1	0.7	670	0.19	0.08
H754902	TL09-003	24.9	20.9	4.36	937	0.81	2.41	3.2	181.5	680	9.5	47.9	<0.002	0.01	0.28	21	1	0.7	713	0.2	0.09
H754903	TL09-003	25.3	17.1	2.91	693	0.72	3.23	4.4	130	590	9.6	36.2	<0.002	0.01	0.27	15.1	1	0.7	713	0.25	0.05
H754904	TL09-003	24.1	22.1	4.07	919	0.82	2.78	4.6	181.5	690	10	38	<0.002	0.01	0.24	20	1	0.7	728	0.26	0.06
H754905	TL09-003	24.1	20.5	4.34	941	0.83	2.44	3.8	190.5	660	9.3	49.7	<0.002	0.01	0.23	21.8	1	0.6	688	0.22	0.07
H754906	TL09-003	24.3	19.7	4.2	918	0.71	2.32	3.8	187.5	650	9.2	48.7	<0.002	0.01	0.22	21.1	1	0.7	660	0.22	0.1
H754907	TL09-003	25.4	21.1	4.46	961	6.07	2.38	4.1	203	680	9.4	50.8	<0.002	0.01	0.21	22.5	1	0.7	687	0.22	0.07
H754908	TL09-003	23.8	20.2	4.26	917	1.01	2.4	3.9	188	660	9.2	49.1	<0.002	0.01	0.21	21.3	1	0.7	686	0.21	0.07
H754909	TL09-003	25	21.2	4.67	1000	1.54	2.67	4	201	720	9.9	51.7	<0.002	0.01	0.23	22.5	1	0.7	765	0.22	0.1
H754910	TL09-003	25.7	23.6	4.45	966	0.9	2.56	4.1	190.5	720	9	50.1	<0.002	0.01	0.23	22.3	1	0.7	709	0.23	<0.05
H754911	TL09-003	22.6	18.2	3.76	860	1.07	2.49	3.6	166	620	7.6	39.2	<0.002	<0.01	0.2	18.8	1	0.6	594	0.2	<0.05
H754912	TL09-003	23.4	19.2	4.32	919	0.73	2.45	3.7	197.5	650	9	42.5	<0.002	0.01	0.24	20.9	1	0.7	654	0.21	0.6
H754913	TL09-003	23.5	20.3	4.51	925	1.08	2.38	3.9	204	650	9.4	50.6	<0.002	0.02	0.23	21.9	1	0.7	680	0.22	0.06
H754914	TL09-003	21.9	18.9	4.52	996	0.66	2.16	3.6	203	640	8.6	48.3	<0.002	0.02	0.24	21	1	0.6	647	0.21	0.08
H754915	TL09-003	21.8	24.2	4.53	946	1.14	2.06	3.7	204	630	8.3	38.1	<0.002	0.13	0.21	21	1	0.6	601	0.2	0.16
H754916	TL09-003	24.7	24.2	5.12	1020	0.84	2.26	4.1	231	750	10.2	56.1	<0.002	0.23	0.25	23.1	1	0.8	682	0.22	0.19
H754917	TL09-003	26.6	21.3	4.66	1020	0.78	2.63	4.5	205	760	9.6	51.2	<0.002	0.03	0.25	21.8	1	0.7	742	0.25	0.07
H754918	TL09-003	25.9	24.9	4.67	972	0.9	2.31	4.5	198.5	760	10.5	58.2	<0.002	0.01	0.33	21.7	1	0.7	761	0.24	0.06
H754919	TL09-003	25.5	26.8	4.45	904	0.84	2.11	4.5	197.5	730	11.2	64.1	<0.002	0.01	0.33	21.4	1	0.8	787	0.24	0.06
H754920	TL09-003	26	20.4	3.86	795	0.89	2.88	4.6	162.5	830	10.7	38.8	<0.002	0.01	0.2	17	1	0.6	889	0.25	<0.05
H754922	TL09-003	29.1	25.4	3.7	778	0.88	2.92	4.9	157.5	830	11.6	48	<0.002	0.02	0.18	17.5	1	0.6	843	0.27	0.09
H754923	TL09-003	29	24.8	3.74	782	1.05	2.79	4.9	160	820	14	46.9	<0.002	0.02	0.19	17.5	1	0.7	921	0.28	0.06
H754924	TL09-003	31.2	44.2	3.84	907	0.34	2.64	4.6	65.5	1550	13.3	86.7	<0.002	0.04	0.12	24.5	1	0.9	787	0.3	0.06
H754925	TL09-003	20.2	21.6	2.91	885	4.03	2.57	4.6	104.5	640	10.5	43.9	0.002	0.04	0.31	19.5	1	0.8	733	0.26	0.07
H754926	TL09-003	22	22.3	3.38	736	1.32	2.69	3.6	162.5	580	7.8	45.6	<0.002	0.01	0.31	18.2	1	0.7	651	0.23	0.06
H754927	TL09-003	17.6	20.3	3.26	743	1.14	2.69	3.2	150.5	530	6.9	39.9	<0.002	<0.01	0.34	18.2	1	0.7	628	0.21	0.08
H754928	TL09-003	19.9	18.6	3.29	878	3.42	2.47	3.7	130.5	580	7.3	40.7	<0.002	0.02	0.26	19.7	1	0.7	589	0.23	<0.05
H754929	TL09-003	14.9	21.4	3.29	1040	3.63	2.2	3.4	109.5	490	10	35.7	<0.002	0.03	0.29	20.8	1	0.8	671	0.21	0.19
H754930	TL09-003	31.7	29.2	3.17	685	0.84	3.02	5.6	130	940	12.3	63.2	<0.002	0.01	0.12	15.1	1	0.7	881	0.32	0.35
H754931	TL09-003	32.4	31.2	3.42	710	1.73	3.28	6	144.5	990	15.4	62.9	<0.002	0.02	0.18	15.4	1	0.7	995	0.34	0.05
H754932	TL09-003	29	31.2	3.33	703	0.97	3.24	5.6	137.5	960	13.2	52.8	<0.002	0.01	0.22	15.7	1	0.7	897	0.31	0.06
H754933	TL09-003	11.3	18.8	3.46	1410	1.32	2.03	4	80	500	6.7	35.5	0.002	0.14	0.28	37.3	1	0.7	546	0.24	0.08
H754934	TL09-003	10.5	13.4	3.19	1540	2.06	2.05	5.7	40.9	720	4	26.3	0.004	0.5	0.2	44.3	2	0.8	185	0.38	0.06
H754935	TL09-003	5.7	9.7	3.31	1590	0.49	1.6	4.6	51.4	520	2.3	7.8	0.003	0.17	0.21	50.3	2	0.6	111.5	0.28	0.06
H754936	TL09-003	5.4	11.3	3.56	1520	0.89	1.54	3.9	64.4	430	3.1	11.2	0.003	0.2	0.23	52.2	2	0.7	129	0.25	0.09
H754937	TL09-003	6.6	10.5	2.9	1720	1.94	1.66	5.3	40.1	630	2.1	12	0.005	0.28	0.16	52.9	3	0.6	122	0.34	0.11
H754938	TL09-003	24.2	14.9	2.89	921	0.82	3.04	4.1	87.1	680	2.9	28	<0.002	0.02	0.17	19.8	1	0.8	545	0.25	<0.05
H754939	TL09-003	6.7	8.1	2.64	1710	0.87	1.79	5	34.9	430	2.5	13.4	0.003	0.13	0.17	51.1	2	0.6	173.5	0.32	0.07
H754940	TL09-003	5.4	8.3	2.83	1790	1.65	1.63	5.8	31.7	600	2.5	4.9	0.004	0.18	0.16	50.5	3	0.4	110	0.38	0.09

sample	hole	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm	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
H754941	TL09-003	8.3	8.2	2.79	2000	0.48	1.38	6.9	23.6	630	2.2	5	0.004	0.24	0.18	51.4	3	0.7	82.5	0.48	0.06
H754942	TL09-003	6.9	5	2.35	1660	1.14	1.55	6.2	25.3	870	2.3	1.6	0.003	0.62	0.21	47.6	3	0.8	101	0.45	0.12
H754943	TL09-003	8.1	8.2	3.31	1600	0.53	1.54	4.9	42.6	690	1.9	10.1	0.002	0.15	0.15	52	2	0.7	81.4	0.34	0.07
H754944	TL09-003	4.3	9.2	3.83	1440	0.66	1.59	3	47.3	330	1.5	2.8	0.004	0.1	0.15	54.4	2	0.6	85.6	0.22	<0.05
H754945	TL09-003	3.9	9.3	4.12	1620	0.6	1.76	2.6	54.9	320	1.6	4.7	0.002	0.13	0.15	54.5	2	0.7	88.2	0.18	0.4
H754947	TL09-003	4.5	9.7	3.93	1600	0.91	2.04	2.9	54.2	340	1.9	6.9	0.002	0.09	0.16	54	2	0.6	97.1	0.2	<0.05
H754948	TL09-003	4.3	10.5	4.01	1580	0.6	1.98	3	55.5	330	1.9	10.8	0.002	0.06	0.15	50.9	2	0.5	95.1	0.21	<0.05
H754949	TL09-003	4	12.9	4.37	1550	0.59	2.13	2.4	77.3	300	2	14.8	<0.002	0.07	0.33	50.9	2	0.5	114.5	0.17	0.05
H754950	TL09-003	7	12.5	3.59	1390	0.92	2.14	2.8	73.7	240	3.1	17.5	0.003	0.13	0.22	42.9	2	0.4	113	0.22	0.07
H754951	TL09-003	4	11.4	4.08	1490	0.51	2.08	2.5	72.5	270	2.4	15.1	0.002	0.14	0.2	49.2	2	0.4	131.5	0.18	0.11
H754952	TL09-003	16.9	16.5	4.62	1250	0.87	2.58	4.4	137.5	590	2.9	15.3	0.002	0.16	0.22	36.2	1	0.5	340	0.23	0.09
H754953	TL09-003	15.4	11.3	4.73	1220	0.49	2.33	3.8	124	620	2.8	12.8	<0.002	0.2	0.21	39.6	2	0.5	324	0.21	0.08
H754954	TL09-003	4.4	12.3	4.15	1460	0.56	2.2	2.8	70.9	260	2.4	12.5	0.002	0.06	0.29	50.7	2	0.4	207	0.19	0.06
H754955	TL09-003	3.7	12.6	4.26	1460	1.38	2.12	2.3	85.8	260	1.9	11.9	0.002	0.09	0.23	48.9	2	0.4	122.5	0.16	<0.05
H754956	TL09-003	3.8	13.2	4.1	1430	0.62	2.29	2.7	77	290	2	13.2	<0.002	0.1	0.25	48.8	2	0.5	129.5	0.19	0.06
H754957	TL09-003	11	13.3	4.22	1300	1	2.34	3.2	123.5	430	2.5	10.8	0.002	0.1	0.45	38.5	1	0.4	258	0.2	0.05
H754958	TL09-003	23.4	30.3	4.34	1000	0.84	2.14	4.4	190.5	790	2.9	21.4	0.002	0.07	0.3	24	1	0.5	381	0.23	0.08
H754959	TL09-003	16.3	21.3	4.46	1210	0.74	2.6	4	157	630	2.8	16.6	0.003	0.07	0.24	33.3	1	0.4	363	0.22	0.1
H754960	TL09-003	8.4	17.3	4.45	1380	5.25	2.07	3.3	92.5	400	2.4	17	0.003	0.08	0.24	47	1	0.5	273	0.22	<0.05
H754961	TL09-003	4.6	11	4.27	1650	1.36	2.3	3.2	70.4	340	2.7	16.7	0.002	0.16	0.3	56.5	2	0.5	156	0.21	0.49
H754962	TL09-003	4.1	13.8	4.09	1320	1.69	2.43	2.2	85.1	240	2.3	16.1	0.003	0.09	0.24	43.7	2	0.4	137.5	0.16	<0.05
H754963	TL09-003	3.4	12.2	4.24	1480	0.6	2.38	2.3	87.3	280	1.7	12.4	0.002	0.12	0.3	47.2	2	0.6	112.5	0.17	0.05
H754964	TL09-003	4.4	10.1	4	1420	0.58	2.14	2.5	79.8	280	1.9	10	0.002	0.09	0.31	47.3	2	0.7	109	0.17	<0.05
H754965	TL09-003	2.8	17.7	4.58	1480	0.21	2.28	2.4	84.9	230	1.5	11.7	0.002	0.07	0.19	48	2	0.4	90.8	0.17	<0.05
H754966	TL09-003	3.3	8.8	4.04	1410	0.28	2.21	2.4	81.6	270	1.7	7.5	0.002	0.11	0.18	48.4	2	0.4	95.3	0.17	0.11
H754967	TL09-003	4.2	7.6	3.74	1380	0.38	2.23	2.8	73.9	360	2.1	9.1	0.002	0.13	0.23	47.3	2	0.5	109	0.18	<0.05
H754968	TL09-003	3.7	9.5	3.76	1360	0.48	2.43	2.9	85.2	360	1.7	12.8	0.002	0.15	0.25	45.2	2	0.6	133	0.22	0.06
H754969	TL09-003	3.6	19.5	4.2	1420	0.39	2.47	2.6	91.7	280	2	17.6	0.002	0.12	0.24	48.3	2	0.4	157	0.18	0.09
H754970	TL09-003	18	16.8	3.26	1050	0.53	2.88	3.5	88.9	590	2.6	17.5	<0.002	0.07	0.22	24.7	1	0.6	276	0.24	<0.05
H754972	TL09-003	6.6	9.7	3.82	1380	0.82	2.15	3.1	96.7	470	2.4	8.4	0.002	0.12	0.31	46.1	2	0.6	161.5	0.22	0.08
H754973	TL09-003	4	23.2	3.97	1460	0.37	2.55	2.2	104	250	2.2	16.3	0.002	0.14	0.3	42.6	2	0.4	122.5	0.15	0.09
H754974	TL09-003	3.1	13.5	4.36	1250	0.46	2.34	2.3	107	230	1.9	12.6	<0.002	0.18	0.24	44.8	1	0.5	102	0.16	0.19
H754975	TL09-003	3.1	11	4.71	1360	0.67	2.06	2.1	121.5	230	1.6	8.9	0.002	0.16	0.24	48.1	2	0.6	87.2	0.15	0.07
H754976	TL09-003	3.3	12.2	4.52	1300	0.82	2.21	2.1	122	230	1.9	7.6	0.003	0.14	0.41	45.4	2	0.7	106.5	0.14	0.06
H754977	TL09-003	2.9	13.9	4.97	1360	0.68	2.01	2	150.5	230	1.8	6.7	0.002	0.12	0.3	46.2	1	0.5	102.5	0.14	0.09
H754978	TL09-003	2.9	10.4	4.63	1260	0.54	1.93	1.9	136	240	2.5	8	<0.002	0.09	0.24	40.4	1	0.4	109	0.14	<0.05
H754979	TL09-003	2.6	10.3	4.88	1280	0.52	1.48	1.7	159.5	190	1.7	3.3	<0.002	0.09	0.2	36.1	1	0.4	102	0.13	<0.05
H754980	TL09-003	2.8	12	5.54	1300	1.14	1.34	1.8	188	160	1.5	3.9	<0.002	0.09	0.17	38.3	2	0.4	97.9	0.13	0.09
H754981	TL09-004	26.4	21.8	0.61	202	0.48	3.52	7.1	18.9	290	6	27.3	<0.002	0.07	0.09	3.9	2	0.5	329	0.49	0.1
H754982	TL09-004	3.4	37	4.17	1020	1.11	1.47	2.8	202	140	5.5	25.2	<0.002	0.02	0.24	20.9	1	0.5	314	0.21	0.06
H754983	TL09-004	22.1	33.3	4.37	940	0.76	2.25	5.1	201	620	4.6	48.8	<0.002	0.02	0.14	19	1	0.6	483	0.31	0.07
H754984	TL09-004	38.4	41	2.32	991	0.12	2.72	5.5	28.9	2570	5.1	85.8	<0.002	0.17	0.07	20	2	1.2	744	0.29	0.12
H754985	TL09-004	4.4	39.3	4.24	1040	0.42	0.82	2.2	210	210	19.4	35.8	<0.002	0.07	0.19	20.3	2	0.4	265	0.16	0.07
H754986	TL09-004	2.3	39.7	4.05	933	0.31	1.02	1.8	190.5	170	3.4	20.9	<0.002	0.05	0.12	19.6	2	0.3	215	0.13	0.07
H754987	TL09-004	2.3	48	3.97	925	0.21	1.18	1.6	171	170	3.8	31.5	<0.002	0.02	0.11	19.5	1	0.3	224	0.12	<0.05
H754988	TL09-004	24.5	20.2	0.97	335	0.48	3.35	6.2	34.6	380	7.7	28.6	<0.002	0.02	0.29	5.3	1	0.5	491	0.41	<0.05
H754989	TL09-004	2.1	38.1	4.22	966	0.34	1.31	1.8	192	130	2.5	8.9	<0.002	0.06	0.15	23.5	1	0.3	184	0.14	<0.05

sample	hole	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm	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
H754990	TL09-004	1.7	26.5	4.55	1000	0.36	1.41	1.5	212	140	2.2	7.5	0.002	0.11	0.14	23.9	2	0.2	150	0.11	0.11
H754991	TL09-004	6.4	23.8	2.99	707	0.32	2.35	3.9	137	170	3.3	5.5	<0.002	0.05	0.18	14.3	1	0.3	191	0.35	0.11
H754992	TL09-004	1.7	25.6	4.27	1000	0.23	1.5	1.6	194	160	2.2	3.6	<0.002	0.05	0.1	24	2	0.2	181.5	0.12	0.07
H754993	TL09-004	1.6	27.6	4.13	973	0.2	1.53	1.7	183.5	160	1.3	2.9	<0.002	0.05	0.09	22.7	2	0.3	158	0.12	0.14
H754994	TL09-004	1.4	24.1	3.91	974	0.18	1.64	1.8	177.5	180	1.4	4.2	<0.002	0.12	0.09	21.8	2	0.3	180.5	0.13	<0.05
H754995	TL09-004	2.4	23.2	3.96	942	0.18	1.37	1.9	169.5	140	1.6	4	<0.002	0.11	0.14	23.3	2	0.3	141	0.15	<0.05
H754997	TL09-004	2.5	55.9	4.33	827	0.12	1.54	2.6	169.5	110	1.8	13	<0.002	0.02	0.11	19.8	1	0.5	167.5	0.21	0.06
H754998	TL09-004	3.7	12.1	0.72	226	0.72	1.03	0.9	36.2	80	1.6	8.3	<0.002	0.41	0.07	4	2	0.2	66.3	0.05	0.21
H754999	TL09-004	13.1	25.4	2.82	516	0.44	3.19	2.7	96.8	460	2.4	13.2	<0.002	0.37	0.1	13.9	2	0.4	248	0.15	0.15
H755000	TL09-004	19.7	23.3	2.85	1030	0.54	3.46	4	46.3	810	4.3	11.5	<0.002	0.06	0.14	19.6	2	0.5	424	0.24	0.08
H755001	TL09-004	18.1	18.9	3.53	1100	0.7	2.63	3.6	79.9	870	4	3.2	<0.002	0.03	0.22	23.1	2	0.5	532	0.19	0.05
H755002	TL09-004	17.5	16	2.6	1080	0.57	2.95	3.2	36.9	620	4.3	4.6	<0.002	0.06	0.2	18.4	1	0.4	602	0.17	0.06
H755003	TL09-004	16.7	23.8	3.46	1150	0.55	2.7	3.9	68.5	860	4.2	5.5	<0.002	0.04	0.18	21.3	2	0.5	557	0.24	0.05
H755004	TL09-004	19.6	19.3	3.4	959	0.86	2.67	3.6	74.6	790	3.6	5	<0.002	0.09	0.23	21.1	2	0.5	517	0.2	0.06
H755005	TL09-004	23.7	18.8	3.01	1060	0.54	2.66	4.4	52.5	870	4.8	6.2	<0.002	0.02	0.33	20.7	2	0.5	622	0.26	0.05
H755006	TL09-004	17.8	20.5	2.79	990	0.47	2.56	3.8	42	680	4.6	7	<0.002	0.02	0.16	18.8	2	0.5	618	0.22	<0.05
H755007	TL09-004	28.9	22.5	4.19	972	1.03	2.59	4.7	108	1010	4.7	23.2	<0.002	0.02	0.17	20.1	1	0.5	813	0.25	0.05
H755008	TL09-004	48.4	26.5	4.73	827	1	3.17	8.5	189	1040	4.1	35.1	<0.002	0.01	0.12	16.6	1	0.6	1005	0.38	<0.05
H755009	TL09-004	25.6	25.4	2.48	1000	0.54	2.49	3.1	35.3	700	5	21.7	<0.002	0.02	0.23	22.3	2	0.6	672	0.22	0.13
H755010	TL09-004	21.5	22.2	2.72	1040	2.03	3.02	2.7	55.2	640	4.2	25.4	<0.002	0.3	0.17	22.4	2	0.5	409	0.18	0.24
H755011	TL09-004	27.3	16.7	2.47	1140	0.54	3.43	3.6	35	730	5	4.1	<0.002	0.03	0.26	23.8	2	0.6	494	0.24	0.09
H755012	TL09-004	25.4	15.8	2.53	1170	0.51	3.5	3.3	32.5	740	4.6	6.9	<0.002	0.05	0.2	21.3	2	0.6	459	0.22	0.09
H755013	TL09-004	24.3	18.8	2.65	1200	0.48	3.42	3.2	35.9	720	4.8	5.3	<0.002	0.03	0.18	22.9	2	0.5	507	0.2	0.07
H755014	TL09-004	26.2	21.8	2.74	1120	0.52	3.14	3.1	38.7	710	4.9	4.8	<0.002	0.11	0.19	26.3	2	0.5	506	0.2	0.09
H755015	TL09-004	26.2	21.5	2.48	1160	0.54	2.8	4.4	33.9	740	4.4	3.2	<0.002	0.03	0.2	22.7	2	0.6	523	0.34	0.08
H755016	TL09-004	24.4	24.9	2.56	1140	0.55	2.41	3.6	34.4	740	4.2	6.5	<0.002	0.08	0.31	22.8	2	0.6	536	0.24	0.12
H755017	TL09-004	26	21.2	2.37	1100	0.58	2.34	3.6	35.3	730	4.2	8.9	<0.002	0.1	0.34	24.1	2	0.6	458	0.24	0.11
H755018	TL09-004	4.7	37	2.93	1110	0.37	2.18	1.7	129.5	190	4.8	27.4	<0.002	0.1	0.33	30.2	2	0.6	400	0.15	0.11
H755019	TL09-004	26.7	27.2	2.6	1220	0.98	2.38	3.7	38.1	790	7	32	<0.002	0.51	0.27	22.5	2	0.7	562	0.25	0.2
H755020	TL09-004	28.8	26.7	1.2	497	0.31	3.52	5.2	32.7	660	5.8	44.5	<0.002	0.03	0.14	7.6	2	0.5	709	0.37	0.07
H755022	TL09-004	3.6	31.8	2.6	895	0.6	1.28	3.3	100	380	3.1	13.2	<0.002	0.12	0.5	26.5	2	0.5	214	0.28	0.07
H755023	TL09-004	2.8	31	2.78	890	0.14	1.31	2.6	111	150	2.4	12.6	<0.002	0.11	0.54	25.6	2	0.4	160	0.24	0.05
H755024	TL09-004	2.3	33	2.9	928	0.12	1.45	2.1	111.5	130	2	5.9	<0.002	0.04	0.44	25.2	2	0.4	149	0.16	0.06
H755025	TL09-004	2.4	24.1	3.29	1030	0.18	1.36	1.6	145.5	210	2.2	1.7	<0.002	0.08	0.33	32.8	2	0.6	127.5	0.14	0.07
H755026	TL09-004	3.8	21.6	2.4	905	0.2	1.79	2.7	166	380	3.1	7.5	<0.002	0.08	0.31	31.3	2	0.5	145	0.19	0.08
H755027	TL09-004	7.9	23.5	2.63	850	0.34	1.84	1.9	104.5	280	3.2	28.3	<0.002	0.17	0.25	21.4	2	0.6	190	0.16	0.1
H755028	TL09-004	3	23.2	3.1	983	0.21	1.43	1.7	140.5	180	2.6	7.1	<0.002	0.06	0.38	29.8	2	1	145.5	0.13	0.05
H755029	TL09-004	3.3	19	3.51	1090	0.55	1.41	1.9	134.5	200	2.2	3.2	<0.002	0.09	0.28	34.3	2	0.9	116.5	0.16	0.11
H755030	TL09-004	3.2	18.6	3.79	1140	0.5	1.24	2	139.5	250	1.8	1.9	<0.002	0.06	0.38	33.2	2	0.9	106.5	0.16	0.09
H755031	TL09-004	3.6	19.9	4.11	1240	0.42	1.48	2.4	155	300	1.9	1.4	<0.002	0.06	0.36	38.4	2	0.9	118	0.21	0.11
H755032	TL09-004	3.3	18.3	4.15	1400	0.28	1.47	2.2	148	270	3	0.9	0.002	0.09	0.42	39.4	2	0.8	125.5	0.19	0.08
H755033	TL09-004	3.2	21.1	4.08	1310	0.25	1.49	2.2	134.5	300	2.4	4.8	<0.002	0.18	0.36	40.9	2	0.6	138.5	0.18	0.08
H755034	TL09-004	3.3	19.4	4.13	1440	0.22	1.24	2.3	121.5	300	8.1	1.7	0.002	0.11	0.31	40.1	2	0.7	117	0.2	0.11
H755035	TL09-004	3.2	17.5	4.18	1700	0.24	1.36	2.5	116	330	2.4	1.6	0.002	0.03	0.4	42.5	2	0.7	119.5	0.2	0.08
H755036	TL09-004	19.5	37.8	2.9	1720	0.81	1.62	6.1	45.4	1040	11.7	48.3	<0.002	0.13	0.27	20.2	2	1.7	262	0.52	0.08
H755037	TL09-004	19.2	40.8	2.17	2140	1.14	1.42	6.5	25.1	980	15.1	41.4	<0.002	0.27	0.29	15.2	2	2.3	163.5	0.59	0.12
H755038	TL09-004	21.6	39.2	2.26	1450	1.05	1.3	6.9	25.5	1090	9.6	39.8	<0.002	0.35	0.38	15.6	2	3.7	184	0.63	0.26

sample	hole	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm	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
H755039	TL09-004	4	43.9	3.12	969	0.56	1.39	1.3	104	130	4.1	24.8	<0.002	0.02	0.75	26.2	2	0.5	311	0.11	0.19
H755040	TL09-004	27	35.5	1.65	501	2.18	3.18	4.9	56.3	760	3.7	27.6	<0.002	0.04	0.16	9.1	2	0.6	553	0.31	0.13
H755041	TL09-004	2.8	29.3	3.08	1010	0.42	1.38	1.6	144.5	150	2.1	10.1	<0.002	0.12	0.67	26.9	2	0.4	231	0.13	0.08
H755042	TL09-004	1.9	25.9	3.04	968	0.16	1.44	1.8	123	180	2.2	9.2	<0.002	0.11	0.73	28.9	2	0.4	207	0.15	0.08
H755043	TL09-004	2	29.6	2.91	1010	0.19	1.67	1.9	125	250	2.4	25.7	<0.002	0.24	0.43	25.4	2	0.3	209	0.16	0.11
H755044	TL09-004	2	23.8	2.92	922	0.22	1.45	1.8	132.5	200	2	7.3	<0.002	0.19	0.76	29.4	2	0.4	169.5	0.15	0.16
H755045	TL09-004	1.8	19.9	3	976	0.23	1.21	1.2	134	140	2.1	2.1	<0.002	0.26	0.77	32	2	0.3	164	0.1	0.13
H755047	TL09-004	3.9	28.3	3.43	1240	0.22	1.17	2.1	89.7	200	4.1	28.2	<0.002	0.32	0.54	26.2	2	0.4	162	0.21	0.17
H755048	TL09-004	35.2	24.1	0.87	457	0.96	3.84	7.1	18.3	640	7.3	28.7	<0.002	0.51	0.17	6.6	2	0.6	618	0.45	0.38
H755049	TL09-004	4	41.3	2.89	875	0.3	1.57	3.6	102	360	2.8	18.3	0.002	0.09	0.32	21.1	2	0.4	228	0.29	0.15
H755050	TL09-004	17.1	30.9	2.11	681	0.72	2.48	4.1	79.6	370	4.2	32.3	0.002	0.3	0.23	18	2	0.5	416	0.29	0.24
H755051	TL09-004	1.5	24.9	3.33	922	0.14	1.2	1.4	128	140	1.7	3.1	<0.002	0.14	0.43	29.8	2	0.3	163	0.1	0.16
H755052	TL09-004	1.5	23.8	3.11	964	0.24	1.19	1.3	121.5	150	1.7	1.6	<0.002	0.12	0.48	29.6	2	0.3	151	0.1	0.12
H755053	TL09-004	2.3	24.6	3.27	1070	0.18	1.28	1.8	144	150	1.7	1.5	<0.002	0.09	0.59	30.8	2	0.3	152.5	0.15	0.09
H755054	TL09-004	3.6	23.1	3.33	1030	0.38	1.38	2.5	155	210	1.8	2.3	<0.002	0.09	0.59	32.5	2	0.4	179	0.19	0.16
H755055	TL09-004	1.8	23.4	2.57	864	0.12	1.34	1.5	123.5	100	2.2	3	<0.002	0.09	0.72	31.9	2	0.4	172	0.11	0.1
H755056	TL09-004	1.5	35	4.32	1260	0.1	0.72	1.4	73.3	70	2.8	32.8	<0.002	0.05	0.61	27	2	0.5	163	0.12	0.13
H755057	TL09-004	3.6	14.9	8.22	1860	0.17	0.11	0.9	36.7	140	1	14.9	<0.002	0.14	0.08	11.1	2	0.2	76.8	0.07	0.19
H755058	TL09-004	23.4	45.3	1.97	548	0.82	2.72	5.2	57.1	630	5.4	48.7	<0.002	0.08	0.24	11.2	2	0.6	698	0.28	0.12
H755059	TL09-004	24.6	56.9	1.67	532	0.4	3.15	5.8	54.7	750	6.5	46	<0.002	0.05	0.22	9.9	2	0.7	895	0.33	0.11
H755060	TL09-004	1.9	32.1	2.74	891	0.26	1.35	1.4	106.5	90	4	9.7	<0.002	0.14	0.77	17.6	1	0.3	316	0.11	0.18
H755061	TL09-004	2.4	25.2	2.83	918	0.18	1.31	1.8	103	80	3	2.9	<0.002	0.05	1.25	19.6	1	0.4	195.5	0.15	<0.05
H755062	TL09-004	1.2	21.8	2.87	980	0.14	1.43	1.5	102	80	2.9	2.3	<0.002	0.08	1.3	21.8	2	0.3	217	0.12	<0.05
H755063	TL09-004	1.8	33.3	2.6	859	0.23	1.95	1.6	125	180	4	6.4	<0.002	0.37	0.64	19.9	2	0.4	375	0.11	0.24
H755064	TL09-004	55	37.6	2.82	763	0.22	2.46	3.3	64.1	1180	5.2	34.3	<0.002	1.85	0.48	16.6	2	0.9	856	0.22	0.28
H755065	TL09-004	46.7	43.2	4.64	1060	0.17	2.09	3.1	223	940	3.5	40.5	<0.002	0.72	0.45	18.5	2	0.8	619	0.2	0.2
H755066	TL09-004	7.5	57.4	2.77	852	1.49	2.18	2.8	114	310	5.2	24	<0.002	0.26	0.5	19	2	0.5	622	0.18	0.14
H755067	TL09-004	17.3	17.1	6.37	1700	0.38	0.31	0.6	38.3	110	1.3	7.9	<0.002	0.28	0.16	8.5	2	0.2	116	<0.05	0.16
H755068	TL09-004	3.3	29.6	2.83	1030	0.29	1.44	1.6	107.5	150	3.7	6.4	<0.002	0.12	0.74	21.8	2	0.4	247	0.12	<0.05
H755069	TL09-004	1.7	28.6	2.59	979	0.32	1.75	2.3	101	110	3.3	2.6	<0.002	0.11	0.65	18.2	2	0.4	231	0.19	0.08
H755070	TL09-004	2.5	30.4	2.99	999	0.58	1.41	1.8	136.5	190	3.6	5.9	0.002	0.44	0.63	21.9	2	0.4	219	0.13	0.99
H755072	TL09-004	2.5	34.4	3.37	1140	0.78	1.3	2	141.5	220	3.1	7.8	0.002	0.22	0.69	19.8	2	0.4	259	0.14	0.23
H755073	TL09-004	12.9	32.5	5.5	1280	0.73	1.56	3.2	139.5	1170	3	20.9	<0.002	0.02	0.96	31.4	2	0.8	472	0.21	0.05
H755074	TL09-004	4.5	32.8	3.35	1230	0.51	1.28	2.4	143.5	330	3.5	10.3	<0.002	0.13	0.82	25.2	2	0.6	288	0.17	0.13
H755075	TL09-004	14.7	50.6	5.09	1080	0.56	1.9	4.5	220	690	2.3	41.6	<0.002	0.07	0.37	23.1	2	0.7	312	0.28	0.1
H755076	TL09-004	2.4	27.6	3.32	1130	0.61	1.23	1.8	137.5	180	2.9	2.2	0.002	0.19	0.86	21.6	2	0.5	238	0.13	0.21
H755077	TL09-004	7	25.4	3.26	1140	0.5	1.44	2	119	220	3.2	4.3	<0.002	0.1	0.76	23.6	2	0.5	248	0.14	0.16
H755078	TL09-004	4.1	58.9	3.84	1370	0.87	1.36	1.9	82.9	220	2.9	53.2	0.003	1.28	0.26	24.4	2	0.6	220	0.14	2.39
H755079	TL09-004	4.9	46.2	2.74	1420	0.42	1.51	3.5	47.5	470	3.1	50.7	0.002	1.07	0.41	40.9	3	0.9	239	0.25	2.06
H755080	TL09-004	5.4	27.5	2.76	1300	0.37	1.68	3.8	52.7	470	3.3	6.9	0.002	0.33	0.89	42.7	3	0.9	215	0.26	0.45
H755081	TL09-004	9.1	44.3	4.23	1260	0.5	1.66	3.2	90.5	800	3.1	41.4	<0.002	0.46	0.45	34.8	2	0.7	356	0.21	0.63
H755082	TL09-004	23	40.7	4.42	1240	0.41	1.94	3.4	131.5	830	3.5	31.2	<0.002	0.14	0.43	30.5	2	0.7	386	0.22	0.36
H755083	TL09-004	5.6	43.7	2.98	1440	0.74	1.87	3.6	49.8	500	6	33.5	0.003	0.59	0.5	41.7	3	0.8	247	0.25	0.56
H755084	TL09-004	6.8	30.8	2.94	1480	0.41	1.48	3.9	45.6	500	5.6	3.7	0.002	0.31	1.1	42.5	3	0.9	165.5	0.26	0.25
H755085	TL09-004	19.6	51.4	1.15	431	0.46	3.64	4.7	22.4	730	4.7	27.5	<0.002	0.34	0.26	8.9	2	0.5	664	0.28	0.6
H755086	TL09-004	6.8	23.2	1.94	2480	0.69	0.89	3.7	47	470	4.1	12.8	0.003	0.55	1.48	41	3	0.9	256	0.25	0.62
H755087	TL09-004	27.3	48.6	1.1	542	0.79	3.24	4.6	22.4	740	6.7	33.9	<0.002	0.17	0.34	7.8	2	0.5	885	0.28	0.1

sample	hole	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm	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
H755088	TL09-004	8.1	21.4	3.09	5580	1.32	0.61	3.7	40.3	390	3.3	6.8	0.004	0.5	1.36	23.5	2	0.9	96.1	0.3	0.18
H755089	TL09-004	20.4	37.1	1.19	653	0.98	3.04	4.7	29.4	600	4.7	37.8	<0.002	0.02	1.08	9.7	2	0.5	700	0.27	0.05
H755090	TL09-004	4.4	21	3.29	1410	0.33	1.21	3.1	87.3	370	2.1	7.2	0.003	0.18	1.49	41.7	3	0.7	192.5	0.22	0.06
H755091	TL09-004	36.2	36.9	3.13	654	0.58	3.14	3.9	112	740	5.2	42.7	<0.002	0.03	0.36	12.4	1	0.6	823	0.25	0.09
H755092	TL09-004	10.1	21.7	2.56	1580	0.49	1.56	3	100.5	430	2.4	14.8	0.002	0.13	1.28	38.6	2	0.7	258	0.21	0.34
H755093	TL09-004	4.1	20.2	2.5	1710	0.3	1.49	2.9	78.4	370	1.8	11.6	<0.002	0.2	0.85	43.9	2	0.7	124	0.2	0.1
H755094	TL09-004	3.5	14.1	2.04	1860	0.39	1.27	2.5	83.7	320	1.4	4.4	0.002	0.13	0.95	38.9	2	0.6	127.5	0.18	0.08
H755095	TL09-004	3.6	12.1	1.86	2090	0.33	1.19	2.6	86.8	330	1.4	1.5	<0.002	0.07	1.04	41.1	2	0.7	140	0.18	0.09
H755097	TL09-004	3.6	13.8	2.39	2040	0.25	1.23	2.9	87.4	350	1.5	2	<0.002	0.11	1.03	48.4	2	0.7	166	0.2	0.13
H755098	TL09-004	3.5	31.6	2.66	2140	0.27	1.44	2.5	79	270	2	39.5	<0.002	0.61	0.7	42.7	2	0.7	392	0.17	0.62
H755099	TL09-004	4.1	22.4	2.38	2220	0.37	1.79	3.2	93.2	380	1.7	19.2	0.002	0.23	0.79	49.3	3	0.7	132	0.23	0.13
H755100	TL09-004	4.1	19	2.15	2320	0.27	1.97	3.4	90.6	350	1.6	8.6	<0.002	0.25	0.49	48.6	3	0.7	133.5	0.23	0.19
H755101	TL09-004	4.2	17.5	2.23	2440	0.29	1.84	3.3	94.5	370	1.6	3.8	<0.002	0.3	0.54	47.9	2	0.7	123	0.23	0.13
H755102	TL09-004	4.8	24.7	2.68	2720	0.25	1.59	3	91.9	330	1.6	34.3	<0.002	0.48	0.45	51.1	3	0.6	113	0.21	0.18
H755103	TL09-004	4	14.3	2.3	2350	0.33	1.81	3	85.5	330	1.5	11.9	<0.002	0.4	0.6	47	3	0.7	166.5	0.21	0.38
H755104	TL09-004	4	9.9	2.52	2530	0.33	0.97	3.2	82.6	340	1.2	1.6	<0.002	0.09	0.73	44.8	2	0.6	119	0.23	0.14
H755105	TL09-004	3.7	11.2	3.14	1500	0.34	1.7	3	81.7	350	1.2	1.9	<0.002	0.31	0.44	47	3	0.7	121.5	0.2	0.19
H755106	TL09-004	3.6	10.4	3.44	1430	0.3	1.48	2.8	81.3	320	1.2	1.8	<0.002	0.28	0.37	44.7	2	0.6	138.5	0.19	0.16
H755107	TL09-004	4.6	10.5	3.78	1300	0.31	1.34	3.9	81.7	370	1.2	1.8	<0.002	0.18	0.48	44.6	3	0.8	135	0.33	0.15
H755108	TL09-004	4	10.8	4.08	1240	0.25	1.47	3.1	91.2	330	1.2	1.9	<0.002	0.15	0.45	46.2	2	0.7	146.5	0.22	0.11
H755109	TL09-004	3.4	7.9	2.84	1850	0.35	1.84	2.7	88.1	310	1.4	1.9	<0.002	0.11	0.44	44.8	2	0.6	178	0.19	0.12
H755110	TL09-004	3.3	9.5	2.82	2600	0.13	1.32	2.4	70.5	250	1.3	1.8	<0.002	0.28	0.36	38.3	2	0.5	99.9	0.17	0.16
H755111	TL09-004	4	10.3	2.41	1980	0.36	1.46	3.2	87.2	350	1.3	2.9	<0.002	0.16	0.48	46.5	2	0.7	144	0.24	0.14
H755112	TL09-004	3.5	9.8	2.49	2080	0.21	1.79	2.7	66.5	350	1.4	2.7	<0.002	0.1	0.3	44.9	2	0.6	134.5	0.2	0.12
H755113	TL09-004	3.5	15.2	2.05	2100	0.19	1.69	2.8	78.9	310	2.4	8.9	<0.002	0.11	0.25	44.4	2	0.5	130.5	0.2	0.23
H755114	TL09-004	4.1	10	2.19	1920	0.29	1.35	3.3	90.8	360	1.2	12.2	<0.002	0.12	0.34	48.5	3	0.7	104	0.23	0.15
H755115	TL09-004	4	7.9	3.18	1870	0.31	1.42	3.1	71.6	330	1.1	14.1	<0.002	0.06	0.2	44.3	2	0.6	100.5	0.21	<0.05
H755116	TL09-004	4.1	6.6	2.09	1940	0.33	1.45	3.2	89.2	360	2.8	3.1	<0.002	0.1	0.26	46.6	2	0.7	115.5	0.23	0.15
H755117	TL09-004	3.8	7.9	1.9	2060	0.37	1.73	2.9	85.8	340	1.6	8.7	0.002	0.21	0.19	44	2	0.7	116.5	0.2	0.25
H755118	TL09-004	3.9	6.3	2.37	1670	0.29	1.27	3	83.4	340	0.9	4.4	<0.002	0.12	0.17	42.9	2	0.6	120.5	0.21	0.11
H755119	TL09-004	3.9	7	2.1	1820	0.32	1.11	3.1	88.7	350	1	2.3	<0.002	0.12	0.17	45.2	2	0.6	140.5	0.22	0.07
H755120	TL09-004	3.9	8.8	1.92	2110	0.3	1.48	3.1	95.8	350	1.1	1.4	0.002	0.15	0.21	49.4	2	0.7	119.5	0.2	0.14
H755122	TL09-004	2.5	19.9	1.47	1790	1.07	2.12	2.2	69.9	250	1.7	59.2	<0.002	0.72	0.08	34.2	2	0.5	139.5	0.14	0.59
H755123	TL09-004	3.3	10.5	2.01	2320	0.33	1.74	2.5	80.7	280	1.3	1.7	0.002	0.26	0.17	41.6	2	0.6	125	0.17	0.17
H755124	TL09-004	4	17	2.27	2070	0.3	1.87	3	100.5	350	3	12.4	0.002	0.39	0.27	50.8	2	0.7	170	0.19	0.38
H755125	TL09-004	3.3	39.6	1.89	1910	2.53	2.32	2.4	85.5	320	4.1	48.1	0.002	1.39	0.14	44.1	2	0.6	203	0.16	1.65
H755126	TL09-004	3.1	19	1.5	2350	0.44	1.51	2.4	72.5	250	3.1	20.6	0.002	0.51	0.19	37.2	2	0.5	143	0.15	0.76
H755127	TL09-004	3.3	13.7	1.65	2270	0.31	1.33	2.5	86.3	290	1.1	11	0.002	0.25	0.19	41.9	2	0.6	98.1	0.16	0.21
H755128	TL09-004	3.8	11.6	2.03	2090	0.38	1.47	3.1	94.7	330	1.4	1	0.002	0.21	0.19	46.6	2	0.7	143.5	0.2	0.08
H755129	TL09-004	29.9	24.8	3.63	868	0.76	3.14	6.5	160.5	950	8.4	36.8	<0.002	0.04	0.08	16.6	1	0.7	776	0.34	0.11
H755130	TL09-004	27.4	14.1	3.07	913	0.76	3.38	4.6	128.5	770	5.9	30.9	<0.002	0.66	0.07	14.6	1	0.6	456	0.25	0.8
H755131	TL09-004	3.8	8.2	2.21	2200	0.25	1.68	2.7	92.5	340	1.6	1.3	0.002	0.12	0.13	45.2	2	0.6	140.5	0.18	0.1
H755132	TL09-004	3.7	6.3	2.02	1870	0.33	1.84	2.8	90	310	0.8	1.2	0.002	0.1	0.11	44.5	2	0.6	137.5	0.19	0.2
H755133	TL09-004	3.7	5.9	2.26	2430	0.26	1.41	2.8	88.6	330	0.8	1.7	0.002	0.12	0.15	43.1	2	0.6	130.5	0.18	0.06
H755134	TL09-004	3.8	5.4	2.02	2130	0.3	1.82	2.9	93.8	340	0.8	1.3	0.002	0.14	0.13	46.3	2	0.6	140	0.19	<0.05
H755135	TL09-004	3.8	5.4	2.03	2080	0.38	1.52	2.8	94	340	0.6	1.2	0.002	0.07	0.12	46.4	2	0.7	163	0.18	0.06
H755136	TL09-004	3.5	5.8	1.91	2570	0.28	1.86	2.5	89.7	290	0.7	1.4	0.002	0.22	0.12	41.6	2	0.6	143	0.16	0.07

sample	hole	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm	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
H755137	TL09-004	3.6	6.2	1.87	1890	0.24	1.5	2.7	91.2	330	0.7	1.1	0.002	0.12	0.14	45.5	2	0.7	172.5	0.18	0.05
H755138	TL09-004	3.7	9.5	2.43	1860	0.29	1.37	2.8	94.8	350	1.4	1.2	0.002	0.08	0.19	47.2	2	0.7	181.5	0.18	0.08
H755139	TL09-004	3.6	10.3	3.4	1400	0.35	1.81	2.7	92.7	330	1.1	1.1	0.002	0.15	0.17	44.6	2	0.6	197.5	0.18	0.14
H755140	TL09-004	3	30.3	1.64	1610	15.7	3.12	2.2	86	260	2	118.5	0.002	1.91	0.08	37.1	3	0.5	203	0.14	4.66
H755141	TL09-004	3.5	14	2.2	2030	0.4	2.35	2.6	92.3	330	1.2	4.3	0.002	0.18	0.14	46.5	2	0.7	158	0.17	0.14
H755142	TL09-004	3.9	14.3	2.24	1840	0.42	1.65	2.9	93.1	340	1	1.6	0.002	0.15	0.26	47.7	2	0.7	202	0.19	0.14
H755143	TL09-004	3.1	15.1	1.76	2430	0.5	2.62	2.6	75.5	260	2.1	18.5	0.002	0.88	0.09	37.9	2	0.6	208	0.16	1.12
H755144	TL09-004	3.7	17.8	1.98	2010	0.68	2.1	2.8	91.9	340	2.2	21	0.003	0.51	0.17	46.9	2	0.7	199.5	0.18	0.46
H755145	TL09-005	15.7	37.3	4.87	1060	0.23	2.16	4.6	234	630	4.5	34.8	<0.002	0.07	0.14	26.1	1	0.7	557	0.27	0.08
H755147	TL09-005	5.3	21.4	2.15	1570	0.42	1.28	3.1	89.4	330	3.1	6.6	<0.002	0.17	0.32	49	2	0.7	184	0.22	0.09
H755148	TL09-005	9	25.7	2.43	1860	0.34	0.95	2.4	79.8	290	4	16.4	<0.002	0.31	0.25	43.6	2	0.6	136.5	0.17	0.13
H755149	TL09-005	6.4	21.7	2.08	2160	0.34	0.47	2.5	84.2	280	8.5	16.5	<0.002	0.76	0.59	40.1	3	0.8	197	0.18	0.27
H755150	TL09-005	8.8	44.3	2.4	1820	1.19	0.94	2.9	99.2	360	13.2	28.8	<0.002	1.44	0.71	43.3	4	1	222	0.2	0.4
H755151	TL09-005	6.7	36.8	2.83	1680	2.29	1.15	3	87.5	320	7.3	28.4	<0.002	1.08	0.29	38	3	0.9	152.5	0.22	0.25
H755152	TL09-005	12.5	22.2	1.95	1940	3.84	0.76	3.9	44.4	500	5.1	12.4	0.012	0.45	0.55	22.4	2	0.8	187.5	0.31	0.2
H755153	TL09-005	3.9	17.7	2.35	2160	1.15	1.27	2.3	70.7	310	9.2	17.5	<0.002	0.64	0.25	37.4	3	0.7	216	0.16	0.34
H755154	TL09-005	3.9	24.2	2.64	2100	2.75	1.4	2.2	68.1	290	4.6	34.3	<0.002	0.85	0.09	38.6	3	0.5	313	0.15	0.45
H755155	TL09-005	15.4	24.2	1.53	1860	42.1	2.02	4.6	32.1	590	5.9	45.1	<0.002	0.4	0.11	19.2	2	0.8	222	0.38	0.42
H755156	TL09-005	7.4	38.4	2.52	1920	15.85	1.45	2.7	92.3	340	5.2	46.6	<0.002	2.24	0.08	30.8	4	0.6	293	0.2	1.54
H755157	TL09-005	18.5	44.9	1.76	475	0.4	3.16	5.8	31.3	930	6.3	31.4	<0.002	0.35	0.11	11.9	2	0.8	511	0.34	0.27
H755158	TL09-005	18.9	49.6	1.61	435	0.11	3.02	5.9	28.4	880	9.8	32.1	<0.002	0.1	0.1	11.3	1	0.8	675	0.33	0.07
H755159	TL09-005	18.3	38	1.55	476	0.33	3.07	5.2	27.2	810	8	28.4	<0.002	0.35	0.08	11	1	0.7	541	0.3	0.32
H755160	TL09-005	14.1	50.2	2.98	837	0.33	2.57	2.9	88.4	590	5.2	43.9	<0.002	0.16	0.1	23	1	0.6	435	0.22	0.2
H755161	TL09-005	4.6	21.2	3.78	1640	2.61	0.95	2.7	86.3	320	4.5	10.4	<0.002	0.14	0.73	45.3	2	0.6	189	0.19	0.09
H755162	TL09-005	4.6	19.6	2.95	1500	0.48	0.94	3	93.7	310	3	4.2	<0.002	0.09	0.87	45.8	2	0.7	135	0.2	0.09
H755163	TL09-005	4.7	23.1	2.6	1720	0.33	1.15	3.3	109.5	280	2.2	4.7	0.002	0.09	1.02	49.4	2	0.7	127.5	0.23	0.14
H755164	TL09-005	4	23.5	5.04	2260	0.41	0.56	2.5	78.5	180	1.6	3.4	<0.002	0.21	0.5	34	2	0.5	87	0.17	0.06
H755165	TL09-005	4.7	4	8.94	2370	0.19	0.02	0.6	38.7	160	0.5	0.4	<0.002	0.15	0.11	6.7	2	<0.2	63.2	<0.05	0.06
H755166	TL09-005	5.1	20.2	3.92	2160	0.34	0.56	3	82.9	320	2.7	6.1	<0.002	0.2	0.91	50.1	2	0.7	197.5	0.21	0.13
H755167	TL09-005	4.6	12.2	3.5	2140	0.25	0.68	3	74.4	340	3.5	2.2	<0.002	0.02	0.91	49.4	2	0.7	196	0.2	0.05
H755168	TL09-005	22.9	21.8	4.98	1440	0.12	2.03	2.2	183.5	550	2.9	20.5	<0.002	0.07	0.19	28.4	1	0.5	543	0.15	<0.05
H755169	TL09-005	5.9	22.3	2.81	1630	0.86	1.49	2.3	92.5	300	3.2	58.5	<0.002	0.57	0.26	37.1	2	0.5	513	0.15	0.1
H755170	TL09-005	4.4	12.2	2.13	1780	0.32	1.78	2.8	92.2	340	2.8	1.4	<0.002	0.14	0.39	43.9	2	0.6	253	0.18	0.05
H755172	TL09-005	4.6	11	2.05	1900	0.49	1.42	2.9	94.4	350	2.3	0.8	<0.002	0.15	0.37	44.1	2	0.6	203	0.2	<0.05
H755173	TL09-005	4.6	11.9	2.28	1960	0.26	1.48	2.8	92.7	340	2.4	0.9	<0.002	0.13	0.39	44	2	0.6	189	0.2	0.14
H755174	TL09-005	4.6	12.7	3.09	1670	0.64	1.39	2.9	93.5	360	2.1	1.3	<0.002	0.21	0.44	44.4	2	0.6	163.5	0.2	0.11
H755175	TL09-005	4.2	13.1	3.33	1380	0.49	1.56	2.3	84.3	320	1.9	3.8	<0.002	0.3	0.36	42	2	0.5	186.5	0.18	0.13
H755176	TL09-005	4.6	20.6	2.78	1680	0.42	1.56	2.8	102.5	330	2.2	24.2	<0.002	0.46	0.26	45.4	3	0.5	156.5	0.19	0.14
H755177	TL09-005	5.3	12.8	2.26	2100	0.28	0.94	2.8	97.5	330	1.9	10.1	<0.002	0.21	0.39	45.7	2	0.7	122.5	0.19	<0.05
H755178	TL09-005	4.6	11.2	2.63	1720	0.4	0.91	3.1	96.8	350	1.3	2.8	<0.002	0.12	0.35	45.4	2	0.7	131.5	0.2	0.32
H755179	TL09-005	5	13	2.07	1800	0.41	1.24	3.1	93.1	350	1.8	7.1	<0.002	0.13	0.36	47.4	2	0.7	151.5	0.21	0.06
H755180	TL09-005	13	15	3.63	1500	0.27	1.72	2.3	155.5	470	2.6	30.9	<0.002	0.09	0.33	38.8	2	0.6	417	0.18	0.07
H755181	TL09-005	4.5	10.4	2.31	1710	0.61	1.37	2.7	94.3	350	1.9	5.3	0.002	0.14	0.48	49.2	2	0.7	221	0.23	0.09
H755182	TL09-005	3.6	9.3	2.25	1720	0.27	1.08	2.5	89	340	1.2	3.2	<0.002	0.12	0.61	47.3	2	0.6	151.5	0.22	0.11
H755183	TL09-005	4.2	13	2.94	2480	0.21	1.03	2.2	96.8	260	1.3	9.8	0.002	0.11	0.63	44.5	2	0.6	134.5	0.2	0.08
H755184	TL09-005	4.2	13.7	2.54	2340	0.31	1.06	2.6	94.7	320	1.4	6.9	0.002	0.09	0.95	52.3	2	0.7	131	0.23	0.09
H755185	TL09-005	3.3	18.8	2.53	1660	0.28	1.33	2.6	96	330	1.4	3.4	<0.002	0.24	0.57	48.9	2	0.7	117	0.22	0.1

sample	hole	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm	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
H755186	TL09-005	3.4	14.9	5.61	1630	0.25	0.61	1.8	87.1	130	0.9	11.2	0.002	0.02	0.39	34.1	2	0.5	95.4	0.15	0.13
H755187	TL09-005	3.6	12.1	2.76	1980	0.21	0.93	2.6	95.7	320	1.3	3.3	<0.002	0.08	0.67	49.8	2	0.7	91.3	0.22	0.11
H755188	TL09-005	5.1	17.6	3.65	1960	0.31	0.77	2	78.6	260	2.4	3.6	<0.002	0.19	0.68	39.7	2	0.5	90.8	0.18	0.13
H755189	TL09-005	3.4	13	3.96	1940	0.22	0.64	2.4	81.8	220	1.8	1.6	<0.002	0.03	0.86	43.9	2	0.7	100.5	0.19	0.11
H755190	TL09-005	3.4	17.6	4.51	2120	0.15	0.49	2.1	80.1	200	1.3	3	<0.002	0.04	0.62	41.7	2	0.6	82.2	0.18	0.4
H755191	TL09-005	3.5	24.9	3.8	1460	0.18	1.33	2.6	87.6	170	2.4	23.1	<0.002	0.13	0.41	45.1	2	0.6	142	0.21	<0.05
H755192	TL09-005	4.9	20.3	3.11	1670	0.92	0.66	2.2	67	190	8.1	25.2	0.003	0.88	0.16	23.6	3	0.6	84.3	0.18	0.27
H755193	TL09-005	7.1	19.2	4.47	2900	0.64	0.4	2.7	42.9	200	1.7	15	0.002	0.37	0.13	15.3	2	0.6	82.9	0.2	0.21
H755194	TL09-005	4.3	26.2	2.82	1960	6.1	1.66	3.4	79.1	180	2.9	37	0.002	0.45	0.08	33.5	2	0.5	179.5	0.22	1.3
H755195	TL09-005	3.5	13.2	2.27	2310	0.8	1.36	2.2	90.6	270	2.9	2.2	0.002	0.54	0.25	43	3	0.8	209	0.17	0.27
H755197	TL09-005	3.4	17.3	2.83	2070	0.24	1.3	2.3	88.5	320	2.4	4.9	0.002	0.09	0.27	44.3	2	0.7	184.5	0.18	0.14
H755198	TL09-005	4.4	10.5	2.6	2000	0.2	1.18	2.6	88.5	330	1.9	1.8	<0.002	0.14	0.4	45.8	2	0.8	132	0.21	0.07
H755199	TL09-005	4.6	9.1	1.67	2440	0.42	0.66	2	61	250	2.3	2.7	<0.002	0.4	0.33	28.9	2	0.6	103.5	0.16	0.14
H755200	TL09-005	11.1	20.5	1.87	2300	2.6	1.1	3.6	46.2	460	4	31.6	0.003	0.65	0.24	20.9	2	0.9	98.8	0.32	0.23
H755201	TL09-005	4.2	12.3	2.55	2450	0.27	1.26	2.6	77.9	350	2.4	7.7	0.002	0.03	0.29	52.5	2	0.7	156.5	0.2	0.12
H755202	TL09-005	3.9	10.4	2.63	2500	0.29	0.9	2.5	74.3	330	2	3.6	<0.002	0.31	0.38	48.2	3	0.7	142	0.19	0.11
H755203	TL09-005	3.8	9.9	1.85	2640	0.32	0.89	2.2	56.7	330	2.9	2.6	<0.002	0.1	0.33	43.6	2	0.7	140	0.18	0.11
H755204	TL09-005	11.1	10.5	2.38	2710	0.24	1.05	2.7	65.7	580	3.2	15.6	<0.002	0.06	0.41	44.8	2	0.8	234	0.21	0.1
H755205	TL09-005	10.9	18.6	2.51	5490	0.83	0.69	3.7	51.8	520	4.9	7.4	0.002	0.65	0.43	26.8	3	0.9	215	0.32	0.2
H755206	TL09-005	23.4	33.1	3.58	1260	0.11	3.02	5	134	900	8.2	37.5	<0.002	0.06	0.1	16.8	1	0.7	973	0.35	0.1
H755207	TL09-005	25.1	48.9	3.92	803	0.16	3.12	4.7	153.5	1030	9.3	56.9	<0.002	0.04	0.09	18.5	1	0.7	1010	0.32	0.13
H755208	TL09-005	24.6	31.6	3.72	784	4.24	2.99	4.8	148	770	8.2	36.1	0.002	0.23	0.14	18.5	1	0.8	826	0.28	0.15
H755209	TL09-005	25	30.8	3.54	761	30.5	3.05	4.8	140	830	7.4	41.8	0.012	0.42	0.14	17.5	2	0.8	789	0.28	0.14
H755210	TL09-005	24.5	32.1	3.29	735	0.95	2.81	4.9	130	850	6.1	46.7	<0.002	0.12	0.14	15.6	1	0.7	709	0.29	0.13
H755211	TL09-005	24.9	28.6	3.16	744	1.97	2.77	5.1	125	850	6.1	40.2	<0.002	0.08	0.13	15.1	1	0.8	812	0.3	0.08
H755212	TL09-005	5.8	17.3	3.76	1060	1.41	1.31	2.7	82.4	370	4.4	22.4	0.002	0.58	0.35	49.3	3	1	406	0.2	0.16
H755213	TL09-005	4.3	19.6	3.74	1160	2.55	1.06	2.5	77.9	320	3.2	13.8	0.002	0.18	0.45	51.4	2	0.6	258	0.19	0.14
H755214	TL09-005	7.4	22.5	5.98	1560	0.16	0.34	1.3	91.1	120	12.2	2.3	<0.002	0.09	0.19	30	2	0.3	134	0.11	0.14
H755215	TL09-005	3.6	16	3.8	1280	0.34	1.36	1.9	122	210	2.6	2.9	0.002	0.11	0.33	38.6	2	0.5	183.5	0.15	0.12
H755216	TL09-005	2.6	16.8	3.87	1100	0.24	1.41	1.8	120	210	2.1	5.9	0.002	0.08	0.31	38.5	2	0.5	137	0.14	0.13
H755217	TL09-005	4.1	24.1	5.85	1760	0.54	0.33	1.3	101.5	100	2.5	2.9	0.002	0.04	0.14	26.4	1	0.3	55.4	0.1	0.15
H755218	TL09-005	2.8	17.4	3.58	1220	0.65	1.48	2.2	115	210	2.2	13.6	0.002	0.08	0.37	38	2	0.5	138	0.15	0.08
H755219	TL09-005	3.5	18.3	3.27	1420	0.76	1.37	2.5	120	260	2.1	6.8	0.003	0.08	0.33	51	2	0.6	145	0.16	0.07
H755220	TL09-005	3.3	9.1	2.36	2090	0.36	0.74	2.5	121.5	290	1.9	2.1	0.002	0.08	0.5	56.1	2	0.6	142	0.17	0.11
H755222	TL09-005	2.5	5.3	1.7	3430	0.99	0.71	1.8	80.9	230	1.3	1.9	<0.002	0.1	0.29	32.8	2	0.4	93.8	0.12	0.06
H755223	TL09-005	3	7.2	2.23	2150	0.24	1.12	2.3	121	280	1.5	1.8	0.002	0.03	0.29	54.9	2	0.5	109.5	0.15	0.09
H755224	TL09-005	2.6	10	2.32	2230	0.32	0.72	1.8	93.2	230	1.4	3	<0.002	0.05	0.24	31.9	1	0.5	101	0.12	<0.05
H755225	TL09-005	3.7	12.3	2.87	1640	0.33	1.33	2.6	127.5	300	1.7	5	0.002	0.03	0.32	53.4	2	0.6	143	0.17	<0.05
H755226	TL09-005	3.2	8.8	2.74	1600	0.31	0.83	2.3	116.5	270	1.7	1.3	<0.002	0.05	0.38	41.2	2	0.6	129	0.15	0.07
H755227	TL09-005	2.7	22.3	3.77	1300	0.4	1.48	2.1	112.5	300	1.7	15.2	<0.002	0.23	0.11	36.4	1	0.4	136.5	0.18	0.3
H755228	TL09-005	3.4	21.8	3.61	1300	0.23	1.1	2.5	132.5	290	1.9	9.5	<0.002	0.16	0.25	40.4	2	0.6	153	0.17	0.08
H755229	TL09-005	11.3	27	3.14	1080	1.07	1.61	2.8	114.5	440	3.4	27.8	0.002	1.05	0.17	23.3	3	0.5	212	0.16	0.24
H755230	TL09-005	3.4	10.6	3.42	1360	0.26	1.11	2.2	133.5	270	1.9	3.7	<0.002	0.08	0.38	41.4	2	0.5	162.5	0.15	0.06
H755231	TL09-005	3.3	17.3	3.52	1680	0.21	1.1	2.4	125.5	290	2.1	29.8	<0.002	0.07	0.35	42.2	2	0.6	116	0.15	0.08
H755232	TL09-005	14.1	29.2	1.59	848	0.73	2.51	5.7	60	710	3.4	71.2	0.003	0.04	0.17	19.6	2	0.9	204	0.43	<0.05
H755233	TL09-005	4.5	16	3.32	1900	0.28	1.08	2.4	105	270	2.3	27.7	<0.002	0.1	0.31	36.6	1	0.8	140	0.16	0.16
H755234	TL09-005	3.4	11.2	2.99	1850	0.31	0.98	2.5	115.5	290	2.1	8.3	<0.002	0.01	0.36	51.7	2	0.6	129.5	0.16	0.1

sample	hole	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm	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
H755235	TL09-005	8.8	19.8	1.6	2190	0.55	1.45	3.4	81.2	450	5.3	34.8	<0.002	0.47	0.22	30.5	2	1	236	0.24	0.18
H755236	TL09-005	2.5	15.9	3.04	1880	0.35	1.84	2.1	116.5	240	4	3.4	<0.002	0.2	0.23	35.6	1	0.5	305	0.14	0.15
H755237	TL09-005	31.2	30.2	2.38	1080	0.26	3.07	4.3	34.4	1720	5.7	59	<0.002	0.26	0.07	21.1	1	0.9	277	0.26	0.35
H755238	TL09-005	3.1	15.9	2.6	1370	0.33	1.89	2.5	115	260	4.7	2.4	<0.002	0.05	0.18	44.3	2	0.6	293	0.17	0.06
H755239	TL09-005	3.3	9.4	1.9	1700	0.29	1.26	2.6	123.5	290	3	0.8	<0.002	0.02	0.3	43.7	2	0.5	152.5	0.16	0.06
H755240	TL09-005	2.8	24.2	2.12	1520	8.77	2.8	2.2	108	210	4.7	44.7	0.002	1.3	0.07	35.9	3	0.5	205	0.13	1.17
H755241	TL09-005	3.5	17.5	1.88	1760	1.79	2.27	2.7	132.5	290	4.5	9.2	0.002	0.28	0.19	48	2	0.7	234	0.17	0.28
H755242	TL09-005	3	10.2	1.78	1630	0.22	1.94	2.4	124.5	250	2.4	1.8	<0.002	0.14	0.23	40.8	2	0.6	192	0.16	0.12
H755243	TL09-005	2.9	21.2	2.34	1870	19.95	1.92	2.4	123	280	3	29.7	0.003	0.76	0.17	38.1	2	0.5	162	0.16	1.2
H755244	TL09-005	3	12	2.07	1660	0.46	2.06	2.4	126	260	2.2	3.5	<0.002	0.15	0.22	41.7	2	0.5	168	0.16	0.1
H755245	TL09-005	3	10.4	2.16	1670	0.42	1.24	2.4	129	290	1.7	0.4	0.002	0.02	0.3	43.4	2	0.6	145.5	0.15	<0.05
H755247	TL09-005	3	10	1.74	1640	0.28	1.39	2.4	126.5	280	2.1	1.4	<0.002	0.08	0.28	42	2	0.6	148.5	0.16	0.05
H755248	TL09-005	10.3	24.6	2.42	1420	95.3	2.32	3	136.5	580	4.5	50	0.041	1.46	0.07	33.6	3	0.7	262	0.2	0.7
H755249	TL09-005	13.8	16.5	0.96	1760	3.25	1.36	4.1	32.6	490	5.2	34.1	0.002	0.5	0.24	14.3	2	1	138.5	0.3	0.14
H755250	TL09-005	15.2	15.8	0.94	1760	0.33	1.31	4.3	33.4	610	3.7	33.1	<0.002	0.39	0.31	15.6	2	0.9	135	0.32	0.06
H755251	TL09-005	9.6	19.5	0.97	988	0.58	1.6	3.9	32.8	630	3.5	47.3	0.002	0.43	0.2	13.9	2	1.3	107.5	0.29	0.27
H755252	TL09-005	3.1	6.1	1.84	2230	1.81	0.74	2	103	240	1.9	1.1	0.008	0.05	0.37	34.2	2	0.8	122	0.13	0.07
H755253	TL09-005	2.9	4.9	2.05	2190	0.43	0.87	2.3	115	280	2.1	0.8	0.002	0.08	0.4	40	2	0.6	155	0.14	0.06
H755254	TL09-005	2.9	5.5	2.57	2010	0.52	0.92	2.3	119.5	280	1.7	0.9	<0.002	0.04	0.39	42.8	1	0.5	153.5	0.15	0.05
H755255	TL09-005	3.5	6	2.38	1860	0.68	0.59	2.4	113	280	2.5	1.3	0.002	0.03	0.53	50.1	2	0.7	174	0.17	0.07
H755256	TL09-005	3.2	8.2	2.54	1760	0.76	0.86	2.3	120	270	2.1	1.3	0.003	0.05	0.45	41.4	2	0.7	164.5	0.15	<0.05
H755257	TL09-005	3.4	11.5	3.4	1600	0.35	1.13	2.4	124	280	1.5	1.8	<0.002	0.07	0.36	45.1	2	0.7	142.5	0.16	0.06
H755258	TL09-005	4	15.8	4.41	1260	0.23	1.19	2.4	126	280	1.2	1.1	<0.002	0.13	0.24	57.3	2	0.6	129.5	0.16	0.07
H755259	TL09-005	3.7	17.5	4.48	1100	0.23	1.27	2.5	124.5	290	0.9	0.8	0.002	0.15	0.22	58.1	2	0.7	128.5	0.16	0.08
H755260	TL09-005	3.9	16.8	4.66	1120	0.23	1.27	2.4	122	260	0.8	0.6	<0.002	0.09	0.19	66	2	0.6	117.5	0.15	0.08
H755261	TL09-005	3.4	18	4.88	1110	0.23	1.26	2.4	113.5	280	0.8	1.2	<0.002	0.06	0.18	45.1	2	0.6	115	0.16	<0.05
H755262	TL09-005	3.9	15	4.42	1500	0.22	1.4	2.9	98	330	0.8	1.1	0.002	0.07	0.2	50	2	0.8	129	0.2	0.28
H755263	TL09-005	3.8	16.3	4.35	1570	0.25	1.42	2.8	127.5	320	0.9	1	0.002	0.12	0.24	47.2	2	0.6	129.5	0.18	<0.05
H755264	TL09-005	3.3	17.9	4.8	1240	0.23	1.26	2	122	270	0.9	0.7	<0.002	0.1	0.18	51.5	2	0.6	106.5	0.15	<0.05
H755265	TL09-005	3.7	21.9	4.83	1260	0.22	1.22	2.4	137	260	0.7	0.9	<0.002	0.09	0.19	67.4	2	0.7	103.5	0.16	0.05
H755266	TL09-005	3.4	18.6	4.68	1230	0.22	1.29	2.2	136	260	0.9	1	<0.002	0.09	0.19	61.6	2	0.6	101	0.15	0.07
H755267	TL09-005	3.1	18	4.57	1250	0.22	1.39	2.1	136.5	250	1.1	20.2	<0.002	0.13	0.2	43.5	2	0.6	103.5	0.14	0.05
H755268	TL09-005	3.2	19	4.36	1370	0.55	1.27	2.1	138.5	240	1.4	32.6	0.002	0.06	0.28	49.7	2	0.5	109.5	0.14	0.06
H755269	TL09-005	3.5	17	3.88	1440	0.52	1.06	2.3	130	260	1.4	23.9	<0.002	0.09	0.38	43.7	2	0.6	112.5	0.14	<0.05
H755270	TL09-005	3.7	20.9	3.69	1230	0.39	1.14	2.5	131	290	1.9	8	<0.002	0.14	0.49	49.5	2	0.6	106.5	0.16	<0.05
H755272	TL09-005	4.7	20.9	3.51	1140	0.39	0.97	2.6	132	290	2.5	5.7	0.002	0.16	0.52	59.8	2	0.7	95.5	0.16	<0.05
H755273	TL09-005	6.5	23.3	3.43	1230	0.33	0.87	2.8	129	330	5	18.8	<0.002	0.5	0.49	45.6	3	0.8	108	0.18	0.06
H755274	TL09-005	3.5	16.4	3.35	1170	0.28	0.99	2.4	140	290	2.4	11.5	<0.002	0.16	0.42	45.6	2	0.7	131.5	0.16	<0.05
H755275	TL09-005	3.5	39.8	2.87	912	0.25	1.56	2.4	136	290	3.5	71.7	<0.002	0.4	0.16	45.5	3	0.6	251	0.16	0.39
H755276	TL09-005	4.9	15.1	6.48	1900	0.06	0.11	0.9	74.1	160	1.1	2.4	<0.002	0.02	<0.05	17	1	0.3	113.5	0.06	<0.05
H755277	TL09-005	4.5	55.5	2.66	749	0.14	2.58	2.9	159.5	380	4	59.8	<0.002	0.23	0.17	57	2	0.7	437	0.19	0.1
H755278	TL09-005	11.6	42.5	5.13	968	0.53	2.1	2.5	213	440	2.7	38.8	<0.002	0.01	0.09	31	2	0.7	355	0.15	<0.05
H755279	TL09-005	14.8	37.2	5.03	913	0.75	2.41	2.3	218	480	3	39.7	<0.002	0.02	0.09	26.1	1	0.6	442	0.15	<0.05
H755280	TL09-005	15.5	32.8	5.59	1080	0.48	2.12	2.5	275	460	2.8	37.5	<0.002	<0.01	0.08	24.9	1	0.6	416	0.16	<0.05
H755281	TL09-005	3.6	21	3.72	1420	0.25	1.18	2.2	125.5	190	2.2	7.5	<0.002	0.1	0.29	42.5	2	0.6	188.5	0.15	<0.05
H755282	TL09-005	3	14.6	3.22	1670	0.49	0.55	2.4	133	250	1.6	3.5	<0.002	0.2	0.5	43.2	2	0.6	113	0.15	0.05
H755283	TL09-005	3.8	11.6	3.51	1880	0.99	0.53	2	129	250	1.7	4.4	<0.002	0.23	0.46	33.1	2	0.5	145.5	0.12	0.07

sample	hole	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm	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
H755284	TL09-005	3.4	15	2.9	1750	0.26	0.5	2.4	133.5	260	1.8	4.6	<0.002	0.26	0.73	45.9	2	0.6	118.5	0.15	<0.05
H755285	TL09-005	2.8	21.8	5.03	2400	0.34	0.63	2	114	140	1.4	7	<0.002	0.07	0.32	37.9	2	0.5	97.8	0.13	<0.05
H755286	TL09-005	2.9	16.9	3.52	1760	0.26	0.58	2.2	130.5	210	2.7	7.8	<0.002	0.81	0.6	39.6	3	0.8	133.5	0.14	0.17
H755287	TL09-005	3.6	23.9	4.31	1380	0.23	0.73	2.1	125.5	230	2.2	27.7	<0.002	0.22	0.61	41.5	2	0.6	194	0.14	<0.05
H755288	TL09-005	8.3	25.8	3.85	1340	1.24	1.19	2.8	84.8	620	2.7	25.4	<0.002	0.28	0.55	45.1	2	0.8	278	0.19	0.06
H755289	TL09-005	4.5	18.5	3.73	1280	0.2	0.74	2.7	74.3	270	2.4	7.4	<0.002	0.11	0.67	65.2	2	0.7	166.5	0.18	<0.05
H755290	TL09-005	3.5	22.8	4.78	1420	0.2	0.58	2.5	115.5	190	1.7	10.6	<0.002	0.21	0.54	44.4	2	0.7	128.5	0.17	0.11
H755291	TL09-005	4.1	20.6	4.03	1440	0.28	0.78	2.6	151	280	2.1	7.9	<0.002	0.11	0.59	59.5	2	0.6	172.5	0.17	<0.05
H755292	TL09-005	2.9	20.7	4.21	1360	0.29	0.7	2	149	210	3.5	5.7	<0.002	0.25	0.51	32.6	1	0.6	165.5	0.17	<0.05
H755293	TL09-005	3.8	18.1	4.07	1310	0.21	0.87	2.3	162.5	280	2.7	10.8	<0.002	0.13	0.53	39.2	1	0.6	164	0.19	<0.05
H755294	TL09-005	5.2	17.6	4.73	1520	0.44	0.81	2.4	148	220	2.3	11.7	<0.002	0.1	0.46	38.2	2	0.7	167	0.21	0.07
H755295	TL09-005	10.8	32.2	3.57	1020	0.33	1.25	3.2	115.5	400	2.8	36	<0.002	0.08	0.35	35.5	1	0.8	284	0.23	0.1
H755297	TL09-005	4.6	17.3	3.52	1280	0.15	1.23	2.5	140	290	2.2	20.6	<0.002	0.14	0.45	39.1	1	0.7	214	0.21	0.14
H755298	TL09-005	3.9	15.4	4.53	1620	0.19	1.04	2.4	126.5	260	2.3	12.1	<0.002	0.17	0.49	42.3	2	0.7	160.5	0.2	0.12
H755299	TL09-005	3.6	16.2	4.57	1450	0.24	1.08	2.3	141.5	280	1.8	5	<0.002	0.22	0.36	39.3	2	0.6	144	0.18	<0.05
H755300	TL09-005	3.6	12.6	4.56	1490	0.23	1.06	2.6	152.5	270	1.6	5.4	<0.002	0.21	0.43	43.6	2	0.7	155	0.19	1.14
H755301	TL09-005	3.4	15.9	4.92	1550	2.33	0.95	2.1	148	270	1.7	9.6	0.016	0.44	0.38	36.7	2	0.5	142	0.17	<0.05
H755302	TL09-005	3.1	18.1	4.87	1520	5.51	1.03	1.9	138	270	1.5	6.5	0.051	0.88	0.33	35.7	2	0.5	142	0.21	<0.05
H755303	TL09-005	3.4	11.8	3.75	1720	2.13	1.02	2.3	142.5	280	1.4	5.6	0.019	0.53	0.41	41.3	2	0.6	168.5	0.19	0.21
H755304	TL09-005	4.4	12.5	2.66	1760	0.94	1	2.5	151.5	290	2.6	4.5	0.003	0.33	0.48	42.1	2	0.7	200	0.2	<0.05
H755305	TL09-005	3.5	8.8	2.9	1760	0.62	0.97	2.4	153	280	2.4	4.1	<0.002	0.3	0.45	43.2	2	0.8	222	0.2	0.51
H755306	TL09-005	24.8	17.4	3.13	994	0.24	3	4.5	111.5	900	3	34.1	0.002	0.05	0.13	19	2	0.9	641	0.29	0.19
H755307	TL09-005	3.7	11.1	3.02	1540	0.51	2	2.3	131	250	2.2	27.4	<0.002	0.18	0.26	40.8	2	0.6	211	0.18	<0.05
H755308	TL09-005	2.9	7.6	3.25	1640	0.86	1.74	2.2	115.5	180	1.9	13.6	0.004	0.15	0.32	39.7	1	0.6	138.5	0.17	0.08
H755309	TL09-005	3.2	9.3	4.04	1890	0.79	1.08	1.9	115.5	250	1.6	15.7	0.004	0.33	0.35	36.9	2	0.6	103	0.15	0.1
H755310	TL09-005	3.9	9.4	2.13	1350	0.6	1.91	2.8	120	270	2.7	19.8	0.003	0.51	0.29	52.3	2	0.7	145.5	0.24	0.05
H755311	TL09-005	3.2	5.5	3.39	1640	0.65	1.21	2.1	95.6	210	2.5	4	0.002	0.2	0.38	37.4	2	0.7	130	0.18	0.1
H755312	TL09-005	3.4	10.9	4.8	2030	0.31	1.25	1.8	108.5	210	2.7	13.6	<0.002	1.35	0.27	32.1	2	0.6	200	0.14	0.07
H755313	TL09-005	48	33.3	2.73	937	0.21	3.21	5.3	53.4	890	7.2	49.8	<0.002	0.79	0.14	19.9	2	0.9	954	0.33	<0.05
H755314	TL09-006	22.9	16.7	1.23	417	6.22	3.54	5	28.8	780	5.9	18.2	<0.002	0.03	0.13	9	1	0.7	794	0.27	0.06
H755315	TL09-006	21.5	24.3	1.17	415	3.96	3.38	4.9	24	820	8.5	29.1	<0.002	0.02	0.13	8.8	2	0.9	875	0.27	0.08
H755316	TL09-006	18.2	30.6	1.18	423	7.65	3.5	4.9	23.8	800	8.9	28.2	<0.002	0.06	0.12	8.5	2	0.8	911	0.28	0.1
H755317	TL09-006	31.3	24.6	1.61	542	3.36	3.59	7.8	50	930	8	28.5	<0.002	0.03	0.16	9	1	0.7	979	0.34	0.15
H755318	TL09-006	20.3	28.2	4.88	1040	0.25	2.08	2.8	163	1050	5.3	43.6	<0.002	0.02	0.27	27.2	1	0.7	677	0.16	0.1
H755319	TL09-006	24.8	25.4	1.61	464	8.87	3.3	5.1	51.4	750	6.5	29.2	<0.002	0.19	0.18	9.5	1	0.7	865	0.26	0.09
H755320	TL09-006	36.9	35.2	3.14	767	2.84	2.83	6.8	114	1090	7	45.8	<0.002	0.12	0.14	15.5	1	0.8	886	0.3	0.12
H755322	TL09-006	31.8	24.3	3.16	817	22	3.02	6.5	102.5	980	6.6	30.7	0.011	0.1	0.23	17	1	0.9	904	0.3	0.09
H755323	TL09-006	32.6	29.5	4.88	1000	9.73	2.34	3.4	218	750	4.9	42.7	0.004	0.01	0.22	21.6	1	0.6	701	0.18	<0.05
H755324	TL09-006	41.2	27.1	3.3	828	6.56	2.94	6.9	119.5	1040	7.5	42	0.002	0.09	0.26	17.2	1	0.8	975	0.31	0.08
H755325	TL09-006	31.6	25.7	4.52	950	7.43	2.79	3.8	193.5	760	5.6	45	0.005	0.15	0.26	19.8	1	0.7	703	0.24	0.25
H755326	TL09-006	33.7	26.7	3.3	807	8.45	2.79	5.9	129	960	7.7	49	0.003	0.25	0.23	15.8	1	0.9	929	0.3	0.22
H755327	TL09-006	33.2	28.5	3.6	863	3.76	2.75	6	140.5	910	6.7	41.5	<0.002	0.05	0.32	18.9	2	0.8	856	0.27	0.09
H755328	TL09-006	44.3	24.7	2.88	736	9.91	2.83	7.2	107.5	1050	7.8	59.3	0.006	0.02	0.2	16.1	1	0.7	834	0.33	0.16
H755329	TL09-006	35.1	31.9	3.01	770	0.41	2.82	7	106	1040	9.2	44.3	<0.002	0.01	0.13	14.5	1	0.7	919	0.3	0.12
H755330	TL09-006	36.5	27.6	2.84	792	0.39	3.14	7.8	101.5	1050	9.4	36	<0.002	0.02	0.14	14.7	1	0.8	989	0.31	<0.05
H755331	TL09-006	32.7	24.3	2.47	716	0.49	3.16	5.9	84.2	990	9.4	28.9	<0.002	0.03	0.2	14.2	1	0.7	1060	0.27	<0.05
H755332	TL09-006	33.1	27.3	2.46	701	0.81	2.62	6.1	86	900	7	41.2	<0.002	0.14	0.11	12.9	1	0.7	800	0.26	0.28

Partial Geochemistry

sample	hole	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm	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
H755333	TL09-006	37.2	22.8	3.43	972	0.39	2.81	5.8	79.3	1330	9	31.1	<0.002	0.11	0.23	23.1	1	1	1025	0.26	0.08
H755334	TL09-006	48.1	24	2.8	766	1	3.01	7.1	101.5	1020	8.4	39.5	<0.002	0.07	0.18	15.5	1	0.8	879	0.3	0.06
H755335	TL09-006	46.8	24.1	3.13	829	3.23	2.98	7.1	113.5	1090	9.5	46.5	<0.002	0.06	0.14	16.7	1	0.9	987	0.3	0.08
H755336	TL09-006	30.2	34.6	2.67	684	5.08	3.23	8	92.3	1100	10.9	49.9	<0.002	0.32	0.11	13.9	2	0.9	955	0.32	0.46
H755337	TL09-006	40.1	27.7	3	799	0.66	3.11	7.7	106	1050	8.3	37.4	<0.002	0.02	0.11	15.4	1	0.9	929	0.3	0.06
H755338	TL09-006	40.4	25.8	2.77	741	0.69	3	6.1	97	1040	8.6	41.6	<0.002	0.01	0.11	14.9	1	0.8	948	0.27	0.05
H755339	TL09-006	38.9	27.8	2.77	760	0.35	3.09	6.5	98.6	1060	8.3	51.1	<0.002	0.02	0.1	14.7	1	0.7	907	0.28	<0.05
H755340	TL09-006	52.3	28.9	2.42	737	0.72	2.8	6.1	82.8	900	7.1	53.9	<0.002	0.02	0.09	12.9	1	0.7	734	0.27	0.05
H755341	TL09-006	39	25.7	2.95	800	0.55	3.11	7	102.5	1070	9.2	34.6	<0.002	0.02	0.12	15.3	1	0.9	1050	0.3	0.07
H755342	TL09-006	41.7	22.9	2.45	814	0.2	2.25	5.3	87.8	820	6.4	42.8	<0.002	0.01	0.11	13.9	1	0.7	715	0.23	0.06
H755343	TL09-006	35.1	23.5	3	810	2.29	3.1	6.3	96.5	1020	8.2	37.9	<0.002	0.06	0.15	16.3	1	0.9	963	0.28	0.12
H755344	TL09-006	33.5	24.6	2.96	763	6.1	2.99	6.3	111	850	7.3	48.4	<0.002	0.1	0.12	16.4	1	0.8	718	0.3	0.16
H755345	TL09-006	25.8	22.4	3.39	1020	2.78	2.37	4.4	107	610	7.4	42.8	<0.002	0.07	0.19	26	1	0.7	697	0.23	0.09
H755347	TL09-006	31	22.6	4.04	870	1.27	2.57	4.9	231	730	6.2	38	<0.002	0.02	0.13	16.6	1	0.6	705	0.24	<0.05
H755348	TL09-006	24.7	29.7	6.04	1060	1.18	1.97	4.4	356	550	4.7	52.8	<0.002	0.03	0.13	23	1	0.6	506	0.22	0.08
H755349	TL09-006	35.9	26.9	4.09	886	1.26	2.32	6.6	157	980	6.5	48.5	<0.002	0.01	0.14	20.6	1	0.7	730	0.27	0.14
H755350	TL09-006	31.3	16.5	2.4	913	2.72	2.18	5.5	104.5	610	8.4	29.8	<0.002	0.12	0.19	20.8	1	0.7	800	0.3	0.06
H755351	TL09-006	26.6	22	2.61	1020	3.32	2.68	4.5	99.9	690	8.4	26.3	0.002	0.05	0.21	17.9	1	0.6	810	0.27	0.15
H755352	TL09-006	32.2	21.6	2.76	781	2	2.93	5.2	91.9	810	8.9	27.6	<0.002	0.04	0.19	15.7	1	0.7	875	0.28	0.12
H755353	TL09-006	22.2	24	2.99	820	11.25	2.61	4.9	83.9	690	7.4	24.9	0.01	0.09	0.19	19.5	1	0.8	792	0.26	0.14
H755354	TL09-006	23	28.2	3.77	867	1.62	2.57	4	148.5	700	7.1	26.1	<0.002	0.01	0.14	17.9	1	0.7	771	0.22	0.12
H755355	TL09-006	29.5	28	3.26	852	0.41	2.83	5.1	130.5	790	8.3	26.6	<0.002	0.02	0.17	15.6	1	0.6	879	0.25	0.13
H755356	TL09-006	34	27.5	2.66	766	0.22	3.05	5.2	83.8	880	9.7	35.9	<0.002	0.01	0.09	15.1	1	0.7	996	0.27	0.13
H755357	TL09-006	32.7	27.4	2.8	813	0.28	2.83	5.3	90.6	870	9	32.3	<0.002	0.01	0.12	15.6	1	0.7	966	0.27	0.15
H755358	TL09-006	30.8	27.4	2.68	757	3.52	2.88	5.3	86.9	840	9.7	36	0.003	0.01	0.16	14.8	1	0.6	935	0.28	0.08
H755359	TL09-006	33.7	26.3	2.6	746	12.1	2.85	4.9	81.1	890	8.8	41.1	0.007	0.01	0.14	15	1	0.7	891	0.26	0.09
H755360	TL09-006	13.6	23.1	4.2	1000	55.9	2.06	3.8	174.5	560	5.9	40.1	0.045	0.01	0.2	24.2	1	0.9	611	0.23	0.13
H755361	TL09-006	28	28.2	2.78	810	1.78	3.09	5.4	93.1	930	9.5	22.5	<0.002	0.01	0.14	15.5	1	0.8	1035	0.28	0.27
H755362	TL09-006	36.6	26.7	2.67	745	6.28	2.96	5.2	82.8	910	9.2	43.8	0.004	0.01	0.11	15.8	1	0.7	997	0.28	0.18
H755363	TL09-006	36.8	26.8	2.48	670	13.65	2.75	5.1	80.5	750	6.8	66.4	<0.002	0.07	0.11	15.7	1	0.7	752	0.29	0.26
H755364	TL09-006	27.2	32.3	2.93	781	32.8	2.87	5.3	92.5	840	7.4	30.8	0.026	0.06	0.13	17.3	1	0.8	856	0.27	0.15
H755365	TL09-006	28.3	29.2	2.77	772	2.96	2.97	5.3	92.5	850	8.5	25.6	0.002	0.04	0.14	14.9	1	0.7	908	0.28	0.11
H755366	TL09-006	21.2	34.1	5.48	1040	5.01	2.42	3.4	284	610	4.6	59.9	0.002	0.01	0.09	21.9	1	0.7	580	0.19	0.13
H755367	TL09-006	29.7	28.3	2.95	771	6.29	3.04	5.5	105.5	830	7.9	25	0.003	0.08	0.14	15.8	1	0.8	875	0.29	0.17
H755368	TL09-006	28.3	22.2	2.17	608	0.62	3.05	5	70.2	730	6.8	17.8	<0.002	0.1	0.13	12.2	1	0.8	752	0.26	0.16
H755369	TL09-006	27.8	26.2	1.99	558	2.52	3.42	5.1	69.1	740	7.1	23.2	0.002	0.05	0.15	11.9	1	0.8	861	0.25	0.15
H755370	TL09-006	19.7	25.5	5.25	1020	2.37	2.59	3.3	267	620	4.9	57.7	0.002	<0.01	0.1	20.9	1	0.7	647	0.19	0.13
H755372	TL09-006	19.3	25.8	5.12	972	1.91	2.67	3.4	269	670	4.9	62.4	<0.002	<0.01	0.09	19.7	1	0.6	649	0.21	0.13
H755373	TL09-006	31	27.8	2.64	673	0.26	3	4.9	104	770	8	44.5	<0.002	0.01	0.13	14.8	1	0.6	884	0.24	0.09
H755374	TL09-006	22.2	66.3	3.09	511	13.9	2.02	4.6	196.5	670	5.9	44.7	<0.002	0.04	0.14	12.8	1	0.5	503	0.26	0.17
H755375	TL09-006	28.2	22.3	1.88	525	0.27	3.37	4.9	61.7	740	8.1	40.7	<0.002	0.02	0.13	11.2	1	0.5	892	0.28	0.11
H755376	TL09-006	28.8	28.3	1.79	526	0.4	3.44	4.7	56.1	770	9.3	42.7	<0.002	0.01	0.13	11.5	1	0.6	832	0.28	0.12
H755377	TL09-006	24.5	26.6	1.74	528	0.63	3.36	4.3	52.3	770	8.7	42.4	<0.002	0.02	0.11	10.6	1	0.6	805	0.26	0.09
H755378	TL09-006	23.7	23.4	2.25	550	0.27	3.12	4.1	79.7	720	8.2	34.1	<0.002	0.02	0.12	13.5	1	0.6	844	0.26	0.11
H755379	TL09-006	25.3	22.7	2.67	658	1.11	2.89	4.5	117.5	730	6.5	26.4	0.002	0.06	0.12	14.1	1	0.6	813	0.26	0.14
H755380	TL09-006	23.9	24	3.55	859	0.23	2.8	4.4	165	760	6.3	22.8	<0.002	0.05	0.17	19.4	1	0.7	812	0.22	0.14
H755381	TL09-006	23.4	22.7	2.29	675	0.46	3.14	4.4	71.5	580	7.3	28.5	<0.002	0.12	0.35	18.8	1	0.5	726	0.24	0.17

sample	hole	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm	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
H755382	TL09-006	19.8	24.2	4.34	927	0.81	2.81	3.8	215	550	5.9	35.3	<0.002	0.03	0.16	22	1	0.6	700	0.23	0.1
H755383	TL09-006	26.2	26.1	2.78	619	0.61	3.14	4.5	135	670	7.2	35.2	<0.002	0.01	0.11	12.7	1	0.5	794	0.26	0.13
H755384	TL09-006	24.2	28.7	2.25	694	0.31	3.11	4.3	79.2	610	7.8	46.5	<0.002	0.01	0.1	16.6	1	0.5	743	0.25	0.17
H755385	TL09-006	24.1	28.5	2.73	767	0.84	3.04	3.8	94.4	550	7.1	47.7	<0.002	0.62	0.11	21.1	2	0.6	682	0.21	0.68
H755386	TL09-006	23.4	25.5	2.77	697	0.85	3.04	4.3	120.5	600	6.8	31.2	<0.002	0.06	0.1	14.5	1	0.5	737	0.24	0.15
H755387	TL09-006	27.4	22.5	1.73	496	0.5	3.19	4.5	57.5	640	8.1	35.1	<0.002	0.05	0.09	9.9	1	0.4	709	0.25	0.15
H755388	TL09-006	22	25.7	2.85	703	0.94	3.12	4.7	111	810	7.5	23.1	<0.002	0.02	0.16	16.3	1	0.6	898	0.27	<0.05
H755389	TL09-006	9.1	33.8	9.46	1340	4.03	1.01	2	639	340	2.2	30.5	0.003	<0.01	0.09	22.9	1	0.4	210	0.12	2.23
H755390	TL09-006	22.6	22	2.97	748	13.05	2.97	4.8	110	750	7.4	18	0.005	0.3	0.14	14.9	1	0.7	799	0.29	0.15
H755391	TL09-006	21.9	28	2.63	687	0.54	3.26	4.2	102	660	7	34.6	<0.002	0.13	0.1	15.1	1	0.6	746	0.26	0.19
H755392	TL09-006	19.4	25.6	2.97	872	0.53	2.89	3.2	158	470	5.1	37.9	<0.002	0.39	0.07	13.7	1	0.4	492	0.2	4.53
H755393	TL09-006	24	24.8	2.67	677	1.84	3.15	4.2	96.7	830	7.4	25.3	<0.002	0.03	0.11	13.2	1	0.5	879	0.25	0.08
H755394	TL09-006	16.5	27.9	3.85	903	2.65	2.35	3.8	152.5	620	5.7	37.2	0.002	0.1	0.15	20.8	1	0.7	709	0.24	0.15
H755395	TL09-006	24.9	31.1	2.1	603	1.91	3.44	5	62.8	830	7.4	45.6	<0.002	0.01	0.09	12.5	1	1.1	957	0.29	0.15
H755397	TL09-006	31.7	28.8	2.48	701	5.18	3.07	5.8	73.2	1100	7.9	34.4	0.003	0.02	0.11	14.8	1	1.2	1100	0.29	0.1
H755398	TL09-006	25.8	28.5	4.07	894	22.2	2.5	4.2	173	740	6.3	52.9	0.009	0.03	0.16	18.6	1	0.7	727	0.26	0.05
H755399	TL09-006	24.2	25.1	3.46	802	40.4	2.85	4.8	136	820	6.4	25	0.009	0.12	0.13	17	1	0.8	725	0.28	0.11
H755400	TL09-006	24	24.3	4.19	965	3.19	2.58	4	183.5	710	5.7	31.9	<0.002	0.04	0.14	19.3	1	0.6	693	0.23	<0.05
H755401	TL09-006	22.6	19.8	4.03	858	3.02	2.82	4.3	179.5	770	5.8	17.7	<0.002	0.03	0.14	19	1	0.6	757	0.23	0.05
H755402	TL09-006	24.1	17.2	2.9	710	8.23	2.49	3.7	102.5	580	4.8	33.2	<0.002	0.69	0.14	16.4	2	0.7	531	0.21	0.25
H755403	TL09-006	26.2	21.7	3.41	838	1.26	2.84	5.2	125	800	7.4	21.8	<0.002	0.03	0.15	17.2	1	0.8	767	0.31	0.07
H755404	TL09-006	25.1	22.1	3.17	818	0.75	2.82	4.4	118.5	740	7	25.6	<0.002	0.06	0.14	19.2	1	0.7	790	0.27	0.08
H755405	TL09-006	24.2	30.4	3.31	758	0.39	2.53	5	136.5	820	8.3	26	<0.002	0.38	0.12	16.7	1	0.7	710	0.3	0.54
H755406	TL09-006	23.2	16.6	3.33	947	1.04	2.79	4.1	128	800	7.3	19.6	<0.002	0.01	0.16	23	1	1	845	0.24	0.09
H755407	TL09-006	22.1	16.2	3.59	943	1.77	2.98	4.1	134.5	810	7.3	19.5	<0.002	0.02	0.2	21.8	1	0.8	888	0.22	<0.05
H755408	TL09-006	27.3	17.3	3.72	910	0.92	2.82	5	142	830	7.9	18	<0.002	0.01	0.22	18.1	1	0.8	869	0.3	<0.05
H755409	TL09-006	27.2	29.2	3.39	828	0.36	2.59	4.2	131	750	5.2	42.8	<0.002	0.02	0.1	17	1	0.7	599	0.26	<0.05
H755410	TL09-006	25.8	19.5	3.63	873	1.45	2.81	4.6	140	800	7.6	21.1	0.002	0.02	0.12	18.4	1	0.7	862	0.28	<0.05
H755411	TL09-006	28.1	27	3.84	922	0.45	2.7	5.3	143.5	820	7.8	29.4	<0.002	<0.01	0.11	17.7	1	0.7	813	0.32	0.08
H755412	TL09-006	23.4	22.6	4.17	865	346	2.18	3.6	187.5	640	6.1	44.6	0.283	0.42	0.16	20.3	1	0.7	647	0.23	0.98
H755413	TL09-006	23.2	19.2	3.69	868	17.95	2.56	3.9	151.5	690	6.3	24.4	0.013	0.14	0.15	18.9	1	0.7	723	0.23	0.06
H755414	TL09-006	24.5	17.1	4.03	978	4.81	2.52	4.1	154.5	670	6.9	22.9	0.003	0.02	0.13	19.9	1	0.7	782	0.24	0.1
H755415	TL09-006	16.7	10.6	2.19	560	44.1	2.3	2.5	94.6	470	3.9	20.3	0.013	0.45	0.1	10.8	2	0.5	485	0.15	0.73
H755416	TL09-006	22.3	12.8	2.11	534	15.55	2.66	3.2	83.2	640	5.4	27.2	0.007	0.27	0.11	11.4	1	0.5	625	0.21	0.46
H755417	TL09-006	20	22.2	3.68	766	6.31	2.76	3.8	162	730	6.5	28.6	0.002	0.12	0.14	18.2	1	0.6	817	0.23	0.13
H755418	TL09-006	19.6	23.8	6.83	909	8.02	1.91	3	491	490	4.8	37.9	0.004	0.05	0.1	18	1	0.5	578	0.18	0.8
H755419	TL09-006	50.5	17.7	3.92	886	6.33	2.57	3.2	167.5	1020	6.8	36.5	0.003	0.2	0.28	19.3	1	0.9	846	0.24	0.12
H755420	TL09-006	22	24.9	6.42	1100	17.05	1.93	3.1	402	600	4.7	34.8	0.019	0.02	0.14	23.2	1	0.6	535	0.19	0.05
H755422	TL09-006	26.5	17.4	3.32	770	1	3	4.7	121.5	790	6.6	19.4	<0.002	0.05	0.19	15.9	1	0.7	742	0.29	<0.05
H755423	TL09-006	23.6	19.3	2.81	759	29.4	2.84	3.8	105	720	6.2	31.4	0.012	0.67	0.14	18.6	2	0.7	720	0.22	0.25
H755424	TL09-006	2.9	32.9	11.8	1380	2.94	0.26	1	924	260	0.7	9	<0.002	<0.01	0.08	27.2	1	0.3	40.2	0.07	0.09
H755425	TL09-006	16.1	25.5	3.31	829	5.89	2.53	3.4	144.5	500	5.9	40.5	0.002	0.18	0.13	21.5	2	0.6	678	0.22	0.11
H755426	TL09-006	20.7	27.2	4.11	973	2.18	2.92	4.5	212	460	7.1	52.8	0.003	0.08	0.19	23.5	1	0.6	499	0.25	<0.05
H755427	TL09-006	30.7	31.7	3.37	736	0.98	2.71	5.4	150.5	600	6.5	81.7	0.002	0.02	0.11	19.6	1	0.6	555	0.26	<0.05
H755428	TL09-006	17	22.1	3.16	819	7.66	2.46	4.5	122	450	7.7	60.1	0.005	0.78	0.16	26.3	2	1.1	711	0.29	0.07
H755429	TL09-006	21.6	25.1	5.88	1020	5.24	2.16	4.3	320	580	6.5	50.4	0.003	0.12	0.16	33	1	0.7	703	0.22	0.9
H755430	TL09-006	18.9	14.9	4.05	1020	0.67	2.39	4.2	162	510	6.9	31.9	0.002	0.1	0.2	26.1	1	0.8	711	0.23	<0.05

Partial Geochemistry

sample	hole	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm	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
H755431	TL09-006	44.8	25.6	4.8	1020	2.58	2.35	6.8	254	900	7.1	44	0.002	0.34	0.21	28.3	1	0.9	697	0.29	1.13
H755432	TL09-006	23	25.1	6.02	920	5.73	1.86	4.4	351	600	5.4	34.9	0.003	0.27	0.13	21.3	1	0.6	506	0.26	0.05
H755433	TL09-006	29.3	24.9	4.74	873	10.6	2.38	4.8	231	600	6.5	50	0.006	0.24	0.19	29.8	2	0.7	764	0.24	<0.05
H755434	TL09-006	17.6	22.6	8.17	1210	3.69	1.34	2.7	457	510	4	27.6	0.003	0.07	0.19	25.6	1	0.8	454	0.16	<0.05
H755435	TL09-006	38	21.9	2.18	643	1.26	2.96	5.8	84.2	670	9.1	60.4	0.002	0.27	0.15	17.1	1	0.5	843	0.29	0.15
H755436	TL09-006	11	15.4	0.94	231	7.54	3.28	3.1	21.8	330	8	41.4	0.004	0.49	0.09	6.7	1	0.8	380	0.28	0.39
H755437	TL09-006	8.6	14.2	0.86	177	29.2	3.36	3.3	57.3	270	8.6	46.3	0.011	0.25	0.08	4.3	1	0.6	481	0.3	0.79
H755438	TL09-006	15.2	30.9	6.25	1220	27.1	0.93	2.9	788	720	4.2	92.3	0.018	0.47	0.11	28.5	2	1.1	355	0.16	0.5
H755439	TL09-006	25.1	28.9	7.47	1340	16.35	1.6	3.6	216	1290	4.8	86.2	0.007	0.03	0.12	34.6	1	1	596	0.2	<0.05
H755440	TL09-006	24.1	17.1	4.12	925	10.25	2.28	4.2	179	980	6.3	50.7	0.009	0.21	0.13	24.7	2	1	768	0.23	<0.05
H755441	TL09-006	5.7	30.1	11.4	1490	10.65	0.46	1.9	1080	370	1.4	26.6	0.009	0.15	0.13	29.7	1	1	141.5	0.12	0.29
H755442	TL09-006	25.7	25.4	6.76	1240	11.5	1.81	3.8	199	1310	5.4	74.3	0.013	0.04	0.14	33.5	1	1	673	0.19	<0.05
H755443	TL09-006	31.9	18.1	4.8	1040	5.56	2.69	4.9	128	1350	7.6	52.7	0.006	0.08	0.15	27.9	2	1	1070	0.24	<0.05
H755444	TL09-006	12.6	23.4	8.67	1460	11.8	1.2	2.6	986	500	3.4	41.1	0.01	0.42	0.13	30.1	2	1	417	0.14	0.19
H755445	TL09-006	4.9	24.8	10.5	1260	4.5	0.59	1.6	1220	210	1.8	44.7	0.007	0.19	0.11	27	2	0.7	265	0.1	<0.05
H755447	TL09-006	4.3	11.9	14.25	1160	2.73	0.08	0.6	1165	170	0.9	1.9	0.004	0.05	0.07	27.6	1	0.3	49.5	<0.05	<0.05
H755448	TL09-006	9.2	26.5	13.75	1240	1.77	0.48	0.9	995	300	1.5	20	0.005	0.08	0.06	26.6	1	0.3	168	0.06	<0.05
H755449	TL09-006	18.9	16.5	1.91	467	3.19	3.66	4.6	83	400	18.2	53.7	0.002	0.4	0.09	11.2	1	0.6	717	0.29	0.08
H755450	TL09-006	51.6	19.5	1.42	466	1.3	4.48	15.9	58	810	12.7	44.4	<0.002	0.27	0.11	10.4	2	0.8	951	0.59	1.24
H755451	TL09-006	42.7	24.6	4.08	778	1.02	3.06	7.1	189	840	10.3	47.3	0.002	<0.01	0.12	17.3	1	0.7	967	0.34	<0.05
H755452	TL09-006	34.8	25.2	2.19	605	0.96	3.31	5.6	77.2	680	12.4	64.6	<0.002	0.15	0.11	15.8	1	0.6	859	0.28	<0.05
H755453	TL09-006	36.4	21.2	2.04	597	3.52	3.25	5.7	58.7	860	15.2	46.9	<0.002	0.09	0.15	11.5	1	0.6	1015	0.28	0.1
H755454	TL09-006	32.4	22.3	1.85	571	1.63	3.25	5.5	54.9	780	12.4	53.7	<0.002	0.14	0.1	10.3	1	0.5	929	0.28	0.08
H755455	TL09-006	34.7	24.5	3.94	766	12.05	2.81	5.3	171.5	760	10.1	51.7	<0.002	0.11	0.12	14.8	1	0.6	833	0.26	0.15
H755456	TL09-006	33.4	22.9	3.55	703	6.17	2.98	6.2	161.5	800	11.6	45	<0.002	0.01	0.14	13.3	1	0.6	922	0.28	<0.05
H755457	TL09-006	38.9	22.2	3.74	724	3.56	2.94	6.8	172.5	830	10.8	63.1	<0.002	0.01	0.18	14.8	1	0.6	928	0.28	<0.05
H755458	TL09-006	29.3	21.8	1.81	512	0.88	3.04	2.9	36.5	540	11.4	107	<0.002	0.02	0.13	14.4	1	0.6	713	0.23	<0.05
H755459	TL09-006	41.4	29.3	2.64	683	0.71	2.99	6	83.8	870	13.1	79.9	0.002	0.01	0.14	16.7	1	0.7	963	0.31	<0.05
H755460	TL09-006	39.6	22.3	3.88	730	1.27	3.06	7	177.5	820	10.5	54.6	0.002	0.01	0.14	16	1	0.7	853	0.33	<0.05
H755461	TL09-006	38.4	23.2	3.69	667	1.14	2.89	6.7	170.5	770	10.2	62.9	<0.002	0.19	0.14	16.1	1	0.8	742	0.32	0.35
H755462	TL09-006	44.1	24.1	3.31	717	0.82	3	7.2	136.5	870	11.6	71.8	0.002	0.05	0.13	16.8	2	0.8	949	0.33	<0.05
H755463	TL09-006	41	18.7	2.28	601	0.95	2.97	4.9	60.5	970	11.6	51.9	<0.002	1.07	0.17	15.4	1	0.7	926	0.29	1.65
H755464	TL09-006	42.7	21.1	2.59	681	0.47	3.1	5.7	90.8	880	10.6	59.8	<0.002	0.11	0.16	14.8	1	0.7	981	0.31	0.06
H755465	TL09-006	35.4	20.5	4.46	812	1.06	2.82	5.1	214	770	9.9	61.6	<0.002	0.05	0.17	18.1	1	0.7	846	0.29	0.08
H755466	TL09-006	40.4	21.7	4.26	781	1.13	2.95	6.1	200	880	13.8	57.3	<0.002	0.01	0.19	17.7	1	0.7	1010	0.34	0.06
H755467	TL09-006	40	20.3	3.96	783	17.65	2.88	5.5	194	720	13.2	64	0.005	0.04	0.17	16	1	0.7	841	0.31	7.42
H755468	TL09-006	39.7	21.9	4.08	760	2.37	3	6.1	195	850	13.2	60	0.002	0.03	0.14	16.6	1	0.7	960	0.34	0.41
H755469	TL09-006	46.9	23.2	1.71	568	1.57	3.55	6	48.3	850	15.8	61.3	<0.002	0.06	0.12	12.7	1	0.7	1040	0.34	0.29
H755470	TL09-006	39.3	22.9	1.67	549	4.69	3.13	5.3	47.3	810	15.4	53.8	0.002	0.15	0.1	11.8	1	0.7	908	0.32	0.19
H755471	TL09-006	52.9	24	2.08	664	3.15	3.17	5.9	62.9	970	13.5	55.9	0.002	0.02	0.13	14.1	1	0.7	1105	0.3	0.1

sample	hole	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	assay Certificate	geochem Certificate2	from	to	rock type
	Au-AA23														
H754551	TL09-001	2.5	0.45	0.14	0.5	175	4.3	18.2	99	63.4	TB09089635	TB09132068	3.84	4.93	mafic volcanic and ferriginous chert
H754552	TL09-001	0.8	0.422	0.12	0.2	166	3.7	15.7	163	45.6	TB09089635	TB09132068	4.93	6.23	mafic volcanic and ferriginous chert
H754553	TL09-001	0.2	0.062	0.02	0.1	31	2.5	6.4	72	16	TB09089635	TB09132068	6.23	6.53	mafic volcanic and ferriginous chert
H754554	TL09-001	2.4	0.354	0.03	0.6	86	1.2	15.2	116	89.1	TB09089635	TB09132068	6.53	8.00	mafic volcanic
H754555	TL09-001	0.8	0.789	0.04	0.2	301	1.3	25.3	111	56.3	TB09089635	TB09132068	8.00	10.24	mafic volcanic
H754556	TL09-001	0.5	0.851	0.17	0.1	363	2.1	28.4	107	52.9	TB09089635	TB09132068	10.24	11.08	mafic volcanic
H754557	TL09-001	0.2	0.316	0.09	0.1	132	1.4	17.3	147	36.8	TB09089635	TB09132068	11.08	11.83	ferrigenous chert and mafic volcanic
H754558	TL09-001	0.2	0.291	0.06	<0.1	125	2.7	11.8	120	22.7	TB09089635	TB09132068	11.83	12.73	ferrigenous chert and mafic volcanic
H754559	TL09-001	<0.2	0.111	0.02	<0.1	71	1.5	9.6	61	17.9	TB09089635	TB09132068	12.73	13.20	ferrigenous chert and mafic volcanic
H754560	TL09-001	<0.2	0.079	<0.02	0.1	46	4.3	14.7	92	15.1	TB09089635	TB09132068	13.20	14.35	ferrigenous chert and mafic volcanic
H754561	TL09-001	<0.2	0.033	<0.02	0.1	32	6.6	7.4	148	16.8	TB09089635	TB09132068	14.35	15.00	ferrigenous chert and mafic volcanic
H754562	TL09-001	<0.2	0.027	<0.02	<0.1	20	7.1	4.5	57	12.4	TB09089635	TB09132068	15.00	16.04	ferrigenous chert and mafic volcanic
H754563	TL09-001	5.2	0.238	0.25	1.6	67	0.8	7.5	80	118	TB09089635	TB09132068	16.04	16.40	ferrigenous chert and mafic volcanic
H754564	TL09-001	<0.2	0.072	<0.02	0.1	47	3.3	6.9	140	18.6	TB09089635	TB09132068	16.40	17.45	ferrigenous chert and mafic volcanic
H754565	TL09-001	0.2	0.411	0.02	0.1	171	15.2	14.4	175	25.1	TB09089635	TB09132068	17.45	18.40	ferrigenous chert and mafic volcanic
H754566	TL09-001	<0.2	0.056	<0.02	<0.1	43	2.4	6.7	67	15.1	TB09089635	TB09132068	18.40	18.80	ferrigenous chert and mafic volcanic
H754568	TL09-001	<0.2	0.24	<0.02	<0.1	109	8.3	9.8	149	17.5	TB09089635	TB09132068	18.80	19.86	ferrigenous chert and mafic volcanic
H754569	TL09-001	<0.2	0.272	0.02	<0.1	128	13.1	11	111	17.8	TB09089635	TB09132068	19.86	20.80	ferrigenous chert and mafic volcanic
H754570	TL09-001	0.2	0.423	0.37	<0.1	195	17.3	14.7	135	22	TB09089635	TB09132068	20.80	21.22	ferrigenous chert and mafic volcanic
H754571	TL09-001	<0.2	0.101	<0.02	<0.1	67	2.6	9.7	95	16.3	TB09089635	TB09132068	21.22	22.26	ferrigenous chert and mafic volcanic
H754572	TL09-001	<0.2	0.123	<0.02	<0.1	77	3.1	10.5	108	15.2	TB09089635	TB09132068	22.26	23.32	ferrigenous chert and mafic volcanic
H754573	TL09-001	<0.2	0.155	<0.02	<0.1	88	4	9.6	92	14.7	TB09089635	TB09132068	23.32	24.30	ferrigenous chert and mafic volcanic
H754574	TL09-001	<0.2	0.205	0.03	<0.1	110	4.4	10.9	89	18.1	TB09089635	TB09132068	24.30	25.20	ferrigenous chert and mafic volcanic
H754575	TL09-001	0.2	0.487	<0.02	<0.1	219	3.3	14.8	103	29.1	TB09089635	TB09132068	25.20	26.70	ferrigenous chert and mafic volcanic
H754576	TL09-001	0.2	0.418	0.02	0.1	196	2.1	16.5	115	25.5	TB09089635	TB09132068	26.70	28.20	ferrigenous chert and mafic volcanic
H754577	TL09-001	0.2	0.476	<0.02	0.1	219	0.6	19.1	119	30.9	TB09089635	TB09132068	28.20	29.70	ferrigenous chert and mafic volcanic
H754578	TL09-001	0.3	0.564	<0.02	0.1	252	4.4	19.7	109	37.3	TB09089635	TB09132068	29.70	31.00	ferrigenous chert and mafic volcanic
H754579	TL09-001	0.2	0.421	0.04	0.1	193	20.5	17.4	106	21	TB09089635	TB09132068	31.00	32.35	ferrigenous chert and mafic volcanic
H754580	TL09-001	0.3	0.558	0.02	0.1	270	3	19.1	89	22.5	TB09089635	TB09132068	32.35	33.00	ferrigenous chert and mafic volcanic
H754581	TL09-001	0.3	0.596	0.02	0.1	275	3.3	23.4	114	31.6	TB09089635	TB09132068	33.00	34.50	Mafic volcanic
H754582	TL09-001	1	0.355	0.02	0.3	138	0.8	20.5	112	52.5	TB09089635	TB09132068	34.50	35.38	Mafic volcanic
H754583	TL09-001	0.3	0.646	0.1	0.1	294	0.7	25.7	117	31	TB09089635	TB09132068	35.38	36.16	Mafic volcanic
H754584	TL09-001	0.3	0.63	0.05	0.1	284	0.7	28.7	109	35.8	TB09089635	TB09132068	36.16	37.60	Mafic volcanic
H754585	TL09-001	0.3	0.653	0.15	0.1	278	0.5	21.1	77	29.1	TB09089635	TB09132068	37.60	38.60	Mafic volcanic
H754586	TL09-001	0.4	0.682	0.04	0.1	307	1.1	24.3	110	31	TB09089635	TB09132068	38.60	39.80	Mafic volcanic
H754587	TL09-001	0.4	0.747	0.33	0.1	322	17.1	23.1	113	30.1	TB09089635	TB09132068	39.80	40.20	Mafic volcanic
H754588	TL09-001	<0.2	0.071	0.02	<0.1	66	5.5	10.1	83	15.3	TB09089635	TB09132068	40.20	40.50	Mafic volcanic
H754589	TL09-001	0.3	0.597	0.04	0.1	283	1.5	23.4	113	22.3	TB09089635	TB09132068	40.50	41.84	Mafic volcanic
H754590	TL09-001	0.3	0.567	0.16	0.1	270	2.6	23	109	25.1	TB09089635	TB09132068	41.84	43.03	Mafic volcanic
H754591	TL09-001	0.3	0.578	0.08	0.1	272	0.7	23.6	114	22.1	TB09089635	TB09132068	43.03	43.79	Mafic volcanic
H754592	TL09-001	0.5	0.574	0.11	0.1	253	6.7	24.1	96	28.4	TB09089635	TB09132068	43.79	44.96	Mafic volcanic
H754593	TL09-001	0.5	0.534	0.18	0.1	239	27.1	22.4	111	38.5	TB09089635	TB09132068	44.96	46.29	Mafic volcanic
H754595	TL09-001	0.3	0.635	0.03	0.2	287	5.8	22.5	108	30.4	TB09089635	TB09132068	46.29	47.55	Mafic volcanic
H754596	TL09-001	0.3	0.611	0.12	0.1	263	19	26.3	98	35	TB09089635	TB09132068	47.55	48.47	Mafic volcanic
H754597	TL09-001	0.4	0.724	0.06	0.1	332	1.7	28.6	117	20	TB09089635	TB09132068	48.47	49.43	Mafic volcanic
H754598	TL09-001	0.3	0.613	0.12	0.1	284	1.3	23.7	111	14.6	TB09089635	TB09132068	49.43	49.76	Mafic volcanic

sample	hole	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	assay Certificate	geochem Certificate2	from	to	rock type
H754599	TL09-001	0.3	0.814	0.15	0.1	379	1.5	25.3	123	24.1	TB09089635	TB09132068	49.76	50.95	Mafic volcanic
H754600	TL09-001	0.3	0.725	0.12	0.1	341	4.8	27.4	124	24.7	TB09089635	TB09132068	50.95	52.21	Mafic volcanic
H754601	TL09-001	<0.2	0.196	<0.02	0.1	151	3.9	16.8	105	21.1	TB09089635	TB09132068	52.21	52.57	Mafic volcanic
H754602	TL09-001	0.4	0.709	0.05	0.1	330	2.4	22.9	125	19.5	TB09089635	TB09132068	52.57	53.65	Mafic volcanic
H754603	TL09-001	0.3	0.672	0.22	0.1	268	30.1	23.9	117	26.6	TB09089635	TB09132068	53.65	54.07	Mafic volcanic
H754604	TL09-001	0.3	0.569	0.29	0.1	234	25.5	16.9	99	26.3	TB09089635	TB09132068	54.07	55.39	Mafic volcanic
H754605	TL09-001	0.3	0.661	0.05	0.1	299	2.7	24.2	126	19.3	TB09089635	TB09132068	55.39	56.44	Mafic volcanic
H754606	TL09-001	0.3	0.604	0.08	0.1	279	26.2	24.2	107	28.3	TB09089635	TB09132068	56.44	57.94	Mafic volcanic
H754607	TL09-001	0.3	0.642	0.12	0.1	281	15	22.4	100	36.6	TB09089635	TB09132068	57.94	59.20	Mafic volcanic
H754608	TL09-001	2	0.414	0.13	0.6	167	17.7	12.5	71	69.4	TB09089635	TB09132068	59.20	60.38	Mafic volcanic
H754609	TL09-001	2.8	0.318	0.3	0.9	107	1.7	9.8	55	98.1	TB09089635	TB09132068	60.38	61.88	bt diorite
H754610	TL09-001	2.8	0.342	0.29	0.9	120	7.6	9.6	55	96.6	TB09089635	TB09132068	61.88	63.00	bt diorite
H754611	TL09-001	3	0.326	0.26	0.8	120	24	9.6	58	89.7	TB09089635	TB09132068	63.00	63.92	bt diorite
H754612	TL09-001	1.2	0.419	0.1	0.3	188	9.7	16.6	91	45.3	TB09089635	TB09132068	63.92	64.60	mafic volcanic
H754613	TL09-001	0.3	0.601	<0.02	0.1	275	0.9	21.3	107	33.9	TB09089635	TB09132068	64.60	66.00	mafic volcanic
H754614	TL09-001	0.4	0.627	0.02	0.2	285	0.7	22.6	105	34.5	TB09089635	TB09132068	66.00	66.65	mafic volcanic
H754615	TL09-001	3.4	0.238	0.16	1	61	0.3	6.6	41	86.2	TB09089635	TB09132068	66.65	67.80	fp diorite
H754616	TL09-001	3.4	0.418	0.47	1	215	4.5	16.4	92	61.9	TB09089635	TB09132068	67.80	69.14	fp diorite
H754617	TL09-001	4.5	0.334	0.54	1.3	177	0.7	15	84	71.8	TB09089635	TB09132068	69.14	70.25	bt diorite
H754618	TL09-001	4.2	0.311	0.58	1.2	178	0.9	15.6	86	72.3	TB09089635	TB09132068	70.25	71.50	bt diorite
H754619	TL09-001	3.6	0.356	0.5	1	197	4.5	15.6	90	64.5	TB09089635	TB09132068	71.50	72.71	bt diorite
H754620	TL09-001	0.4	0.616	0.06	0.1	274	1.4	21	96	31.7	TB09089635	TB09132068	72.71	74.21	mafic volcanic
H754622	TL09-001	0.3	0.516	0.04	0.1	239	0.7	19.6	97	18.6	TB09089635	TB09132068	74.21	75.71	mafic volcanic
H754623	TL09-001	0.3	0.54	0.02	0.1	245	1	19	100	24.1	TB09089635	TB09132068	75.71	76.40	mafic volcanic
H754624	TL09-001	0.2	0.491	0.08	0.1	223	1.1	18.9	95	25.9	TB09089635	TB09132068	76.40	77.90	mafic volcanic
H754625	TL09-001	0.2	0.401	0.04	0.1	182	1.8	16.9	84	25	TB09089635	TB09132068	77.90	79.40	mafic volcanic
H754626	TL09-001	0.4	0.432	0.16	0.1	190	35.6	16.6	105	23.3	TB09092810	TB09131519	79.40	80.23	ferrigenous chert and mafic volcanic
H754627	TL09-001	0.2	0.169	0.02	0.1	87	5.4	10.6	90	26.1	TB09092810	TB09131519	80.23	81.20	ferrigenous chert and mafic volcanic
H754628	TL09-001	0.5	0.131	0.08	0.1	54	4.4	8	83	35.7	TB09092810	TB09131519	81.20	82.05	ferrigenous chert and mafic volcanic
H754629	TL09-001	2	0.415	0.24	0.5	175	12.9	14.8	81	59.7	TB09092810	TB09131519	82.05	82.83	ferrigenous chert and mafic volcanic
H754630	TL09-001	0.3	0.595	0.03	0.1	267	1.6	20.1	106	32.7	TB09092810	TB09131519	82.83	84.51	mafic metavolcanic
H754631	TL09-001	0.3	0.593	<0.02	0.1	275	0.6	23.4	120	36.3	TB09092810	TB09131519	84.51	85.04	mafic metavolcanic
H754632	TL09-001	0.3	0.611	<0.02	0.1	278	0.9	21.7	106	32	TB09092810	TB09131519	85.04	86.29	mafic metavolcanic
H754633	TL09-001	0.3	0.606	<0.02	0.1	276	0.6	23	118	35.6	TB09092810	TB09131519	86.29	87.35	mafic metavolcanic
H754634	TL09-001	0.2	0.53	0.05	0.1	239	2.6	18.7	105	19.1	TB09092810	TB09131519	87.35	87.65	mafic metavolcanic
H754635	TL09-001	0.3	0.601	0.02	0.1	275	0.8	23	105	19.3	TB09092810	TB09131519	87.65	88.67	mafic metavolcanic
H754636	TL09-001	0.2	0.505	0.05	0.1	225	2.8	21.2	82	25.8	TB09092810	TB09131519	88.67	89.00	mafic metavolcanic
H754637	TL09-001	0.3	0.622	0.02	0.1	285	0.8	24.3	119	38.4	TB09092810	TB09131519	89.00	89.88	mafic metavolcanic
H754642	TL09-001	2.3	0.36	0.25	0.6	109	1.6	15.8	132	91.4	TB09092810	TB09131519	89.88	90.75	fp diorite
H754638	TL09-001	3	0.36	0.17	0.7	82	0.5	18.3	85	122	TB09092810	TB09131519	90.75	91.93	fp diorite
H754639	TL09-001	0.3	0.639	0.02	0.1	300	0.4	24.4	102	35.4	TB09092810	TB09131519	91.93	93.43	mafic metavolcanic
H754640	TL09-001	0.3	0.683	<0.02	0.1	314	0.5	23.5	108	42.2	TB09092810	TB09131519	93.43	94.93	mafic metavolcanic
H754641	TL09-001	0.3	0.618	0.03	0.1	298	0.8	23.8	102	34.9	TB09092810	TB09131519	94.93	96.43	mafic metavolcanic
H754643	TL09-001	0.9	0.602	0.13	0.2	278	0.8	23.5	77	60.4	TB09092810	TB09131519	96.43	97.33	mafic metavolcanic
H754644	TL09-001	2.4	0.321	0.28	0.5	89	0.5	14.3	67	94.2	TB09092810	TB09131519	97.33	98.93	mafic metavolcanic
H754645	TL09-001	0.4	0.441	0.06	0.1	208	2.2	17.5	83	28.1	TB09092810	TB09131519	98.93	99.95	mafic metavolcanic
H754647	TL09-001	0.6	0.536	0.02	0.1	252	1	20.9	100	27.6	TB09092810	TB09131519	99.95	101.45	mafic metavolcanic

Partial Geochemistry

sample	hole	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	assay Certificate	geochem Certificate2	from	to	rock type
H754648	TL09-001	0.6	0.533	0.03	0.1	256	0.8	20.9	104	35.4	TB09092810	TB09131519	101.45	102.95	mafic metavolcanic
H754649	TL09-001	2	0.439	0.09	0.5	209	0.6	16.8	92	51.6	TB09092810	TB09131519	102.95	104.21	mafic metavolcanic
H754650	TL09-001	0.3	0.517	0.12	0.1	249	1.1	24	92	25.8	TB09092810	TB09131519	104.21	104.97	mafic metavolcanic
H754651	TL09-001	1.7	0.415	0.11	0.4	197	0.5	15.7	98	54.2	TB09092810	TB09131519	104.97	106.35	mafic metavolcanic
H754652	TL09-001	1.3	0.467	0.13	0.3	220	0.9	18.2	101	38.7	TB09092810	TB09131519	106.35	107.88	mafic metavolcanic
H754653	TL09-001	0.5	0.409	0.38	0.1	185	1.8	15.7	123	20.9	TB09092810	TB09131519	107.88	108.24	mafic metavolcanic
H754654	TL09-001	0.2	0.489	0.04	0.1	240	0.8	19.4	103	27.5	TB09092810	TB09131519	108.24	109.46	mafic metavolcanic
H754655	TL09-001	0.8	0.439	0.12	0.2	206	1.8	16.7	92	27	TB09092810	TB09131519	109.46	110.00	mafic metavolcanic
H754656	TL09-001	1.7	0.422	0.1	0.4	202	0.6	16.9	80	51.6	TB09092810	TB09131519	110.00	111.50	mafic metavolcanic
H754657	TL09-001	2.2	0.428	0.19	0.5	199	0.5	15.7	85	59	TB09092810	TB09131519	111.50	112.72	mafic metavolcanic
H754658	TL09-001	5.1	0.268	0.36	1.3	65	0.3	8.6	50	113	TB09092810	TB09131519	112.72	113.17	mafic metavolcanic
H754659	TL09-001	3.2	0.364	0.17	0.7	158	2.9	11.9	96	73.4	TB09092810	TB09131519	113.17	113.90	mafic metavolcanic
H754660	TL09-001	3.4	0.341	0.15	0.8	154	0.4	11.5	79	77.1	TB09092810	TB09131519	113.90	115.40	mafic metavolcanic
H754661	TL09-001	2.3	0.417	0.15	0.6	190	1	14.6	83	61	TB09092810	TB09131519	115.40	116.78	mafic metavolcanic
H754662	TL09-001	3.6	0.359	0.26	0.9	168	1.9	12.6	85	80.7	TB09092810	TB09131519	116.78	117.31	mafic metavolcanic
H754663	TL09-001	2.3	0.436	0.3	0.6	201	4	15.9	96	59.7	TB09092810	TB09131519	117.31	118.20	mafic metavolcanic
H754664	TL09-001	6.4	0.238	0.21	1.7	68	7.2	8.7	44	117.5	TB09092810	TB09131519	118.20	119.66	fp diorite
H754665	TL09-001	2.7	0.342	0.13	0.6	160	0.8	12.6	85	62.9	TB09092810	TB09131519	119.66	121.16	mafic metavolcanic
H754666	TL09-001	1.6	0.421	0.11	0.4	195	2.2	16.5	87	32.1	TB09092810	TB09131519	121.16	122.14	mafic metavolcanic
H754667	TL09-001	1.2	0.446	0.42	0.3	192	29.3	15.8	82	46.4	TB09092810	TB09131519	122.14	122.50	mafic metavolcanic
H754668	TL09-001	7.6	0.2	0.34	2	61	8.7	13.3	46	144	TB09092810	TB09131519	122.50	123.05	mafic metavolcanic
H754669	TL09-001	5.3	0.293	0.45	1.4	118	3	11.1	83	108	TB09092810	TB09131519	123.05	124.55	mafic metavolcanic
H754670	TL09-001	2.7	0.37	0.53	0.6	159	8	13.8	88	73.7	TB09092810	TB09131519	124.55	125.72	mafic metavolcanic
H754672	TL09-001	6.2	0.282	0.38	1.7	93	0.6	10.8	68	114.5	TB09092810	TB09131519	125.72	127.22	fp diorite
H754673	TL09-001	6.4	0.28	0.41	1.7	92	0.6	10.5	75	115.5	TB09092810	TB09131519	127.22	128.72	fp diorite
H754674	TL09-001	6.1	0.281	0.35	1.6	93	1.7	10.5	73	116.5	TB09092810	TB09131519	128.72	129.60	mafic metavolcanic
H754675	TL09-001	0.8	0.467	0.31	0.2	219	3.5	18.3	105	38.6	TB09092810	TB09131519	129.60	130.54	bt diorite
H754676	TL09-001	6.9	0.285	0.61	1.9	116	1	12.8	78	129.5	TB09092810	TB09131519	130.54	132.04	bt diorite
H754677	TL09-001	6.4	0.28	0.61	1.7	114	0.9	12.5	70	120	TB09092810	TB09131519	132.04	133.54	fp diorite
H754678	TL09-001	5.2	0.305	0.55	1.3	122	0.7	11.5	75	108.5	TB09092810	TB09131519	133.54	135.00	fp diorite
H754679	TL09-001	4.8	0.312	0.46	1.2	123	0.6	10.9	86	103.5	TB09092810	TB09131519	135.00	135.66	fp diorite
H754680	TL09-001	4.4	0.375	0.46	1.2	129	0.5	12.8	62	98.5	TB09092810	TB09131519	135.66	135.94	fp diorite
H754681	TL09-001	4	0.311	0.18	0.9	74	0.4	9.3	45	110	TB09092810	TB09131519	135.94	137.12	fp diorite
H754682	TL09-001	4.4	0.44	0.39	1.2	204	0.8	17.8	110	80.5	TB09092810	TB09131519	137.12	137.68	mafic metavolcanic
H754683	TL09-001	4.2	0.36	0.17	1	88	0.7	10.4	57	114	TB09092810	TB09131519	137.68	139.00	mafic metavolcanic
H754684	TL09-001	5.1	0.35	0.21	1.2	97	0.5	11.3	64	120.5	TB09092810	TB09131519	139.00	140.33	mafic metavolcanic
H754685	TL09-001	4.5	0.396	0.48	1.1	148	9.9	13.1	92	100.5	TB09092810	TB09131519	140.33	140.87	mafic metavolcanic
H754686	TL09-001	6.7	0.308	0.42	1.8	128	1.4	13.3	90	125	TB09092810	TB09131519	140.87	142.30	mafic metavolcanic
H754687	TL09-001	6.6	0.271	0.52	1.7	111	3	11.8	76	121	TB09092810	TB09131519	142.30	143.80	mafic metavolcanic
H754688	TL09-001	6.9	0.279	0.52	1.9	119	4.1	11.6	81	130	TB09092810	TB09131519	143.80	145.38	mafic metavolcanic
H754689	TL09-001	4.9	0.256	0.32	1.3	68	2	8	43	108.5	TB09092810	TB09131519	145.38	145.70	mafic metavolcanic
H754690	TL09-001	4.9	0.301	0.43	1.3	96	1.7	10	62	111	TB09092810	TB09131519	145.70	146.60	mafic metavolcanic
H754691	TL09-001	4	0.274	0.28	0.9	67	4.6	7.7	49	106.5	TB09092810	TB09131519	146.60	148.10	fp diorite
H754692	TL09-001	4.4	0.303	0.26	1	77	0.3	9.3	61	117	TB09092810	TB09131519	148.10	149.60	fp diorite
H754693	TL09-001	4.1	0.303	0.27	1	76	0.2	8.8	61	115	TB09092810	TB09131519	149.60	151.00	fp diorite
H754694	TL09-002	0.3	0.514	<0.02	0.1	235	0.2	23	82	35.4	TB09092810	TB09131519	1.38	2.88	mafic metavolcanic
H754695	TL09-002	0.2	0.498	0.02	<0.1	233	0.2	21.2	86	33.2	TB09092810	TB09131519	2.88	4.38	mafic metavolcanic

sample	hole	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	assay Certificate	geochem Certificate2	from	to	rock type
H754697	TL09-002	0.3	0.492	0.11	0.1	250	0.3	22.1	92	32.7	TB09092810	TB09131519	4.38	5.75	mafic metavolcanic
H754698	TL09-002	6	0.285	0.38	1.6	95	0.6	10.6	75	110.5	TB09092810	TB09131519	5.75	7.25	fp diorite
H754699	TL09-002	6.1	0.276	0.37	1.7	91	0.6	10.3	68	113	TB09092810	TB09131519	7.25	8.50	fp diorite
H754700	TL09-002	0.3	0.497	0.14	0.1	248	0.4	20.2	91	31	TB09092810	TB09131519	8.50	10.00	mafic metavolcanic
H754701	TL09-002	0.3	0.498	0.06	0.1	241	0.3	23.1	96	36.2	TB09092810	TB09131519	10.00	11.50	mafic metavolcanic
H754702	TL09-002	0.3	0.546	0.02	0.1	261	0.3	24	97	41.6	TB09092810	TB09131519	11.50	12.65	mafic metavolcanic
H754703	TL09-002	0.2	0.438	<0.02	0.1	203	0.2	17.9	91	25.4	TB09092810	TB09131519	12.65	13.00	mafic metavolcanic
H754704	TL09-002	0.2	0.532	<0.02	0.1	257	0.2	22.6	93	39	TB09092810	TB09131519	13.00	14.00	mafic metavolcanic
H754705	TL09-002	0.4	0.544	0.03	0.1	259	0.1	24.5	99	41.6	TB09092810	TB09131519	14.00	15.00	mafic metavolcanic
H754706	TL09-002	4.6	0.235	0.34	1.3	39	0.3	8.8	64	103.5	TB09092810	TB09131519	15.00	16.50	fp diorite
H754707	TL09-002	4.1	0.23	0.31	1.2	39	0.4	8.4	62	103.5	TB09092810	TB09131519	16.50	18.00	fp diorite
H754708	TL09-002	4.4	0.244	0.35	1.3	41	0.3	8.8	68	105.5	TB09092810	TB09131519	18.00	19.60	fp diorite
H754709	TL09-002	1.2	0.284	0.43	0.3	78	0.3	11.7	133	67.1	TB09092810	TB09131519	19.60	20.18	mafic metavolcanic
H754710	TL09-002	0.3	0.516	0.02	0.1	250	0.4	22.5	88	32.4	TB09092810	TB09131519	20.18	21.83	mafic metavolcanic
H754711	TL09-002	0.3	0.503	0.02	0.1	247	0.2	19.7	93	35.4	TB09092810	TB09131519	21.83	23.33	mafic metavolcanic
H754712	TL09-002	0.3	0.528	<0.02	0.1	258	0.2	20.1	94	37.8	TB09092810	TB09131519	23.33	24.83	mafic metavolcanic
H754713	TL09-002	0.2	0.508	<0.02	0.1	248	0.2	19.5	92	34.5	TB09092810	TB09131519	24.83	26.38	mafic metavolcanic
H754714	TL09-002	0.3	0.513	<0.02	0.1	249	0.2	20	102	29.6	TB09092810	TB09131519	26.38	27.83	mafic metavolcanic
H754715	TL09-002	0.6	0.507	<0.02	0.1	238	0.2	19.7	92	37.9	TB09092810	TB09131519	27.83	29.38	mafic metavolcanic
H754716	TL09-002	0.2	0.523	<0.02	0.1	255	0.2	20.1	95	35.5	TB09092810	TB09131519	29.38	30.88	mafic metavolcanic
H754717	TL09-002	0.3	0.509	<0.02	0.1	250	0.3	20.6	90	34	TB09092810	TB09131519	30.88	32.38	mafic metavolcanic
H754718	TL09-002	0.3	0.53	<0.02	0.1	260	0.4	20.6	95	32.9	TB09092810	TB09131519	32.38	33.88	mafic metavolcanic
H754719	TL09-002	0.2	0.494	<0.02	0.1	242	0.4	19.4	89	27.5	TB09092810	TB09131519	33.88	35.38	mafic metavolcanic
H754720	TL09-002	0.2	0.468	<0.02	<0.1	227	0.4	19.4	86	25.7	TB09092810	TB09131519	35.38	36.14	mafic metavolcanic
H754722	TL09-002	0.2	0.467	<0.02	<0.1	227	0.4	19.4	82	22.1	TB09092810	TB09131519	36.14	37.41	mafic metavolcanic
H754723	TL09-002	0.2	0.507	<0.02	0.1	247	0.6	19.2	88	28.5	TB09092810	TB09131519	37.41	38.91	mafic metavolcanic
H754724	TL09-002	0.2	0.503	<0.02	0.1	244	0.4	19.7	92	29.9	TB09092810	TB09131519	38.91	40.43	mafic metavolcanic
H754725	TL09-002	0.2	0.511	<0.02	0.1	246	0.3	19.1	91	30.4	TB09092810	TB09131519	40.43	41.93	mafic metavolcanic
H754726	TL09-002	0.2	0.504	<0.02	0.1	244	0.3	19.6	88	36.6	TB09092810	TB09131519	41.93	43.43	mafic metavolcanic
H754727	TL09-002	0.2	0.506	<0.02	0.1	245	0.6	19.3	91	33.6	TB09092810	TB09131519	43.43	44.93	mafic metavolcanic
H754728	TL09-002	0.3	0.521	<0.02	0.1	253	0.4	20.1	92	33.2	TB09092810	TB09131519	44.93	46.43	mafic metavolcanic
H754729	TL09-002	0.2	0.477	<0.02	<0.1	232	0.2	17.9	90	26.4	TB09092810	TB09131519	46.43	47.93	mafic metavolcanic
H754730	TL09-002	0.2	0.505	<0.02	0.1	246	0.2	18.9	90	31.2	TB09092810	TB09131519	47.93	49.43	mafic metavolcanic
H754731	TL09-002	0.2	0.483	<0.02	0.1	234	0.3	18.5	94	24.4	TB09092810	TB09131519	49.43	50.93	mafic metavolcanic
H754732	TL09-002	0.2	0.487	<0.02	<0.1	236	0.2	18.7	87	27	TB09092810	TB09131519	50.93	52.43	mafic metavolcanic
H754733	TL09-002	0.3	0.487	<0.02	0.1	238	0.4	17.5	100	24.1	TB09095365	TB09130996	52.43	53.93	mafic metavolcanic
H754734	TL09-002	0.3	0.457	0.07	0.1	224	0.4	20.4	100	21.2	TB09095365	TB09130996	53.93	55.43	mafic metavolcanic
H754735	TL09-002	0.2	0.431	0.02	0.1	211	0.4	17.2	73	9.8	TB09095365	TB09130996	55.43	56.93	mafic metavolcanic
H754736	TL09-002	0.2	0.438	0.02	0.1	217	0.5	16.1	74	18.6	TB09095365	TB09130996	56.93	57.49	mafic metavolcanic
H754737	TL09-002	0.2	0.386	0.26	<0.1	183	5	15.5	89	18.2	TB09095365	TB09130996	57.49	57.79	mafic metavolcanic
H754738	TL09-002	0.2	0.519	0.06	0.1	256	1.3	18.3	102	24	TB09095365	TB09130996	57.79	58.44	mafic metavolcanic
H754739	TL09-002	1	0.412	0.45	0.2	190	2.5	17.2	79	30	TB09095365	TB09130996	58.44	59.34	mafic metavolcanic
H754740	TL09-002	5.3	0.379	0.3	1.3	147	0.5	12.6	97	85.7	TB09095365	TB09130996	59.34	60.07	mafic metavolcanic
H754741	TL09-002	4.8	0.217	0.28	1.7	65	0.6	7	54	104.5	TB09095365	TB09130996	60.07	61.57	fp diorite
H754742	TL09-002	5.1	0.216	0.29	1.6	66	0.9	7.3	56	99.8	TB09095365	TB09130996	61.57	63.07	fp diorite
H754743	TL09-002	5.5	0.23	0.28	1.8	70	0.7	8.2	59	105.5	TB09095365	TB09130996	63.07	64.57	fp diorite
H754744	TL09-002	5.2	0.216	0.28	1.7	65	0.5	7.4	54	104	TB09095365	TB09130996	64.57	65.40	fp diorite

Partial Geochemistry

sample	hole	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	assay Certificate	geochem Certificate2	from	to	rock type
H754745	TL09-002	4.3	0.21	0.32	1.4	70	0.3	7.3	50	83	TB09095365	TB09130996	65.40	65.94	fp diorite
H754747	TL09-002	5.4	0.366	0.42	1.2	152	0.3	12.4	99	82.9	TB09095365	TB09130996	65.94	66.70	mafic metavolcanic
H754748	TL09-002	0.5	0.413	0.19	0.1	201	0.4	17.5	73	23.2	TB09095365	TB09130996	66.70	67.35	mafic metavolcanic
H754749	TL09-002	0.3	0.488	<0.02	0.1	242	0.5	19.9	88	26.3	TB09095365	TB09130996	67.35	68.85	mafic metavolcanic
H754750	TL09-002	0.3	0.512	<0.02	0.1	249	0.3	21.3	89	21	TB09095365	TB09130996	68.85	70.00	mafic metavolcanic
H754751	TL09-002	0.2	0.461	<0.02	0.1	230	0.2	20.9	91	28.7	TB09095365	TB09130996	70.00	70.38	mafic metavolcanic
H754752	TL09-002	0.2	0.527	<0.02	0.1	261	0.4	20.4	95	21.2	TB09095365	TB09130996	70.38	71.88	mafic metavolcanic
H754753	TL09-002	0.3	0.508	<0.02	0.1	247	0.5	21.3	97	31.8	TB09095365	TB09130996	71.88	72.27	mafic metavolcanic
H754754	TL09-002	0.2	0.502	<0.02	0.1	247	0.5	18.5	112	20.8	TB09095365	TB09130996	72.27	73.77	mafic metavolcanic
H754755	TL09-002	0.3	0.531	<0.02	0.1	262	0.5	21.6	111	32.5	TB09095365	TB09130996	73.77	74.77	mafic metavolcanic
H754756	TL09-002	0.2	0.379	<0.02	<0.1	208	0.4	22.9	215	15.5	TB09095365	TB09130996	74.77	75.54	mafic metavolcanic
H754757	TL09-002	0.2	0.508	<0.02	<0.1	251	0.3	18.7	107	25.3	TB09095365	TB09130996	75.54	77.04	mafic metavolcanic
H754758	TL09-002	0.3	0.498	<0.02	0.1	244	0.3	22.9	106	22.3	TB09095365	TB09130996	77.04	78.54	mafic metavolcanic
H754759	TL09-002	0.3	0.526	<0.02	0.1	256	0.4	21.2	87	27.9	TB09095365	TB09130996	78.54	79.13	mafic metavolcanic
H754760	TL09-002	0.2	0.461	<0.02	<0.1	224	0.4	19.2	92	21.8	TB09095365	TB09130996	79.13	79.88	mafic metavolcanic
H754761	TL09-002	0.2	0.543	<0.02	0.1	266	0.7	19	105	29.4	TB09095365	TB09130996	79.88	81.21	mafic metavolcanic
H754762	TL09-002	0.2	0.491	<0.02	<0.1	235	0.7	19.6	93	13.2	TB09095365	TB09130996	81.21	81.75	mafic metavolcanic
H754763	TL09-002	0.2	0.517	<0.02	0.1	255	0.5	19.7	100	26.3	TB09095365	TB09130996	81.75	83.25	mafic metavolcanic
H754764	TL09-002	0.2	0.565	<0.02	0.1	281	0.2	21.1	90	22.3	TB09095365	TB09130996	83.25	84.00	mafic metavolcanic
H754765	TL09-002	0.2	0.385	<0.02	<0.1	195	0.4	19.3	96	8.9	TB09095365	TB09130996	84.00	84.30	mafic metavolcanic
H754766	TL09-002	0.2	0.561	0.02	0.1	274	0.3	19.7	92	22.8	TB09095365	TB09130996	84.30	85.80	mafic metavolcanic
H754767	TL09-002	0.2	0.559	<0.02	0.1	295	0.4	21.6	95	28.3	TB09095365	TB09130996	85.80	86.15	mafic metavolcanic
H754768	TL09-002	0.3	0.556	<0.02	0.1	269	0.3	22.1	88	19	TB09095365	TB09130996	86.15	87.65	mafic metavolcanic
H754769	TL09-002	0.2	0.579	0.02	0.1	285	0.6	20.3	84	26.2	TB09095365	TB09130996	87.65	88.78	mafic metavolcanic
H754770	TL09-002	3.7	0.521	0.49	1.2	135	2.2	13.9	95	100.5	TB09095365	TB09130996	88.78	90.46	bt diorite
H754772	TL09-002	0.2	0.523	<0.02	0.1	256	0.5	20	97	27.1	TB09095365	TB09130996	90.46	91.96	mafic metavolcanic
H754773	TL09-002	0.2	0.516	<0.02	0.1	254	0.7	19.9	98	29.7	TB09095365	TB09130996	91.96	93.46	mafic metavolcanic
H754774	TL09-002	0.2	0.546	<0.02	0.1	268	0.6	20.4	90	38	TB09095365	TB09130996	93.46	94.96	mafic metavolcanic
H754775	TL09-002	0.3	0.544	<0.02	0.1	265	0.6	22.4	96	24.9	TB09095365	TB09130996	94.96	95.69	mafic metavolcanic
H754776	TL09-002	0.2	0.443	0.04	0.1	219	0.6	21.2	82	24.8	TB09095365	TB09130996	95.69	96.54	mafic metavolcanic
H754777	TL09-002	2	0.53	0.15	0.6	261	0.6	20.4	96	52.3	TB09095365	TB09130996	96.54	97.29	mafic metavolcanic
H754778	TL09-002	0.7	0.504	0.36	0.2	247	0.9	20.6	87	26.3	TB09095365	TB09130996	97.29	97.97	mafic metavolcanic
H754779	TL09-002	8.2	0.41	0.67	2.5	176	0.6	18.8	80	133.5	TB09095365	TB09130996	97.97	99.47	bt diorite
H754780	TL09-002	8	0.392	0.71	2.4	168	0.6	17.7	78	137	TB09095365	TB09130996	99.47	100.97	bt diorite
H754781	TL09-002	9.8	0.481	0.66	2.7	210	0.7	23.2	92	140	TB09095365	TB09130996	100.97	101.77	bt diorite
H754782	TL09-002	0.3	0.563	0.12	0.1	277	0.9	20.7	100	27	TB09095365	TB09130996	101.77	102.49	mafic metavolcanic
H754783	TL09-002	0.2	0.445	0.16	0.1	219	0.5	18.6	91	25.1	TB09095365	TB09130996	102.49	102.89	mafic metavolcanic
H754784	TL09-002	0.2	0.459	<0.02	0.1	226	0.5	18.7	90	24.5	TB09095365	TB09130996	102.89	104.39	mafic metavolcanic
H754785	TL09-002	0.3	0.571	0.02	0.1	273	0.5	21.9	93	34	TB09095365	TB09130996	104.39	105.89	mafic metavolcanic
H754786	TL09-002	0.2	0.538	<0.02	0.1	261	0.5	21.9	99	25.3	TB09095365	TB09130996	105.89	107.39	mafic metavolcanic
H754787	TL09-002	0.3	0.559	<0.02	0.1	278	0.6	22.7	93	40.1	TB09095365	TB09130996	107.39	108.89	mafic metavolcanic
H754788	TL09-002	0.2	0.518	<0.02	0.1	254	0.8	23.7	101	32.1	TB09095365	TB09130996	108.89	110.11	mafic metavolcanic
H754789	TL09-002	0.6	0.546	0.08	0.1	240	2.1	21.3	111	23.3	TB09095365	TB09130996	110.11	110.96	mafic metavolcanic
H754790	TL09-002	0.3	0.571	0.1	0.1	271	0.8	23.3	87	33	TB09095365	TB09130996	110.96	112.46	mafic metavolcanic
H754791	TL09-002	0.3	0.556	0.05	0.1	260	3.2	24	88	32.2	TB09095365	TB09130996	112.46	113.30	mafic metavolcanic
H754792	TL09-002	0.3	0.538	0.05	0.1	253	1	21.8	90	27.4	TB09095365	TB09130996	113.30	114.24	mafic metavolcanic
H754793	TL09-002	0.3	0.483	0.09	0.1	227	2.8	18.8	96	21.1	TB09095365	TB09130996	114.24	115.74	mafic metavolcanic

Partial Geochemistry

sample	hole	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	assay Certificate	geochem Certificate2	from	to	rock type
H754794	TL09-002	0.2	0.528	<0.02	0.1	256	1.9	18.7	94	16	TB09095365	TB09130996	115.74	116.64	mafic metavolcanic
H754795	TL09-002	0.3	0.548	<0.02	0.1	262	3.5	21.8	91	29.5	TB09095365	TB09130996	116.64	118.14	mafic metavolcanic
H754797	TL09-002	0.2	0.502	<0.02	0.1	247	0.5	19.5	93	18.9	TB09095365	TB09130996	118.14	119.24	mafic metavolcanic
H754798	TL09-002	0.2	0.551	<0.02	0.1	270	0.7	21	100	25.7	TB09095365	TB09130996	119.24	120.83	mafic metavolcanic
H754799	TL09-002	0.2	0.494	<0.02	0.1	242	0.9	18.5	90	22.2	TB09095365	TB09130996	120.83	122.33	mafic metavolcanic
H754800	TL09-002	0.3	0.525	<0.02	0.1	251	3.4	21	98	30.1	TB09095365	TB09130996	122.33	123.77	mafic metavolcanic
H754801	TL09-002	0.2	0.512	0.04	0.1	254	23.5	22.5	94	19.2	TB09095365	TB09130996	123.77	124.66	mafic metavolcanic
H754802	TL09-002	2.2	0.418	0.34	0.6	195	20	15.5	78	47.5	TB09095365	TB09130996	124.66	125.23	mafic metavolcanic
H754803	TL09-002	0.2	0.479	0.03	0.1	235	3	16.9	90	19	TB09095365	TB09130996	125.23	126.73	mafic metavolcanic
H754804	TL09-002	0.2	0.503	<0.02	0.1	247	4.5	18.2	91	20.7	TB09095365	TB09130996	126.73	128.00	mafic metavolcanic
H754805	TL09-002	0.2	0.425	0.07	0.1	219	97.9	15.2	205	14.5	TB09095365	TB09130996	128.00	128.48	mafic metavolcanic
H754806	TL09-002	1.5	0.505	0.13	0.4	223	19.3	17.4	86	34.8	TB09095365	TB09130996	128.48	129.77	mafic metavolcanic
H754807	TL09-002	2.7	0.606	0.02	0.7	160	3.8	14.8	68	76.6	TB09095365	TB09130996	129.77	131.15	mafic metavolcanic
H754808	TL09-002	2.1	0.635	0.05	0.5	196	1.9	14.3	80	49.1	TB09095365	TB09130996	131.15	132.40	mafic metavolcanic
H754809	TL09-002	1.9	0.685	0.51	0.4	173	1.5	15.3	86	69.1	TB09095365	TB09130996	132.40	132.86	mafic metavolcanic
H754810	TL09-002	1.7	0.682	0.11	0.5	189	1.6	15.1	105	74.5	TB09095365	TB09130996	132.86	134.02	mafic metavolcanic
H754811	TL09-002	0.7	0.547	0.1	0.2	211	4	15.9	76	38	TB09095365	TB09130996	134.02	134.96	mafic metavolcanic
H754812	TL09-002	0.2	0.46	<0.02	0.3	220	24.1	18.4	107	26.2	TB09095365	TB09130996	134.96	135.81	mafic metavolcanic
H754813	TL09-002	0.3	0.521	<0.02	0.1	250	2.1	19.6	92	25.3	TB09095365	TB09130996	135.81	137.31	mafic metavolcanic
H754814	TL09-002	0.2	0.491	0.02	0.1	248	1.7	15.8	93	28.9	TB09095365	TB09130996	137.31	137.61	mafic metavolcanic
H754815	TL09-002	0.2	0.486	0.14	0.1	243	1	16.1	80	25.3	TB09095365	TB09130996	137.61	139.11	mafic metavolcanic
H754816	TL09-002	0.2	0.474	0.06	<0.1	243	0.9	16.5	82	24.1	TB09095365	TB09130996	139.11	140.61	mafic metavolcanic
H754817	TL09-002	0.2	0.528	<0.02	0.1	260	1.2	18.5	91	24.9	TB09095365	TB09130996	140.61	142.05	mafic metavolcanic
H754818	TL09-002	0.2	0.546	0.04	0.1	261	0.9	20.5	73	35.4	TB09095365	TB09130996	142.05	142.70	mafic metavolcanic
H754819	TL09-002	0.2	0.525	0.16	0.1	242	1	17.6	85	17.8	TB09095365	TB09130996	142.70	144.20	mafic metavolcanic
H754820	TL09-002	0.2	0.465	0.08	0.1	236	1.2	17.1	82	19.8	TB09095365	TB09130996	144.20	145.55	mafic metavolcanic
H754822	TL09-002	0.2	0.514	0.12	0.1	253	1.3	20.3	94	19	TB09095365	TB09130996	145.55	146.04	mafic metavolcanic
H754823	TL09-002	3.8	0.295	0.19	1.1	56	0.7	9.2	54	103.5	TB09095365	TB09130996	146.04	147.35	fp diorite
H754824	TL09-002	0.3	0.538	0.05	0.1	263	0.7	17.9	89	17.8	TB09095365	TB09130996	147.35	148.91	mafic metavolcanic
H754825	TL09-002	0.3	0.566	0.07	0.1	278	0.6	19.6	85	15.5	TB09095365	TB09130996	148.91	150.41	mafic metavolcanic
H754826	TL09-002	0.3	0.585	0.08	0.1	289	0.7	18.2	85	16.6	TB09095365	TB09130996	150.41	151.91	mafic metavolcanic
H754827	TL09-002	0.3	0.54	<0.02	0.1	263	0.6	20.1	94	22.2	TB09095365	TB09130996	151.91	153.41	mafic metavolcanic
H754828	TL09-002	0.3	0.522	<0.02	0.1	251	1.5	21.1	90	31.5	TB09095365	TB09130996	153.41	154.91	mafic metavolcanic
H754829	TL09-002	0.2	0.489	<0.02	0.1	241	1.7	20.7	95	28.3	TB09095365	TB09130996	154.91	156.41	mafic metavolcanic
H754830	TL09-002	0.2	0.508	<0.02	0.1	248	0.6	19.8	97	35.5	TB09095365	TB09130996	156.41	157.00	mafic metavolcanic
H754831	TL09-002	0.5	0.464	0.03	0.1	228	0.6	17.2	85	33.3	TB09095365	TB09130996	157.00	157.77	mafic metavolcanic
H754832	TL09-002	0.7	0.505	0.03	0.2	249	0.5	20.3	95	29.3	TB09095365	TB09130996	157.77	159.27	mafic metavolcanic
H754833	TL09-002	2.5	0.434	0.07	0.6	210	0.4	17	83	55.7	TB09095365	TB09130996	159.27	160.77	mafic metavolcanic
H754834	TL09-002	0.7	0.436	<0.02	0.2	215	0.4	18.7	90	33.1	TB09095365	TB09130996	160.77	161.37	mafic metavolcanic
H754835	TL09-002	0.3	0.514	<0.02	0.1	250	0.5	21	101	36.1	TB09095365	TB09130996	161.37	162.87	mafic metavolcanic
H754836	TL09-002	0.3	0.518	0.02	0.1	251	0.7	21.2	101	32.9	TB09095365	TB09130996	162.87	163.63	mafic metavolcanic
H754837	TL09-002	3.5	0.238	0.28	1.1	40	0.5	7.5	63	101	TB09095365	TB09130996	163.63	165.00	fp diorite
H754838	TL09-002	3.8	0.25	0.3	1.2	46	0.4	8.2	64	102	TB09095365	TB09130996	165.00	165.70	fp diorite
H754839	TL09-002	0.7	0.506	0.06	0.2	246	0.4	19.6	90	41.3	TB09095365	TB09130996	165.70	167.20	mafic metavolcanic
H754840	TL09-002	0.2	0.47	<0.02	0.1	231	0.5	16.8	91	18.6	TB09095365	TB09130996	167.20	168.70	mafic metavolcanic
H754841	TL09-002	0.2	0.468	<0.02	0.1	228	0.4	17.6	95	22.7	TB09095365	TB09130996	168.70	170.20	mafic metavolcanic
H754842	TL09-002	0.2	0.475	<0.02	0.1	233	0.3	18.1	88	23.5	TB09095365	TB09130996	170.20	171.50	mafic metavolcanic

Partial Geochemistry

sample	hole	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	assay Certificate	geochem Certificate2	from	to	rock type
H754843	TL09-002	0.3	0.538	0.03	0.1	261	0.6	19.8	120	27.4	TB09095365	TB09130996	171.50	172.30	mafic metavolcanic
H754844	TL09-002	5.6	0.39	0.18	1.4	107	0.4	10.7	84	101	TB09095365	TB09130996	172.30	173.80	fp diorite
H754845	TL09-002	6	0.382	0.19	1.4	100	0.5	10.6	84	114	TB09095365	TB09130996	173.80	175.30	fp diorite
H754847	TL09-002	5.5	0.373	0.24	1.4	98	0.9	10.2	84	111	TB09095365	TB09130996	175.30	176.00	fp diorite
H754848	TL09-003	4	0.248	0.32	1	74	1.6	9.3	63	78.8	TB09095366	TB09131513	3.13	4.63	quartz diorite
H754849	TL09-003	4.3	0.228	0.28	1.1	63	0.8	8	63	79.2	TB09095366	TB09131513	4.63	6.13	quartz diorite
H754850	TL09-003	5.2	0.224	0.27	1.4	57	2	7.6	56	74.1	TB09095366	TB09131513	6.13	7.63	quartz diorite
H754851	TL09-003	4.7	0.223	0.27	1.3	58	3.4	7	58	68.8	TB09095366	TB09131513	7.63	9.00	quartz diorite
H754852	TL09-003	5.8	0.226	0.25	1.7	58	1	7.9	56	72.7	TB09095366	TB09131513	9.00	9.40	quartz diorite
H754853	TL09-003	5.2	0.206	0.29	2.1	55	1.4	7.4	55	65.4	TB09095366	TB09131513	9.40	10.90	quartz diorite
H754854	TL09-003	5.2	0.213	0.31	2.5	53	1	6.7	54	70.1	TB09095366	TB09131513	10.90	12.00	quartz diorite
H754855	TL09-003	5.4	0.175	0.21	1.5	38	112.5	5.6	46	71.7	TB09095366	TB09131513	12.00	12.55	quartz diorite
H754856	TL09-003	4.3	0.228	0.3	1.5	56	1.5	6.2	54	67.5	TB09095366	TB09131513	12.55	14.05	quartz diorite
H754857	TL09-003	4.7	0.229	0.3	1.3	55	8.5	6.6	57	68.4	TB09095366	TB09131513	14.05	15.12	quartz diorite
H754858	TL09-003	5	0.248	0.31	1.7	62	6.4	7.7	60	70.5	TB09095366	TB09131513	15.12	16.27	quartz diorite
H754859	TL09-003	4.9	0.234	0.27	1.6	51	1	6.8	52	69.1	TB09095366	TB09131513	16.27	17.00	quartz diorite
H754860	TL09-003	5.8	0.245	0.31	2	58	0.5	7.6	59	68.8	TB09095366	TB09131513	17.00	18.00	quartz diorite
H754861	TL09-003	4.2	0.237	0.3	1.3	60	0.6	6.8	54	77	TB09095366	TB09131513	18.00	18.40	quartz diorite
H754862	TL09-003	5.5	0.211	0.26	1.6	51	0.8	6.8	42	87.3	TB09095366	TB09131513	18.40	19.90	quartz diorite
H754863	TL09-003	6.6	0.227	0.33	2	54	2.5	6.9	52	78.7	TB09095366	TB09131513	19.90	21.00	quartz diorite
H754864	TL09-003	6.2	0.231	0.31	1.3	55	0.5	7.6	54	75	TB09095366	TB09131513	21.00	21.81	quartz diorite
H754865	TL09-003	4.2	0.253	0.32	1	61	0.7	7.4	57	75.1	TB09095366	TB09131513	21.81	22.34	quartz diorite
H754866	TL09-003	4.8	0.228	0.3	1.2	53	2.2	6.5	54	74.1	TB09095366	TB09131513	22.34	23.84	quartz diorite
H754867	TL09-003	5.1	0.23	0.28	1.1	55	1.4	7.2	54	77.5	TB09095366	TB09131513	23.84	25.34	quartz diorite
H754868	TL09-003	4.9	0.228	0.27	1.1	54	2.2	6.8	52	80.1	TB09095366	TB09131513	25.34	26.84	quartz diorite
H754869	TL09-003	4.7	0.236	0.28	1.1	57	1.5	7	52	80.1	TB09095366	TB09131513	26.84	28.00	quartz diorite
H754870	TL09-003	4.2	0.239	0.29	1.1	59	5.6	6.5	56	84.2	TB09095366	TB09131513	28.00	29.00	quartz diorite
H754872	TL09-003	3.7	0.229	0.27	1	54	0.8	5.9	49	77.9	TB09095366	TB09131513	29.00	30.00	quartz diorite
H754873	TL09-003	4.4	0.224	0.27	1	54	0.9	6.3	47	79.3	TB09095366	TB09131513	30.00	30.43	quartz diorite
H754874	TL09-003	3.6	0.227	0.28	0.8	54	1.6	6	49	78.8	TB09095366	TB09131513	30.43	31.93	quartz diorite
H754875	TL09-003	3.8	0.246	0.27	0.9	58	2.1	6.3	58	81	TB09095366	TB09131513	31.93	33.43	quartz diorite
H754876	TL09-003	4	0.239	0.26	1	56	3	6.3	55	79.8	TB09095366	TB09131513	33.43	34.20	quartz diorite
H754877	TL09-003	3.9	0.265	0.32	0.8	65	2.6	6.7	60	75.5	TB09095366	TB09131513	34.20	35.20	quartz diorite
H754878	TL09-003	5.6	0.248	0.32	1.4	75	3	8	53	107	TB09095366	TB09131513	35.20	36.60	quartz diorite
H754879	TL09-003	4.3	0.307	0.19	1.1	79	4.2	11.1	86	85.7	TB09095366	TB09131513	36.60	37.25	quartz diorite
H754880	TL09-003	3.3	0.38	0.05	0.8	69	14.7	21.5	89	100	TB09095366	TB09131513	37.25	38.75	mafic metavolcanic
H754881	TL09-003	2.4	0.309	0.24	0.6	69	9.2	14.1	99	85.6	TB09095366	TB09131513	38.75	39.54	mafic metavolcanic
H754882	TL09-003	5.4	0.229	0.27	1.2	55	1.1	8.2	50	94.7	TB09095366	TB09131513	39.54	40.00	mafic metavolcanic
H754883	TL09-003	5.2	0.288	0.26	1.2	90	1.8	11.9	80	98.4	TB09095366	TB09131513	40.00	40.40	mafic metavolcanic
H754884	TL09-003	5.5	0.33	0.4	1.3	111	2	10.1	74	94	TB09095366	TB09131513	40.40	41.90	mafic metavolcanic
H754885	TL09-003	5.8	0.341	0.44	1.4	114	2.3	10.9	77	93.6	TB09095366	TB09131513	41.90	43.00	mafic metavolcanic
H754886	TL09-003	5.6	0.337	0.34	1.4	110	0.9	10.3	73	100	TB09095366	TB09131513	43.00	44.00	mafic metavolcanic
H754887	TL09-003	4.2	0.231	0.26	1.1	57	3.9	6.2	48	80.8	TB09095366	TB09131513	44.00	45.30	quartz diorite
H754888	TL09-003	4.4	0.207	0.23	1.2	56	1.2	6.2	41	71.7	TB09095366	TB09131513	45.30	45.70	quartz diorite
H754889	TL09-003	7.2	0.246	0.26	1.8	61	0.8	7.6	53	83.1	TB09095366	TB09131513	45.70	47.50	quartz diorite
H754890	TL09-003	6.2	0.327	0.25	1.5	104	0.8	9.9	71	93.9	TB09095366	TB09131513	47.50	49.00	mafic metavolcanic
H754891	TL09-003	5.3	0.33	0.33	1.3	110	1.9	10	74	97.7	TB09095366	TB09131513	49.00	49.55	mafic metavolcanic

Partial Geochemistry

sample	hole	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	assay Certificate	geochem Certificate2	from	to	rock type
H754892	TL09-003	5.5	0.336	0.21	1.4	109	2	10.2	79	98	TB09095366	TB09131513	49.55	49.95	mafic metavolcanic
H754893	TL09-003	5.2	0.326	0.26	1.3	109	2	9.8	70	96.2	TB09095366	TB09131513	49.95	51.36	mafic metavolcanic
H754894	TL09-003	5.8	0.503	0.52	1.3	171	0.7	24.9	91	122	TB09095366	TB09131513	51.36	51.81	gabbro
H754895	TL09-003	5.3	0.322	0.32	1.3	109	3.7	9.9	75	101	TB09095366	TB09131513	51.81	52.81	gabbro
H754897	TL09-003	4.9	0.325	0.28	1.2	112	2.8	10.2	67	98.6	TB09095366	TB09131513	52.81	54.00	gabbro
H754898	TL09-003	3.6	0.339	0.24	0.8	118	1.5	9.9	78	69	TB09095366	TB09131513	54.00	55.56	gabbro
H754899	TL09-003	3.9	0.383	0.26	0.9	120	1.2	10.4	83	74.1	TB09095366	TB09131513	55.56	57.00	gabbro
H754900	TL09-003	4.6	0.449	0.28	1	136	0.7	12.1	81	87.5	TB09095366	TB09131513	57.00	58.50	gabbro
H754901	TL09-003	4.6	0.443	0.27	1	133	0.6	11.2	83	85.3	TB09095366	TB09131513	58.50	60.00	gabbro
H754902	TL09-003	4.4	0.451	0.27	1	136	0.4	11.5	86	80.7	TB09095366	TB09131513	60.00	61.21	gabbro
H754903	TL09-003	4.7	0.305	0.19	1.3	101	0.5	10.9	65	70.6	TB09095366	TB09131513	61.21	61.60	gabbro
H754904	TL09-003	4.2	0.433	0.29	1.2	130	0.5	12.9	88	78.7	TB09095366	TB09131513	61.60	63.10	gabbro
H754905	TL09-003	4.1	0.441	0.28	1.1	134	0.4	12.7	88	80.1	TB09095366	TB09131513	63.10	64.60	gabbro
H754906	TL09-003	4.1	0.436	0.28	1	132	0.4	12.7	86	79.2	TB09095366	TB09131513	64.60	66.10	gabbro
H754907	TL09-003	4.2	0.452	0.29	1.1	137	0.4	13.5	90	85.5	TB09095366	TB09131513	66.10	67.60	gabbro
H754908	TL09-003	4	0.437	0.3	1	135	0.4	13.1	86	79	TB09095366	TB09131513	67.60	69.10	gabbro
H754909	TL09-003	4.3	0.474	0.3	1.1	145	0.4	13.4	93	84.1	TB09095366	TB09131513	69.10	70.50	gabbro
H754910	TL09-003	4.2	0.469	0.3	1.1	141	0.4	13.9	91	88.2	TB09095366	TB09131513	70.50	71.17	gabbro
H754911	TL09-003	4	0.407	0.23	1	121	0.5	12	77	79.4	TB09095366	TB09131513	71.17	71.47	gabbro
H754912	TL09-003	4	0.437	0.24	1	132	0.4	12.9	86	79.4	TB09095366	TB09131513	71.47	72.97	gabbro
H754913	TL09-003	4.1	0.449	0.29	1	132	0.4	13.3	84	77.1	TB09095366	TB09131513	72.97	74.56	gabbro
H754914	TL09-003	3.5	0.462	0.29	0.9	130	0.5	13.2	89	70.9	TB09095366	TB09131513	74.56	75.09	gabbro
H754915	TL09-003	3.4	0.449	0.23	0.9	134	7.9	12.7	93	68.1	TB09095366	TB09131513	75.09	75.82	mafic metavolcanic
H754916	TL09-003	4.1	0.519	0.33	1	152	17.3	14.6	106	78.4	TB09095366	TB09131513	75.82	76.28	mafic metavolcanic
H754917	TL09-003	4.6	0.489	0.31	1.2	137	1.2	13.8	93	84.1	TB09095366	TB09131513	76.28	77.65	mafic metavolcanic
H754918	TL09-003	4.3	0.48	0.37	1.1	140	2.6	13.7	93	78.5	TB09095366	TB09131513	77.65	79.00	mafic metavolcanic
H754919	TL09-003	4.3	0.508	0.41	1.1	137	0.4	14.3	92	85.5	TB09095366	TB09131513	79.00	79.36	mafic metavolcanic
H754920	TL09-003	4.2	0.354	0.3	1.2	112	0.5	10.6	78	78	TB09095366	TB09131513	79.36	80.86	fp diorite
H754922	TL09-003	4.7	0.349	0.34	1.3	108	0.6	11.3	75	81	TB09095366	TB09131513	80.86	82.36	fp diorite
H754923	TL09-003	4.9	0.343	0.36	1.4	109	0.5	11.2	75	92.1	TB09095366	TB09131513	82.36	83.58	fp diorite
H754924	TL09-003	5.5	0.353	0.7	1.7	143	0.9	13.2	89	117	TB09095366	TB09131513	83.58	84.23	mafic metavolcanic
H754925	TL09-003	3.6	0.562	0.27	1.1	134	9.3	14.4	103	67.3	TB09095366	TB09131513	84.23	85.73	mafic metavolcanic
H754926	TL09-003	4.1	0.417	0.28	1.1	115	2.6	11.6	66	87.1	TB09095366	TB09131513	85.73	87.23	mafic metavolcanic
H754927	TL09-003	3.2	0.483	0.24	1	118	2	12.1	65	82.3	TB09095366	TB09131513	87.23	88.73	mafic metavolcanic
H754928	TL09-003	3.2	0.553	0.23	0.9	131	2.3	13.9	88	77.6	TB09095366	TB09131513	88.73	90.34	mafic metavolcanic
H754929	TL09-003	2.5	0.573	0.26	0.7	144	0.7	13.4	104	66	TB09095366	TB09131513	90.34	91.23	mafic metavolcanic
H754930	TL09-003	5.8	0.281	0.42	1.6	92	1.2	10.2	70	99.1	TB09095366	TB09131513	91.23	91.92	fp diorite
H754931	TL09-003	6	0.296	0.44	1.9	96	1.9	10.5	72	104	TB09095366	TB09131513	91.92	93.44	fp diorite
H754932	TL09-003	5.2	0.306	0.41	1.7	103	0.8	9.8	78	98.8	TB09095366	TB09131513	93.44	94.41	fp diorite
H754933	TL09-003	1.8	0.721	0.22	0.5	268	1.7	23	102	54.4	TB09095366	TB09131513	94.41	95.61	mafic metavolcanic
H754934	TL09-003	2.1	0.684	0.18	0.6	210	1.6	40.2	144	78.1	TB09095366	TB09131513	95.61	96.50	gabbro
H754935	TL09-003	0.6	0.8	0.06	0.2	301	0.4	33.9	104	37.8	TB09095366	TB09131513	96.50	98.00	gabbro
H754936	TL09-003	0.5	0.834	0.09	0.1	379	1	31.4	100	31.1	TB09095366	TB09131513	98.00	99.50	gabbro
H754937	TL09-003	0.9	0.973	0.09	0.3	431	0.4	39.1	145	48.8	TB09095366	TB09131513	99.50	100.83	gabbro
H754938	TL09-003	4.6	0.496	0.26	1.2	148	0.7	14.2	87	101.5	TB09095366	TB09131513	100.83	101.45	gabbro
H754939	TL09-003	1.2	1	0.09	0.3	442	0.4	36.9	134	64.3	TB09095366	TB09131513	101.45	102.65	gabbro
H754940	TL09-003	0.6	1.185	0.04	0.2	478	1.7	40	149	59.4	TB09095366	TB09131513	102.65	103.28	gabbro

Partial Geochemistry

sample	hole	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	assay Certificate	geochem Certificate2	from	to	rock type
H754941	TL09-003	0.7	1.46	0.04	0.2	392	2.5	46.7	269	63.7	TB09095366	TB09131513	103.28	104.40	gabbro
H754942	TL09-003	0.7	1.205	0.02	0.2	497	13.3	43.1	313	68.7	TB09095366	TB09131513	104.40	105.20	gabbro
H754943	TL09-003	1.1	1.135	0.08	0.3	635	2.1	36.8	127	43.1	TB09095366	TB09131513	105.20	106.20	gabbro
H754944	TL09-003	0.4	0.766	0.03	0.1	407	0.3	26.7	86	29.7	TB09095366	TB09131513	106.20	107.70	gabbro
H754945	TL09-003	0.4	0.65	0.05	0.1	341	0.3	22.9	95	27	TB09095366	TB09131513	107.70	109.20	gabbro
H754947	TL09-003	0.5	0.676	0.06	0.1	340	0.3	24.3	105	28.6	TB09095366	TB09131513	109.20	110.70	gabbro
H754948	TL09-003	0.6	0.679	0.08	0.2	331	0.3	24.8	107	35	TB09095366	TB09131513	110.70	112.20	gabbro
H754949	TL09-003	0.4	0.587	0.09	0.1	305	0.5	21	86	40.5	TB09095366	TB09131513	112.20	113.70	gabbro
H754950	TL09-003	2.2	0.507	0.12	0.6	258	0.4	19.2	70	50.2	TB09095366	TB09131513	113.70	115.20	gabbro
H754951	TL09-003	0.5	0.581	0.09	0.1	296	0.5	20.6	71	42.1	TB09095366	TB09131513	115.20	116.70	gabbro
H754952	TL09-003	2.2	0.492	0.11	0.6	222	0.7	17.1	82	55.9	TB09095366	TB09131513	116.70	118.60	gabbro
H754953	TL09-003	1.5	0.487	0.07	0.4	253	0.7	20.7	78	55.9	TB09095366	TB09131513	118.60	119.00	gabbro
H754954	TL09-003	0.8	0.612	0.07	0.2	305	1.2	23.7	79	42.6	TB09095366	TB09131513	119.00	120.50	gabbro
H754955	TL09-003	0.6	0.519	0.07	0.2	274	0.7	19.2	77	38.9	TB09095366	TB09131513	120.50	122.00	gabbro
H754956	TL09-003	0.5	0.594	0.08	0.2	289	17.4	22.1	79	43.3	TB09095366	TB09131513	122.00	123.50	gabbro
H754957	TL09-003	1.5	0.489	0.09	0.4	228	1.6	17.6	83	49.9	TB09095366	TB09131513	123.50	125.00	gabbro
H754958	TL09-003	3.1	0.405	0.14	0.8	165	0.8	13.1	91	68.5	TB09095366	TB09131513	125.00	125.50	gabbro
H754959	TL09-003	1.8	0.5	0.14	0.5	205	2.1	16.4	95	62.5	TB09095366	TB09131513	125.50	126.30	gabbro
H754960	TL09-003	1.1	0.615	0.1	0.3	277	0.8	22.1	95	51.3	TB09095366	TB09131513	126.30	126.80	gabbro
H754961	TL09-003	0.6	0.741	0.11	0.2	355	3.7	27	95	51.5	TB09095366	TB09131513	126.80	128.30	gabbro
H754962	TL09-003	0.6	0.513	0.12	0.2	259	0.8	18.2	74	41.3	TB09095366	TB09131513	128.30	129.80	gabbro
H754963	TL09-003	0.3	0.553	0.1	0.1	286	0.5	19.8	76	44.4	TB09095366	TB09131513	129.80	131.30	gabbro
H754964	TL09-003	0.6	0.543	0.06	0.2	277	0.9	20.9	72	41.8	TB09095366	TB09131513	131.30	132.50	gabbro
H754965	TL09-003	0.3	0.548	0.08	0.1	289	0.3	20.9	69	43.8	TB09095366	TB09131513	132.50	133.00	gabbro
H754966	TL09-003	0.3	0.548	0.05	0.1	280	0.2	21.2	61	47	TB09095366	TB09131513	133.00	134.50	gabbro
H754967	TL09-003	0.5	0.543	0.05	0.1	265	0.4	23.1	65	45.5	TB09095366	TB09131513	134.50	136.00	gabbro
H754968	TL09-003	0.5	0.511	0.12	0.1	251	2.1	22.9	68	48.9	TB09095366	TB09131513	136.00	137.50	gabbro
H754969	TL09-003	0.4	0.585	0.13	0.1	275	0.6	22.6	81	46	TB09095366	TB09131513	137.50	138.17	gabbro
H754970	TL09-003	3.3	0.517	0.2	0.9	176	0.7	14.5	70	86.2	TB09095366	TB09131513	138.17	138.60	gabbro
H754972	TL09-003	1.2	0.555	0.05	0.4	228	1	29.6	77	58.5	TB09095366	TB09131513	138.60	139.92	gabbro
H754973	TL09-003	0.5	0.491	0.12	0.2	237	0.8	17.5	79	35.1	TB09095366	TB09131513	139.92	140.43	gabbro
H754974	TL09-003	0.2	0.508	0.09	0.1	261	0.6	19.2	85	41.7	TB09095366	TB09131513	140.43	141.93	gabbro
H754975	TL09-003	0.2	0.514	0.07	0.1	264	0.4	19.2	88	40	TB09095366	TB09131513	141.93	143.43	gabbro
H754976	TL09-003	0.3	0.501	0.05	0.1	259	0.6	19	87	37	TB09095366	TB09131513	143.43	144.93	gabbro
H754977	TL09-003	0.2	0.474	0.07	0.1	254	0.5	18.7	86	38	TB09095366	TB09131513	144.93	146.43	gabbro
H754978	TL09-003	0.3	0.463	0.06	<0.1	240	0.5	18.2	78	36.5	TB09095366	TB09131513	146.43	147.93	gabbro
H754979	TL09-003	0.2	0.424	0.04	0.1	220	0.2	15.9	71	34.3	TB09095366	TB09131513	147.93	149.43	gabbro
H754980	TL09-003	0.2	0.403	0.04	0.1	212	0.2	18.2	71	36.1	TB09095366	TB09131513	149.43	150.00	gabbro
H754981	TL09-004	8.3	0.159	0.13	2.1	27	0.8	9.5	23	153	TB09098213	TB09129586	1.89	2.20	fp diorite
H754982	TL09-004	0.8	0.281	0.27	0.3	138	0.8	9.7	79	20.6	TB09098213	TB09129586	2.20	2.90	gabbro
H754983	TL09-004	3.8	0.368	0.23	1	127	1.8	12.4	86	88.8	TB09098213	TB09129586	2.90	3.78	mafic metavolcanic
H754984	TL09-004	4	0.54	0.43	0.9	182	2.4	20.9	98	119.5	TB09098213	TB09129586	3.78	4.34	bt diorite
H754985	TL09-004	0.4	0.328	0.19	0.1	136	1.3	12.5	110	24.7	TB09098213	TB09129586	4.34	5.50	gabbro
H754986	TL09-004	0.3	0.306	0.24	0.1	150	0.8	9.8	64	16.6	TB09098213	TB09129586	5.50	6.70	gabbro
H754987	TL09-004	<0.2	0.322	0.32	0.1	156	1.9	9.7	64	12.5	TB09098213	TB09129586	6.70	7.60	gabbro
H754988	TL09-004	7.7	0.167	0.15	2.1	42	0.5	6.8	32	110	TB09098213	TB09129586	7.60	8.46	gabbro
H754989	TL09-004	0.3	0.312	0.13	0.1	150	0.4	9.4	57	16	TB09098213	TB09129586	8.46	9.50	gabbro

sample	hole	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	assay Certificate	geochem Certificate2	from	to	rock type
H754990	TL09-004	<0.2	0.323	0.1	<0.1	156	0.2	9.8	62	17.1	TB09098213	TB09129586	9.50	10.52	gabbro
H754991	TL09-004	3.3	0.239	0.11	1.2	105	0.2	7.9	42	39.8	TB09098213	TB09129586	10.52	11.00	gabbro
H754992	TL09-004	<0.2	0.297	0.06	<0.1	143	0.1	10.4	57	17.5	TB09098213	TB09129586	11.00	12.50	gabbro
H754993	TL09-004	<0.2	0.322	0.04	<0.1	151	0.1	10.3	57	17.2	TB09098213	TB09129586	12.50	14.00	gabbro
H754994	TL09-004	<0.2	0.353	0.08	<0.1	164	0.1	10.9	58	16.3	TB09098213	TB09129586	14.00	15.50	gabbro
H754995	TL09-004	<0.2	0.329	0.05	<0.1	162	0.2	10.5	55	21.2	TB09098213	TB09129586	15.50	16.48	gabbro
H754997	TL09-004	<0.2	0.296	0.14	<0.1	143	1.3	9.5	52	17.6	TB09098213	TB09129586	16.48	16.88	gabbro
H754998	TL09-004	0.3	0.1	0.05	0.1	29	11.7	4.3	13	11.7	TB09098213	TB09129586	16.88	17.51	gabbro
H754999	TL09-004	2.5	0.394	0.07	0.6	119	22	8.2	60	69.8	TB09098213	TB09129586	17.51	17.94	mafic metavolcanic
H755000	TL09-004	2.6	0.545	0.11	0.7	177	3.2	16.3	96	83.2	TB09098213	TB09129586	17.94	18.94	mafic metavolcanic
H755001	TL09-004	2.6	0.506	0.04	0.8	176	1.3	17.1	91	76.5	TB09098213	TB09129586	18.94	20.00	mafic metavolcanic
H755002	TL09-004	2.3	0.529	0.03	0.6	178	0.9	15.9	78	65.3	TB09098213	TB09129586	20.00	20.41	mafic metavolcanic
H755003	TL09-004	2.7	0.53	0.05	0.8	188	1	16.7	101	80.2	TB09098213	TB09129586	20.41	21.00	mafic metavolcanic
H755004	TL09-004	2.5	0.504	0.04	0.7	166	3.4	16.1	80	71.2	TB09098213	TB09129586	21.00	21.40	mafic metavolcanic
H755005	TL09-004	2.9	0.521	0.05	0.8	171	0.6	18.1	95	84.8	TB09098213	TB09129586	21.40	22.90	mafic metavolcanic
H755006	TL09-004	2.4	0.542	0.07	0.7	175	0.4	16.3	98	78	TB09098213	TB09129586	22.90	24.40	mafic metavolcanic
H755007	TL09-004	4	0.414	0.1	1	157	0.4	14.9	92	83	TB09098213	TB09129586	24.40	24.90	mafic metavolcanic
H755008	TL09-004	7.6	0.299	0.16	1.7	111	0.5	11.4	83	110.5	TB09098213	TB09129586	24.90	26.18	mafic metavolcanic
H755009	TL09-004	3.5	0.521	0.13	0.8	175	1.5	18.7	96	77	TB09098213	TB09129586	26.18	27.08	mafic metavolcanic
H755010	TL09-004	2.6	0.515	0.15	0.6	178	11.1	15.7	94	60.4	TB09098213	TB09129586	27.08	27.79	mafic metavolcanic
H755011	TL09-004	3.7	0.554	0.04	0.8	179	0.5	20.3	102	84.5	TB09098213	TB09129586	27.79	29.29	mafic metavolcanic
H755012	TL09-004	3.3	0.543	0.05	0.8	178	0.4	18.8	105	80.5	TB09098213	TB09129586	29.29	30.79	mafic metavolcanic
H755013	TL09-004	3.3	0.571	0.04	0.7	188	0.4	18.8	105	80	TB09098213	TB09129586	30.79	32.29	mafic metavolcanic
H755014	TL09-004	3.7	0.581	0.04	0.9	201	0.4	20.3	104	81	TB09098213	TB09129586	32.29	33.79	mafic metavolcanic
H755015	TL09-004	3.5	0.552	0.04	0.8	182	0.3	19.7	108	81.5	TB09098213	TB09129586	33.79	35.29	mafic metavolcanic
H755016	TL09-004	3.5	0.565	0.05	0.8	186	0.5	19.9	108	82.3	TB09098213	TB09129586	35.29	36.99	mafic metavolcanic
H755017	TL09-004	3.6	0.546	0.08	0.8	177	0.9	20.6	106	84.3	TB09098213	TB09129586	36.99	38.68	mafic metavolcanic
H755018	TL09-004	0.3	0.366	0.2	0.1	178	4.9	12.8	82	19.7	TB09098213	TB09129586	38.68	39.04	mafic metavolcanic
H755019	TL09-004	3.3	0.584	0.16	0.8	186	3.7	19.5	107	84.1	TB09098213	TB09129586	39.04	40.01	mafic metavolcanic
H755020	TL09-004	6.2	0.277	0.24	1.7	58	0.7	7.6	66	121	TB09098213	TB09129586	40.01	40.87	mafic metavolcanic
H755022	TL09-004	0.3	0.481	0.17	0.1	171	0.5	21.3	67	43.7	TB09098213	TB09129586	40.87	42.37	gabbro
H755023	TL09-004	0.3	0.407	0.08	0.1	164	0.4	15.4	59	41.8	TB09098213	TB09129586	42.37	43.87	gabbro
H755024	TL09-004	0.3	0.396	0.06	0.1	156	0.3	14.8	54	33.4	TB09098213	TB09129586	43.87	45.37	gabbro
H755025	TL09-004	0.2	0.384	0.04	0.1	180	0.3	13.9	67	27.9	TB09098213	TB09129586	45.37	46.87	gabbro
H755026	TL09-004	0.3	0.495	0.07	0.1	213	0.3	17.6	91	39.2	TB09098213	TB09129586	46.87	48.28	gabbro
H755027	TL09-004	1.3	0.318	0.15	0.3	138	0.3	10.2	81	38.6	TB09098213	TB09129586	48.28	48.85	gabbro
H755028	TL09-004	0.2	0.401	0.08	0.1	182	0.3	14.4	69	21.9	TB09098213	TB09129586	48.85	50.35	gabbro
H755029	TL09-004	0.2	0.426	0.04	0.1	198	0.3	16.4	82	28.6	TB09098213	TB09129586	50.35	51.85	gabbro
H755030	TL09-004	0.2	0.461	0.02	<0.1	209	0.3	17.3	92	29.1	TB09098213	TB09129586	51.85	53.35	gabbro
H755031	TL09-004	0.3	0.52	<0.02	0.1	224	0.3	20.7	98	37.1	TB09098213	TB09129586	53.35	54.85	gabbro
H755032	TL09-004	0.2	0.535	<0.02	0.1	245	0.3	19.9	112	29.8	TB09098213	TB09129586	54.85	56.35	gabbro
H755033	TL09-004	0.3	0.571	0.04	0.1	263	0.5	20.2	167	28.2	TB09098213	TB09129586	56.35	57.85	gabbro
H755034	TL09-004	0.2	0.573	0.02	0.1	265	0.4	21.4	215	26.1	TB09098213	TB09129586	57.85	59.35	gabbro
H755035	TL09-004	0.3	0.633	<0.02	0.1	292	0.4	21.2	165	28	TB09098213	TB09129586	59.35	60.95	gabbro
H755036	TL09-004	3.4	0.501	0.23	0.8	112	1.6	19.9	135	113.5	TB09098213	TB09129586	60.95	62.45	bt diorite
H755037	TL09-004	2.9	0.498	0.2	0.7	92	1.1	19.7	842	84.5	TB09098213	TB09129586	62.45	63.95	bt diorite
H755038	TL09-004	2.9	0.54	0.21	0.7	81	1.8	21.3	242	79	TB09098213	TB09129586	63.95	64.75	bt diorite

Partial Geochemistry

sample	hole	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	assay Certificate	geochem Certificate2	from	to	rock type
H755039	TL09-004	0.2	0.33	0.13	<0.1	162	1.4	9.2	79	11.9	TB09098213	TB09129586	64.75	65.42	gabbro
H755040	TL09-004	5	0.264	0.18	1.2	67	3.3	8	56	109	TB09098213	TB09129586	65.42	66.18	gabbro
H755041	TL09-004	0.3	0.334	0.11	0.1	157	1	12.4	83	16.5	TB09098213	TB09129586	66.18	67.68	gabbro
H755042	TL09-004	0.2	0.405	0.12	<0.1	192	0.8	13	80	16.8	TB09098213	TB09129586	67.68	68.56	gabbro
H755043	TL09-004	0.2	0.434	0.19	<0.1	188	2.6	16.3	71	26.8	TB09098213	TB09129586	68.56	68.93	gabbro
H755044	TL09-004	0.2	0.456	0.11	<0.1	205	2.3	14.1	73	22	TB09098213	TB09129586	68.93	70.43	gabbro
H755045	TL09-004	<0.2	0.344	0.04	<0.1	177	0.6	11.6	76	10.5	TB09098213	TB09129586	70.43	71.86	gabbro
H755047	TL09-004	0.3	0.414	0.17	<0.1	178	1.1	22.5	149	22.7	TB09098213	TB09129586	71.86	72.37	gabbro
H755048	TL09-004	8.3	0.221	0.17	1.5	50	22.1	10	54	114.5	TB09098213	TB09129586	72.37	73.26	gabbro
H755049	TL09-004	0.6	0.388	0.31	0.1	117	5.3	22.8	68	30.1	TB09098213	TB09129586	73.26	73.66	gabbro
H755050	TL09-004	3.6	0.261	0.32	0.7	102	7	11.9	62	60	TB09098213	TB09129586	73.66	74.12	gabbro
H755051	TL09-004	<0.2	0.321	0.1	<0.1	165	0.4	11.5	67	16	TB09098213	TB09129586	74.12	75.63	gabbro
H755052	TL09-004	<0.2	0.311	0.06	<0.1	152	0.4	11.2	67	11.3	TB09098213	TB09129586	75.63	77.13	gabbro
H755053	TL09-004	0.2	0.335	0.04	<0.1	169	0.4	12.3	68	16.2	TB09098213	TB09129586	77.13	78.43	gabbro
H755054	TL09-004	0.5	0.371	0.06	0.1	173	0.5	12.3	69	29.5	TB09098213	TB09129586	78.43	79.93	gabbro
H755055	TL09-004	<0.2	0.342	0.06	<0.1	171	0.5	10.9	59	12.9	TB09098213	TB09129586	79.93	81.49	gabbro
H755056	TL09-004	<0.2	0.349	0.2	<0.1	162	0.9	14.8	105	16.9	TB09098213	TB09129586	81.49	82.10	gabbro
H755057	TL09-004	0.3	0.088	0.09	0.1	57	2.5	11	89	21.4	TB09098213	TB09129586	82.10	83.86	ironstone
H755058	TL09-004	4.7	0.258	0.25	1.1	73	1.3	9.5	63	104	TB09098213	TB09129586	83.86	85.40	fp diorite
H755059	TL09-004	5.5	0.261	0.2	1.3	66	0.8	9.2	58	121	TB09098213	TB09129586	85.40	86.95	fp diorite
H755060	TL09-004	<0.2	0.327	0.2	<0.1	151	0.8	8.6	65	13.1	TB09098213	TB09129586	86.95	88.45	gabbro
H755061	TL09-004	<0.2	0.375	0.06	<0.1	158	3.1	10.8	62	20.1	TB09098213	TB09129586	88.45	89.95	gabbro
H755062	TL09-004	<0.2	0.35	0.04	<0.1	152	0.5	9.8	59	14.5	TB09098213	TB09129586	89.95	91.45	gabbro
H755063	TL09-004	<0.2	0.368	0.13	<0.1	176	2.2	9.4	62	17.3	TB09098213	TB09129586	91.45	91.77	gabbro
H755064	TL09-004	9.4	0.578	0.19	1.7	132	5.3	16	72	97	TB09098213	TB09129586	91.77	92.61	bt diorite
H755065	TL09-004	7.4	0.563	0.21	1.3	136	9.5	14.8	110	94.4	TB09098213	TB09129586	92.61	93.29	bt diorite
H755066	TL09-004	1.5	0.352	0.32	0.5	155	2.8	10.4	83	45.4	TB09098213	TB09129586	93.29	93.80	gabbro-fp diorite
H755067	TL09-004	<0.2	0.099	0.04	0.1	59	1.8	8.5	66	20.7	TB09098213	TB09129586	93.80	94.29	ironstone
H755068	TL09-004	0.3	0.387	0.1	0.1	191	3.9	13.6	71	18.8	TB09098213	TB09129586	94.29	95.79	gabbro
H755069	TL09-004	<0.2	0.455	0.07	<0.1	144	1.2	13.2	70	30.3	TB09098213	TB09129586	95.79	96.45	gabbro
H755070	TL09-004	<0.2	0.387	0.12	<0.1	170	94.8	13.5	71	20.4	TB09098213	TB09129586	96.45	96.84	gabbro
H755072	TL09-004	<0.2	0.415	0.15	0.1	184	3.3	13.5	79	25.1	TB09098213	TB09129586	96.84	98.11	gabbro
H755073	TL09-004	3.2	0.433	0.13	0.9	203	4.6	18.4	109	76.9	TB09098213	TB09129586	98.11	98.46	gabbro
H755074	TL09-004	0.4	0.465	0.18	0.2	216	1.5	15.8	82	34.5	TB09098213	TB09129586	98.46	100.20	gabbro
H755075	TL09-004	2.6	0.477	0.26	0.8	160	2.4	13	99	90.1	TB09098213	TB09129586	100.20	101.13	gabbro
H755076	TL09-004	<0.2	0.381	0.05	<0.1	185	0.7	11.4	74	21.3	TB09098213	TB09129586	101.13	102.50	gabbro
H755077	TL09-004	1	0.387	0.08	0.3	164	1.7	11.9	77	30.3	TB09098213	TB09129586	102.50	103.18	gabbro
H755078	TL09-004	0.4	0.404	0.3	0.1	191	234	15.8	103	28	TB09098213	TB09129586	103.18	104.58	gabbro
H755079	TL09-004	0.4	0.776	0.29	0.1	325	49.5	28.9	121	42.5	TB09098213	TB09129586	104.58	105.38	gabbro
H755080	TL09-004	0.4	0.803	0.05	0.1	339	2.1	30.1	127	46	TB09098213	TB09129586	105.38	106.70	gabbro
H755081	TL09-004	1.6	0.601	0.24	0.5	275	3.8	22.7	133	58.1	TB09098213	TB09129586	106.70	107.10	gabbro
H755082	TL09-004	4.1	0.533	0.17	1	234	5.9	20.3	122	78	TB09098213	TB09129586	107.10	108.58	gabbro
H755083	TL09-004	0.4	0.82	0.21	0.1	345	119.5	29.2	121	42.4	TB09098213	TB09129586	108.58	109.14	gabbro
H755084	TL09-004	0.4	0.826	0.03	0.1	341	3.2	30	119	43.1	TB09098213	TB09129586	109.14	110.50	gabbro
H755085	TL09-004	4.9	0.25	0.11	1.3	76	8.8	9.4	48	112	TB09098213	TB09129586	110.50	111.42	gabbro
H755086	TL09-004	0.5	0.769	0.06	0.1	319	1.8	28.7	107	37.5	TB09098213	TB09129586	111.42	112.32	mafic metavolcanic
H755087	TL09-004	5	0.24	0.14	1.3	67	0.5	7.9	57	112	TB09098213	TB09129586	112.32	113.61	mafic metavolcanic

sample	hole	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	assay Certificate	geochem Certificate2	from	to	rock type
H755088	TL09-004	1.3	0.476	0.04	0.3	187	6.6	18.8	147	64.7	TB09098213	TB09129586	113.61	114.75	mafic metavolcanic
H755089	TL09-004	3.8	0.268	0.23	1.1	78	8.8	8	54	102	TB09098213	TB09129586	114.75	115.27	mafic metavolcanic
H755090	TL09-004	0.4	0.656	0.04	0.1	293	1.9	24.2	118	36.5	TB09098213	TB09129586	115.27	116.73	mafic metavolcanic
H755091	TL09-004	6.5	0.283	0.27	1.7	93	2.3	9.1	72	94.4	TB09098213	TB09129586	116.73	117.46	mafic metavolcanic
H755092	TL09-004	1.6	0.594	0.08	0.4	271	3.7	20.9	117	46.4	TB09098213	TB09129586	117.46	118.96	mafic metavolcanic
H755093	TL09-004	0.3	0.655	0.07	0.1	309	1.9	24	115	23.8	TB09098213	TB09129586	118.96	120.46	mafic metavolcanic
H755094	TL09-004	0.3	0.61	0.03	0.1	288	1.6	21.4	116	35.5	TB09098213	TB09129586	120.46	121.96	mafic metavolcanic
H755095	TL09-004	0.3	0.63	<0.02	0.1	293	0.4	23.2	123	36.1	TB09098213	TB09129586	121.96	123.46	mafic metavolcanic
H755097	TL09-004	0.3	0.615	<0.02	0.1	285	0.9	24.9	136	27.5	TB09098213	TB09129586	123.46	124.65	mafic metavolcanic
H755098	TL09-004	0.3	0.544	0.17	0.1	254	18.9	21.6	104	20.8	TB09098213	TB09129586	124.65	125.70	mafic metavolcanic
H755099	TL09-004	0.3	0.676	0.09	0.1	308	0.5	25.3	103	23.2	TB09098213	TB09129586	125.70	127.20	mafic metavolcanic
H755100	TL09-004	0.3	0.691	0.05	0.1	311	0.8	25.6	117	23.7	TB09098213	TB09129586	127.20	128.70	mafic metavolcanic
H755101	TL09-004	0.3	0.692	0.02	0.1	308	0.6	26.5	114	21.1	TB09098213	TB09129586	128.70	130.15	mafic metavolcanic
H755102	TL09-004	0.3	0.64	0.18	0.1	302	0.9	28.2	129	39.1	TB09098213	TB09129586	130.15	131.00	mafic metavolcanic
H755103	TL09-004	0.3	0.629	0.06	0.1	284	2.3	24.6	118	29.2	TB09098213	TB09129586	131.00	132.23	mafic metavolcanic
H755104	TL09-004	0.3	0.59	<0.02	0.1	272	0.5	23.4	122	28.6	TB09098213	TB09129586	132.23	133.73	mafic metavolcanic
H755105	TL09-004	0.3	0.639	<0.02	0.1	284	0.6	24.3	119	35.9	TB09098213	TB09129586	133.73	135.53	mafic metavolcanic
H755106	TL09-004	0.3	0.585	<0.02	0.1	269	2.6	22.9	109	31.1	TB09098213	TB09129586	135.53	136.55	mafic metavolcanic
H755107	TL09-004	0.4	0.649	<0.02	0.1	289	0.8	25.7	112	44.5	TB09098213	TB09129586	136.55	138.05	mafic metavolcanic
H755108	TL09-004	0.3	0.62	<0.02	0.1	294	0.6	24	107	44.2	TB09098213	TB09129586	138.05	139.55	mafic metavolcanic
H755109	TL09-004	0.3	0.574	<0.02	0.1	271	0.4	21	98	34.7	TB09098213	TB09129586	139.55	140.63	mafic metavolcanic
H755110	TL09-004	0.3	0.511	0.02	0.1	245	0.5	20.5	155	28.3	TB09098213	TB09129586	140.63	141.25	mafic metavolcanic
H755111	TL09-004	0.3	0.639	0.02	0.1	297	0.4	24.9	122	35.6	TB09098213	TB09129586	141.25	142.80	mafic metavolcanic
H755112	TL09-004	0.3	0.614	0.02	0.1	338	0.5	23.9	122	32.4	TB09098213	TB09129586	142.80	143.21	mafic metavolcanic
H755113	TL09-004	0.3	0.625	0.03	0.1	290	2.8	22.1	107	17.7	TB09098213	TB09129586	143.21	144.05	mafic metavolcanic
H755114	TL09-004	0.3	0.698	0.06	0.1	320	1.8	25.5	130	30.4	TB09098213	TB09129586	144.05	145.65	mafic metavolcanic
H755115	TL09-004	0.3	0.597	0.05	0.1	265	0.3	24.6	120	35.6	TB09098213	TB09129586	145.65	146.00	mafic metavolcanic
H755116	TL09-004	0.4	0.659	<0.02	0.1	300	0.3	25.1	135	35.7	TB09098213	TB09129586	146.00	147.00	mafic metavolcanic
H755117	TL09-004	0.3	0.637	0.03	0.1	294	0.3	23.6	139	20.5	TB09098213	TB09129586	147.00	147.48	mafic metavolcanic
H755118	TL09-004	0.3	0.625	<0.02	0.1	284	0.1	23.4	115	38.3	TB09098213	TB09129586	147.48	148.98	mafic metavolcanic
H755119	TL09-004	0.3	0.647	<0.02	0.1	300	0.2	24.7	132	38.1	TB09098213	TB09129586	148.98	150.48	mafic metavolcanic
H755120	TL09-004	0.3	0.678	0.02	0.1	311	0.5	24	137	49.8	TB09098213	TB09129586	150.48	151.60	mafic metavolcanic
H755122	TL09-004	0.2	0.494	0.27	0.1	219	10.4	16	116	32.3	TB09098213	TB09129586	151.60	152.05	mafic metavolcanic
H755123	TL09-004	0.3	0.589	<0.02	0.1	271	0.8	21	139	41.4	TB09098213	TB09129586	152.05	153.25	mafic metavolcanic
H755124	TL09-004	0.3	0.67	0.06	0.1	307	2.1	24.7	116	50.4	TB09098213	TB09129586	153.25	154.13	mafic metavolcanic
H755125	TL09-004	0.3	0.588	0.23	0.1	283	16.6	21.5	107	37.8	TB09098213	TB09129586	154.13	154.76	mafic metavolcanic
H755126	TL09-004	0.2	0.502	0.1	0.1	224	2.3	20.8	110	36.2	TB09098213	TB09129586	154.76	155.56	mafic metavolcanic
H755127	TL09-004	0.3	0.571	0.06	0.1	266	0.4	21.4	120	42.7	TB09098213	TB09129586	155.56	156.59	mafic metavolcanic
H755128	TL09-004	0.3	0.64	<0.02	0.1	295	0.2	23.2	136	35.5	TB09098213	TB09129586	156.59	157.87	mafic metavolcanic
H755129	TL09-004	4.8	0.365	0.31	1.3	116	12.3	12	83	127.5	TB09098213	TB09129586	157.87	158.80	mafic metavolcanic
H755130	TL09-004	4.6	0.297	0.19	1.1	114	37.3	11.1	79	109	TB09098213	TB09129586	158.80	159.18	mafic metavolcanic
H755131	TL09-004	0.3	0.618	<0.02	0.1	289	0.5	23	108	46	TB09098213	TB09129586	159.18	160.68	mafic metavolcanic
H755132	TL09-004	0.3	0.616	<0.02	0.1	285	0.2	22.6	133	49.7	TB09098213	TB09129586	160.68	162.18	mafic metavolcanic
H755133	TL09-004	0.3	0.6	0.02	0.1	280	0.1	23	126	42.6	TB09098213	TB09129586	162.18	163.68	mafic metavolcanic
H755134	TL09-004	0.3	0.646	0.02	0.1	298	0.1	23.3	125	51.1	TB09098213	TB09129586	163.68	165.18	mafic metavolcanic
H755135	TL09-004	0.3	0.635	0.02	0.1	297	0.1	24.2	118	50.7	TB09098213	TB09129586	165.18	166.68	mafic metavolcanic
H755136	TL09-004	0.3	0.571	0.02	0.1	268	0.2	23.4	148	38.4	TB09098213	TB09129586	166.68	168.18	mafic metavolcanic

Partial Geochemistry

sample	hole	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	assay Certificate	geochem Certificate2	from	to	rock type
H755137	TL09-004	0.3	0.614	0.02	0.1	285	0.2	23.1	127	46.4	TB09098213	TB09129586	168.18	169.68	mafic metavolcanic
H755138	TL09-004	0.3	0.634	<0.02	0.1	294	0.4	24.3	112	46.7	TB09098213	TB09129586	169.68	171.00	mafic metavolcanic
H755139	TL09-004	0.3	0.62	<0.02	0.1	288	0.7	22.6	112	44.4	TB09098213	TB09129586	171.00	172.16	mafic metavolcanic
H755140	TL09-004	0.2	0.515	0.7	0.1	226	58.1	19.4	86	44	TB09098213	TB09129586	172.16	172.50	mafic metavolcanic
H755141	TL09-004	0.3	0.637	0.03	0.1	299	4.5	22.5	132	47.3	TB09098213	TB09129586	172.50	174.00	mafic metavolcanic
H755142	TL09-004	0.3	0.645	<0.02	0.1	303	0.5	24	117	49.1	TB09098213	TB09129586	174.00	175.20	mafic metavolcanic
H755143	TL09-004	0.2	0.546	0.09	0.1	211	10.7	21.1	90	40	TB09098213	TB09129586	175.20	175.47	mafic metavolcanic
H755144	TL09-004	0.3	0.629	0.11	0.1	288	2.5	23.7	119	50.7	TB09098213	TB09129586	175.47	176.00	mafic metavolcanic
H755145	TL09-005	2.6	0.485	0.21	0.6	170	0.9	15.4	91	78.4	TB09098211	TB09131518	2.00	3.50	mafic metavolcanic
H755147	TL09-005	0.4	0.686	0.06	0.1	325	1.1	25.6	90	16.7	TB09098211	TB09131518	3.50	4.00	mafic metavolcanic
H755148	TL09-005	0.3	0.544	0.09	0.1	270	1.2	24.9	97	26.7	TB09098211	TB09131518	4.00	4.56	mafic metavolcanic
H755149	TL09-005	0.3	0.536	0.11	0.1	261	1.8	22.3	90	29.2	TB09098211	TB09131518	4.56	5.94	mafic metavolcanic
H755150	TL09-005	0.4	0.639	0.17	0.1	299	3.3	24.8	120	38.7	TB09098211	TB09131518	5.94	6.30	mafic metavolcanic
H755151	TL09-005	0.7	0.547	0.22	0.2	251	2.3	21.4	99	43.3	TB09098211	TB09131518	6.30	6.80	mafic metavolcanic
H755152	TL09-005	1.5	0.394	0.06	0.4	168	2.4	17.8	78	60.4	TB09098211	TB09131518	6.80	8.18	mafic metavolcanic
H755153	TL09-005	0.3	0.505	0.08	0.1	249	2.8	21.2	115	25.8	TB09098211	TB09131518	8.18	8.96	mafic metavolcanic
H755154	TL09-005	0.2	0.497	0.15	0.1	229	12	22.5	92	24.7	TB09098211	TB09131518	8.96	9.47	mafic metavolcanic
H755155	TL09-005	2.2	0.391	0.24	0.5	137	1.3	16.8	64	67	TB09098211	TB09131518	9.47	10.14	mafic metavolcanic
H755156	TL09-005	0.8	0.416	0.24	0.2	227	8.9	16.9	82	33.6	TB09098211	TB09131518	10.14	10.46	mafic metavolcanic
H755157	TL09-005	2.9	0.437	0.19	0.8	109	21.7	10.3	71	121.5	TB09098211	TB09131518	10.46	10.94	mafic metavolcanic
H755158	TL09-005	2.9	0.425	0.22	0.8	94	6.5	10	50	117	TB09098211	TB09131518	10.94	11.41	mafic metavolcanic
H755159	TL09-005	2.8	0.382	0.17	0.7	100	13.8	9.6	53	108.5	TB09098211	TB09131518	11.41	11.80	mafic metavolcanic
H755160	TL09-005	2.7	0.326	0.23	0.9	140	7.6	12.3	70	74	TB09098211	TB09131518	11.80	13.05	mafic metavolcanic
H755161	TL09-005	0.3	0.606	0.06	0.1	294	1.2	25.4	102	34.1	TB09098211	TB09131518	13.05	13.75	mafic metavolcanic
H755162	TL09-005	0.4	0.655	0.04	0.1	302	1.1	22	93	15.6	TB09098211	TB09131518	13.75	14.69	mafic metavolcanic
H755163	TL09-005	0.3	0.733	0.03	0.1	342	0.7	21.9	88	17.1	TB09098211	TB09131518	14.69	15.73	mafic metavolcanic
H755164	TL09-005	0.4	0.489	<0.02	0.1	228	0.7	20.3	99	33.1	TB09098211	TB09131518	15.73	16.85	mafic metavolcanic
H755165	TL09-005	0.2	0.079	<0.02	0.1	46	0.5	9.6	87	17.5	TB09098211	TB09131518	16.85	17.25	mafic metavolcanic
H755166	TL09-005	0.3	0.662	0.02	0.1	321	4.3	26	90	41.5	TB09098211	TB09131518	17.25	17.86	mafic metavolcanic
H755167	TL09-005	0.3	0.64	<0.02	0.1	302	0.8	25.2	91	43	TB09098211	TB09131518	17.86	18.67	mafic metavolcanic
H755168	TL09-005	4.2	0.349	0.11	1	179	0.5	15.3	86	53.2	TB09098211	TB09131518	18.67	19.78	mafic metavolcanic
H755169	TL09-005	0.5	0.492	0.33	0.2	236	2.6	19.9	84	30.7	TB09098211	TB09131518	19.78	20.42	mafic metavolcanic
H755170	TL09-005	0.3	0.6	<0.02	0.1	281	0.6	24.2	103	35.4	TB09098211	TB09131518	20.42	21.92	mafic metavolcanic
H755172	TL09-005	0.3	0.628	<0.02	0.1	294	0.8	25.1	102	40.9	TB09098211	TB09131518	21.92	23.42	mafic metavolcanic
H755173	TL09-005	0.3	0.617	<0.02	0.1	287	1.2	25.1	108	38.8	TB09098211	TB09131518	23.42	24.92	mafic metavolcanic
H755174	TL09-005	0.3	0.621	<0.02	0.1	288	1.4	25.6	93	39.9	TB09098211	TB09131518	24.92	26.82	mafic metavolcanic
H755175	TL09-005	0.3	0.576	0.02	0.1	276	0.5	22.4	80	35.7	TB09098211	TB09131518	26.82	27.19	mafic metavolcanic
H755176	TL09-005	0.3	0.623	0.16	0.1	279	0.5	23.3	91	40.7	TB09098211	TB09131518	27.19	28.11	mafic metavolcanic
H755177	TL09-005	0.3	0.619	0.06	0.1	295	0.4	26.5	96	36.5	TB09098211	TB09131518	28.11	29.12	mafic metavolcanic
H755178	TL09-005	0.3	0.64	<0.02	0.1	299	1.3	24.7	111	47.2	TB09098211	TB09131518	29.12	30.62	mafic metavolcanic
H755179	TL09-005	0.3	0.665	0.06	0.1	310	0.3	24.8	101	22	TB09098211	TB09131518	30.62	32.12	mafic metavolcanic
H755180	TL09-005	2.8	0.47	0.2	0.7	227	0.3	18.5	93	51	TB09098211	TB09131518	32.12	33.62	mafic metavolcanic
H755181	TL09-005	0.4	0.656	0.05	0.1	307	0.5	22.7	95	23.5	TB09098211	TB09131518	33.62	34.70	mafic metavolcanic
H755182	TL09-005	0.3	0.623	0.03	0.1	296	0.7	23.7	101	27.5	TB09098211	TB09131518	34.70	35.85	mafic metavolcanic
H755183	TL09-005	0.3	0.558	0.06	0.1	267	1	24.6	105	38.8	TB09098211	TB09131518	35.85	36.32	mafic metavolcanic
H755184	TL09-005	0.3	0.627	0.05	0.1	298	17.5	24.9	105	42.6	TB09098211	TB09131518	36.32	36.89	mafic metavolcanic
H755185	TL09-005	0.3	0.677	0.05	0.1	317	22.3	20.3	97	18.9	TB09098211	TB09131518	36.89	37.75	mafic metavolcanic

sample	hole	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	assay Certificate	geochem Certificate2	from	to	rock type
H755186	TL09-005	0.2	0.444	0.06	0.1	205	5.1	14.8	88	29.8	TB09098211	TB09131518	37.75	38.09	mafic metavolcanic
H755187	TL09-005	0.3	0.637	0.03	0.1	299	1.8	22.9	95	26.7	TB09098211	TB09131518	38.09	39.22	mafic metavolcanic
H755188	TL09-005	0.3	0.5	0.02	0.1	240	1.9	19.6	133	36.7	TB09098211	TB09131518	39.22	39.64	mafic metavolcanic
H755189	TL09-005	0.3	0.593	<0.02	0.1	277	0.8	21.6	93	41.5	TB09098211	TB09131518	39.64	41.14	mafic metavolcanic
H755190	TL09-005	0.3	0.505	<0.02	0.1	240	1.7	20.7	81	34.6	TB09098211	TB09131518	41.14	42.54	mafic metavolcanic
H755191	TL09-005	0.3	0.641	0.14	<0.1	283	1.1	19.6	86	24.4	TB09098211	TB09131518	42.54	42.96	mafic metavolcanic
H755192	TL09-005	0.8	0.342	0.12	0.2	129	3	14.8	101	49.2	TB09098211	TB09131518	42.96	43.43	mafic metavolcanic
H755193	TL09-005	1.2	0.237	0.07	0.3	98	5	14.4	101	62.6	TB09098211	TB09131518	43.43	44.00	mafic metavolcanic
H755194	TL09-005	0.4	0.633	0.17	0.2	209	2.2	21.5	96	52.8	TB09098211	TB09131518	44.00	44.57	mafic metavolcanic
H755195	TL09-005	0.3	0.515	<0.02	0.1	258	1.2	21	96	35.4	TB09098211	TB09131518	44.57	45.26	mafic metavolcanic
H755197	TL09-005	0.3	0.58	0.02	0.1	268	2.4	21.9	104	39.9	TB09098211	TB09131518	45.26	45.78	mafic metavolcanic
H755198	TL09-005	0.4	0.59	<0.02	0.1	275	0.7	21.8	116	47.2	TB09098211	TB09131518	45.78	46.63	mafic metavolcanic
H755199	TL09-005	0.6	0.384	<0.02	0.1	176	0.5	16.2	96	39.9	TB09098211	TB09131518	46.63	47.18	mafic metavolcanic
H755200	TL09-005	1.9	0.37	0.18	0.4	127	0.8	13.7	107	74.1	TB09098211	TB09131518	47.18	47.81	mafic metavolcanic
H755201	TL09-005	0.3	0.622	0.04	0.1	294	0.7	24.9	90	47.5	TB09098211	TB09131518	47.81	49.31	mafic metavolcanic
H755202	TL09-005	0.4	0.591	0.02	0.1	280	0.8	22.5	96	47.7	TB09098211	TB09131518	49.31	50.50	mafic metavolcanic
H755203	TL09-005	0.4	0.521	<0.02	0.1	251	0.7	20.1	72	30	TB09098211	TB09131518	50.50	51.00	mafic metavolcanic
H755204	TL09-005	1.6	0.561	0.09	0.4	261	0.8	21.7	96	49.6	TB09098211	TB09131518	51.00	51.91	mafic metavolcanic
H755205	TL09-005	1.7	0.472	0.08	0.4	178	1	16.2	84	63	TB09098211	TB09131518	51.91	53.30	mafic metavolcanic
H755206	TL09-005	4.4	0.403	0.3	1.4	118	0.3	12.3	79	118.5	TB09098211	TB09131518	53.30	54.80	bt diorite
H755207	TL09-005	4.7	0.427	0.41	1.4	132	0.3	12.7	81	126.5	TB09098211	TB09131518	54.80	56.50	bt diorite
H755208	TL09-005	4.2	0.425	0.26	1.2	123	0.5	12.1	71	107	TB09098211	TB09131518	56.50	57.20	bt diorite
H755209	TL09-005	4.3	0.401	0.29	1.2	115	0.5	12	72	108	TB09098211	TB09131518	57.20	58.40	bt diorite
H755210	TL09-005	4.1	0.378	0.36	1.3	108	0.4	11.1	75	108.5	TB09098211	TB09131518	58.40	59.50	bt diorite
H755211	TL09-005	4.2	0.371	0.32	1.4	105	1.8	10.9	76	112	TB09098211	TB09131518	59.50	60.47	bt diorite
H755212	TL09-005	0.6	0.617	0.12	0.1	284	0.9	21.5	92	41.6	TB09098211	TB09131518	60.47	61.35	mafic metavolcanic
H755213	TL09-005	0.3	0.628	0.08	0.1	303	0.9	22.6	86	38.7	TB09098211	TB09131518	61.35	62.60	mafic metavolcanic
H755214	TL09-005	0.2	0.34	<0.02	0.1	171	0.4	17.2	264	23.9	TB09098211	TB09131518	62.60	63.06	mafic metavolcanic
H755215	TL09-005	0.2	0.465	0.03	0.1	225	0.6	17.4	80	23.3	TB09098211	TB09131518	63.06	64.56	mafic metavolcanic
H755216	TL09-005	0.2	0.451	0.06	<0.1	219	0.5	15.4	82	22.9	TB09098211	TB09131518	64.56	66.00	mafic metavolcanic
H755217	TL09-005	0.2	0.294	0.02	<0.1	153	0.3	13.8	114	14.9	TB09098211	TB09131518	66.00	66.31	mafic metavolcanic
H755218	TL09-005	0.2	0.486	0.09	<0.1	228	0.6	17	89	21	TB09098211	TB09131518	66.31	67.81	mafic metavolcanic
H755219	TL09-005	0.3	0.545	0.07	0.1	255	0.7	20.9	94	21.2	TB09098211	TB09131518	67.81	69.00	mafic metavolcanic
H755220	TL09-005	0.3	0.523	0.02	0.1	247	0.7	23.5	87	28.7	TB09098211	TB09131518	69.00	70.00	mafic metavolcanic
H755222	TL09-005	0.2	0.382	<0.02	<0.1	178	0.4	17.8	76	19	TB09098211	TB09131518	70.00	71.27	mafic metavolcanic
H755223	TL09-005	0.3	0.499	<0.02	0.1	241	0.5	23.1	82	27.5	TB09098211	TB09131518	71.27	72.77	mafic metavolcanic
H755224	TL09-005	0.2	0.392	0.02	<0.1	192	0.5	17.2	70	20.9	TB09098211	TB09131518	72.77	73.59	mafic metavolcanic
H755225	TL09-005	0.3	0.56	0.02	0.1	266	0.6	23.7	78	38	TB09098211	TB09131518	73.59	75.09	mafic metavolcanic
H755226	TL09-005	0.3	0.506	<0.02	0.1	242	0.6	20.2	84	27.4	TB09098211	TB09131518	75.09	76.58	mafic metavolcanic
H755227	TL09-005	0.3	0.543	0.09	0.1	250	0.5	19	100	17.3	TB09098211	TB09131518	76.58	77.00	mafic metavolcanic
H755228	TL09-005	0.3	0.521	0.05	0.1	242	0.6	20.9	98	31.9	TB09098211	TB09131518	77.00	77.57	mafic metavolcanic
H755229	TL09-005	1.9	0.42	0.17	0.5	163	0.8	15.5	463	54.9	TB09098211	TB09131518	77.57	78.18	mafic metavolcanic
H755230	TL09-005	0.2	0.506	0.02	0.1	246	0.5	21.5	94	23.5	TB09098211	TB09131518	78.18	79.20	mafic metavolcanic
H755231	TL09-005	0.3	0.51	0.16	0.1	248	0.6	21.2	115	29.7	TB09098211	TB09131518	79.20	80.24	mafic metavolcanic
H755232	TL09-005	2.6	0.423	0.39	0.6	126	0.7	17.5	57	80	TB09098211	TB09131518	80.24	80.52	mafic metavolcanic
H755233	TL09-005	0.4	0.479	0.14	0.1	224	1.4	19.3	99	28.3	TB09098211	TB09131518	80.52	81.00	mafic metavolcanic
H755234	TL09-005	0.3	0.54	0.04	0.1	258	1.2	23.6	91	23.9	TB09098211	TB09131518	81.00	82.47	mafic metavolcanic

Partial Geochemistry

sample	hole	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	assay Certificate	geochem Certificate2	from	to	rock type
H755235	TL09-005	1.2	0.438	0.18	0.3	178	1.4	17.7	94	38.4	TB09098211	TB09131518	82.47	83.23	mafic metavolcanic
H755236	TL09-005	0.2	0.441	<0.02	0.1	223	0.6	17.1	94	20.4	TB09098211	TB09131518	83.23	84.45	mafic metavolcanic
H755237	TL09-005	6.9	0.4	0.29	1.9	170	22.6	18.9	83	134	TB09098211	TB09131518	84.45	85.33	mafic metavolcanic
H755238	TL09-005	0.3	0.567	<0.02	0.1	268	1.9	20.1	86	15.8	TB09098211	TB09131518	85.33	86.33	mafic metavolcanic
H755239	TL09-005	0.3	0.556	<0.02	0.1	263	0.7	21.2	77	18.3	TB09098211	TB09131518	86.33	87.40	mafic metavolcanic
H755240	TL09-005	0.2	0.483	0.17	0.1	208	3.5	18.4	89	28.9	TB09098211	TB09131518	87.40	87.83	mafic metavolcanic
H755241	TL09-005	0.3	0.527	0.04	0.1	254	0.7	23.4	99	27.6	TB09098211	TB09131518	87.83	88.55	mafic metavolcanic
H755242	TL09-005	0.3	0.525	<0.02	0.1	245	0.6	20	82	26.6	TB09098211	TB09131518	88.55	90.00	mafic metavolcanic
H755243	TL09-005	0.3	0.514	0.15	0.1	236	1	19.4	102	26.9	TB09098211	TB09131518	90.00	90.41	mafic metavolcanic
H755244	TL09-005	0.3	0.533	0.02	0.1	250	0.6	19.6	93	31.3	TB09098211	TB09131518	90.41	91.28	mafic metavolcanic
H755245	TL09-005	0.3	0.542	<0.02	0.1	263	0.6	20.8	94	24.2	TB09098211	TB09131518	91.28	92.28	mafic metavolcanic
H755247	TL09-005	0.3	0.538	<0.02	0.1	256	0.7	20.4	81	27.3	TB09098211	TB09131518	92.28	93.35	mafic metavolcanic
H755248	TL09-005	1.6	0.462	0.24	0.4	211	1.2	17.2	106	62.3	TB09098211	TB09131518	93.35	94.13	mafic metavolcanic
H755249	TL09-005	1.9	0.319	0.13	0.5	91	1.2	14.4	101	79.3	TB09098211	TB09131518	94.13	94.96	mafic metavolcanic
H755250	TL09-005	2	0.324	0.12	0.5	85	0.3	15.5	88	73.6	TB09098211	TB09131518	94.96	95.62	mafic metavolcanic
H755251	TL09-005	1.7	0.339	0.26	0.4	89	0.4	14	63	59.8	TB09098211	TB09131518	95.62	96.19	mafic metavolcanic
H755252	TL09-005	0.2	0.427	<0.02	0.1	207	0.6	16.6	67	26.8	TB09098211	TB09131518	96.19	96.89	mafic metavolcanic
H755253	TL09-005	0.3	0.492	<0.02	0.1	232	0.7	19.6	72	26.9	TB09098211	TB09131518	96.89	98.39	mafic metavolcanic
H755254	TL09-005	0.3	0.513	<0.02	0.1	245	0.7	20	78	28.8	TB09098211	TB09131518	98.39	99.89	mafic metavolcanic
H755255	TL09-005	0.3	0.506	<0.02	0.1	236	0.8	23	65	30.8	TB09098211	TB09131518	99.89	101.39	mafic metavolcanic
H755256	TL09-005	0.3	0.491	<0.02	0.1	237	0.7	19.8	73	29.5	TB09098211	TB09131518	101.39	102.89	mafic metavolcanic
H755257	TL09-005	0.3	0.528	0.02	0.1	252	0.5	21	81	33.8	TB09098211	TB09131518	102.89	104.39	mafic metavolcanic
H755258	TL09-005	0.3	0.526	<0.02	0.1	251	0.3	23	85	34.2	TB09098211	TB09131518	104.39	105.89	mafic metavolcanic
H755259	TL09-005	0.3	0.54	<0.02	0.1	263	0.2	21.2	85	27.8	TB09098211	TB09131518	105.89	107.39	mafic metavolcanic
H755260	TL09-005	0.3	0.51	<0.02	0.1	251	0.2	23.4	86	30.1	TB09098211	TB09131518	107.39	108.89	mafic metavolcanic
H755261	TL09-005	0.3	0.54	<0.02	0.1	264	0.1	21.2	94	31.6	TB09098211	TB09131518	108.89	110.39	mafic metavolcanic
H755262	TL09-005	0.3	0.616	<0.02	0.1	288	0.2	23.8	99	36.7	TB09098211	TB09131518	110.39	111.89	mafic metavolcanic
H755263	TL09-005	0.3	0.588	<0.02	0.1	268	0.2	23.3	97	34.7	TB09098211	TB09131518	111.89	113.39	mafic metavolcanic
H755264	TL09-005	0.3	0.503	<0.02	0.1	251	0.2	20.5	91	23.2	TB09098211	TB09131518	113.39	114.89	mafic metavolcanic
H755265	TL09-005	0.3	0.505	<0.02	0.1	255	0.2	20.8	92	30.1	TB09098211	TB09131518	114.89	116.39	mafic metavolcanic
H755266	TL09-005	0.3	0.489	<0.02	0.1	239	0.2	21.8	88	30.5	TB09098211	TB09131518	116.39	117.89	mafic metavolcanic
H755267	TL09-005	0.2	0.488	0.15	0.1	241	0.2	18.3	82	26.8	TB09098211	TB09131518	117.89	119.39	mafic metavolcanic
H755268	TL09-005	0.3	0.475	0.26	0.1	240	0.4	18.6	86	25.1	TB09098211	TB09131518	119.39	120.89	mafic metavolcanic
H755269	TL09-005	0.2	0.499	0.17	0.1	240	0.6	20.1	82	27	TB09098211	TB09131518	120.89	122.39	mafic metavolcanic
H755270	TL09-005	0.3	0.525	0.05	0.1	249	0.7	20.6	76	27.8	TB09098211	TB09131518	122.39	123.89	mafic metavolcanic
H755272	TL09-005	0.4	0.55	0.06	0.1	263	0.5	22.1	81	31	TB09098211	TB09131518	123.89	125.39	mafic metavolcanic
H755273	TL09-005	0.3	0.592	0.13	0.1	274	0.9	20.5	101	31.6	TB09098211	TB09131518	125.39	126.89	mafic metavolcanic
H755274	TL09-005	0.3	0.533	0.08	0.1	256	0.6	18.4	90	31	TB09098211	TB09131518	126.89	128.39	mafic metavolcanic
H755275	TL09-005	0.3	0.534	0.47	0.1	257	0.4	17	79	16.2	TB09098211	TB09131518	128.39	128.88	mafic metavolcanic
H755276	TL09-005	<0.2	0.168	0.02	<0.1	91	0.3	8.6	75	14.2	TB09098211	TB09131518	128.88	129.33	mafic metavolcanic
H755277	TL09-005	0.3	0.601	0.55	0.1	279	0.8	19	65	15.3	TB09098211	TB09131518	129.33	129.68	mafic metavolcanic
H755278	TL09-005	3.2	0.337	0.21	0.8	189	0.3	12.9	75	74.8	TB09098211	TB09131518	129.68	131.18	mafic metavolcanic
H755279	TL09-005	3.2	0.31	0.23	0.8	167	0.3	12.2	69	70.7	TB09098211	TB09131518	131.18	132.50	mafic metavolcanic
H755280	TL09-005	3.7	0.275	0.23	0.9	152	0.2	11.5	80	76.9	TB09098211	TB09131518	132.50	133.63	mafic metavolcanic
H755281	TL09-005	0.3	0.505	0.05	0.1	247	0.5	17.9	73	16.1	TB09098211	TB09131518	133.63	135.00	mafic metavolcanic
H755282	TL09-005	0.2	0.505	0.03	0.1	246	0.5	19.5	84	16.5	TB09098211	TB09131518	135.00	136.30	mafic metavolcanic
H755283	TL09-005	0.5	0.406	0.02	0.1	197	2.4	16	72	26	TB09098211	TB09131518	136.30	136.82	mafic metavolcanic

Partial Geochemistry

sample	hole	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	assay Certificate	geochem Certificate2	from	to	rock type
H755284	TL09-005	0.3	0.527	0.05	0.1	253	0.5	19.6	76	18.6	TB09098211	TB09131518	136.82	138.00	mafic metavolcanic
H755285	TL09-005	0.2	0.445	0.04	<0.1	223	0.5	18.2	88	25	TB09098211	TB09131518	138.00	138.92	mafic metavolcanic
H755286	TL09-005	0.3	0.481	0.05	0.1	229	0.7	18.6	71	25.5	TB09098211	TB09131518	138.92	139.32	mafic metavolcanic
H755287	TL09-005	0.2	0.5	0.15	0.1	247	0.6	17.7	72	15.7	TB09098211	TB09131518	139.32	140.82	mafic metavolcanic
H755288	TL09-005	1.2	0.567	0.14	0.3	271	0.9	22.4	82	41	TB09098211	TB09131518	140.82	142.39	mafic metavolcanic
H755289	TL09-005	0.4	0.625	0.05	0.1	312	0.8	23.5	81	23.4	TB09098211	TB09131518	142.39	143.89	mafic metavolcanic
H755290	TL09-005	0.3	0.552	0.05	0.1	264	1	21	83	26.9	TB09098211	TB09131518	143.89	145.39	mafic metavolcanic
H755291	TL09-005	0.4	0.55	0.06	0.1	255	0.7	24.3	87	20.7	TB09098211	TB09131518	145.39	146.89	mafic metavolcanic
H755292	TL09-005	0.3	0.473	0.03	<0.1	220	0.7	17.7	80	16.9	TB09098211	TB09131518	146.89	148.39	mafic metavolcanic
H755293	TL09-005	0.2	0.519	0.05	0.1	249	1.4	21	85	15.1	TB09098211	TB09131518	148.39	149.89	mafic metavolcanic
H755294	TL09-005	0.3	0.482	0.06	0.1	226	1.2	22.2	93	21.1	TB09098211	TB09131518	149.89	151.05	mafic metavolcanic
H755295	TL09-005	1.1	0.499	0.13	0.3	213	4.7	20.3	80	44.9	TB09098211	TB09131518	151.05	151.65	mafic metavolcanic
H755297	TL09-005	0.3	0.522	0.11	0.1	238	2.2	21.5	94	25.3	TB09098211	TB09131518	151.65	153.15	mafic metavolcanic
H755298	TL09-005	0.2	0.538	0.07	0.1	266	2.4	22.7	107	21.6	TB09098211	TB09131518	153.15	154.65	mafic metavolcanic
H755299	TL09-005	0.3	0.509	0.03	0.1	248	0.7	22.3	83	19.5	TB09098211	TB09131518	154.65	156.15	mafic metavolcanic
H755300	TL09-005	0.3	0.497	0.03	0.1	242	0.6	23.8	79	25.7	TB09098211	TB09131518	156.15	157.65	mafic metavolcanic
H755301	TL09-005	0.2	0.512	0.05	0.2	251	0.4	20.7	89	19.9	TB09098211	TB09131518	157.65	159.15	mafic metavolcanic
H755302	TL09-005	0.2	0.514	0.04	<0.1	253	0.4	19.6	85	16.9	TB09098211	TB09131518	159.15	160.65	mafic metavolcanic
H755303	TL09-005	0.2	0.525	0.04	0.1	255	0.7	22	101	20.7	TB09098211	TB09131518	160.65	162.15	mafic metavolcanic
H755304	TL09-005	0.4	0.541	0.02	0.1	256	0.9	24.2	86	21.4	TB09098211	TB09131518	162.15	163.25	mafic metavolcanic
H755305	TL09-005	0.3	0.549	0.04	0.1	265	0.9	22.8	88	21.1	TB09098211	TB09131518	163.25	164.25	mafic metavolcanic
H755306	TL09-005	3.5	0.554	0.23	1	146	0.4	16.7	72	103	TB09098211	TB09131518	164.25	165.50	mafic metavolcanic
H755307	TL09-005	0.3	0.555	0.19	0.1	272	0.7	19.7	88	16.9	TB09098211	TB09131518	165.50	167.00	mafic metavolcanic
H755308	TL09-005	0.2	0.488	0.09	0.1	224	1	20.8	74	16.3	TB09098211	TB09131518	167.00	168.50	mafic metavolcanic
H755309	TL09-005	0.2	0.431	0.1	0.1	221	0.7	24.5	88	14.4	TB09098211	TB09131518	168.50	170.00	mafic metavolcanic
H755310	TL09-005	0.3	0.596	0.16	0.1	275	0.9	23.1	71	16.3	TB09098211	TB09131518	170.00	170.90	mafic metavolcanic
H755311	TL09-005	0.2	0.518	0.03	<0.1	249	0.7	22.7	75	18	TB09098211	TB09131518	170.90	172.00	mafic metavolcanic
H755312	TL09-005	0.2	0.389	0.08	0.1	207	0.5	22.1	104	17.8	TB09098211	TB09131518	172.00	173.54	mafic metavolcanic
H755313	TL09-005	8.2	0.378	0.29	1.9	143	0.3	17.4	84	114.5	TB09098211	TB09131518	173.54	174.00	bt diorite
H755314	TL09-006	4.5	0.265	0.09	1.3	73	0.7	8.1	41	115	TB09098214	TB09130995	2.50	4.00	diorite
H755315	TL09-006	4.5	0.265	0.15	1.3	65	0.7	7.8	43	121.5	TB09098214	TB09130995	4.00	5.50	diorite
H755316	TL09-006	3.8	0.264	0.16	1.2	66	1.6	7.2	47	117.5	TB09098214	TB09130995	5.50	6.58	diorite
H755317	TL09-006	5.8	0.278	0.16	1.3	76	2.7	9.2	46	134.5	TB09098214	TB09130995	6.58	7.98	diorite
H755318	TL09-006	4	0.384	0.2	1.1	183	2.8	16.6	86	78.9	TB09098214	TB09130995	7.98	9.32	diorite
H755319	TL09-006	4.5	0.262	0.15	1.2	70	1	7.9	42	112.5	TB09098214	TB09130995	9.32	10.75	diorite
H755320	TL09-006	5.5	0.39	0.25	1.4	112	4	12.5	75	117.5	TB09098214	TB09130995	10.75	11.77	diorite
H755322	TL09-006	5.1	0.444	0.16	1.4	123	4.3	13.3	70	114	TB09098214	TB09130995	11.77	12.75	diorite
H755323	TL09-006	6.3	0.355	0.18	1.3	137	3.1	13	79	90.3	TB09098214	TB09130995	12.75	13.25	diorite
H755324	TL09-006	6.8	0.391	0.2	1.5	113	1.6	13.5	74	119	TB09098214	TB09130995	13.25	14.15	diorite
H755325	TL09-006	6	0.393	0.23	1.3	143	16.9	12.5	80	87.8	TB09098214	TB09130995	14.15	15.34	diorite
H755326	TL09-006	6.3	0.406	0.24	1.5	115	14.8	12.4	75	102.5	TB09098214	TB09130995	15.34	15.73	diorite
H755327	TL09-006	5.8	0.367	0.19	1.4	126	2.3	13.7	82	115.5	TB09098214	TB09130995	15.73	16.70	diorite
H755328	TL09-006	7.1	0.382	0.22	1.6	110	3.4	13.5	69	115	TB09098214	TB09130995	16.70	18.20	diorite
H755329	TL09-006	5.4	0.363	0.22	1.4	108	1.6	12.2	75	100.5	TB09098214	TB09130995	18.20	19.70	diorite
H755330	TL09-006	4.9	0.351	0.2	1.5	102	1.3	12.4	90	111.5	TB09098214	TB09130995	19.70	21.20	diorite
H755331	TL09-006	4.9	0.337	0.16	1.3	106	2	11.2	75	106.5	TB09098214	TB09130995	21.20	22.09	diorite
H755332	TL09-006	5.7	0.314	0.15	1.3	93	2.6	10	64	96.8	TB09098214	TB09130995	22.09	22.48	diorite

Partial Geochemistry

sample	hole	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	assay Certificate	geochem Certificate2	from	to	rock type
H755333	TL09-006	6.1	0.442	0.15	1.6	178	7	16.2	79	89.1	TB09098214	TB09130995	22.48	22.89	diorite
H755334	TL09-006	6.6	0.356	0.16	1.5	108	4.7	13.2	74	114.5	TB09098214	TB09130995	22.89	24.39	diorite
H755335	TL09-006	6.3	0.388	0.17	1.5	112	9.6	14	76	105	TB09098214	TB09130995	24.39	25.69	diorite
H755336	TL09-006	4.5	0.415	0.28	1	127	26.8	11.6	79	116.5	TB09098214	TB09130995	25.69	26.05	diorite
H755337	TL09-006	5	0.37	0.18	1.4	106	3	13.1	75	97.6	TB09098214	TB09130995	26.05	26.57	diorite
H755338	TL09-006	5	0.359	0.19	1.3	102	8.9	12	75	90.9	TB09098214	TB09130995	26.57	27.43	diorite
H755339	TL09-006	6.3	0.365	0.22	1.5	106	1.9	12.4	90	109.5	TB09098214	TB09130995	27.43	28.93	diorite
H755340	TL09-006	6.4	0.316	0.2	1.4	89	9.5	11.6	69	101	TB09098214	TB09130995	28.93	29.87	diorite
H755341	TL09-006	6.2	0.372	0.16	1.5	107	2.5	12.8	85	113	TB09098214	TB09130995	29.87	31.37	diorite
H755342	TL09-006	5.3	0.297	0.15	1.2	84	5.9	11.4	70	83.6	TB09098214	TB09130995	31.37	32.10	diorite
H755343	TL09-006	5.6	0.439	0.17	1.3	121	3.7	13.6	73	98.3	TB09098214	TB09130995	32.10	33.26	diorite
H755344	TL09-006	6.1	0.368	0.21	1.5	110	11.6	12.6	70	112	TB09098214	TB09130995	33.26	34.26	diorite
H755345	TL09-006	4.4	0.409	0.18	1.1	164	10.4	16.1	69	81.2	TB09098214	TB09130995	34.26	35.21	diorite
H755347	TL09-006	6.1	0.338	0.14	1.4	111	1.5	11.6	73	91.4	TB09098214	TB09130995	35.21	36.06	diorite
H755348	TL09-006	4.4	0.342	0.19	1.1	126	1.2	12.8	87	76.2	TB09098214	TB09130995	36.06	36.96	diorite
H755349	TL09-006	5.1	0.415	0.19	1.3	128	1.7	13.1	73	88.2	TB09098214	TB09130995	36.96	38.04	diorite
H755350	TL09-006	5.6	0.383	0.13	1.6	131	40	14.4	55	83.9	TB09098214	TB09130995	38.04	38.53	diorite
H755351	TL09-006	5.1	0.348	0.15	1.4	124	1.5	11.9	63	86.1	TB09098214	TB09130995	38.53	39.53	diorite
H755352	TL09-006	5.7	0.364	0.15	1.5	111	1.2	11.3	62	100	TB09098214	TB09130995	39.53	40.62	diorite
H755353	TL09-006	4.2	0.498	0.14	1.1	140	2.4	12.8	66	83.1	TB09098214	TB09130995	40.62	41.36	diorite
H755354	TL09-006	4.4	0.387	0.13	1.1	123	1.5	10.7	74	80.6	TB09098214	TB09130995	41.36	42.86	diorite
H755355	TL09-006	5.1	0.364	0.15	1.4	116	0.8	10.4	80	92.3	TB09098214	TB09130995	42.86	44.18	diorite
H755356	TL09-006	6.4	0.35	0.15	1.6	109	0.5	10.9	83	103	TB09098214	TB09130995	44.18	45.66	diorite
H755357	TL09-006	6.2	0.353	0.15	1.6	112	0.9	10.8	81	98	TB09098214	TB09130995	45.66	47.16	diorite
H755358	TL09-006	6.1	0.356	0.17	1.6	107	0.6	10.6	75	95.5	TB09098214	TB09130995	47.16	48.50	diorite
H755359	TL09-006	5.8	0.329	0.18	1.5	106	2.7	10.7	71	95.1	TB09098214	TB09130995	48.50	49.50	diorite
H755360	TL09-006	2.4	0.584	0.18	0.6	164	31.8	13.7	93	73.4	TB09098214	TB09130995	49.50	49.99	diorite
H755361	TL09-006	4.9	0.364	0.16	1.4	115	1.4	10.5	81	101.5	TB09098214	TB09130995	49.99	51.15	diorite
H755362	TL09-006	6.5	0.354	0.16	1.6	110	1.9	11.5	73	106	TB09098214	TB09130995	51.15	52.34	diorite
H755363	TL09-006	6.8	0.339	0.18	1.5	104	5.3	11.7	60	101	TB09098214	TB09130995	52.34	52.75	diorite
H755364	TL09-006	4.5	0.467	0.18	1.2	131	6.9	12.5	65	96.1	TB09098214	TB09130995	52.75	54.25	diorite
H755365	TL09-006	4.9	0.382	0.2	1.4	115	2.5	10.4	72	100.5	TB09098214	TB09130995	54.25	55.58	diorite
H755366	TL09-006	3.2	0.362	0.24	0.8	157	2.5	12.4	88	85	TB09098214	TB09130995	55.58	57.00	diorite
H755367	TL09-006	6	0.381	0.18	1.5	117	9	11	65	107.5	TB09098214	TB09130995	57.00	58.00	diorite
H755368	TL09-006	4.6	0.319	0.1	1.1	90	12	9.5	45	93.2	TB09098214	TB09130995	58.00	58.47	diorite
H755369	TL09-006	5	0.296	0.12	1.3	82	2.1	9.8	43	113	TB09098214	TB09130995	58.47	59.39	diorite
H755370	TL09-006	3.3	0.352	0.25	0.9	151	0.8	11.7	85	90.9	TB09098214	TB09130995	59.39	60.70	diorite
H755372	TL09-006	3.4	0.354	0.28	0.9	147	0.8	11.8	85	93.5	TB09098214	TB09130995	60.70	61.62	diorite
H755373	TL09-006	5.1	0.353	0.2	1.3	106	1.6	10.5	66	102.5	TB09098214	TB09130995	61.62	63.00	fault
H755374	TL09-006	4.3	0.286	0.18	1.1	99	11.5	8.4	60	97.3	TB09098214	TB09130995	63.00	66.00	fault
H755375	TL09-006	5.3	0.287	0.18	1.3	82	0.7	9.5	55	111	TB09098214	TB09130995	66.00	67.50	diorite
H755376	TL09-006	5.5	0.28	0.21	1.5	82	0.7	9.9	60	119	TB09098214	TB09130995	67.50	69.00	diorite
H755377	TL09-006	5	0.275	0.2	1.3	83	1	9.3	59	112.5	TB09098214	TB09130995	69.00	70.50	diorite
H755378	TL09-006	4.4	0.304	0.2	1.2	99	0.8	9.6	56	99.3	TB09098214	TB09130995	70.50	72.00	diorite
H755379	TL09-006	4.6	0.309	0.16	1.2	104	0.9	10.1	60	91.3	TB09098214	TB09130995	72.00	73.00	contact zone
H755380	TL09-006	3.6	0.377	0.18	1	132	1.7	11.3	75	86.6	TB09098214	TB09130995	73.00	74.13	contact zone
H755381	TL09-006	4.1	0.369	0.16	1	139	1.2	12.7	52	89.1	TB09098214	TB09130995	74.13	75.63	contact zone

Partial Geochemistry

sample	hole	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	assay Certificate	geochem Certificate2	from	to	rock type
H755382	TL09-006	3.8	0.337	0.16	0.9	138	1.8	11.5	69	85.6	TB09098214	TB09130995	75.63	77.13	contact zone
H755383	TL09-006	4.9	0.29	0.17	1.3	90	5.9	9.2	58	105	TB09098214	TB09130995	77.13	78.63	contact zone
H755384	TL09-006	4.4	0.344	0.17	1	116	5.2	10.7	63	93.1	TB09098214	TB09130995	78.63	79.35	contact zone
H755385	TL09-006	3.7	0.4	0.18	1	136	22.6	11.5	70	82.3	TB09098214	TB09130995	79.35	79.78	contact zone
H755386	TL09-006	4.2	0.309	0.15	1.2	104	7.2	9.5	59	97.8	TB09098214	TB09130995	79.78	81.00	contact zone
H755387	TL09-006	4.9	0.27	0.14	1.2	80	17.1	8.2	45	107	TB09098214	TB09130995	81.00	81.41	contact zone
H755388	TL09-006	3.7	0.379	0.16	1.1	118	5.3	10	64	101	TB09098214	TB09130995	81.41	82.59	contact zone
H755389	TL09-006	1.5	0.298	0.12	0.4	140	0.5	8.5	110	48.3	TB09098214	TB09130995	82.59	83.03	contact zone
H755390	TL09-006	4.5	0.385	0.13	1.2	111	7.9	9.7	62	103	TB09098214	TB09130995	83.03	83.64	contact zone
H755391	TL09-006	4.5	0.32	0.18	1.4	109	16	9.5	63	103	TB09098214	TB09130995	83.64	84.76	contact zone
H755392	TL09-006	4.1	0.264	0.15	1.5	78	39.9	9.3	63	86.1	TB09098214	TB09130995	84.76	85.22	contact zone
H755393	TL09-006	3.9	0.325	0.14	1.2	100	6.6	8.8	61	98	TB09098214	TB09130995	85.22	86.41	contact zone
H755394	TL09-006	3.1	0.406	0.18	1	155	49.3	11.8	79	77.9	TB09098214	TB09130995	86.41	87.63	contact zone
H755395	TL09-006	4.5	0.316	0.22	1.3	100	23.1	9	52	108	TB09098214	TB09130995	87.63	89.13	diorite
H755397	TL09-006	5	0.352	0.24	1.5	118	36.4	11.4	64	115.5	TB09098214	TB09130995	89.13	90.63	diorite
H755398	TL09-006	4.6	0.424	0.3	1.2	131	79	11.1	85	87.9	TB09098214	TB09130995	90.63	92.05	diorite
H755399	TL09-006	4.4	0.43	0.25	1.2	130	52.1	10.6	82	96.9	TB09098214	TB09130995	92.05	92.46	diorite
H755400	TL09-006	3.4	0.409	0.19	0.9	138	14.4	11.3	83	85	TB09098214	TB09130995	92.46	93.96	diorite
H755401	TL09-006	3.1	0.409	0.14	0.8	133	5.4	11.2	70	85.9	TB09098214	TB09130995	93.96	94.73	diorite
H755402	TL09-006	4.4	0.368	0.14	1	116	20	10.3	63	76.5	TB09098214	TB09130995	94.73	95.17	diorite
H755403	TL09-006	5	0.437	0.19	1.3	129	16.3	11	81	103	TB09098214	TB09130995	95.17	96.67	diorite
H755404	TL09-006	4	0.432	0.17	1.1	145	16.4	11.4	73	94.6	TB09098214	TB09130995	96.67	98.17	diorite
H755405	TL09-006	4.2	0.449	0.24	1.3	149	41.4	10.6	91	106	TB09098214	TB09130995	98.17	98.61	diorite
H755406	TL09-006	3.7	0.442	0.11	1	159	2.1	12.6	87	88.3	TB09098214	TB09130995	98.61	100.11	diorite
H755407	TL09-006	3.1	0.45	0.1	0.9	154	5.2	12.5	81	77.6	TB09098214	TB09130995	100.11	101.61	diorite
H755408	TL09-006	4.7	0.459	0.13	1.2	136	2	11.6	87	100.5	TB09098214	TB09130995	101.61	103.11	diorite
H755409	TL09-006	4.8	0.414	0.18	1.2	121	3.9	11.3	86	98.3	TB09098214	TB09130995	103.11	104.63	diorite
H755410	TL09-006	4.6	0.442	0.15	1.2	131	1.7	11.5	91	102	TB09098214	TB09130995	104.63	106.13	diorite
H755411	TL09-006	5.3	0.449	0.18	1.3	132	7.9	12	101	109.5	TB09098214	TB09130995	106.13	107.63	diorite
H755412	TL09-006	4.4	0.439	0.19	1	138	26.9	11.5	88	84.3	TB09098214	TB09130995	107.63	109.23	diorite
H755413	TL09-006	4.2	0.393	0.18	1.1	135	7.3	10.6	84	86.3	TB09098214	TB09130995	109.23	109.92	diorite
H755414	TL09-006	4.1	0.418	0.13	1.1	135	7.6	11.3	89	95.1	TB09098214	TB09130995	109.92	111.25	diorite
H755415	TL09-006	2.9	0.244	0.1	0.7	77	19.9	6.9	45	64.2	TB09098214	TB09130995	111.25	111.61	diorite
H755416	TL09-006	3.8	0.249	0.15	1	86	62.2	7.8	49	79.5	TB09098214	TB09130995	111.61	112.50	diorite
H755417	TL09-006	3	0.35	0.22	0.9	133	34.8	10.4	70	83.8	TB09098214	TB09130995	112.50	113.72	contact zone
H755418	TL09-006	3.5	0.256	0.17	0.9	115	24	8.9	91	72.5	TB09098214	TB09130995	113.72	115.38	contact zone
H755419	TL09-006	11.1	0.583	0.2	2.1	145	29	14.1	79	101.5	TB09098214	TB09130995	115.38	116.23	contact zone
H755420	TL09-006	3.3	0.363	0.17	0.8	141	23.1	11.3	102	70.9	TB09098214	TB09130995	116.23	117.73	contact zone
H755422	TL09-006	4	0.373	0.16	1.1	118	8.1	10.9	65	92.3	TB09098214	TB09130995	117.73	118.38	contact zone
H755423	TL09-006	3.3	0.35	0.25	1	134	101	10.7	63	81.9	TB09098214	TB09130995	118.38	119.11	contact zone
H755424	TL09-006	0.6	0.217	0.04	0.2	151	2	7.8	101	26.8	TB09098214	TB09130995	119.11	119.79	contact zone
H755425	TL09-006	2.8	0.39	0.27	0.9	157	39.1	12.4	69	71.4	TB09098214	TB09130995	119.79	121.29	contact zone
H755426	TL09-006	3.7	0.365	0.26	1	152	73.2	14.8	73	80.1	TB09098214	TB09130995	121.29	122.79	contact zone
H755427	TL09-006	5.8	0.317	0.38	1.4	116	17.9	13.2	71	93.5	TB09098214	TB09130995	122.79	123.64	contact zone
H755428	TL09-006	2.8	0.378	0.27	0.8	159	81	15.7	84	67.8	TB09098214	TB09130995	123.64	125.33	contact zone
H755429	TL09-006	3.5	0.405	0.2	0.8	169	26.8	18.7	79	71.6	TB09098214	TB09130995	125.33	126.50	contact zone
H755430	TL09-006	3.4	0.411	0.14	0.9	173	10.9	16	76	62.9	TB09098214	TB09130995	126.50	127.44	contact zone

Partial Geochemistry

sample	hole	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	assay Certificate	geochem Certificate2	from	to	rock type
H755431	TL09-006	6.7	0.441	0.24	1.7	176	21.5	17	95	92.2	TB09098214	TB09130995	127.44	128.00	contact zone
H755432	TL09-006	3.1	0.288	0.16	0.9	124	9.8	12.9	80	64.1	TB09098214	TB09130995	128.00	129.50	contact zone
H755433	TL09-006	5	0.371	0.25	1	148	26	16.4	71	80.8	TB09098214	TB09130995	129.50	131.00	contact zone
H755434	TL09-006	2.7	0.412	0.13	0.7	155	2.4	13	93	50.5	TB09098214	TB09130995	131.00	132.71	contact zone
H755435	TL09-006	7.1	0.302	0.24	1.7	107	10.6	13.8	51	101.5	TB09098214	TB09130995	132.71	134.33	contact zone
H755436	TL09-006	2.2	0.17	0.18	0.7	57	12.1	8.1	31	67.8	TB09098214	TB09130995	134.33	135.83	contact zone
H755437	TL09-006	1.8	0.126	0.2	0.6	38	14.6	5.6	32	68	TB09098214	TB09130995	135.83	137.34	contact zone
H755438	TL09-006	2.3	0.3	0.5	0.7	162	51.1	13.9	128	51	TB09098214	TB09130995	137.34	138.40	mafic metavolcanic
H755439	TL09-006	4.3	0.367	0.44	1.2	186	85.9	18.8	115	79	TB09098214	TB09130995	138.40	139.71	mafic metavolcanic
H755440	TL09-006	4	0.29	0.27	1.1	127	13.7	15.4	75	78.8	TB09098214	TB09130995	139.71	140.59	mafic metavolcanic
H755441	TL09-006	0.9	0.315	0.15	0.3	161	4.1	14.5	139	34.3	TB09098214	TB09130995	140.59	142.09	mafic metavolcanic
H755442	TL09-006	4.6	0.364	0.44	1.3	193	3.7	18.6	101	80.8	TB09098214	TB09130995	142.09	143.59	mafic metavolcanic
H755443	TL09-006	5	0.374	0.27	1.4	174	2.1	18.9	83	99.7	TB09098214	TB09130995	143.59	145.09	mafic metavolcanic
H755444	TL09-006	1.8	0.293	0.25	0.5	160	10.1	13.3	128	51	TB09098214	TB09130995	145.09	146.59	mafic metavolcanic
H755445	TL09-006	0.9	0.209	0.25	0.3	138	1.4	10.2	113	32.4	TB09098214	TB09130995	146.59	147.50	mafic metavolcanic
H755447	TL09-006	0.6	0.157	<0.02	0.1	139	0.4	8.6	90	23.1	TB09098214	TB09130995	147.50	149.00	mafic metavolcanic
H755448	TL09-006	2.3	0.102	0.11	0.5	125	0.4	10.9	81	51.7	TB09098214	TB09130995	149.00	149.94	mafic metavolcanic
H755449	TL09-006	4.2	0.204	0.3	1.1	67	31	8.7	45	75.2	TB09098214	TB09130995	149.94	151.00	diorite
H755450	TL09-006	13.3	0.238	0.23	3.1	73	16.2	14.5	38	143.5	TB09098214	TB09130995	151.00	152.58	diorite
H755451	TL09-006	7.6	0.297	0.25	1.8	103	1.1	13.5	73	115.5	TB09098214	TB09130995	152.58	153.10	diorite
H755452	TL09-006	6.5	0.311	0.25	1.6	100	12.6	12.7	60	102	TB09098214	TB09130995	153.10	154.60	diorite
H755453	TL09-006	6.8	0.272	0.17	1.7	87	25.7	9.7	63	109	TB09098214	TB09130995	154.60	156.10	diorite
H755454	TL09-006	6.4	0.267	0.23	1.5	81	21.2	9.2	56	108	TB09098214	TB09130995	156.10	157.77	diorite
H755455	TL09-006	5.5	0.284	0.28	1.4	110	11.6	10.4	74	98.4	TB09098214	TB09130995	157.77	158.20	fp diorite
H755456	TL09-006	5.8	0.284	0.33	1.5	97	8	10.2	66	106.5	TB09098214	TB09130995	158.20	159.37	fp diorite
H755457	TL09-006	6.5	0.283	0.31	1.6	100	7.1	11.4	67	110	TB09098214	TB09130995	159.37	161.15	fp diorite
H755458	TL09-006	5.2	0.21	0.32	2.3	81	1.8	9.8	54	113.5	TB09098214	TB09130995	161.15	161.81	fp diorite
H755459	TL09-006	8.2	0.321	0.4	1.9	104	3.2	12.9	61	101	TB09098214	TB09130995	161.81	162.35	fp diorite
H755460	TL09-006	6.9	0.287	0.31	1.7	98	2.5	12.5	67	104.5	TB09098214	TB09130995	162.35	163.60	fp diorite
H755461	TL09-006	6.9	0.271	0.32	1.6	103	10.5	11.9	64	108.5	TB09098214	TB09130995	163.60	164.00	fp diorite
H755462	TL09-006	8.2	0.291	0.36	1.9	101	2.9	13.2	64	118.5	TB09098214	TB09130995	164.00	165.28	fp diorite
H755463	TL09-006	6.9	0.287	0.24	1.7	109	21.6	10.5	51	101.5	TB09098214	TB09130995	165.28	165.88	fp diorite
H755464	TL09-006	7.4	0.296	0.28	1.8	101	1.9	10.6	60	107.5	TB09098214	TB09130995	165.88	166.67	fp diorite
H755465	TL09-006	6.2	0.308	0.33	1.6	114	2.3	10.9	75	106	TB09098214	TB09130995	166.67	168.17	fp diorite
H755466	TL09-006	6.7	0.308	0.4	1.8	111	0.7	11.5	72	110.5	TB09098214	TB09130995	168.17	169.35	fp diorite
H755467	TL09-006	6.7	0.275	0.4	1.7	94	22.7	11	75	111	TB09098214	TB09130995	169.35	170.00	fp diorite
H755468	TL09-006	7	0.298	0.39	1.8	105	6.5	11.1	74	114.5	TB09098214	TB09130995	170.00	171.03	fp diorite
H755469	TL09-006	9.1	0.265	0.3	2.4	82	9.8	10.4	54	121	TB09098214	TB09130995	171.03	172.53	diorite
H755470	TL09-006	7.3	0.246	0.23	1.9	81	19.8	9.1	50	116.5	TB09098214	TB09130995	172.53	174.03	diorite
H755471	TL09-006	9.1	0.284	0.27	2.2	92	8.7	11.1	58	109.5	TB09098214	TB09130995	174.03	175.40	diorite

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 7-SEP-2009
Account: SUPDIA

CERTIFICATE TB09089635

Project: THORNE LAKE

P.O. No.:

This report is for 75 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 26-AUG-2009.

The following have access to data associated with this certificate:

STEVE VAN HAAFTEN	THOMAS HART	MATT SOOLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
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-AA23	Au 30g FA-AA finish	AAS

To: **NORTHERN SUPERIOR RESOURCES INC**
ATTN: THOMAS HART
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 7-SEP-2009
Account: SUPDIA

Project: THORNE LAKE

CERTIFICATE OF ANALYSIS TB09089635

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005	Au-AA23 Au Check g/t 0.005
H754551		1.25	<0.005	
H754552		1.19	0.008	
H754553		0.38	2.75	
H754554		1.64	0.019	
H754555		1.65	0.006	
H754556		0.97	0.010	
H754557		1.00	0.245	
H754558		1.12	0.997	
H754559		0.64	0.038	
H754560		1.38	2.98	
H754561		1.01	0.925	
H754562		1.15	0.070	
H754563		0.41	<0.005	
H754564		1.52	0.012	
H754565		1.33	<0.005	
H754566		0.61	<0.005	
H754567		0.05	3.27	
H754568		1.65	0.006	
H754569		1.48	0.005	
H754570		0.37	1.275	
H754571		1.34	0.047	
H754572		1.41	0.011	
H754573		1.20	<0.005	
H754574		1.39	<0.005	
H754575		2.31	0.008	
H754576		2.13	0.005	
H754577		2.09	<0.005	
H754578		1.86	<0.005	
H754579		1.78	<0.005	
H754580		1.04	<0.005	
H754581		1.85	<0.005	
H754582		1.35	0.011	
H754583		1.03	<0.005	
H754584		2.03	0.010	
H754585		1.35	0.007	
H754586		1.86	0.012	
H754587		0.55	0.333	
H754588		0.47	0.036	
H754589		1.96	0.706	
H754590		1.88	0.270	

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 7-SEP-2009
Account: SUPDIA

Project: THORNE LAKE

CERTIFICATE OF ANALYSIS TB09089635

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005	Au-AA23 Au Check g/t 0.005
H754591		1.16	0.177	
H754592		1.74	0.272	0.285
H754593		1.77	0.570	0.553
H754594		0.06	3.50	
H754595		2.08	0.279	
H754596		1.16	1.835	
H754597		1.49	0.043	
H754598		0.53	0.032	
H754599		1.84	0.016	
H754600		1.99	0.027	
H754601		0.51	0.017	
H754602		1.68	0.328	
H754603		0.54	0.094	
H754604		2.08	0.263	
H754605		1.57	0.127	
H754606		2.36	0.588	
H754607		1.78	0.351	
H754608		1.63	0.077	
H754609		2.08	0.006	
H754610		1.49	0.017	
H754611		1.28	0.010	
H754612		0.94	0.242	
H754613		2.22	0.012	
H754614		0.95	0.010	
H754615		1.57	<0.005	
H754616		1.90	0.042	
H754617		1.49	0.038	
H754618		1.88	0.029	
H754619		1.59	0.022	
H754620		2.54	0.010	
H754621		0.06	8.58	
H754622		2.17	0.009	
H754623		1.01	0.010	
H754624		2.08	0.010	
H754625		2.10	0.016	

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 10-SEP-2009
Account: SUPDIA

CERTIFICATE TB09092810

Project: THORNE LAKE

P.O. No.:

This report is for 107 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 31-AUG-2009.

The following have access to data associated with this certificate:

STEVE VAN HAAFTEN	THOMAS HART	MATT SOOLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
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-AA23	Au 30g FA-AA finish	AAS

To: **NORTHERN SUPERIOR RESOURCES INC**
ATTN: THOMAS HART
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 10-SEP-2009
Account: SUPDIA

Project: THORNE LAKE

CERTIFICATE OF ANALYSIS TB09092810

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005
H754626		1.34	<0.005
H754627		1.31	0.012
H754628		1.13	0.018
H754629		0.95	1.590
H754630		2.41	0.310
H754631		0.78	0.015
H754632		1.79	0.024
H754633		1.67	0.029
H754634		0.41	0.161
H754635		1.36	0.102
H754636		0.56	0.012
H754637		1.24	0.089
H754638		1.61	<0.005
H754639		2.22	0.010
H754640		2.24	<0.005
H754641		2.21	0.011
H754642		1.12	0.067
H754643		1.48	0.007
H754644		2.04	0.044
H754645		1.70	<0.005
H754646		0.06	0.582
H754647		2.12	0.007
H754648		2.55	0.008
H754649		1.90	<0.005
H754650		1.08	<0.005
H754651		2.19	0.017
H754652		2.19	<0.005
H754653		0.51	0.018
H754654		1.85	0.009
H754655		0.73	0.030
H754656		2.13	0.011
H754657		1.77	<0.005
H754658		0.65	<0.005
H754659		1.02	0.006
H754660		2.23	0.005
H754661		1.96	0.021
H754662		0.75	0.014
H754663		1.27	0.171
H754664		2.04	0.248
H754665		2.13	0.033

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 10-SEP-2009
Account: SUPDIA

Project: THORNE LAKE

CERTIFICATE OF ANALYSIS TB09092810

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005
H754666		1.55	0.116
H754667		0.56	0.995
H754668		0.62	0.355
H754669		2.11	0.014
H754670		1.60	0.220
H754671		0.06	8.12
H754672		2.27	0.013
H754673		1.98	<0.005
H754674		1.15	0.005
H754675		1.41	0.021
H754676		2.06	<0.005
H754677		2.00	<0.005
H754678		2.04	<0.005
H754679		0.91	<0.005
H754680		0.67	<0.005
H754681		1.50	<0.005
H754682		0.83	<0.005
H754683		1.68	<0.005
H754684		1.70	<0.005
H754685		0.88	0.109
H754686		1.76	<0.005
H754687		1.62	0.020
H754688		2.10	0.335
H754689		0.48	0.029
H754690		1.08	0.019
H754691		1.98	0.127
H754692		2.36	<0.005
H754693		2.20	<0.005
H754694		2.90	<0.005
H754695		2.67	<0.005
H754696		0.06	0.576
H754697		2.52	<0.005
H754698		1.89	<0.005
H754699		1.88	<0.005
H754700		2.49	<0.005
H754701		2.21	<0.005
H754702		1.70	<0.005
H754703		0.50	<0.005
H754704		1.65	<0.005
H754705		1.56	0.006

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 10-SEP-2009
Account: SUPDIA

Project: THORNE LAKE

CERTIFICATE OF ANALYSIS TB09092810

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005
H754706		2.01	<0.005
H754707		2.20	<0.005
H754708		2.16	<0.005
H754709		1.08	<0.005
H754710		2.54	<0.005
H754711		2.16	<0.005
H754712		2.25	<0.005
H754713		2.52	<0.005
H754714		2.26	<0.005
H754715		2.53	<0.005
H754716		2.14	<0.005
H754717		2.53	0.005
H754718		2.01	<0.005
H754719		2.16	<0.005
H754720		1.22	0.010
H754721		0.06	8.34
H754722		1.89	0.005
H754723		2.18	<0.005
H754724		2.22	<0.005
H754725		2.22	<0.005
H754726		2.48	0.005
H754727		2.42	0.012
H754728		1.97	<0.005
H754729		2.20	0.005
H754730		2.31	<0.005
H754731		2.24	<0.005
H754732		2.17	<0.005

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 18-SEP-2009
Account: SUPDIA

CERTIFICATE TB09095365

Project: Thorne Lake

P.O. No.:

This report is for 115 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 3-SEP-2009.

The following have access to data associated with this certificate:

STEVE VAN HAAFTEN	THOMAS HART	MATT SOOLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
DRY-21	High Temperature Drying

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS

To: **NORTHERN SUPERIOR RESOURCES INC**
ATTN: THOMAS HART
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 18-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09095365

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005
H754733		2.18	<0.005
H754734		2.28	0.006
H754735		2.13	0.006
H754736		0.83	0.010
H754737		0.44	0.094
H754738		0.92	0.058
H754739		1.29	0.162
H754740		1.24	<0.005
H754741		1.98	<0.005
H754742		1.92	<0.005
H754743		2.17	0.005
H754744		1.30	<0.005
H754745		0.75	<0.005
H754746		0.06	0.565
H754747		1.08	0.005
H754748		0.81	0.024
H754749		1.93	<0.005
H754750		1.57	0.005
H754751		0.50	<0.005
H754752		2.37	<0.005
H754753		0.64	<0.005
H754754		2.36	<0.005
H754755		1.30	<0.005
H754756		1.00	0.006
H754757		1.98	0.006
H754758		1.95	<0.005
H754759		0.76	<0.005
H754760		0.93	<0.005
H754761		1.74	<0.005
H754762		0.70	0.015
H754763		2.01	<0.005
H754764		0.93	<0.005
H754765		0.38	<0.005
H754766		1.98	<0.005
H754767		0.44	0.006
H754768		1.96	<0.005
H754769		1.71	<0.005
H754770		1.99	0.015
H754771		0.06	3.55
H754772		2.43	0.010

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 18-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09095365

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005
H754773		2.54	<0.005
H754774		2.58	<0.005
H754775		1.00	<0.005
H754776		1.24	0.010
H754777		0.97	<0.005
H754778		0.93	0.009
H754779		1.97	<0.005
H754780		2.20	<0.005
H754781		1.19	0.007
H754782		1.23	0.005
H754783		0.64	<0.005
H754784		1.91	0.006
H754785		2.12	<0.005
H754786		2.20	0.010
H754787		2.65	0.008
H754788		1.76	0.012
H754789		1.14	0.006
H754790		2.30	0.016
H754791		1.13	0.010
H754792		1.16	0.014
H754793		2.11	0.018
H754794		1.43	0.010
H754795		1.97	0.020
H754796		0.06	1.430
H754797		1.34	0.020
H754798		2.11	0.021
H754799		1.94	0.012
H754800		1.86	0.049
H754801		1.30	0.014
H754802		0.73	0.132
H754803		1.93	0.025
H754804		1.64	0.021
H754805		0.62	1.540
H754806		1.57	0.151
H754807		1.84	0.018
H754808		2.10	0.005
H754809		0.63	<0.005
H754810		1.73	0.005
H754811		1.13	0.053
H754812		1.13	0.054

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 18-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09095365

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005
H754813		2.26	<0.005
H754814		0.36	<0.005
H754815		2.11	0.012
H754816		2.10	<0.005
H754817		1.96	0.007
H754818		0.82	<0.005
H754819		1.84	0.012
H754820		1.66	0.005
H754821		0.06	1.430
H754822		0.57	0.005
H754823		1.88	<0.005
H754824		2.47	0.006
H754825		2.35	0.006
H754826		2.07	<0.005
H754827		2.24	<0.005
H754828		2.19	0.008
H754829		2.27	0.010
H754830		0.76	0.008
H754831		0.97	0.011
H754832		2.42	0.008
H754833		2.20	<0.005
H754834		1.02	0.006
H754835		2.47	0.005
H754836		1.21	<0.005
H754837		1.91	<0.005
H754838		1.08	<0.005
H754839		2.42	<0.005
H754840		2.14	0.015
H754841		2.43	0.005
H754842		2.03	<0.005
H754843		1.20	<0.005
H754844		2.19	<0.005
H754845		1.90	<0.005
H754846		0.06	0.616
H754847		1.02	<0.005

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 22-SEP-2009
Account: SUPDIA

CERTIFICATE TB09095366

Project: Thorne Lake

P.O. No.:

This report is for 133 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 3-SEP-2009.

The following have access to data associated with this certificate:

STEVE VAN HAAFTEN	THOMAS HART	MATT SOOLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
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-AA23	Au 30g FA-AA finish	AAS

To: **NORTHERN SUPERIOR RESOURCES INC**
ATTN: THOMAS HART
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 22-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09095366

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005
H754848		2.59	0.010
H754849		2.09	<0.005
H754850		2.11	<0.005
H754851		1.99	<0.005
H754852		0.49	<0.005
H754853		2.21	<0.005
H754854		1.38	<0.005
H754855		0.72	<0.005
H754856		1.89	<0.005
H754857		1.15	<0.005
H754858		1.54	<0.005
H754859		0.94	<0.005
H754860		1.53	0.007
H754861		0.41	0.007
H754862		2.17	<0.005
H754863		1.21	<0.005
H754864		1.13	0.006
H754865		0.68	0.023
H754866		2.04	<0.005
H754867		2.15	<0.005
H754868		1.97	<0.005
H754869		1.68	0.007
H754870		1.38	0.022
H754871		0.06	3.51
H754872		1.20	0.006
H754873		0.54	<0.005
H754874		2.01	0.012
H754875		1.74	<0.005
H754876		1.13	0.006
H754877		1.16	<0.005
H754878		2.21	0.027
H754879		1.03	0.007
H754880		2.18	0.082
H754881		1.01	0.094
H754882		0.54	<0.005
H754883		0.59	0.074
H754884		2.17	0.005
H754885		1.45	<0.005
H754886		1.26	0.018
H754887		1.62	<0.005

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 22-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09095366

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005
H754888		0.51	<0.005
H754889		2.52	<0.005
H754890		2.29	0.018
H754891		0.78	<0.005
H754892		0.52	<0.005
H754893		1.96	0.006
H754894		0.78	0.015
H754895		1.50	<0.005
H754896		0.05	0.595
H754897		1.76	0.012
H754898		2.30	0.007
H754899		1.56	0.011
H754900		2.25	0.007
H754901		2.22	<0.005
H754902		1.95	<0.005
H754903		0.52	<0.005
H754904		2.23	<0.005
H754905		2.15	<0.005
H754906		2.31	0.005
H754907		2.17	<0.005
H754908		2.20	<0.005
H754909		2.21	<0.005
H754910		1.00	<0.005
H754911		0.34	<0.005
H754912		2.18	<0.005
H754913		2.26	<0.005
H754914		0.84	<0.005
H754915		0.92	0.013
H754916		0.70	0.011
H754917		2.17	<0.005
H754918		2.20	0.008
H754919		0.56	<0.005
H754920		2.26	<0.005
H754921		0.05	8.48
H754922		2.20	<0.005
H754923		1.79	<0.005
H754924		0.82	0.111
H754925		1.85	0.026
H754926		1.85	0.044
H754927		1.76	0.007

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 22-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09095366

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005
H754928		2.05	0.005
H754929		1.28	0.005
H754930		0.77	<0.005
H754931		2.37	<0.005
H754932		1.29	<0.005
H754933		1.59	0.005
H754934		1.23	0.027
H754935		2.26	<0.005
H754936		2.20	0.011
H754937		1.88	0.011
H754938		0.82	<0.005
H754939		0.97	<0.005
H754940		1.39	<0.005
H754941		1.45	<0.005
H754942		1.08	<0.005
H754943		1.32	0.007
H754944		2.24	<0.005
H754945		2.19	<0.005
H754946		0.05	0.587
H754947		2.35	<0.005
H754948		2.20	<0.005
H754949		2.38	<0.005
H754950		2.11	<0.005
H754951		2.11	<0.005
H754952		2.82	<0.005
H754953		0.53	<0.005
H754954		2.03	<0.005
H754955		1.98	0.005
H754956		1.88	<0.005
H754957		1.88	<0.005
H754958		0.68	0.011
H754959		1.19	0.005
H754960		0.71	<0.005
H754961		2.38	<0.005
H754962		2.30	0.007
H754963		2.22	0.006
H754964		1.91	<0.005
H754965		0.70	<0.005
H754966		2.23	0.008
H754967		2.06	<0.005

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 22-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09095366

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005
H754968		1.98	0.006
H754969		0.84	<0.005
H754970		0.61	<0.005
H754971		0.05	0.544
H754972		1.74	0.008
H754973		0.69	0.028
H754974		2.03	<0.005
H754975		2.19	0.008
H754976		2.12	0.024
H754977		2.24	0.011
H754978		2.10	<0.005
H754979		2.37	<0.005
H754980		0.75	<0.005

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-SEP-2009
Account: SUPDIA

CERTIFICATE TB09098211

Project: Thorne Lake

P.O. No.:

This report is for 169 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 10-SEP-2009.

The following have access to data associated with this certificate:

STEVE VAN HAAFTEN	THOMAS HART	MATT SOOLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
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-AA23	Au 30g FA-AA finish	AAS

To: **NORTHERN SUPERIOR RESOURCES INC**
ATTN: THOMAS HART
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09098211

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005
H755145		1.79	<0.005
H755146		0.06	0.593
H755147		1.30	0.009
H755148		0.65	0.009
H755149		0.65	0.005
H755150		0.49	0.022
H755151		0.61	<0.005
H755152		1.49	<0.005
H755153		1.02	0.228
H755154		0.72	0.181
H755155		0.64	0.162
H755156		0.43	0.393
H755157		0.59	0.062
H755158		0.48	0.015
H755159		0.51	0.086
H755160		1.42	0.115
H755161		0.98	0.010
H755162		1.32	<0.005
H755163		1.40	<0.005
H755164		1.42	<0.005
H755165		0.53	<0.005
H755166		0.78	<0.005
H755167		1.22	<0.005
H755168		1.41	<0.005
H755169		0.77	0.010
H755170		2.48	<0.005
H755171		0.06	1.310
H755172		2.58	<0.005
H755173		2.48	0.009
H755174		3.22	<0.005
H755175		0.63	<0.005
H755176		1.25	<0.005
H755177		1.40	<0.005
H755178		2.50	<0.005
H755179		1.92	<0.005
H755180		1.91	<0.005
H755181		1.41	<0.005
H755182		1.47	<0.005
H755183		0.65	<0.005
H755184		0.78	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09098211

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005
H755185		1.11	<0.005
H755186		0.46	<0.005
H755187		1.61	<0.005
H755188		0.51	<0.005
H755189		2.06	<0.005
H755190		1.94	<0.005
H755191		0.53	<0.005
H755192		0.57	<0.005
H755193		0.73	<0.005
H755194		0.65	0.005
H755195		0.95	<0.005
H755196		0.06	0.591
H755197		0.67	<0.005
H755198		1.10	<0.005
H755199		0.73	<0.005
H755200		0.78	<0.005
H755201		1.93	<0.005
H755202		1.66	<0.005
H755203		0.69	<0.005
H755204		1.26	<0.005
H755205		1.82	<0.005
H755206		2.03	<0.005
H755207		2.08	<0.005
H755208		1.16	<0.005
H755209		1.55	<0.005
H755210		2.30	<0.005
H755211		1.52	<0.005
H755212		1.58	<0.005
H755213		2.16	<0.005
H755214		0.59	<0.005
H755215		2.63	<0.005
H755216		2.11	<0.005
H755217		0.41	<0.005
H755218		2.24	<0.005
H755219		1.72	0.007
H755220		1.39	0.131
H755221		0.06	3.33
H755222		1.76	0.006
H755223		2.14	0.006
H755224		1.06	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09098211

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005
H755225		2.00	<0.005
H755226		1.90	<0.005
H755227		0.52	<0.005
H755228		0.71	<0.005
H755229		0.83	0.014
H755230		1.32	0.012
H755231		1.32	0.035
H755232		0.47	0.014
H755233		0.67	0.090
H755234		2.02	0.047
H755235		0.96	0.009
H755236		1.49	0.006
H755237		1.11	1.415
H755238		1.23	0.012
H755239		1.40	<0.005
H755240		0.49	0.072
H755241		0.92	0.031
H755242		1.76	0.006
H755243		0.61	0.006
H755244		1.07	<0.005
H755245		1.26	<0.005
H755246		0.06	0.604
H755247		1.23	0.007
H755248		0.88	0.005
H755249		0.98	<0.005
H755250		0.78	<0.005
H755251		0.76	<0.005
H755252		0.83	<0.005
H755253		1.89	0.007
H755254		2.00	<0.005
H755255		2.13	<0.005
H755256		2.53	<0.005
H755257		2.44	<0.005
H755258		2.48	0.005
H755259		2.18	<0.005
H755260		2.20	<0.005
H755261		2.42	<0.005
H755262		2.36	<0.005
H755263		2.60	<0.005
H755264		2.46	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09098211

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005
H755265		2.39	<0.005
H755266		2.45	<0.005
H755267		2.38	<0.005
H755268		2.19	<0.005
H755269		2.32	<0.005
H755270		2.42	<0.005
H755271		0.06	8.42
H755272		2.23	0.009
H755273		2.27	0.010
H755274		2.39	0.008
H755275		0.90	<0.005
H755276		0.72	<0.005
H755277		0.56	<0.005
H755278		2.22	<0.005
H755279		2.14	<0.005
H755280		1.45	<0.005
H755281		2.29	0.008
H755282		1.63	<0.005
H755283		0.63	<0.005
H755284		1.53	<0.005
H755285		1.16	0.005
H755286		0.54	<0.005
H755287		1.90	<0.005
H755288		1.94	0.007
H755289		2.34	0.006
H755290		2.57	<0.005
H755291		2.32	<0.005
H755292		2.56	<0.005
H755293		2.41	0.005
H755294		1.90	0.009
H755295		2.18	0.009
H755296		0.06	NSS
H755297		0.63	0.009
H755298		2.58	0.005
H755299		2.65	0.006
H755300		2.70	<0.005
H755301		2.52	<0.005
H755302		2.50	<0.005
H755303		2.50	<0.005
H755304		1.83	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09098211

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005
H755305		1.93	0.011
H755306		1.61	<0.005
H755307		1.76	<0.005
H755308		1.68	<0.005
H755309		1.85	<0.005
H755310		1.65	<0.005
H755311		1.40	<0.005
H755312		1.87	0.009
H755313		0.76	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09098211

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non-sufficient sample.

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 28-SEP-2009
Account: SUPDIA

CERTIFICATE TB09098213

Project: Thorne Lake

P.O. No.:

This report is for 172 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 10-SEP-2009.

The following have access to data associated with this certificate:

STEVE VAN HAAFTEN	THOMAS HART	MATT SOOLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
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-AA23	Au 30g FA-AA finish	AAS
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

To: **NORTHERN SUPERIOR RESOURCES INC**
ATTN: THOMAS HART
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 28-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09098213

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005	Au-GRA21 Au g/t 0.05
H474980		1.33	3.63	
H474981		1.09	4.28	
H754455		3.17	0.023	
H754456		2.66	0.677	
H754457		1.76	0.077	
H754458		1.19	>10.0	10.50
H754459		1.14	0.026	
H754980		Listed, NR		
H754981		1.34	0.032	
H754982		1.17	0.011	
H754983		1.30	0.018	
H754984		0.86	0.026	
H754985		1.74	0.014	
H754986		1.65	0.010	
H754987		1.19	0.008	
H754988		1.01	0.006	
H754989		1.40	0.008	
H754990		1.26	<0.005	
H754991		0.62	0.032	
H754992		1.76	<0.005	
H754993		1.89	0.006	
H754994		1.83	0.008	
H754995		1.22	0.006	
H754996		0.06	0.602	
H754997		0.50	0.008	
H754998		0.73	0.157	
H754999		0.52	1.005	
H755000		1.27	0.033	
H755001		1.93	0.007	
H755002		0.64	0.007	
H755003		0.96	0.006	
H755004		0.62	0.005	
H755005		2.48	0.005	
H755006		2.37	0.007	
H755007		0.99	0.008	
H755008		1.93	<0.005	
H755009		0.99	0.020	
H755010		1.01	0.172	
H755011		2.58	0.011	
H755012		2.16	0.005	

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 28-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09098213

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005	Au-GRA21 Au g/t 0.05
H755013		1.90	0.006	
H755014		1.82	0.005	
H755015		1.79	0.006	
H755016		2.10	0.007	
H755017		1.96	0.009	
H755018		0.45	0.014	
H755019		1.16	0.084	
H755020		1.05	0.010	
H755021		0.06	1.380	
H755022		2.03	0.009	
H755023		2.43	<0.005	
H755024		2.15	<0.005	
H755025		2.24	<0.005	
H755026		2.14	0.006	
H755027		0.68	0.008	
H755028		2.22	<0.005	
H755029		2.36	0.009	
H755030		2.27	0.012	
H755031		1.88	0.007	
H755032		1.92	0.007	
H755033		2.03	0.011	
H755034		1.98	0.009	
H755035		2.01	0.009	
H755036		1.73	0.005	
H755037		1.85	0.009	
H755038		0.95	0.253	
H755039		0.84	0.078	
H755040		1.10	0.005	
H755041		2.18	<0.005	
H755042		1.20	<0.005	
H755043		0.45	<0.005	
H755044		2.18	0.045	
H755045		1.96	0.013	
H755046		0.06	8.71	
H755047		0.54	0.021	
H755048		1.18	1.180	
H755049		0.54	0.066	
H755050		0.55	0.155	
H755051		1.77	0.008	
H755052		1.87	0.090	

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 28-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09098213

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005	Au-GRA21 Au g/t 0.05
H755053		2.04	0.030	
H755054		2.33	0.006	
H755055		2.25	<0.005	
H755056		0.76	<0.005	
H755057		2.17	0.011	
H755058		1.82	0.005	
H755059		1.86	0.006	
H755060		1.95	0.006	
H755061		2.03	0.005	
H755062		2.25	0.007	
H755063		0.47	0.052	
H755064		1.05	0.124	
H755065		0.88	0.067	
H755066		0.70	0.043	
H755067		0.75	0.012	
H755068		2.03	0.020	
H755069		0.97	0.007	
H755070		0.62	0.678	
H755071		0.06	8.51	
H755072		1.85	0.032	
H755073		0.64	0.025	
H755074		2.47	0.010	
H755075		1.22	0.018	
H755076		1.95	0.023	
H755077		0.98	0.010	
H755078		1.82	3.31	
H755079		1.21	1.740	
H755080		1.77	0.236	
H755081		0.53	0.234	
H755082		1.80	0.083	
H755083		0.86	0.611	
H755084		1.27	0.020	
H755085		0.95	0.562	
H755086		1.51	0.470	
H755087		1.71	0.016	
H755088		1.95	0.038	
H755089		0.71	0.011	
H755090		2.18	0.022	
H755091		0.98	0.007	
H755092		2.34	0.047	

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 28-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09098213

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005	Au-GRA21 Au g/t 0.05
H755093		1.91	0.032	
H755094		2.10	0.014	
H755095		2.19	0.016	
H755096		0.06	3.53	
H755097		1.86	0.028	
H755098		1.54	0.110	
H755099		2.18	0.008	
H755100		2.08	0.012	
H755101		2.08	<0.005	
H755102		1.23	0.350	
H755103		1.57	0.269	
H755104		2.45	0.016	
H755105		2.56	0.011	
H755106		1.29	0.009	
H755107		2.33	0.491	
H755108		2.54	0.011	
H755109		1.58	0.009	
H755110		1.12	0.012	
H755111		2.21	0.014	
H755112		0.66	0.006	
H755113		1.19	0.007	
H755114		2.79	0.008	
H755115		0.49	<0.005	
H755116		1.69	0.007	
H755117		0.77	0.009	
H755118		2.55	0.006	
H755119		2.47	0.007	
H755120		2.02	0.017	
H755121		0.05	1.375	
H755122		0.51	0.415	
H755123		1.77	0.018	
H755124		1.29	0.084	
H755125		0.76	0.933	
H755126		1.01	0.091	
H755127		1.26	0.019	
H755128		2.05	0.009	
H755129		1.34	0.011	
H755130		0.48	0.214	
H755131		1.94	0.014	
H755132		2.46	0.007	

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 28-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09098213

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005	Au-GRA21 Au g/t 0.05
H755133		2.44	0.006	
H755134		1.97	0.006	
H755135		2.07	0.006	
H755136		2.02	0.007	
H755137		2.04	0.009	
H755138		1.69	0.016	
H755139		1.82	0.092	
H755140		0.46	2.44	
H755141		1.89	0.029	
H755142		2.15	0.014	
H755143		0.33	0.352	
H755144		0.89	0.045	

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 28-SEP-2009
Account: SUPDIA

CERTIFICATE TB09098214

Project: Thorne Lake

P.O. No.:

This report is for 181 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 10-SEP-2009.

The following have access to data associated with this certificate:

STEVE VAN HAAFTEN	THOMAS HART	MATT SOOLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
DRY-21	High Temperature Drying

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

To: **NORTHERN SUPERIOR RESOURCES INC**
ATTN: THOMAS HART
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 28-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09098214

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005	Au-GRA21 Au g/t 0.05
H474982		3.20	0.069	
H474983		2.51	0.077	
H474984		5.30	<0.005	
H474985		3.46	0.400	
H494986		6.17	0.095	
H494987		6.12	0.126	
H494988		3.21	0.086	
H494989		2.70	0.033	
H474990		2.76	0.129	
H474991		2.83	0.239	
H474992		2.18	0.015	
H474993		1.05	0.025	
H474994		1.40	>10.0	43.2
H474995		1.22	0.049	
H474996		3.70	1.195	
H474997		2.70	0.009	
H474998		2.04	0.482	
H474999		2.80	0.275	
H475000		4.26	0.711	
H753214		1.55	0.895	
H753215		4.44	0.005	
H753216		2.74	0.011	
H753217		2.57	2.98	
H755314		1.39	0.024	
H755315		1.85	0.005	
H755316		1.84	0.012	
H755317		1.08	0.038	
H755318		1.54	0.016	
H755319		1.59	0.013	
H755320		1.22	0.013	
H755321		0.06	1.415	
H755322		1.19	0.020	
H755323		0.62	0.010	
H755324		1.12	0.018	
H755325		1.47	0.218	
H755326		0.51	0.107	
H755327		1.42	0.015	
H755328		2.19	0.017	
H755329		2.18	0.075	
H755330		1.98	0.028	

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 28-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09098214

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005	Au-GRA21 Au g/t 0.05
H755331		1.04	0.012	
H755332		0.43	0.033	
H755333		0.50	0.013	
H755334		1.77	0.025	
H755335		1.52	0.039	
H755336		0.43	0.454	
H755337		0.79	0.018	
H755338		1.28	0.014	
H755339		2.10	0.017	
H755340		1.34	0.014	
H755341		2.35	0.012	
H755342		0.47	0.011	
H755343		1.37	0.018	
H755344		1.15	0.107	
H755345		1.34	0.023	
H755346		0.06	1.420	
H755347		1.11	0.015	
H755348		1.41	0.017	
H755349		1.59	0.020	
H755350		0.84	0.021	
H755351		1.60	0.010	
H755352		1.77	0.009	
H755353		1.14	0.016	
H755354		2.41	0.011	
H755355		2.00	0.015	
H755356		2.16	0.008	
H755357		2.60	0.008	
H755358		1.98	0.021	
H755359		1.38	0.009	
H755360		0.61	0.010	
H755361		1.44	0.009	
H755362		1.43	0.020	
H755363		0.48	0.248	
H755364		2.02	0.088	
H755365		1.58	0.021	
H755366		1.60	0.009	
H755367		1.28	0.018	
H755368		0.57	0.140	
H755369		0.99	0.062	
H755370		1.84	0.009	

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 28-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09098214

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005	Au-GRA21 Au g/t 0.05
H755371		0.06	0.618	
H755372		1.45	0.008	
H755373		1.47	0.013	
H755374		0.62	0.070	
H755375		1.98	0.011	
H755376		2.18	0.011	
H755377		2.09	0.014	
H755378		2.12	0.024	
H755379		1.49	0.030	
H755380		1.72	0.033	
H755381		1.89	0.022	
H755382		1.87	0.023	
H755383		1.79	0.023	
H755384		0.56	0.013	
H755385		0.49	1.600	
H755386		1.54	0.093	
H755387		0.48	0.036	
H755388		1.49	0.019	
H755389		0.57	0.110	
H755390		0.67	0.393	
H755391		1.22	0.403	
H755392		0.54	2.26	
H755393		1.44	0.077	
H755394		1.75	0.075	
H755395		2.28	0.115	
H755396		0.06	3.30	
H755397		2.09	0.084	
H755398		2.13	0.020	
H755399		0.52	0.122	
H755400		2.19	0.032	
H755401		1.12	0.021	
H755402		0.68	0.258	
H755403		2.18	0.030	
H755404		2.44	0.028	
H755405		0.51	0.326	
H755406		1.82	0.013	
H755407		1.74	0.014	
H755408		1.71	0.014	
H755409		2.16	0.011	
H755410		2.43	0.007	

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 28-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09098214

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005	Au-GRA21 Au g/t 0.05
H755411		2.08	0.010	
H755412		2.45	0.397	
H755413		0.80	0.019	
H755414		1.55	0.013	
H755415		0.42	0.452	
H755416		1.17	0.249	
H755417		1.31	0.024	
H755418		1.84	0.052	
H755419		1.51	0.022	
H755420		1.99	0.021	
H755421		0.06	3.42	
H755422		0.91	0.023	
H755423		1.07	0.149	
H755424		1.18	0.009	
H755425		2.18	0.036	
H755426		1.74	0.016	
H755427		0.99	0.016	
H755428		2.11	0.127	
H755429		1.42	0.041	
H755430		1.59	0.038	
H755431		0.77	0.168	
H755432		2.30	0.050	
H755433		2.35	0.037	
H755434		2.73	0.014	
H755435		1.90	0.157	
H755436		1.67	0.304	
H755437		1.84	0.142	
H755438		1.39	0.103	
H755439		1.98	0.008	
H755440		1.70	0.024	
H755441		2.44	0.034	
H755442		2.10	0.015	
H755443		2.61	0.013	
H755444		2.49	0.034	
H755445		1.65	0.024	
H755446		0.06	0.597	
H755447		2.07	0.027	
H755448		1.16	0.021	
H755449		1.32	0.133	
H755450		1.91	0.106	

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 28-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09098214

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005	Au-GRA21 Au g/t 0.05
H755451		0.51	<0.005	
H755452		1.67	0.019	
H755453		1.99	0.046	
H755454		2.47	0.044	
H755455		0.69	0.211	
H755456		1.62	0.005	
H755457		2.60	<0.005	
H755458		0.92	0.010	
H755459		0.78	0.013	
H755460		1.58	0.008	
H755461		0.51	0.284	
H755462		1.57	0.030	
H755463		0.92	1.030	
H755464		1.05	0.025	
H755465		1.75	0.025	
H755466		1.42	0.006	
H755467		1.04	1.275	
H755468		1.34	0.111	
H755469		2.01	0.042	
H755470		2.02	0.081	
H755471		1.62	0.018	

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

CERTIFICATE TB09129586

Project: Thorne Lake

P.O. No.:

This report is for 165 Pulp samples submitted to our lab in Thunder Bay, ON, Canada on 13-NOV-2009.

The following have access to data associated with this certificate:

STEVE VAN HAAFTEN	THOMAS HART	MATT SOOLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS

To: **NORTHERN SUPERIOR RESOURCES INC**
ATTN: THOMAS HART
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129586

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Sample Description LOR	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	0.05
H754981	0.05	6.39	2.4	490	1.37	0.02	1.55	0.02	49.5	6.4	34	1.62	33.6	1.52	15.40
H754982	0.05	8.70	1.1	460	0.38	0.06	6.35	0.06	8.12	43.8	91	2.79	34.7	6.16	16.40
H754983	0.07	8.04	1.0	430	1.01	0.03	4.92	0.06	45.7	36.8	223	3.60	58.7	5.49	17.15
H754984	0.32	8.13	1.6	1010	1.48	0.05	4.38	0.05	91.7	28.4	35	6.02	115.0	6.19	20.4
H754985	0.07	8.91	0.8	290	0.26	0.03	7.53	0.08	9.99	47.4	91	2.75	45.4	6.57	14.90
H754986	0.05	8.96	0.9	310	0.32	0.02	6.59	0.07	6.07	44.7	73	2.19	59.1	5.86	15.80
H754987	0.04	9.20	0.5	450	0.34	0.02	6.46	0.05	6.22	40.9	71	2.89	40.7	5.64	16.35
H754988	0.03	7.37	2.3	520	1.44	0.04	2.43	0.06	46.4	9.9	41	1.67	21.7	2.08	17.35
H754989	0.03	8.81	1.0	200	0.22	0.04	6.74	0.04	5.43	45.6	82	1.15	47.8	5.71	15.85
H754990	0.02	8.99	1.1	130	0.18	0.02	6.60	0.04	4.49	49.0	76	0.93	42.7	6.12	16.05
H754991	0.03	8.26	1.8	140	0.71	0.03	4.80	0.05	14.20	30.9	60	0.98	48.5	4.20	15.50
H754992	0.03	9.51	1.3	80	0.17	0.02	7.06	0.06	4.39	45.8	83	0.65	18.4	5.95	16.45
H754993	0.02	9.56	0.9	70	0.21	0.01	6.87	0.05	4.43	42.2	81	0.58	43.5	5.82	16.45
H754994	0.03	9.81	0.9	110	0.16	0.01	6.80	0.04	4.34	43.9	73	1.12	78.6	5.95	16.65
H754995	0.06	10.15	0.8	80	0.18	0.02	7.32	0.05	6.38	41.9	86	0.63	56.8	5.77	16.40
H754996															
H754997	0.01	9.58	0.8	240	0.31	0.02	6.39	0.05	6.37	39.0	94	1.28	9.4	5.80	16.55
H754998	0.12	2.52	1.7	60	0.25	0.11	2.28	0.02	7.66	13.0	22	0.43	57.7	1.53	4.05
H754999	0.13	7.46	1.7	160	0.61	0.04	2.28	0.03	29.3	28.2	111	1.21	187.5	4.96	15.50
H755000	0.03	8.82	1.0	280	0.66	0.03	4.23	0.06	46.3	34.8	44	1.52	69.9	7.43	20.1
H755001	0.03	8.05	1.2	150	0.60	0.05	5.36	0.07	42.6	34.8	150	0.53	27.9	6.90	18.40
H755002	0.02	8.63	1.0	160	0.47	0.05	5.33	0.06	39.7	31.2	13	0.66	34.0	6.94	18.75
H755003	0.02	8.73	0.8	210	0.55	0.04	5.12	0.08	39.6	35.7	118	0.72	41.5	7.49	18.90
H755004	0.02	8.33	0.8	170	0.61	0.04	4.69	0.06	43.5	34.8	133	0.71	33.8	6.73	17.45
H755005	0.03	8.77	0.9	250	0.62	0.04	5.12	0.07	51.0	32.7	90	0.59	43.5	7.13	19.10
H755006	0.03	8.64	0.5	320	0.67	0.02	4.71	0.06	41.5	33.6	34	1.17	55.2	7.46	18.95
H755007	0.03	8.02	1.0	580	1.06	0.07	5.16	0.08	57.1	31.7	234	2.26	55.8	6.28	16.40
H755008	0.02	7.34	0.9	760	1.72	0.03	4.25	0.06	99.4	30.0	333	3.82	15.6	4.37	17.05
H755009	0.05	8.14	0.8	470	0.78	0.04	5.01	0.08	55.3	33.3	24	3.53	44.9	7.15	20.2
H755010	0.10	8.74	0.6	410	0.73	0.09	4.94	0.08	46.1	36.5	22	3.54	76.5	7.00	20.1
H755011	0.05	8.58	0.6	180	0.75	0.03	4.70	0.11	60.9	35.8	11	0.95	64.2	7.45	22.3
H755012	0.04	8.63	0.7	220	0.65	0.03	4.38	0.09	55.1	34.9	9	1.21	54.7	7.70	21.4
H755013	0.02	8.79	0.3	220	0.67	0.03	4.60	0.09	54.4	37.4	9	1.04	50.3	7.67	22.4
H755014	0.06	8.73	<0.2	220	0.65	0.04	4.99	0.09	58.1	38.5	10	0.98	65.1	7.81	22.8
H755015	0.03	8.57	0.2	230	0.66	0.03	5.32	0.10	56.4	35.5	9	0.76	57.8	7.52	21.4
H755016	0.05	8.86	0.5	260	0.62	0.04	5.70	0.13	54.5	36.8	8	1.00	70.1	7.78	22.0
H755017	0.08	8.21	0.4	260	0.72	0.05	5.58	0.14	59.1	36.5	15	1.84	62.5	7.34	22.0
H755018	0.07	9.78	0.3	460	0.41	0.09	7.42	0.11	11.25	39.1	89	3.76	59.0	5.99	18.90
H755019	0.21	9.54	0.4	410	0.70	0.12	6.14	0.14	58.6	38.2	10	3.44	100.0	7.76	23.6
H755020	0.02	7.81	0.3	790	1.47	0.02	2.94	0.03	58.7	12.8	55	4.84	9.2	2.84	22.1

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129586

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Sample Description LOR	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	0.1
H754981	0.07	4.2	0.010	0.91	26.4	21.8	0.61	202	0.48	3.52	7.1	18.9	290	6.0	27.3
H754982	0.12	0.6	0.041	1.41	3.4	37.0	4.17	1020	1.11	1.47	2.8	202	140	5.5	25.2
H754983	0.12	2.4	0.038	1.41	22.1	33.3	4.37	940	0.76	2.25	5.1	201	620	4.6	48.8
H754984	0.19	3.4	0.052	2.77	38.4	41.0	2.32	991	0.12	2.72	5.5	28.9	2570	5.1	85.8
H754985	0.13	0.7	0.037	1.63	4.4	39.3	4.24	1040	0.42	0.82	2.2	210	210	19.4	35.8
H754986	0.10	0.5	0.039	1.69	2.3	39.7	4.05	933	0.31	1.02	1.8	190.5	170	3.4	20.9
H754987	0.11	0.4	0.035	2.23	2.3	48.0	3.97	925	0.21	1.18	1.6	171.0	170	3.8	31.5
H754988	0.08	3.1	0.015	1.02	24.5	20.2	0.97	335	0.48	3.35	6.2	34.6	380	7.7	28.6
H754989	0.09	0.5	0.035	0.94	2.1	38.1	4.22	966	0.34	1.31	1.8	192.0	130	2.5	8.9
H754990	0.10	0.5	0.036	0.57	1.7	26.5	4.55	1000	0.36	1.41	1.5	212	140	2.2	7.5
H754991	0.08	1.4	0.024	0.62	6.4	23.8	2.99	707	0.32	2.35	3.9	137.0	170	3.3	5.5
H754992	0.11	0.5	0.035	0.38	1.7	25.6	4.27	1000	0.23	1.50	1.6	194.0	160	2.2	3.6
H754993	0.11	0.5	0.036	0.38	1.6	27.6	4.13	973	0.20	1.53	1.7	183.5	160	1.3	2.9
H754994	0.11	0.5	0.041	0.48	1.4	24.1	3.91	974	0.18	1.64	1.8	177.5	180	1.4	4.2
H754995	0.09	0.6	0.038	0.36	2.4	23.2	3.96	942	0.18	1.37	1.9	169.5	140	1.6	4.0
H754996															
H754997	0.11	0.4	0.036	1.44	2.5	55.9	4.33	827	0.12	1.54	2.6	169.5	110	1.8	13.0
H754998	<0.05	0.3	0.008	0.34	3.7	12.1	0.72	226	0.72	1.03	0.9	36.2	80	1.6	8.3
H754999	0.10	1.9	0.030	0.69	13.1	25.4	2.82	516	0.44	3.19	2.7	96.8	460	2.4	13.2
H755000	0.14	2.3	0.054	0.79	19.7	23.3	2.85	1030	0.54	3.46	4.0	46.3	810	4.3	11.5
H755001	0.13	2.1	0.053	0.34	18.1	18.9	3.53	1100	0.70	2.63	3.6	79.9	870	4.0	3.2
H755002	0.13	1.8	0.049	0.30	17.5	16.0	2.60	1080	0.57	2.95	3.2	36.9	620	4.3	4.6
H755003	0.12	2.2	0.056	0.48	16.7	23.8	3.46	1150	0.55	2.70	3.9	68.5	860	4.2	5.5
H755004	0.13	1.9	0.052	0.33	19.6	19.3	3.40	959	0.86	2.67	3.6	74.6	790	3.6	5.0
H755005	0.14	2.3	0.055	0.38	23.7	18.8	3.01	1060	0.54	2.66	4.4	52.5	870	4.8	6.2
H755006	0.14	2.2	0.052	0.46	17.8	20.5	2.79	990	0.47	2.56	3.8	42.0	680	4.6	7.0
H755007	0.12	2.2	0.050	0.83	28.9	22.5	4.19	972	1.03	2.59	4.7	108.0	1010	4.7	23.2
H755008	0.15	2.8	0.032	1.17	48.4	26.5	4.73	827	1.00	3.17	8.5	189.0	1040	4.1	35.1
H755009	0.17	2.3	0.055	0.80	25.6	25.4	2.48	1000	0.54	2.49	3.1	35.3	700	5.0	21.7
H755010	0.16	1.8	0.050	0.77	21.5	22.2	2.72	1040	2.03	3.02	2.7	55.2	640	4.2	25.4
H755011	0.18	2.6	0.059	0.27	27.3	16.7	2.47	1140	0.54	3.43	3.6	35.0	730	5.0	4.1
H755012	0.17	2.5	0.059	0.31	25.4	15.8	2.53	1170	0.51	3.50	3.3	32.5	740	4.6	6.9
H755013	0.18	2.4	0.059	0.28	24.3	18.8	2.65	1200	0.48	3.42	3.2	35.9	720	4.8	5.3
H755014	0.19	2.5	0.060	0.34	26.2	21.8	2.74	1120	0.52	3.14	3.1	38.7	710	4.9	4.8
H755015	0.18	2.4	0.060	0.24	26.2	21.5	2.48	1160	0.54	2.80	4.4	33.9	740	4.4	3.2
H755016	0.17	2.4	0.059	0.41	24.4	24.9	2.56	1140	0.55	2.41	3.6	34.4	740	4.2	6.5
H755017	0.17	2.5	0.059	0.51	26.0	21.2	2.37	1100	0.58	2.34	3.6	35.3	730	4.2	8.9
H755018	0.12	0.5	0.045	1.17	4.7	37.0	2.93	1110	0.37	2.18	1.7	129.5	190	4.8	27.4
H755019	0.18	2.5	0.066	0.93	26.7	27.2	2.60	1220	0.98	2.38	3.7	38.1	790	7.0	32.0
H755020	0.13	3.5	0.015	1.32	28.8	26.7	1.20	497	0.31	3.52	5.2	32.7	660	5.8	44.5

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129586

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	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.1
H754981		<0.002	0.07	0.09	3.9	2	0.5	329	0.49	0.10	8.3	0.159	0.13	2.1	27	0.8
H754982		<0.002	0.02	0.24	20.9	1	0.5	314	0.21	0.06	0.8	0.281	0.27	0.3	138	0.8
H754983		<0.002	0.02	0.14	19.0	1	0.6	483	0.31	0.07	3.8	0.368	0.23	1.0	127	1.8
H754984		<0.002	0.17	0.07	20.0	2	1.2	744	0.29	0.12	4.0	0.540	0.43	0.9	182	2.4
H754985		<0.002	0.07	0.19	20.3	2	0.4	265	0.16	0.07	0.4	0.328	0.19	0.1	136	1.3
H754986		<0.002	0.05	0.12	19.6	2	0.3	215	0.13	0.07	0.3	0.306	0.24	0.1	150	0.8
H754987		<0.002	0.02	0.11	19.5	1	0.3	224	0.12	<0.05	<0.2	0.322	0.32	0.1	156	1.9
H754988		<0.002	0.02	0.29	5.3	1	0.5	491	0.41	<0.05	7.7	0.167	0.15	2.1	42	0.5
H754989		<0.002	0.06	0.15	23.5	1	0.3	184.0	0.14	<0.05	0.3	0.312	0.13	0.1	150	0.4
H754990		0.002	0.11	0.14	23.9	2	0.2	150.0	0.11	0.11	<0.2	0.323	0.10	<0.1	156	0.2
H754991		<0.002	0.05	0.18	14.3	1	0.3	191.0	0.35	0.11	3.3	0.239	0.11	1.2	105	0.2
H754992		<0.002	0.05	0.10	24.0	2	0.2	181.5	0.12	0.07	<0.2	0.297	0.06	<0.1	143	0.1
H754993		<0.002	0.05	0.09	22.7	2	0.3	158.0	0.12	0.14	<0.2	0.322	0.04	<0.1	151	0.1
H754994		<0.002	0.12	0.09	21.8	2	0.3	180.5	0.13	<0.05	<0.2	0.353	0.08	<0.1	164	0.1
H754995		<0.002	0.11	0.14	23.3	2	0.3	141.0	0.15	<0.05	<0.2	0.329	0.05	<0.1	162	0.2
H754996																
H754997		<0.002	0.02	0.11	19.8	1	0.5	167.5	0.21	0.06	<0.2	0.296	0.14	<0.1	143	1.3
H754998		<0.002	0.41	0.07	4.0	2	0.2	66.3	0.05	0.21	0.3	0.100	0.05	0.1	29	11.7
H754999		<0.002	0.37	0.10	13.9	2	0.4	248	0.15	0.15	2.5	0.394	0.07	0.6	119	22.0
H755000		<0.002	0.06	0.14	19.6	2	0.5	424	0.24	0.08	2.6	0.545	0.11	0.7	177	3.2
H755001		<0.002	0.03	0.22	23.1	2	0.5	532	0.19	0.05	2.6	0.506	0.04	0.8	176	1.3
H755002		<0.002	0.06	0.20	18.4	1	0.4	602	0.17	0.06	2.3	0.529	0.03	0.6	178	0.9
H755003		<0.002	0.04	0.18	21.3	2	0.5	557	0.24	0.05	2.7	0.530	0.05	0.8	188	1.0
H755004		<0.002	0.09	0.23	21.1	2	0.5	517	0.20	0.06	2.5	0.504	0.04	0.7	166	3.4
H755005		<0.002	0.02	0.33	20.7	2	0.5	622	0.26	0.05	2.9	0.521	0.05	0.8	171	0.6
H755006		<0.002	0.02	0.16	18.8	2	0.5	618	0.22	<0.05	2.4	0.542	0.07	0.7	175	0.4
H755007		<0.002	0.02	0.17	20.1	1	0.5	813	0.25	0.05	4.0	0.414	0.10	1.0	157	0.4
H755008		<0.002	0.01	0.12	16.6	1	0.6	1005	0.38	<0.05	7.6	0.299	0.16	1.7	111	0.5
H755009		<0.002	0.02	0.23	22.3	2	0.6	672	0.22	0.13	3.5	0.521	0.13	0.8	175	1.5
H755010		<0.002	0.30	0.17	22.4	2	0.5	409	0.18	0.24	2.6	0.515	0.15	0.6	178	11.1
H755011		<0.002	0.03	0.26	23.8	2	0.6	494	0.24	0.09	3.7	0.554	0.04	0.8	179	0.5
H755012		<0.002	0.05	0.20	21.3	2	0.6	459	0.22	0.09	3.3	0.543	0.05	0.8	178	0.4
H755013		<0.002	0.03	0.18	22.9	2	0.5	507	0.20	0.07	3.3	0.571	0.04	0.7	188	0.4
H755014		<0.002	0.11	0.19	26.3	2	0.5	506	0.20	0.09	3.7	0.581	0.04	0.9	201	0.4
H755015		<0.002	0.03	0.20	22.7	2	0.6	523	0.34	0.08	3.5	0.552	0.04	0.8	182	0.3
H755016		<0.002	0.08	0.31	22.8	2	0.6	536	0.24	0.12	3.5	0.565	0.05	0.8	186	0.5
H755017		<0.002	0.10	0.34	24.1	2	0.6	458	0.24	0.11	3.6	0.546	0.08	0.8	177	0.9
H755018		<0.002	0.10	0.33	30.2	2	0.6	400	0.15	0.11	0.3	0.366	0.20	0.1	178	4.9
H755019		<0.002	0.51	0.27	22.5	2	0.7	562	0.25	0.20	3.3	0.584	0.16	0.8	186	3.7
H755020		<0.002	0.03	0.14	7.6	2	0.5	709	0.37	0.07	6.2	0.277	0.24	1.7	58	0.7

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129586

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H754981		9.5	23	153.0
H754982		9.7	79	20.6
H754983		12.4	86	88.8
H754984		20.9	98	119.5
H754985		12.5	110	24.7
H754986		9.8	64	16.6
H754987		9.7	64	12.5
H754988		6.8	32	110.0
H754989		9.4	57	16.0
H754990		9.8	62	17.1
H754991		7.9	42	39.8
H754992		10.4	57	17.5
H754993		10.3	57	17.2
H754994		10.9	58	16.3
H754995		10.5	55	21.2
H754996				
H754997		9.5	52	17.6
H754998		4.3	13	11.7
H754999		8.2	60	69.8
H755000		16.3	96	83.2
H755001		17.1	91	76.5
H755002		15.9	78	65.3
H755003		16.7	101	80.2
H755004		16.1	80	71.2
H755005		18.1	95	84.8
H755006		16.3	98	78.0
H755007		14.9	92	83.0
H755008		11.4	83	110.5
H755009		18.7	96	77.0
H755010		15.7	94	60.4
H755011		20.3	102	84.5
H755012		18.8	105	80.5
H755013		18.8	105	80.0
H755014		20.3	104	81.0
H755015		19.7	108	81.5
H755016		19.9	108	82.3
H755017		20.6	106	84.3
H755018		12.8	82	19.7
H755019		19.5	107	84.1
H755020		7.6	66	121.0

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129586

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H755021																
H755022		0.05	9.79	0.6	330	0.35	0.05	7.81	0.10	9.96	36.3	35	1.12	61.0	5.86	21.1
H755023		0.03	9.92	0.4	150	0.24	0.04	8.25	0.07	7.22	34.7	63	1.20	38.2	5.27	18.10
H755024		0.05	9.61	1.0	130	0.26	0.02	7.94	0.09	6.01	33.3	48	0.64	41.5	5.42	17.50
H755025		0.09	9.36	1.2	90	0.25	0.03	7.97	0.11	6.42	43.4	82	0.34	60.4	6.31	18.95
H755026		0.08	9.62	0.8	120	0.25	0.04	7.70	0.18	10.10	43.9	58	1.32	65.4	5.80	19.15
H755027		0.08	8.52	<0.2	220	0.39	0.06	6.65	0.12	17.15	36.2	95	3.10	95.7	5.05	16.80
H755028		0.04	9.60	0.6	110	0.25	0.04	8.49	0.12	7.89	44.9	66	1.29	43.7	6.17	18.40
H755029		0.09	9.27	0.5	70	0.21	0.03	8.91	0.23	8.15	46.0	77	0.59	105.0	6.88	18.15
H755030		0.09	8.66	0.4	40	0.25	0.03	7.61	0.17	8.16	47.2	85	0.32	146.0	7.35	17.10
H755031		0.11	9.30	0.7	40	0.30	0.05	8.01	0.21	9.59	51.1	92	0.30	129.0	8.03	18.90
H755032		0.12	9.34	0.8	60	0.26	0.04	8.15	0.31	8.74	53.6	94	0.23	143.0	8.15	19.30
H755033		0.13	9.32	0.8	110	0.29	0.04	7.97	0.27	8.72	51.0	99	0.51	164.0	8.11	19.50
H755034		0.10	8.65	0.6	50	0.27	0.03	7.21	0.43	9.10	49.0	97	0.24	91.5	8.30	19.05
H755035		0.10	8.61	<0.2	40	0.31	0.04	7.28	0.19	8.81	49.8	103	0.14	88.8	8.83	18.90
H755036		0.06	7.43	0.7	460	0.88	0.04	4.54	0.08	43.5	25.7	72	6.39	53.1	7.61	18.65
H755037		0.21	7.56	0.4	250	0.81	0.14	3.66	1.46	41.2	28.4	17	5.45	107.0	7.95	18.65
H755038		0.45	7.32	0.7	340	0.81	0.36	3.62	0.28	46.7	31.9	22	4.94	336	8.45	18.50
H755039		0.08	9.77	0.4	420	0.34	0.06	8.12	0.06	8.45	30.6	75	1.61	21.9	5.33	17.80
H755040		0.02	7.25	0.2	590	1.40	0.01	3.52	0.03	60.0	15.8	75	3.82	21.9	2.90	19.85
H755041		0.04	9.79	0.7	280	0.25	0.03	8.39	0.08	6.97	39.3	70	1.11	44.8	5.65	18.65
H755042		0.03	9.79	0.9	210	0.28	0.04	8.05	0.07	5.43	35.9	62	1.85	39.3	5.76	18.75
H755043		0.05	10.50	0.5	330	0.47	0.02	9.38	0.05	5.80	39.1	69	2.90	81.7	5.36	18.60
H755044		0.05	10.35	1.0	230	0.24	0.04	8.55	0.08	5.63	39.6	78	1.42	46.5	5.90	19.10
H755045		0.06	9.98	0.9	90	0.19	0.05	9.14	0.10	4.96	41.5	88	0.58	88.5	5.87	18.45
H755046																
H755047		0.06	9.17	<5	280	0.30	0.07	10.00	0.16	9.53	35.8	51	2.68	64.8	6.28	17.95
H755048		0.14	7.19	<0.2	540	1.66	0.12	2.72	0.05	69.8	10.0	23	3.68	28.9	2.54	19.55
H755049		0.05	9.32	<0.2	270	0.49	0.02	7.75	0.06	10.90	33.4	47	5.21	26.3	5.07	20.7
H755050		0.06	8.59	<0.2	410	1.00	0.03	5.49	0.06	35.5	26.1	72	6.94	72.5	4.06	19.80
H755051		0.06	9.23	1.1	110	0.15	0.04	8.14	0.09	4.23	39.5	84	1.34	57.2	5.63	18.45
H755052		0.06	8.98	1.4	90	0.20	0.04	8.07	0.07	4.22	39.1	84	0.81	57.8	5.61	18.20
H755053		0.07	9.42	1.2	80	0.22	0.03	8.20	0.09	6.22	43.9	83	0.41	74.8	5.98	19.10
H755054		0.07	9.32	0.8	120	0.21	0.04	8.16	0.07	9.14	42.8	97	0.81	49.2	5.75	18.55
H755055		0.03	9.82	1.3	100	0.15	0.08	8.61	0.07	4.75	35.0	79	0.90	20.7	5.29	18.75
H755056		0.02	9.30	<5	250	0.47	0.06	11.75	0.07	4.01	28.5	42	5.39	15.5	6.35	16.85
H755057		0.04	2.29	<5	100	0.37	0.01	18.00	0.11	6.49	22.1	18	2.42	20.5	5.33	4.46
H755058		0.06	7.38	1.0	770	1.15	0.03	4.08	0.04	51.9	16.2	71	6.89	33.4	3.30	20.1
H755059		0.03	7.37	0.9	920	1.27	0.04	3.23	0.04	55.4	16.0	78	5.39	30.7	2.97	21.0
H755060		0.05	8.95	1.6	510	0.26	0.02	8.37	0.05	4.54	29.2	82	2.67	47.9	5.23	16.95

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129586

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.1
H755021																
H755022		0.13	1.3	0.053	0.89	3.6	31.8	2.60	895	0.60	1.28	3.3	100.0	380	3.1	13.2
H755023		0.11	1.1	0.038	0.53	2.8	31.0	2.78	890	0.14	1.31	2.6	111.0	150	2.4	12.6
H755024		0.12	0.9	0.042	0.42	2.3	33.0	2.90	928	0.12	1.45	2.1	111.5	130	2.0	5.9
H755025		0.13	0.9	0.048	0.25	2.4	24.1	3.29	1030	0.18	1.36	1.6	145.5	210	2.2	1.7
H755026		0.13	1.2	0.052	0.43	3.8	21.6	2.40	905	0.20	1.79	2.7	166.0	380	3.1	7.5
H755027		0.13	1.2	0.039	0.74	7.9	23.5	2.63	850	0.34	1.84	1.9	104.5	280	3.2	28.3
H755028		0.13	0.7	0.059	0.42	3.0	23.2	3.10	983	0.21	1.43	1.7	140.5	180	2.6	7.1
H755029		0.12	0.9	0.061	0.28	3.3	19.0	3.51	1090	0.55	1.41	1.9	134.5	200	2.2	3.2
H755030		0.13	0.9	0.060	0.21	3.2	18.6	3.79	1140	0.50	1.24	2.0	139.5	250	1.8	1.9
H755031		0.13	1.2	0.063	0.18	3.6	19.9	4.11	1240	0.42	1.48	2.4	155.0	300	1.9	1.4
H755032		0.14	1.0	0.066	0.19	3.3	18.3	4.15	1400	0.28	1.47	2.2	148.0	270	3.0	0.9
H755033		0.13	1.0	0.066	0.30	3.2	21.1	4.08	1310	0.25	1.49	2.2	134.5	300	2.4	4.8
H755034		0.16	0.9	0.071	0.18	3.3	19.4	4.13	1440	0.22	1.24	2.3	121.5	300	8.1	1.7
H755035		0.14	1.0	0.073	0.18	3.2	17.5	4.18	1700	0.24	1.36	2.5	116.0	330	2.4	1.6
H755036		0.15	3.2	0.050	1.40	19.5	37.8	2.90	1720	0.81	1.62	6.1	45.4	1040	11.7	48.3
H755037		0.16	2.4	0.064	1.29	19.2	40.8	2.17	2140	1.14	1.42	6.5	25.1	980	15.1	41.4
H755038		0.17	2.3	0.083	1.21	21.6	39.2	2.26	1450	1.05	1.30	6.9	25.5	1090	9.6	39.8
H755039		0.12	0.4	0.047	1.30	4.0	43.9	3.12	969	0.56	1.39	1.3	104.0	130	4.1	24.8
H755040		0.14	3.3	0.025	1.05	27.0	35.5	1.65	501	2.18	3.18	4.9	56.3	760	3.7	27.6
H755041		0.12	0.5	0.037	0.67	2.8	29.3	3.08	1010	0.42	1.38	1.6	144.5	150	2.1	10.1
H755042		0.13	0.5	0.042	0.57	1.9	25.9	3.04	968	0.16	1.44	1.8	123.0	180	2.2	9.2
H755043		0.12	0.8	0.030	0.86	2.0	29.6	2.91	1010	0.19	1.67	1.9	125.0	250	2.4	25.7
H755044		0.12	0.7	0.042	0.54	2.0	23.8	2.92	922	0.22	1.45	1.8	132.5	200	2.0	7.3
H755045		0.11	0.4	0.040	0.26	1.8	19.9	3.00	976	0.23	1.21	1.2	134.0	140	2.1	2.1
H755046																
H755047		0.11	0.8	0.045	0.80	3.9	28.3	3.43	1240	0.22	1.17	2.1	89.7	200	4.1	28.2
H755048		0.15	3.7	0.022	0.91	35.2	24.1	0.87	457	0.96	3.84	7.1	18.3	640	7.3	28.7
H755049		0.15	1.0	0.044	1.24	4.0	41.3	2.89	875	0.30	1.57	3.6	102.0	360	2.8	18.3
H755050		0.16	1.9	0.035	1.21	17.1	30.9	2.11	681	0.72	2.48	4.1	79.6	370	4.2	32.3
H755051		0.13	0.5	0.042	0.39	1.5	24.9	3.33	922	0.14	1.20	1.4	128.0	140	1.7	3.1
H755052		0.13	0.4	0.040	0.25	1.5	23.8	3.11	964	0.24	1.19	1.3	121.5	150	1.7	1.6
H755053		0.14	0.5	0.046	0.22	2.3	24.6	3.27	1070	0.18	1.28	1.8	144.0	150	1.7	1.5
H755054		0.14	0.8	0.043	0.26	3.6	23.1	3.33	1030	0.38	1.38	2.5	155.0	210	1.8	2.3
H755055		0.12	0.4	0.044	0.29	1.8	23.4	2.57	864	0.12	1.34	1.5	123.5	100	2.2	3.0
H755056		0.12	0.5	0.046	0.89	1.5	35.0	4.32	1260	0.10	0.72	1.4	73.3	70	2.8	32.8
H755057		0.11	0.4	0.015	0.38	3.6	14.9	8.22	1860	0.17	0.11	0.9	36.7	140	1.0	14.9
H755058		0.13	2.7	0.032	1.54	23.4	45.3	1.97	548	0.82	2.72	5.2	57.1	630	5.4	48.7
H755059		0.14	3.2	0.030	1.44	24.6	56.9	1.67	532	0.40	3.15	5.8	54.7	750	6.5	46.0
H755060		0.10	0.4	0.035	0.86	1.9	32.1	2.74	891	0.26	1.35	1.4	106.5	90	4.0	9.7

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129586

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	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.1
H755021																
H755022		<0.002	0.12	0.50	26.5	2	0.5	214	0.28	0.07	0.3	0.481	0.17	0.1	171	0.5
H755023		<0.002	0.11	0.54	25.6	2	0.4	160.0	0.24	0.05	0.3	0.407	0.08	0.1	164	0.4
H755024		<0.002	0.04	0.44	25.2	2	0.4	149.0	0.16	0.06	0.3	0.396	0.06	0.1	156	0.3
H755025		<0.002	0.08	0.33	32.8	2	0.6	127.5	0.14	0.07	0.2	0.384	0.04	0.1	180	0.3
H755026		<0.002	0.08	0.31	31.3	2	0.5	145.0	0.19	0.08	0.3	0.495	0.07	0.1	213	0.3
H755027		<0.002	0.17	0.25	21.4	2	0.6	190.0	0.16	0.10	1.3	0.318	0.15	0.3	138	0.3
H755028		<0.002	0.06	0.38	29.8	2	1.0	145.5	0.13	0.05	0.2	0.401	0.08	0.1	182	0.3
H755029		<0.002	0.09	0.28	34.3	2	0.9	116.5	0.16	0.11	0.2	0.426	0.04	0.1	198	0.3
H755030		<0.002	0.06	0.38	33.2	2	0.9	106.5	0.16	0.09	0.2	0.461	0.02	<0.1	209	0.3
H755031		<0.002	0.06	0.36	38.4	2	0.9	118.0	0.21	0.11	0.3	0.520	<0.02	0.1	224	0.3
H755032		0.002	0.09	0.42	39.4	2	0.8	125.5	0.19	0.08	0.2	0.535	<0.02	0.1	245	0.3
H755033		<0.002	0.18	0.36	40.9	2	0.6	138.5	0.18	0.08	0.3	0.571	0.04	0.1	263	0.5
H755034		0.002	0.11	0.31	40.1	2	0.7	117.0	0.20	0.11	0.2	0.573	0.02	0.1	265	0.4
H755035		0.002	0.03	0.40	42.5	2	0.7	119.5	0.20	0.08	0.3	0.633	<0.02	0.1	292	0.4
H755036		<0.002	0.13	0.27	20.2	2	1.7	262	0.52	0.08	3.4	0.501	0.23	0.8	112	1.6
H755037		<0.002	0.27	0.29	15.2	2	2.3	163.5	0.59	0.12	2.9	0.498	0.20	0.7	92	1.1
H755038		<0.002	0.35	0.38	15.6	2	3.7	184.0	0.63	0.26	2.9	0.540	0.21	0.7	81	1.8
H755039		<0.002	0.02	0.75	26.2	2	0.5	311	0.11	0.19	0.2	0.330	0.13	<0.1	162	1.4
H755040		<0.002	0.04	0.16	9.1	2	0.6	553	0.31	0.13	5.0	0.264	0.18	1.2	67	3.3
H755041		<0.002	0.12	0.67	26.9	2	0.4	231	0.13	0.08	0.3	0.334	0.11	0.1	157	1.0
H755042		<0.002	0.11	0.73	28.9	2	0.4	207	0.15	0.08	0.2	0.405	0.12	<0.1	192	0.8
H755043		<0.002	0.24	0.43	25.4	2	0.3	209	0.16	0.11	0.2	0.434	0.19	<0.1	188	2.6
H755044		<0.002	0.19	0.76	29.4	2	0.4	169.5	0.15	0.16	0.2	0.456	0.11	<0.1	205	2.3
H755045		<0.002	0.26	0.77	32.0	2	0.3	164.0	0.10	0.13	<0.2	0.344	0.04	<0.1	177	0.6
H755046																
H755047		<0.002	0.32	0.54	26.2	2	0.4	162.0	0.21	0.17	0.3	0.414	0.17	<0.1	178	1.1
H755048		<0.002	0.51	0.17	6.6	2	0.6	618	0.45	0.38	8.3	0.221	0.17	1.5	50	22.1
H755049		0.002	0.09	0.32	21.1	2	0.4	228	0.29	0.15	0.6	0.388	0.31	0.1	117	5.3
H755050		0.002	0.30	0.23	18.0	2	0.5	416	0.29	0.24	3.6	0.261	0.32	0.7	102	7.0
H755051		<0.002	0.14	0.43	29.8	2	0.3	163.0	0.10	0.16	<0.2	0.321	0.10	<0.1	165	0.4
H755052		<0.002	0.12	0.48	29.6	2	0.3	151.0	0.10	0.12	<0.2	0.311	0.06	<0.1	152	0.4
H755053		<0.002	0.09	0.59	30.8	2	0.3	152.5	0.15	0.09	0.2	0.335	0.04	<0.1	169	0.4
H755054		<0.002	0.09	0.59	32.5	2	0.4	179.0	0.19	0.16	0.5	0.371	0.06	0.1	173	0.5
H755055		<0.002	0.09	0.72	31.9	2	0.4	172.0	0.11	0.10	<0.2	0.342	0.06	<0.1	171	0.5
H755056		<0.002	0.05	0.61	27.0	2	0.5	163.0	0.12	0.13	<0.2	0.349	0.20	<0.1	162	0.9
H755057		<0.002	0.14	0.08	11.1	2	0.2	76.8	0.07	0.19	0.3	0.088	0.09	0.1	57	2.5
H755058		<0.002	0.08	0.24	11.2	2	0.6	698	0.28	0.12	4.7	0.258	0.25	1.1	73	1.3
H755059		<0.002	0.05	0.22	9.9	2	0.7	895	0.33	0.11	5.5	0.261	0.20	1.3	66	0.8
H755060		<0.002	0.14	0.77	17.6	1	0.3	316	0.11	0.18	<0.2	0.327	0.20	<0.1	151	0.8

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129586

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H755021				
H755022		21.3	67	43.7
H755023		15.4	59	41.8
H755024		14.8	54	33.4
H755025		13.9	67	27.9
H755026		17.6	91	39.2
H755027		10.2	81	38.6
H755028		14.4	69	21.9
H755029		16.4	82	28.6
H755030		17.3	92	29.1
H755031		20.7	98	37.1
H755032		19.9	112	29.8
H755033		20.2	167	28.2
H755034		21.4	215	26.1
H755035		21.2	165	28.0
H755036		19.9	135	113.5
H755037		19.7	842	84.5
H755038		21.3	242	79.0
H755039		9.2	79	11.9
H755040		8.0	56	109.0
H755041		12.4	83	16.5
H755042		13.0	80	16.8
H755043		16.3	71	26.8
H755044		14.1	73	22.0
H755045		11.6	76	10.5
H755046				
H755047		22.5	149	22.7
H755048		10.0	54	114.5
H755049		22.8	68	30.1
H755050		11.9	62	60.0
H755051		11.5	67	16.0
H755052		11.2	67	11.3
H755053		12.3	68	16.2
H755054		12.3	69	29.5
H755055		10.9	59	12.9
H755056		14.8	105	16.9
H755057		11.0	89	21.4
H755058		9.5	63	104.0
H755059		9.2	58	121.0
H755060		8.6	65	13.1

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129586

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H755061		0.03	9.54	1.3	220	0.24	0.03	8.89	0.06	5.71	31.1	85	1.13	20.6	5.69	17.85
H755062		0.04	9.61	1.1	190	0.20	0.02	9.12	0.06	3.19	30.4	83	0.56	39.8	5.41	17.35
H755063		0.20	9.34	2.0	520	0.40	0.09	8.02	0.07	4.22	45.2	79	1.65	250	5.48	18.10
H755064		0.09	7.47	1.9	720	0.91	0.48	5.29	0.06	115.5	29.0	93	4.89	20.6	5.97	19.35
H755065		0.07	7.18	1.3	600	0.89	0.31	5.53	0.07	95.7	40.5	214	6.23	25.0	6.60	19.20
H755066		0.10	8.70	1.2	770	1.01	0.18	6.44	0.05	17.05	33.5	74	6.42	57.9	5.21	18.50
H755067		0.04	2.86	<5	70	0.46	0.02	18.65	0.10	25.6	19.1	22	1.46	19.7	4.47	5.11
H755068		0.09	9.39	0.7	190	0.36	0.04	8.99	0.07	8.00	35.5	81	1.71	72.7	5.74	17.35
H755069		0.08	8.92	0.3	150	0.39	0.03	7.56	0.06	4.47	30.6	66	0.89	40.5	5.37	18.35
H755070		0.36	9.05	2.4	170	0.34	0.12	7.36	0.07	6.44	40.7	80	1.51	68.3	5.98	17.05
H755071																
H755072		0.11	9.09	0.7	260	0.34	0.05	7.83	0.07	6.52	41.5	70	2.05	65.5	6.62	17.25
H755073		0.07	7.13	0.9	330	1.15	0.02	7.12	0.09	30.0	38.4	353	2.54	51.1	6.19	15.45
H755074		0.15	8.50	0.7	300	0.41	0.05	7.35	0.08	11.05	43.8	105	2.70	66.2	6.74	17.95
H755075		0.07	6.79	0.5	420	0.78	<0.01	5.19	0.06	32.3	41.0	260	6.42	12.8	5.85	17.05
H755076		0.13	8.46	1.8	90	0.24	0.03	7.56	0.08	5.99	39.1	88	0.71	59.7	6.15	15.90
H755077		0.10	8.51	0.9	120	0.35	0.03	7.57	0.09	15.55	35.5	81	1.27	39.6	5.84	16.50
H755078		0.59	7.12	1.1	330	0.52	0.28	9.76	0.11	9.57	32.3	72	7.82	50.4	6.29	14.25
H755079		0.51	6.77	0.6	350	0.61	0.30	6.21	0.12	12.65	44.6	47	9.36	140.0	9.58	17.65
H755080		0.20	7.29	0.8	90	0.52	0.07	5.95	0.13	13.90	49.3	56	1.13	94.1	10.85	18.20
H755081		0.19	6.74	0.9	480	0.79	0.14	6.14	0.11	22.2	40.9	204	7.19	107.5	8.81	16.35
H755082		0.10	7.27	0.3	330	0.77	0.02	5.96	0.10	48.8	42.5	262	4.85	43.3	7.97	17.45
H755083		0.35	7.27	0.6	330	0.69	0.11	6.36	0.09	14.25	47.4	43	5.24	124.5	9.58	18.15
H755084		0.30	7.40	1.2	80	0.49	0.04	6.69	0.10	17.45	46.4	42	0.38	119.0	10.60	18.65
H755085		0.43	7.28	0.7	780	1.23	0.03	3.15	0.03	44.7	13.6	35	3.89	40.1	2.92	19.35
H755086		0.36	7.26	1.5	200	0.52	0.11	9.11	0.11	16.15	46.8	43	1.80	147.5	9.74	18.10
H755087		0.13	7.50	1.5	820	1.31	<0.01	3.24	0.04	60.2	11.6	35	3.53	53.5	3.12	19.15
H755088		0.14	6.83	1.5	110	0.53	0.03	5.68	0.13	17.95	29.9	42	0.95	85.0	13.90	15.25
H755089		0.07	7.63	0.4	660	1.14	<0.01	3.62	0.06	45.4	14.3	48	7.18	19.6	3.28	20.2
H755090		0.15	7.60	0.9	130	0.37	0.02	7.71	0.13	10.85	50.4	109	1.13	143.0	9.72	17.00
H755091		0.07	7.31	0.5	870	1.04	<0.01	4.06	0.06	68.8	22.5	234	8.58	28.3	3.59	17.75
H755092		0.15	7.94	0.8	220	0.48	0.02	8.19	0.12	21.5	47.6	147	2.46	107.5	8.35	17.40
H755093		0.11	8.02	0.5	170	0.44	0.01	7.22	0.11	10.70	45.6	119	1.87	119.0	8.65	17.90
H755094		0.10	7.56	0.9	110	0.30	0.01	8.79	0.12	9.29	46.3	114	0.55	101.5	8.22	16.05
H755095		0.11	7.89	<5	60	0.34	<0.01	10.30	0.13	9.59	48.8	113	0.07	103.5	8.26	17.20
H755096																
H755097		0.13	7.91	<5	70	0.31	0.04	10.50	0.17	9.80	53.8	104	0.22	133.5	8.80	18.70
H755098		0.20	6.79	5	450	0.37	0.09	10.05	0.10	9.12	48.4	105	12.00	153.0	7.58	16.65
H755099		0.11	8.42	2.2	120	0.35	0.03	8.00	0.14	10.80	56.7	134	6.29	138.5	9.33	19.90
H755100		0.08	8.54	1.4	100	0.30	0.04	7.60	0.14	10.80	53.8	128	2.70	125.5	9.12	19.90

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129586

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.1
H755061		0.11	0.6	0.035	0.36	2.4	25.2	2.83	918	0.18	1.31	1.8	103.0	80	3.0	2.9
H755062		0.13	0.5	0.036	0.27	1.2	21.8	2.87	980	0.14	1.43	1.5	102.0	80	2.9	2.3
H755063		0.13	0.5	0.044	0.60	1.8	33.3	2.60	859	0.23	1.95	1.6	125.0	180	4.0	6.4
H755064		0.26	2.5	0.049	1.03	55.0	37.6	2.82	763	0.22	2.46	3.3	64.1	1180	5.2	34.3
H755065		0.26	2.5	0.055	1.17	46.7	43.2	4.64	1060	0.17	2.09	3.1	223	940	3.5	40.5
H755066		0.15	1.2	0.039	1.49	7.5	57.4	2.77	852	1.49	2.18	2.8	114.0	310	5.2	24.0
H755067		0.11	0.4	0.015	0.33	17.3	17.1	6.37	1700	0.38	0.31	0.6	38.3	110	1.3	7.9
H755068		0.12	0.6	0.045	0.55	3.3	29.6	2.83	1030	0.29	1.44	1.6	107.5	150	3.7	6.4
H755069		0.12	0.8	0.036	0.39	1.7	28.6	2.59	979	0.32	1.75	2.3	101.0	110	3.3	2.6
H755070		0.14	0.6	0.038	0.51	2.5	30.4	2.99	999	0.58	1.41	1.8	136.5	190	3.6	5.9
H755071																
H755072		0.14	0.7	0.041	0.68	2.5	34.4	3.37	1140	0.78	1.30	2.0	141.5	220	3.1	7.8
H755073		0.17	2.0	0.056	0.77	12.9	32.5	5.50	1280	0.73	1.56	3.2	139.5	1170	3.0	20.9
H755074		0.16	1.0	0.050	0.72	4.5	32.8	3.35	1230	0.51	1.28	2.4	143.5	330	3.5	10.3
H755075		0.19	2.3	0.046	1.16	14.7	50.6	5.09	1080	0.56	1.90	4.5	220	690	2.3	41.6
H755076		0.14	0.7	0.043	0.34	2.4	27.6	3.32	1130	0.61	1.23	1.8	137.5	180	2.9	2.2
H755077		0.16	0.9	0.043	0.42	7.0	25.4	3.26	1140	0.50	1.44	2.0	119.0	220	3.2	4.3
H755078		0.14	0.9	0.050	1.60	4.1	58.9	3.84	1370	0.87	1.36	1.9	82.9	220	2.9	53.2
H755079		0.17	1.2	0.085	1.43	4.9	46.2	2.74	1420	0.42	1.51	3.5	47.5	470	3.1	50.7
H755080		0.19	1.3	0.085	0.33	5.4	27.5	2.76	1300	0.37	1.68	3.8	52.7	470	3.3	6.9
H755081		0.18	1.6	0.081	1.18	9.1	44.3	4.23	1260	0.50	1.66	3.2	90.5	800	3.1	41.4
H755082		0.21	2.2	0.062	0.90	23.0	40.7	4.42	1240	0.41	1.94	3.4	131.5	830	3.5	31.2
H755083		0.18	1.2	0.086	1.03	5.6	43.7	2.98	1440	0.74	1.87	3.6	49.8	500	6.0	33.5
H755084		0.20	1.3	0.083	0.33	6.8	30.8	2.94	1480	0.41	1.48	3.9	45.6	500	5.6	3.7
H755085		0.20	2.9	0.021	1.22	19.6	51.4	1.15	431	0.46	3.64	4.7	22.4	730	4.7	27.5
H755086		0.19	1.1	0.099	0.54	6.8	23.2	1.94	2480	0.69	0.89	3.7	47.0	470	4.1	12.8
H755087		0.20	2.8	0.021	1.30	27.3	48.6	1.10	542	0.79	3.24	4.6	22.4	740	6.7	33.9
H755088		0.19	1.7	0.061	0.28	8.1	21.4	3.09	5580	1.32	0.61	3.7	40.3	390	3.3	6.8
H755089		0.19	2.6	0.023	1.11	20.4	37.1	1.19	653	0.98	3.04	4.7	29.4	600	4.7	37.8
H755090		0.18	1.0	0.071	0.34	4.4	21.0	3.29	1410	0.33	1.21	3.1	87.3	370	2.1	7.2
H755091		0.20	2.5	0.026	1.16	36.2	36.9	3.13	654	0.58	3.14	3.9	112.0	740	5.2	42.7
H755092		0.17	1.3	0.073	0.46	10.1	21.7	2.56	1580	0.49	1.56	3.0	100.5	430	2.4	14.8
H755093		0.17	0.7	0.079	0.34	4.1	20.2	2.50	1710	0.30	1.49	2.9	78.4	370	1.8	11.6
H755094		0.14	1.2	0.073	0.23	3.5	14.1	2.04	1860	0.39	1.27	2.5	83.7	320	1.4	4.4
H755095		0.14	1.2	0.077	0.16	3.6	12.1	1.86	2090	0.33	1.19	2.6	86.8	330	1.4	1.5
H755096																
H755097		0.16	0.9	0.084	0.23	3.6	13.8	2.39	2040	0.25	1.23	2.9	87.4	350	1.5	2.0
H755098		0.13	0.7	0.069	0.99	3.5	31.6	2.66	2140	0.27	1.44	2.5	79.0	270	2.0	39.5
H755099		0.16	0.8	0.087	0.55	4.1	22.4	2.38	2220	0.37	1.79	3.2	93.2	380	1.7	19.2
H755100		0.17	0.7	0.085	0.31	4.1	19.0	2.15	2320	0.27	1.97	3.4	90.6	350	1.6	8.6

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129586

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	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Sample Description LOR	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	0.1
H755061	<0.002	0.05	1.25	19.6	1	0.4	195.5	0.15	<0.05	<0.2	0.375	0.06	<0.1	158	3.1
H755062	<0.002	0.08	1.30	21.8	2	0.3	217	0.12	<0.05	<0.2	0.350	0.04	<0.1	152	0.5
H755063	<0.002	0.37	0.64	19.9	2	0.4	375	0.11	0.24	<0.2	0.368	0.13	<0.1	176	2.2
H755064	<0.002	1.85	0.48	16.6	2	0.9	856	0.22	0.28	9.4	0.578	0.19	1.7	132	5.3
H755065	<0.002	0.72	0.45	18.5	2	0.8	619	0.20	0.20	7.4	0.563	0.21	1.3	136	9.5
H755066	<0.002	0.26	0.50	19.0	2	0.5	622	0.18	0.14	1.5	0.352	0.32	0.5	155	2.8
H755067	<0.002	0.28	0.16	8.5	2	0.2	116.0	<0.05	0.16	<0.2	0.099	0.04	0.1	59	1.8
H755068	<0.002	0.12	0.74	21.8	2	0.4	247	0.12	<0.05	0.3	0.387	0.10	0.1	191	3.9
H755069	<0.002	0.11	0.65	18.2	2	0.4	231	0.19	0.08	<0.2	0.455	0.07	<0.1	144	1.2
H755070	0.002	0.44	0.63	21.9	2	0.4	219	0.13	0.99	<0.2	0.387	0.12	<0.1	170	94.8
H755071															
H755072	0.002	0.22	0.69	19.8	2	0.4	259	0.14	0.23	<0.2	0.415	0.15	0.1	184	3.3
H755073	<0.002	0.02	0.96	31.4	2	0.8	472	0.21	0.05	3.2	0.433	0.13	0.9	203	4.6
H755074	<0.002	0.13	0.82	25.2	2	0.6	288	0.17	0.13	0.4	0.465	0.18	0.2	216	1.5
H755075	<0.002	0.07	0.37	23.1	2	0.7	312	0.28	0.10	2.6	0.477	0.26	0.8	160	2.4
H755076	0.002	0.19	0.86	21.6	2	0.5	238	0.13	0.21	<0.2	0.381	0.05	<0.1	185	0.7
H755077	<0.002	0.10	0.76	23.6	2	0.5	248	0.14	0.16	1.0	0.387	0.08	0.3	164	1.7
H755078	0.003	1.28	0.26	24.4	2	0.6	220	0.14	2.39	0.4	0.404	0.30	0.1	191	234
H755079	0.002	1.07	0.41	40.9	3	0.9	239	0.25	2.06	0.4	0.776	0.29	0.1	325	49.5
H755080	0.002	0.33	0.89	42.7	3	0.9	215	0.26	0.45	0.4	0.803	0.05	0.1	339	2.1
H755081	<0.002	0.46	0.45	34.8	2	0.7	356	0.21	0.63	1.6	0.601	0.24	0.5	275	3.8
H755082	<0.002	0.14	0.43	30.5	2	0.7	386	0.22	0.36	4.1	0.533	0.17	1.0	234	5.9
H755083	0.003	0.59	0.50	41.7	3	0.8	247	0.25	0.56	0.4	0.820	0.21	0.1	345	119.5
H755084	0.002	0.31	1.10	42.5	3	0.9	165.5	0.26	0.25	0.4	0.826	0.03	0.1	341	3.2
H755085	<0.002	0.34	0.26	8.9	2	0.5	664	0.28	0.60	4.9	0.250	0.11	1.3	76	8.8
H755086	0.003	0.55	1.48	41.0	3	0.9	256	0.25	0.62	0.5	0.769	0.06	0.1	319	1.8
H755087	<0.002	0.17	0.34	7.8	2	0.5	885	0.28	0.10	5.0	0.240	0.14	1.3	67	0.5
H755088	0.004	0.50	1.36	23.5	2	0.9	96.1	0.30	0.18	1.3	0.476	0.04	0.3	187	6.6
H755089	<0.002	0.02	1.08	9.7	2	0.5	700	0.27	0.05	3.8	0.268	0.23	1.1	78	8.8
H755090	0.003	0.18	1.49	41.7	3	0.7	192.5	0.22	0.06	0.4	0.656	0.04	0.1	293	1.9
H755091	<0.002	0.03	0.36	12.4	1	0.6	823	0.25	0.09	6.5	0.283	0.27	1.7	93	2.3
H755092	0.002	0.13	1.28	38.6	2	0.7	258	0.21	0.34	1.6	0.594	0.08	0.4	271	3.7
H755093	<0.002	0.20	0.85	43.9	2	0.7	124.0	0.20	0.10	0.3	0.655	0.07	0.1	309	1.9
H755094	0.002	0.13	0.95	38.9	2	0.6	127.5	0.18	0.08	0.3	0.610	0.03	0.1	288	1.6
H755095	<0.002	0.07	1.04	41.1	2	0.7	140.0	0.18	0.09	0.3	0.630	<0.02	0.1	293	0.4
H755096															
H755097	<0.002	0.11	1.03	48.4	2	0.7	166.0	0.20	0.13	0.3	0.615	<0.02	0.1	285	0.9
H755098	<0.002	0.61	0.70	42.7	2	0.7	392	0.17	0.62	0.3	0.544	0.17	0.1	254	18.9
H755099	0.002	0.23	0.79	49.3	3	0.7	132.0	0.23	0.13	0.3	0.676	0.09	0.1	308	0.5
H755100	<0.002	0.25	0.49	48.6	3	0.7	133.5	0.23	0.19	0.3	0.691	0.05	0.1	311	0.8

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129586

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H755061		10.8	62	20.1
H755062		9.8	59	14.5
H755063		9.4	62	17.3
H755064		16.0	72	97.0
H755065		14.8	110	94.4
H755066		10.4	83	45.4
H755067		8.5	66	20.7
H755068		13.6	71	18.8
H755069		13.2	70	30.3
H755070		13.5	71	20.4
H755071				
H755072		13.5	79	25.1
H755073		18.4	109	76.9
H755074		15.8	82	34.5
H755075		13.0	99	90.1
H755076		11.4	74	21.3
H755077		11.9	77	30.3
H755078		15.8	103	28.0
H755079		28.9	121	42.5
H755080		30.1	127	46.0
H755081		22.7	133	58.1
H755082		20.3	122	78.0
H755083		29.2	121	42.4
H755084		30.0	119	43.1
H755085		9.4	48	112.0
H755086		28.7	107	37.5
H755087		7.9	57	112.0
H755088		18.8	147	64.7
H755089		8.0	54	102.0
H755090		24.2	118	36.5
H755091		9.1	72	94.4
H755092		20.9	117	46.4
H755093		24.0	115	23.8
H755094		21.4	116	35.5
H755095		23.2	123	36.1
H755096				
H755097		24.9	136	27.5
H755098		21.6	104	20.8
H755099		25.3	103	23.2
H755100		25.6	117	23.7

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129586

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H755101		0.08	8.59	2.7	70	0.32	0.05	8.00	0.14	10.90	57.5	125	0.74	124.0	9.58	20.6
H755102		0.10	8.13	0.9	200	0.35	0.05	8.04	0.12	12.30	57.0	130	11.00	211	10.35	19.55
H755103		0.09	7.85	0.8	140	0.27	0.07	9.23	0.08	10.45	51.3	125	2.06	100.5	8.43	18.60
H755104		0.09	7.49	<5	40	0.25	0.04	10.70	0.13	10.30	49.1	103	0.18	99.8	8.23	17.50
H755105		0.10	8.10	0.8	70	0.29	0.05	7.89	0.19	10.00	51.1	126	0.17	184.0	9.21	18.65
H755106		0.08	7.47	0.9	60	0.21	0.04	8.29	0.11	9.73	49.1	124	0.23	113.0	8.93	17.75
H755107		0.10	7.52	0.9	40	0.24	0.03	7.47	0.16	12.10	52.0	104	0.21	120.5	9.73	18.60
H755108		0.10	8.05	0.4	40	0.19	0.03	7.57	0.14	10.50	52.8	113	0.25	120.5	9.85	18.75
H755109		0.11	7.66	2.6	50	0.27	0.03	8.81	0.14	9.12	50.5	103	0.17	107.0	8.08	17.65
H755110		0.18	6.31	8	40	0.18	0.04	11.10	0.21	8.28	47.0	95	0.16	192.0	8.80	16.60
H755111		0.12	7.94	0.7	40	0.25	0.03	9.14	0.10	10.50	53.7	119	0.18	132.0	9.13	19.10
H755112		0.05	7.91	1.1	50	0.28	0.02	9.38	0.11	9.35	45.4	110	0.20	54.9	9.44	19.35
H755113		0.16	7.67	2.2	60	0.33	0.06	8.72	0.11	8.92	46.3	111	0.85	74.8	7.87	18.05
H755114		0.10	8.67	3.1	80	0.28	0.03	8.36	0.20	11.05	52.5	122	1.39	120.0	9.52	20.3
H755115		0.05	7.53	<0.2	80	0.27	0.01	9.61	0.15	10.50	41.6	105	2.00	63.3	8.60	17.75
H755116		0.10	8.25	0.8	60	0.25	0.03	8.90	0.19	10.85	52.7	117	0.11	121.5	9.17	19.05
H755117		0.06	8.02	1.8	90	0.24	0.08	8.93	0.13	10.15	53.3	117	0.41	123.0	8.44	18.65
H755118		0.06	7.84	1.3	40	0.23	0.02	8.94	0.14	10.10	49.7	110	0.18	120.5	8.99	18.05
H755119		0.07	8.19	2.2	30	0.22	0.02	9.48	0.17	10.45	53.5	115	0.09	131.5	9.12	19.10
H755120		0.14	8.19	1.7	40	0.28	0.06	9.65	0.16	10.45	53.4	130	0.11	176.0	9.09	20.1
H755121																
H755122		0.17	6.34	0.8	260	0.40	0.15	8.14	0.14	6.76	37.9	108	8.35	150.0	6.18	13.90
H755123		0.10	7.36	5	70	0.25	0.05	10.45	0.15	8.86	45.5	116	0.19	118.5	7.77	17.00
H755124		0.16	8.41	1.1	120	0.38	0.15	9.25	0.14	10.75	55.9	144	0.71	132.5	8.60	20.5
H755125		0.40	7.61	0.5	230	0.55	0.42	8.57	0.13	8.82	45.4	121	6.46	157.5	7.55	18.75
H755126		0.15	6.30	5	230	0.29	0.47	12.60	0.14	8.00	41.5	102	2.58	113.0	6.43	14.75
H755127		0.08	7.25	<5	90	0.28	0.10	10.80	0.13	8.85	51.5	109	0.84	111.0	7.42	17.40
H755128		0.08	7.97	1.0	50	0.29	0.04	9.36	0.15	9.88	53.4	143	0.08	240	8.66	19.05
H755129		0.08	7.85	0.5	710	1.28	0.05	4.58	0.08	64.6	30.5	212	6.27	39.6	4.97	20.4
H755130		0.16	7.02	<0.2	370	0.89	0.12	4.75	0.10	58.3	23.9	186	3.59	46.4	4.24	17.65
H755131		0.09	7.87	<5	60	0.29	0.02	10.20	0.11	9.99	51.4	116	0.09	107.5	8.28	18.60
H755132		0.06	7.70	2.2	90	0.25	0.01	8.86	0.13	9.79	50.0	121	<0.05	107.5	8.00	18.30
H755133		0.06	7.61	<5	70	0.23	0.01	10.45	0.14	9.77	51.0	112	0.06	128.0	8.83	17.60
H755134		0.05	8.18	8.3	70	0.27	0.01	9.34	0.14	10.05	53.9	126	0.06	143.5	8.25	19.45
H755135		0.05	8.00	<5	50	0.28	0.01	10.25	0.11	10.15	53.3	119	0.06	115.5	8.88	19.45
H755136		0.06	7.38	6	90	0.22	0.02	11.80	0.18	8.98	51.3	104	0.07	183.0	7.88	17.60
H755137		0.08	7.67	1.0	70	0.25	0.02	9.94	0.17	9.64	52.4	115	0.08	129.0	8.51	18.40
H755138		0.09	7.86	1.2	50	0.28	0.05	9.43	0.15	10.10	53.0	113	0.18	112.0	9.03	19.10
H755139		0.08	7.81	1.4	50	0.29	0.05	7.99	0.11	9.62	52.1	125	0.14	91.0	9.66	18.15
H755140		0.47	6.44	<0.2	470	0.56	4.00	8.40	0.12	7.88	49.7	107	22.7	465	7.51	14.95

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129586

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Sample Description LOR	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	0.1
H755101	0.18	0.7	0.083	0.25	4.2	17.5	2.23	2440	0.29	1.84	3.3	94.5	370	1.6	3.8
H755102	0.16	1.1	0.079	0.60	4.8	24.7	2.68	2720	0.25	1.59	3.0	91.9	330	1.6	34.3
H755103	0.16	1.0	0.078	0.28	4.0	14.3	2.30	2350	0.33	1.81	3.0	85.5	330	1.5	11.9
H755104	0.15	1.0	0.080	0.16	4.0	9.9	2.52	2530	0.33	0.97	3.2	82.6	340	1.2	1.6
H755105	0.18	1.1	0.074	0.21	3.7	11.2	3.14	1500	0.34	1.70	3.0	81.7	350	1.2	1.9
H755106	0.16	1.1	0.075	0.16	3.6	10.4	3.44	1430	0.30	1.48	2.8	81.3	320	1.2	1.8
H755107	0.18	1.4	0.085	0.15	4.6	10.5	3.78	1300	0.31	1.34	3.9	81.7	370	1.2	1.8
H755108	0.17	1.3	0.077	0.15	4.0	10.8	4.08	1240	0.25	1.47	3.1	91.2	330	1.2	1.9
H755109	0.14	1.1	0.072	0.15	3.4	7.9	2.84	1850	0.35	1.84	2.7	88.1	310	1.4	1.9
H755110	0.15	0.9	0.071	0.14	3.3	9.5	2.82	2600	0.13	1.32	2.4	70.5	250	1.3	1.8
H755111	0.16	1.3	0.085	0.19	4.0	10.3	2.41	1980	0.36	1.46	3.2	87.2	350	1.3	2.9
H755112	0.15	1.0	0.082	0.22	3.5	9.8	2.49	2080	0.21	1.79	2.7	66.5	350	1.4	2.7
H755113	0.14	0.6	0.075	0.34	3.5	15.2	2.05	2100	0.19	1.69	2.8	78.9	310	2.4	8.9
H755114	0.17	1.0	0.086	0.39	4.1	10.0	2.19	1920	0.29	1.35	3.3	90.8	360	1.2	12.2
H755115	0.15	1.1	0.076	0.35	4.0	7.9	3.18	1870	0.31	1.42	3.1	71.6	330	1.1	14.1
H755116	0.15	1.1	0.078	0.28	4.1	6.6	2.09	1940	0.33	1.45	3.2	89.2	360	2.8	3.1
H755117	0.14	0.8	0.081	0.31	3.8	7.9	1.90	2060	0.37	1.73	2.9	85.8	340	1.6	8.7
H755118	0.15	1.3	0.076	0.26	3.9	6.3	2.37	1670	0.29	1.27	3.0	83.4	340	0.9	4.4
H755119	0.15	1.2	0.079	0.21	3.9	7.0	2.10	1820	0.32	1.11	3.1	88.7	350	1.0	2.3
H755120	0.11	1.5	0.085	0.23	3.9	8.8	1.92	2110	0.30	1.48	3.1	95.8	350	1.1	1.4
H755121															
H755122	0.08	1.0	0.060	0.94	2.5	19.9	1.47	1790	1.07	2.12	2.2	69.9	250	1.7	59.2
H755123	0.10	1.2	0.067	0.19	3.3	10.5	2.01	2320	0.33	1.74	2.5	80.7	280	1.3	1.7
H755124	0.11	1.5	0.081	0.50	4.0	17.0	2.27	2070	0.30	1.87	3.0	100.5	350	3.0	12.4
H755125	0.11	1.1	0.070	1.41	3.3	39.6	1.89	1910	2.53	2.32	2.4	85.5	320	4.1	48.1
H755126	0.08	1.0	0.059	0.54	3.1	19.0	1.50	2350	0.44	1.51	2.4	72.5	250	3.1	20.6
H755127	0.10	1.2	0.069	0.28	3.3	13.7	1.65	2270	0.31	1.33	2.5	86.3	290	1.1	11.0
H755128	0.11	1.1	0.074	0.16	3.8	11.6	2.03	2090	0.38	1.47	3.1	94.7	330	1.4	1.0
H755129	0.11	3.3	0.038	1.30	29.9	24.8	3.63	868	0.76	3.14	6.5	160.5	950	8.4	36.8
H755130	0.09	2.9	0.035	0.73	27.4	14.1	3.07	913	0.76	3.38	4.6	128.5	770	5.9	30.9
H755131	0.10	1.5	0.073	0.15	3.8	8.2	2.21	2200	0.25	1.68	2.7	92.5	340	1.6	1.3
H755132	0.09	1.6	0.071	0.11	3.7	6.3	2.02	1870	0.33	1.84	2.8	90.0	310	0.8	1.2
H755133	0.12	1.4	0.071	0.10	3.7	5.9	2.26	2430	0.26	1.41	2.8	88.6	330	0.8	1.7
H755134	0.10	1.6	0.079	0.08	3.8	5.4	2.02	2130	0.30	1.82	2.9	93.8	340	0.8	1.3
H755135	0.12	1.6	0.078	0.08	3.8	5.4	2.03	2080	0.38	1.52	2.8	94.0	340	0.6	1.2
H755136	0.10	1.2	0.068	0.10	3.5	5.8	1.91	2570	0.28	1.86	2.5	89.7	290	0.7	1.4
H755137	0.11	1.4	0.073	0.08	3.6	6.2	1.87	1890	0.24	1.50	2.7	91.2	330	0.7	1.1
H755138	0.11	1.4	0.078	0.09	3.7	9.5	2.43	1860	0.29	1.37	2.8	94.8	350	1.4	1.2
H755139	0.12	1.4	0.074	0.13	3.6	10.3	3.40	1400	0.35	1.81	2.7	92.7	330	1.1	1.1
H755140	0.10	1.3	0.057	0.71	3.0	30.3	1.64	1610	15.70	3.12	2.2	86.0	260	2.0	118.5

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129586

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	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.1
H755101		<0.002	0.30	0.54	47.9	2	0.7	123.0	0.23	0.13	0.3	0.692	0.02	0.1	308	0.6
H755102		<0.002	0.48	0.45	51.1	3	0.6	113.0	0.21	0.18	0.3	0.640	0.18	0.1	302	0.9
H755103		<0.002	0.40	0.60	47.0	3	0.7	166.5	0.21	0.38	0.3	0.629	0.06	0.1	284	2.3
H755104		<0.002	0.09	0.73	44.8	2	0.6	119.0	0.23	0.14	0.3	0.590	<0.02	0.1	272	0.5
H755105		<0.002	0.31	0.44	47.0	3	0.7	121.5	0.20	0.19	0.3	0.639	<0.02	0.1	284	0.6
H755106		<0.002	0.28	0.37	44.7	2	0.6	138.5	0.19	0.16	0.3	0.585	<0.02	0.1	269	2.6
H755107		<0.002	0.18	0.48	44.6	3	0.8	135.0	0.33	0.15	0.4	0.649	<0.02	0.1	289	0.8
H755108		<0.002	0.15	0.45	46.2	2	0.7	146.5	0.22	0.11	0.3	0.620	<0.02	0.1	294	0.6
H755109		<0.002	0.11	0.44	44.8	2	0.6	178.0	0.19	0.12	0.3	0.574	<0.02	0.1	271	0.4
H755110		<0.002	0.28	0.36	38.3	2	0.5	99.9	0.17	0.16	0.3	0.511	0.02	0.1	245	0.5
H755111		<0.002	0.16	0.48	46.5	2	0.7	144.0	0.24	0.14	0.3	0.639	0.02	0.1	297	0.4
H755112		<0.002	0.10	0.30	44.9	2	0.6	134.5	0.20	0.12	0.3	0.614	0.02	0.1	338	0.5
H755113		<0.002	0.11	0.25	44.4	2	0.5	130.5	0.20	0.23	0.3	0.625	0.03	0.1	290	2.8
H755114		<0.002	0.12	0.34	48.5	3	0.7	104.0	0.23	0.15	0.3	0.698	0.06	0.1	320	1.8
H755115		<0.002	0.06	0.20	44.3	2	0.6	100.5	0.21	<0.05	0.3	0.597	0.05	0.1	265	0.3
H755116		<0.002	0.10	0.26	46.6	2	0.7	115.5	0.23	0.15	0.4	0.659	<0.02	0.1	300	0.3
H755117		0.002	0.21	0.19	44.0	2	0.7	116.5	0.20	0.25	0.3	0.637	0.03	0.1	294	0.3
H755118		<0.002	0.12	0.17	42.9	2	0.6	120.5	0.21	0.11	0.3	0.625	<0.02	0.1	284	0.1
H755119		<0.002	0.12	0.17	45.2	2	0.6	140.5	0.22	0.07	0.3	0.647	<0.02	0.1	300	0.2
H755120		0.002	0.15	0.21	49.4	2	0.7	119.5	0.20	0.14	0.3	0.678	0.02	0.1	311	0.5
H755121																
H755122		<0.002	0.72	0.08	34.2	2	0.5	139.5	0.14	0.59	0.2	0.494	0.27	0.1	219	10.4
H755123		0.002	0.26	0.17	41.6	2	0.6	125.0	0.17	0.17	0.3	0.589	<0.02	0.1	271	0.8
H755124		0.002	0.39	0.27	50.8	2	0.7	170.0	0.19	0.38	0.3	0.670	0.06	0.1	307	2.1
H755125		0.002	1.39	0.14	44.1	2	0.6	203	0.16	1.65	0.3	0.588	0.23	0.1	283	16.6
H755126		0.002	0.51	0.19	37.2	2	0.5	143.0	0.15	0.76	0.2	0.502	0.10	0.1	224	2.3
H755127		0.002	0.25	0.19	41.9	2	0.6	98.1	0.16	0.21	0.3	0.571	0.06	0.1	266	0.4
H755128		0.002	0.21	0.19	46.6	2	0.7	143.5	0.20	0.08	0.3	0.640	<0.02	0.1	295	0.2
H755129		<0.002	0.04	0.08	16.6	1	0.7	776	0.34	0.11	4.8	0.365	0.31	1.3	116	12.3
H755130		<0.002	0.66	0.07	14.6	1	0.6	456	0.25	0.80	4.6	0.297	0.19	1.1	114	37.3
H755131		0.002	0.12	0.13	45.2	2	0.6	140.5	0.18	0.10	0.3	0.618	<0.02	0.1	289	0.5
H755132		0.002	0.10	0.11	44.5	2	0.6	137.5	0.19	0.20	0.3	0.616	<0.02	0.1	285	0.2
H755133		0.002	0.12	0.15	43.1	2	0.6	130.5	0.18	0.06	0.3	0.600	0.02	0.1	280	0.1
H755134		0.002	0.14	0.13	46.3	2	0.6	140.0	0.19	<0.05	0.3	0.646	0.02	0.1	298	0.1
H755135		0.002	0.07	0.12	46.4	2	0.7	163.0	0.18	0.06	0.3	0.635	0.02	0.1	297	0.1
H755136		0.002	0.22	0.12	41.6	2	0.6	143.0	0.16	0.07	0.3	0.571	0.02	0.1	268	0.2
H755137		0.002	0.12	0.14	45.5	2	0.7	172.5	0.18	0.05	0.3	0.614	0.02	0.1	285	0.2
H755138		0.002	0.08	0.19	47.2	2	0.7	181.5	0.18	0.08	0.3	0.634	<0.02	0.1	294	0.4
H755139		0.002	0.15	0.17	44.6	2	0.6	197.5	0.18	0.14	0.3	0.620	<0.02	0.1	288	0.7
H755140		0.002	1.91	0.08	37.1	3	0.5	203	0.14	4.66	0.2	0.515	0.70	0.1	226	58.1

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129586

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H755101		26.5	114	21.1
H755102		28.2	129	39.1
H755103		24.6	118	29.2
H755104		23.4	122	28.6
H755105		24.3	119	35.9
H755106		22.9	109	31.1
H755107		25.7	112	44.5
H755108		24.0	107	44.2
H755109		21.0	98	34.7
H755110		20.5	155	28.3
H755111		24.9	122	35.6
H755112		23.9	122	32.4
H755113		22.1	107	17.7
H755114		25.5	130	30.4
H755115		24.6	120	35.6
H755116		25.1	135	35.7
H755117		23.6	139	20.5
H755118		23.4	115	38.3
H755119		24.7	132	38.1
H755120		24.0	137	49.8
H755121				
H755122		16.0	116	32.3
H755123		21.0	139	41.4
H755124		24.7	116	50.4
H755125		21.5	107	37.8
H755126		20.8	110	36.2
H755127		21.4	120	42.7
H755128		23.2	136	35.5
H755129		12.0	83	127.5
H755130		11.1	79	109.0
H755131		23.0	108	46.0
H755132		22.6	133	49.7
H755133		23.0	126	42.6
H755134		23.3	125	51.1
H755135		24.2	118	50.7
H755136		23.4	148	38.4
H755137		23.1	127	46.4
H755138		24.3	112	46.7
H755139		22.6	112	44.4
H755140		19.4	86	44.0

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129586

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H755141		0.09	8.03	0.8	70	0.30	0.06	8.82	0.11	9.41	51.9	116	0.50	111.5	8.65	18.80
H755142		0.09	8.01	1.0	50	0.27	0.04	8.96	0.16	10.20	53.8	124	0.26	123.0	9.50	19.05
H755143		0.27	6.90	<5	170	0.37	0.27	13.85	0.09	8.23	40.8	112	4.60	217	6.42	14.10
H755144		0.14	7.88	0.6	140	0.29	0.25	9.23	0.13	9.76	52.3	125	6.75	135.0	8.68	19.40

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129586

Sample Description	Method Analyte Units LOR	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	ME-MS61 Rb ppm 0.1
H755141		0.10	1.4	0.073	0.18	3.5	14.0	2.20	2030	0.40	2.35	2.6	92.3	330	1.2	4.3
H755142		0.11	1.5	0.074	0.12	3.9	14.3	2.24	1840	0.42	1.65	2.9	93.1	340	1.0	1.6
H755143		0.08	1.2	0.044	0.21	3.1	15.1	1.76	2430	0.50	2.62	2.6	75.5	260	2.1	18.5
H755144		0.11	1.6	0.077	0.30	3.7	17.8	1.98	2010	0.68	2.10	2.8	91.9	340	2.2	21.0

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129586

Sample Description	Method Analyte Units LOR	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
H755141		0.002	0.18	0.14	46.5	2	0.7	158.0	0.17	0.14	0.3	0.637	0.03	0.1	299	4.5
H755142		0.002	0.15	0.26	47.7	2	0.7	202	0.19	0.14	0.3	0.645	<0.02	0.1	303	0.5
H755143		0.002	0.88	0.09	37.9	2	0.6	208	0.16	1.12	0.2	0.546	0.09	0.1	211	10.7
H755144		0.003	0.51	0.17	46.9	2	0.7	199.5	0.18	0.46	0.3	0.629	0.11	0.1	288	2.5

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129586

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H755141		22.5	132	47.3
H755142		24.0	117	49.1
H755143		21.1	90	40.0
H755144		23.7	119	50.7

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129586

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

CERTIFICATE TB09130995

Project: Thorne Lake

P.O. No.:

This report is for 158 Pulp samples submitted to our lab in Thunder Bay, ON, Canada on 13-NOV-2009.

The following have access to data associated with this certificate:

STEVE VAN HAAFTEN	THOMAS HART	MATT SOOLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS

To: **NORTHERN SUPERIOR RESOURCES INC**
ATTN: THOMAS HART
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130995

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H755314		0.05	7.64	0.3	570	1.17	0.03	3.16	0.04	48.7	14.1	53	1.30	24.9	2.90	21.0
H755315		0.03	7.55	<0.2	810	1.37	0.04	2.96	0.03	47.2	13.0	45	1.75	23.5	2.78	22.0
H755316		0.03	7.36	<0.2	890	1.29	0.03	2.89	0.03	41.1	13.5	50	1.93	26.3	2.78	22.5
H755317		0.04	7.34	0.2	880	1.68	0.04	3.33	0.04	70.3	16.0	81	1.86	25.2	3.23	20.3
H755318		0.03	7.10	<0.2	1090	1.03	0.01	5.26	0.06	42.7	38.9	322	2.75	15.4	5.92	18.00
H755319		0.05	7.18	<0.2	840	1.38	0.02	3.03	0.03	54.5	15.9	93	2.02	44.0	3.03	19.70
H755320		0.05	7.55	<0.2	1010	1.52	0.03	4.01	0.05	78.9	29.3	176	3.44	29.9	4.74	21.0
H755321																
H755322		0.05	7.45	<0.2	740	1.35	0.05	4.46	0.05	67.8	27.9	152	1.90	39.1	5.06	19.90
H755323		0.03	7.10	<0.2	710	0.93	0.04	5.09	0.06	66.0	36.6	247	2.74	7.3	5.22	18.50
H755324		0.05	7.85	<0.2	840	1.42	0.11	4.45	0.06	87.2	28.7	170	2.75	36.7	4.77	19.85
H755325		0.05	7.54	<0.2	860	0.97	0.14	4.71	0.06	62.7	37.2	227	3.02	25.9	5.48	20.2
H755326		0.07	7.38	<0.2	860	1.26	0.19	4.22	0.05	68.8	27.4	174	3.41	33.7	4.75	19.50
H755327		0.05	7.70	0.3	860	1.31	0.09	4.33	0.05	68.9	32.6	206	2.64	19.6	4.94	21.1
H755328		0.06	7.95	<0.2	1270	1.59	0.03	4.78	0.06	91.0	25.8	162	1.48	48.6	4.39	20.0
H755329		0.04	7.38	<0.2	860	1.50	0.01	4.08	0.07	75.8	26.5	156	2.63	36.7	4.46	19.60
H755330		0.07	7.54	<0.2	840	1.64	0.01	4.05	0.08	79.8	25.6	149	1.90	40.9	4.32	20.4
H755331		0.04	7.50	<0.2	810	1.43	0.02	3.89	0.06	70.2	24.0	123	1.46	25.7	4.17	20.8
H755332		0.07	7.09	<0.2	850	1.57	0.03	4.05	0.04	68.3	22.4	130	2.86	8.9	3.82	17.50
H755333		0.05	7.87	<0.2	840	1.32	0.06	5.00	0.06	76.5	33.8	117	1.58	20.4	5.91	20.9
H755334		0.06	7.69	<0.2	820	1.60	0.04	4.21	0.06	98.3	26.7	147	1.48	35.6	4.43	20.8
H755335		0.06	8.05	<0.2	980	1.51	0.05	4.46	0.07	97.9	29.2	165	1.78	46.5	4.87	20.6
H755336		0.31	7.87	<0.2	1190	1.56	0.15	3.51	0.06	69.6	26.2	136	3.30	35.7	4.84	23.2
H755337		0.05	7.53	<0.2	800	1.60	0.03	3.96	0.07	86.5	27.7	160	2.15	21.1	4.75	19.70
H755338		0.06	7.53	<0.2	890	1.31	0.04	3.85	0.06	84.4	25.7	142	2.25	24.7	4.45	20.0
H755339		0.06	7.64	<0.2	950	1.49	0.01	3.95	0.06	81.3	25.6	146	2.68	37.8	4.40	20.1
H755340		0.06	7.04	<0.2	870	1.35	0.02	4.01	0.06	99.9	22.8	123	2.58	40.3	3.84	18.15
H755341		0.05	7.88	<0.2	770	1.60	0.05	4.07	0.08	83.3	26.9	152	2.04	25.9	4.61	20.9
H755342		0.04	6.12	<0.2	700	1.01	0.04	4.49	0.07	82.2	22.3	121	2.08	17.5	3.66	16.60
H755343		0.06	7.81	<0.2	770	1.38	0.05	4.62	0.06	75.2	27.7	137	2.19	31.6	4.91	20.0
H755344		0.11	7.48	<0.2	820	1.24	0.12	4.17	0.06	70.4	28.6	147	2.93	25.3	4.60	21.1
H755345		0.15	8.01	0.2	690	0.93	0.06	5.67	0.07	53.3	35.9	139	2.12	77.7	6.19	19.65
H755346																
H755347		0.05	7.25	<0.2	610	1.11	0.05	4.46	0.06	64.0	32.1	366	1.78	44.5	4.84	17.75
H755348		0.05	6.73	<0.2	640	0.93	0.03	4.55	0.07	51.8	50.3	495	2.47	63.9	5.89	17.30
H755349		0.05	7.17	<0.2	800	1.20	0.03	4.77	0.06	78.0	34.0	201	2.30	28.7	5.23	18.75
H755350		0.06	7.38	1.6	510	1.12	0.05	5.94	0.07	62.6	32.4	129	1.48	81.2	5.43	19.65
H755351		0.02	7.35	1.5	730	1.19	0.11	4.48	0.06	53.0	29.4	146	1.58	39.2	6.80	18.70
H755352		0.02	7.40	1.1	730	1.21	0.07	4.35	0.07	63.5	27.5	128	1.52	29.2	4.73	19.20
H755353		0.01	7.69	1.0	780	1.11	0.12	4.93	0.05	45.8	29.5	110	1.50	43.7	5.62	19.05

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130995

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.1
H755314		0.19	3.2	0.025	0.80	22.9	16.7	1.23	417	6.22	3.54	5.0	28.8	780	5.9	18.2
H755315		0.20	3.4	0.029	1.15	21.5	24.3	1.17	415	3.96	3.38	4.9	24.0	820	8.5	29.1
H755316		0.19	3.4	0.027	1.36	18.2	30.6	1.18	423	7.65	3.50	4.9	23.8	800	8.9	28.2
H755317		0.20	3.5	0.025	1.26	31.3	24.6	1.61	542	3.36	3.59	7.8	50.0	930	8.0	28.5
H755318		0.20	2.2	0.050	1.64	20.3	28.2	4.88	1040	0.25	2.08	2.8	163.0	1050	5.3	43.6
H755319		0.18	3.0	0.021	1.32	24.8	25.4	1.61	464	8.87	3.30	5.1	51.4	750	6.5	29.2
H755320		0.22	3.1	0.038	1.86	36.9	35.2	3.14	767	2.84	2.83	6.8	114.0	1090	7.0	45.8
H755321																
H755322		0.20	3.1	0.038	1.24	31.8	24.3	3.16	817	22.0	3.02	6.5	102.5	980	6.6	30.7
H755323		0.21	2.5	0.040	1.35	32.6	29.5	4.88	1000	9.73	2.34	3.4	218	750	4.9	42.7
H755324		0.21	3.2	0.035	1.41	41.2	27.1	3.30	828	6.56	2.94	6.9	119.5	1040	7.5	42.0
H755325		0.19	2.7	0.048	1.44	31.6	25.7	4.52	950	7.43	2.79	3.8	193.5	760	5.6	45.0
H755326		0.21	3.0	0.041	1.49	33.7	26.7	3.30	807	8.45	2.79	5.9	129.0	960	7.7	49.0
H755327		0.23	3.1	0.046	1.44	33.2	28.5	3.60	863	3.76	2.75	6.0	140.5	910	6.7	41.5
H755328		0.24	3.2	0.034	2.11	44.3	24.7	2.88	736	9.91	2.83	7.2	107.5	1050	7.8	59.3
H755329		0.21	2.8	0.036	1.75	35.1	31.9	3.01	770	0.41	2.82	7.0	106.0	1040	9.2	44.3
H755330		0.21	3.0	0.040	1.60	36.5	27.6	2.84	792	0.39	3.14	7.8	101.5	1050	9.4	36.0
H755331		0.21	2.8	0.035	1.35	32.7	24.3	2.47	716	0.49	3.16	5.9	84.2	990	9.4	28.9
H755332		0.20	2.5	0.032	1.61	33.1	27.3	2.46	701	0.81	2.62	6.1	86.0	900	7.0	41.2
H755333		0.22	2.5	0.047	1.35	37.2	22.8	3.43	972	0.39	2.81	5.8	79.3	1330	9.0	31.1
H755334		0.23	3.0	0.037	1.58	48.1	24.0	2.80	766	1.00	3.01	7.1	101.5	1020	8.4	39.5
H755335		0.25	2.9	0.038	1.64	46.8	24.1	3.13	829	3.23	2.98	7.1	113.5	1090	9.5	46.5
H755336		0.21	3.0	0.036	2.11	30.2	34.6	2.67	684	5.08	3.23	8.0	92.3	1100	10.9	49.9
H755337		0.23	2.7	0.036	1.48	40.1	27.7	3.00	799	0.66	3.11	7.7	106.0	1050	8.3	37.4
H755338		0.24	2.5	0.033	1.54	40.4	25.8	2.77	741	0.69	3.00	6.1	97.0	1040	8.6	41.6
H755339		0.22	2.9	0.034	1.76	38.9	27.8	2.77	760	0.35	3.09	6.5	98.6	1060	8.3	51.1
H755340		0.25	2.7	0.030	1.64	52.3	28.9	2.42	737	0.72	2.80	6.1	82.8	900	7.1	53.9
H755341		0.22	3.0	0.039	1.40	39.0	25.7	2.95	800	0.55	3.11	7.0	102.5	1070	9.2	34.6
H755342		0.21	2.2	0.033	1.25	41.7	22.9	2.45	814	0.20	2.25	5.3	87.8	820	6.4	42.8
H755343		0.21	2.7	0.038	1.38	35.1	23.5	3.00	810	2.29	3.10	6.3	96.5	1020	8.2	37.9
H755344		0.21	3.0	0.035	1.53	33.5	24.6	2.96	763	6.10	2.99	6.3	111.0	850	7.3	48.4
H755345		0.19	2.2	0.046	1.38	25.8	22.4	3.39	1020	2.78	2.37	4.4	107.0	610	7.4	42.8
H755346																
H755347		0.20	2.5	0.041	1.20	31.0	22.6	4.04	870	1.27	2.57	4.9	231	730	6.2	38.0
H755348		0.20	2.3	0.039	1.54	24.7	29.7	6.04	1060	1.18	1.97	4.4	356	550	4.7	52.8
H755349		0.21	2.5	0.039	1.57	35.9	26.9	4.09	886	1.26	2.32	6.6	157.0	980	6.5	48.5
H755350		0.18	2.5	0.036	1.01	31.3	16.5	2.40	913	2.72	2.18	5.5	104.5	610	8.4	29.8
H755351		0.14	2.5	0.031	1.27	26.6	22.0	2.61	1020	3.32	2.68	4.5	99.9	690	8.4	26.3
H755352		0.13	2.8	0.039	1.27	32.2	21.6	2.76	781	2.00	2.93	5.2	91.9	810	8.9	27.6
H755353		0.12	2.3	0.041	1.36	22.2	24.0	2.99	820	11.25	2.61	4.9	83.9	690	7.4	24.9

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130995

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	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.1
H755314		<0.002	0.03	0.13	9.0	1	0.7	794	0.27	0.06	4.5	0.265	0.09	1.3	73	0.7
H755315		<0.002	0.02	0.13	8.8	2	0.9	875	0.27	0.08	4.5	0.265	0.15	1.3	65	0.7
H755316		<0.002	0.06	0.12	8.5	2	0.8	911	0.28	0.10	3.8	0.264	0.16	1.2	66	1.6
H755317		<0.002	0.03	0.16	9.0	1	0.7	979	0.34	0.15	5.8	0.278	0.16	1.3	76	2.7
H755318		<0.002	0.02	0.27	27.2	1	0.7	677	0.16	0.10	4.0	0.384	0.20	1.1	183	2.8
H755319		<0.002	0.19	0.18	9.5	1	0.7	865	0.26	0.09	4.5	0.262	0.15	1.2	70	1.0
H755320		<0.002	0.12	0.14	15.5	1	0.8	886	0.30	0.12	5.5	0.390	0.25	1.4	112	4.0
H755321																
H755322		0.011	0.10	0.23	17.0	1	0.9	904	0.30	0.09	5.1	0.444	0.16	1.4	123	4.3
H755323		0.004	0.01	0.22	21.6	1	0.6	701	0.18	<0.05	6.3	0.355	0.18	1.3	137	3.1
H755324		0.002	0.09	0.26	17.2	1	0.8	975	0.31	0.08	6.8	0.391	0.20	1.5	113	1.6
H755325		0.005	0.15	0.26	19.8	1	0.7	703	0.24	0.25	6.0	0.393	0.23	1.3	143	16.9
H755326		0.003	0.25	0.23	15.8	1	0.9	929	0.30	0.22	6.3	0.406	0.24	1.5	115	14.8
H755327		<0.002	0.05	0.32	18.9	2	0.8	856	0.27	0.09	5.8	0.367	0.19	1.4	126	2.3
H755328		0.006	0.02	0.20	16.1	1	0.7	834	0.33	0.16	7.1	0.382	0.22	1.6	110	3.4
H755329		<0.002	0.01	0.13	14.5	1	0.7	919	0.30	0.12	5.4	0.363	0.22	1.4	108	1.6
H755330		<0.002	0.02	0.14	14.7	1	0.8	989	0.31	<0.05	4.9	0.351	0.20	1.5	102	1.3
H755331		<0.002	0.03	0.20	14.2	1	0.7	1060	0.27	<0.05	4.9	0.337	0.16	1.3	106	2.0
H755332		<0.002	0.14	0.11	12.9	1	0.7	800	0.26	0.28	5.7	0.314	0.15	1.3	93	2.6
H755333		<0.002	0.11	0.23	23.1	1	1.0	1025	0.26	0.08	6.1	0.442	0.15	1.6	178	7.0
H755334		<0.002	0.07	0.18	15.5	1	0.8	879	0.30	0.06	6.6	0.356	0.16	1.5	108	4.7
H755335		<0.002	0.06	0.14	16.7	1	0.9	987	0.30	0.08	6.3	0.388	0.17	1.5	112	9.6
H755336		<0.002	0.32	0.11	13.9	2	0.9	955	0.32	0.46	4.5	0.415	0.28	1.0	127	26.8
H755337		<0.002	0.02	0.11	15.4	1	0.9	929	0.30	0.06	5.0	0.370	0.18	1.4	106	3.0
H755338		<0.002	0.01	0.11	14.9	1	0.8	948	0.27	0.05	5.0	0.359	0.19	1.3	102	8.9
H755339		<0.002	0.02	0.10	14.7	1	0.7	907	0.28	<0.05	6.3	0.365	0.22	1.5	106	1.9
H755340		<0.002	0.02	0.09	12.9	1	0.7	734	0.27	0.05	6.4	0.316	0.20	1.4	89	9.5
H755341		<0.002	0.02	0.12	15.3	1	0.9	1050	0.30	0.07	6.2	0.372	0.16	1.5	107	2.5
H755342		<0.002	0.01	0.11	13.9	1	0.7	715	0.23	0.06	5.3	0.297	0.15	1.2	84	5.9
H755343		<0.002	0.06	0.15	16.3	1	0.9	963	0.28	0.12	5.6	0.439	0.17	1.3	121	3.7
H755344		<0.002	0.10	0.12	16.4	1	0.8	718	0.30	0.16	6.1	0.368	0.21	1.5	110	11.6
H755345		<0.002	0.07	0.19	26.0	1	0.7	697	0.23	0.09	4.4	0.409	0.18	1.1	164	10.4
H755346																
H755347		<0.002	0.02	0.13	16.6	1	0.6	705	0.24	<0.05	6.1	0.338	0.14	1.4	111	1.5
H755348		<0.002	0.03	0.13	23.0	1	0.6	506	0.22	0.08	4.4	0.342	0.19	1.1	126	1.2
H755349		<0.002	0.01	0.14	20.6	1	0.7	730	0.27	0.14	5.1	0.415	0.19	1.3	128	1.7
H755350		<0.002	0.12	0.19	20.8	1	0.7	800	0.30	0.06	5.6	0.383	0.13	1.6	131	40.0
H755351		0.002	0.05	0.21	17.9	1	0.6	810	0.27	0.15	5.1	0.348	0.15	1.4	124	1.5
H755352		<0.002	0.04	0.19	15.7	1	0.7	875	0.28	0.12	5.7	0.364	0.15	1.5	111	1.2
H755353		0.010	0.09	0.19	19.5	1	0.8	792	0.26	0.14	4.2	0.498	0.14	1.1	140	2.4

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130995

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H755314		8.1	41	115.0
H755315		7.8	43	121.5
H755316		7.2	47	117.5
H755317		9.2	46	134.5
H755318		16.6	86	78.9
H755319		7.9	42	112.5
H755320		12.5	75	117.5
H755321				
H755322		13.3	70	114.0
H755323		13.0	79	90.3
H755324		13.5	74	119.0
H755325		12.5	80	87.8
H755326		12.4	75	102.5
H755327		13.7	82	115.5
H755328		13.5	69	115.0
H755329		12.2	75	100.5
H755330		12.4	90	111.5
H755331		11.2	75	106.5
H755332		10.0	64	96.8
H755333		16.2	79	89.1
H755334		13.2	74	114.5
H755335		14.0	76	105.0
H755336		11.6	79	116.5
H755337		13.1	75	97.6
H755338		12.0	75	90.9
H755339		12.4	90	109.5
H755340		11.6	69	101.0
H755341		12.8	85	113.0
H755342		11.4	70	83.6
H755343		13.6	73	98.3
H755344		12.6	70	112.0
H755345		16.1	69	81.2
H755346				
H755347		11.6	73	91.4
H755348		12.8	87	76.2
H755349		13.1	73	88.2
H755350		14.4	55	83.9
H755351		11.9	63	86.1
H755352		11.3	62	100.0
H755353		12.8	66	83.1

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130995

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H755354		<0.01	7.41	0.5	770	1.11	0.04	4.62	0.06	46.0	32.9	210	1.47	25.2	5.20	18.50
H755355		0.03	7.38	0.7	840	1.22	0.03	4.36	0.06	57.8	29.8	205	1.48	98.2	5.17	18.95
H755356		0.02	7.85	0.6	960	1.40	0.03	4.03	0.06	67.0	25.2	126	1.60	23.7	4.59	20.0
H755357		0.02	7.38	0.5	940	1.41	0.03	4.23	0.08	64.6	26.5	143	1.59	29.0	4.78	19.35
H755358		0.06	7.46	0.7	950	1.32	0.03	3.96	0.06	62.5	26.1	129	1.53	44.4	4.54	19.50
H755359		0.02	7.38	0.7	860	1.34	0.04	4.07	0.06	65.6	24.5	129	1.69	29.6	4.36	19.15
H755360		0.01	7.45	0.4	760	0.73	0.06	5.26	0.05	27.1	39.8	258	2.18	25.0	6.25	19.90
H755361		0.02	7.40	0.5	870	1.38	0.02	4.33	0.07	58.7	27.8	139	1.45	23.7	4.78	20.8
H755362		0.03	7.85	0.9	990	1.48	0.05	4.11	0.06	71.5	26.2	129	1.80	31.6	4.60	19.55
H755363		0.09	7.05	<0.2	920	1.19	0.06	3.64	0.05	71.1	24.9	121	2.59	28.3	4.27	19.20
H755364		0.03	7.75	0.6	890	1.25	0.05	4.41	0.06	55.8	29.2	143	2.19	41.8	5.39	20.5
H755365		0.02	7.26	0.8	890	1.42	0.05	4.12	0.10	57.7	26.8	141	2.29	42.1	4.83	20.0
H755366		0.02	7.92	<0.2	720	0.89	0.04	4.96	0.05	41.0	41.0	274	4.25	6.0	5.65	20.7
H755367		0.03	7.80	0.6	770	1.39	0.13	4.32	0.05	60.3	26.3	144	2.42	47.3	4.93	20.1
H755368		0.01	6.99	0.9	530	1.22	0.14	3.78	0.05	56.9	19.6	105	1.35	18.1	3.81	17.35
H755369		0.01	7.80	0.9	600	1.40	0.08	3.75	0.04	58.6	18.6	97	1.50	62.3	3.57	20.3
H755370		0.02	8.11	0.2	750	0.84	0.05	5.02	0.05	37.9	40.6	247	4.52	4.7	5.49	20.5
H755371																
H755372		0.01	8.25	<0.2	700	0.86	0.05	4.89	0.04	38.1	39.8	230	4.87	3.0	5.25	21.0
H755373		0.02	8.03	0.2	790	1.33	0.04	3.77	0.06	61.2	25.5	169	2.70	38.5	4.43	21.3
H755374		0.03	7.42	0.5	650	0.96	0.08	3.24	0.02	44.9	26.2	405	3.86	16.5	3.81	19.80
H755375		0.01	8.15	0.2	720	1.23	0.04	3.34	0.04	56.7	18.8	96	2.20	26.4	3.36	21.6
H755376		0.01	8.15	0.3	760	1.25	0.04	3.29	0.03	58.5	17.7	76	2.38	23.6	3.24	23.1
H755377		<0.01	8.03	0.5	770	1.25	0.06	3.25	0.04	50.4	16.7	72	2.25	24.8	3.21	21.3
H755378		0.02	7.81	1.0	710	1.21	0.10	3.44	0.05	47.9	21.1	118	2.31	66.1	3.70	20.9
H755379		0.10	7.44	0.6	670	1.08	0.09	3.65	0.05	49.3	25.6	177	1.85	99.2	4.40	19.90
H755380		0.08	7.65	<0.2	720	1.03	0.12	4.60	0.07	48.5	33.2	249	1.99	96.3	5.16	21.2
H755381		0.04	8.61	0.8	620	0.95	0.10	4.89	0.04	45.5	26.1	107	1.61	65.2	4.32	21.2
H755382		0.04	7.99	0.4	610	0.96	0.10	4.94	0.07	39.1	37.8	311	1.99	48.1	5.36	19.10
H755383		0.03	7.80	0.2	830	1.12	0.05	3.44	0.07	51.2	25.2	231	2.12	13.8	3.85	20.7
H755384		0.05	8.03	0.3	980	1.22	0.04	3.83	0.06	47.2	22.8	115	2.15	41.6	4.21	21.2
H755385		0.39	7.93	<0.2	1030	1.08	0.17	4.30	0.08	45.9	31.1	165	2.26	34.5	5.06	21.3
H755386		0.05	7.67	<0.2	890	1.06	0.05	3.68	0.07	46.4	26.0	183	1.87	33.5	4.26	20.6
H755387		0.04	7.54	0.3	820	1.24	0.04	3.09	0.06	53.5	16.6	85	1.58	19.2	3.12	20.3
H755388		0.03	7.83	0.7	840	1.29	0.06	3.98	0.07	49.0	27.6	152	1.62	18.3	4.65	21.2
H755389		0.99	5.66	<0.2	480	0.51	0.04	5.54	0.10	19.50	59.8	859	1.38	6.6	6.69	12.75
H755390		0.12	7.32	0.5	700	1.30	0.11	4.34	0.07	49.1	30.1	161	1.41	26.1	4.79	19.20
H755391		0.06	7.74	0.2	800	1.35	0.09	3.87	0.06	46.3	24.6	180	1.73	27.3	4.21	20.8
H755392		0.38	6.60	1.2	630	0.93	0.23	5.32	0.08	38.9	24.0	237	1.49	29.3	3.78	16.70
H755393		0.02	7.61	0.2	760	1.25	0.04	3.98	0.06	50.2	21.8	144	1.41	25.0	4.06	18.90

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130995

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.1
H755354		0.13	2.3	0.039	1.45	23.0	28.2	3.77	867	1.62	2.57	4.0	148.5	700	7.1	26.1
H755355		0.13	2.5	0.037	1.54	29.5	28.0	3.26	852	0.41	2.83	5.1	130.5	790	8.3	26.6
H755356		0.13	2.8	0.038	1.54	34.0	27.5	2.66	766	0.22	3.05	5.2	83.8	880	9.7	35.9
H755357		0.12	2.7	0.041	1.58	32.7	27.4	2.80	813	0.28	2.83	5.3	90.6	870	9.0	32.3
H755358		0.14	2.7	0.036	1.64	30.8	27.4	2.68	757	3.52	2.88	5.3	86.9	840	9.7	36.0
H755359		0.13	2.6	0.035	1.56	33.7	26.3	2.60	746	12.10	2.85	4.9	81.1	890	8.8	41.1
H755360		0.12	2.1	0.058	1.57	13.6	23.1	4.20	1000	55.9	2.06	3.8	174.5	560	5.9	40.1
H755361		0.12	2.8	0.041	1.44	28.0	28.2	2.78	810	1.78	3.09	5.4	93.1	930	9.5	22.5
H755362		0.13	2.9	0.037	1.59	36.6	26.7	2.67	745	6.28	2.96	5.2	82.8	910	9.2	43.8
H755363		0.15	2.8	0.035	1.57	36.8	26.8	2.48	670	13.65	2.75	5.1	80.5	750	6.8	66.4
H755364		0.12	2.7	0.043	1.62	27.2	32.3	2.93	781	32.8	2.87	5.3	92.5	840	7.4	30.8
H755365		0.13	2.8	0.039	1.55	28.3	29.2	2.77	772	2.96	2.97	5.3	92.5	850	8.5	25.6
H755366		0.13	2.5	0.040	1.72	21.2	34.1	5.48	1040	5.01	2.42	3.4	284	610	4.6	59.9
H755367		0.14	3.1	0.037	1.24	29.7	28.3	2.95	771	6.29	3.04	5.5	105.5	830	7.9	25.0
H755368		0.12	2.6	0.028	0.83	28.3	22.2	2.17	608	0.62	3.05	5.0	70.2	730	6.8	17.8
H755369		0.12	3.1	0.027	0.96	27.8	26.2	1.99	558	2.52	3.42	5.1	69.1	740	7.1	23.2
H755370		0.12	2.6	0.038	1.51	19.7	25.5	5.25	1020	2.37	2.59	3.3	267	620	4.9	57.7
H755371																
H755372		0.13	2.7	0.038	1.58	19.3	25.8	5.12	972	1.91	2.67	3.4	269	670	4.9	62.4
H755373		0.14	2.8	0.035	1.47	31.0	27.8	2.64	673	0.26	3.00	4.9	104.0	770	8.0	44.5
H755374		0.12	2.7	0.022	2.40	22.2	66.3	3.09	511	13.90	2.02	4.6	196.5	670	5.9	44.7
H755375		0.11	3.1	0.028	1.23	28.2	22.3	1.88	525	0.27	3.37	4.9	61.7	740	8.1	40.7
H755376		0.12	3.3	0.031	1.42	28.8	28.3	1.79	526	0.40	3.44	4.7	56.1	770	9.3	42.7
H755377		0.10	3.1	0.030	1.46	24.5	26.6	1.74	528	0.63	3.36	4.3	52.3	770	8.7	42.4
H755378		0.13	2.8	0.034	1.29	23.7	23.4	2.25	550	0.27	3.12	4.1	79.7	720	8.2	34.1
H755379		0.11	2.6	0.030	1.13	25.3	22.7	2.67	658	1.11	2.89	4.5	117.5	730	6.5	26.4
H755380		0.12	2.5	0.040	1.18	23.9	24.0	3.55	859	0.23	2.80	4.4	165.0	760	6.3	22.8
H755381		0.12	2.6	0.035	1.12	23.4	22.7	2.29	675	0.46	3.14	4.4	71.5	580	7.3	28.5
H755382		0.14	2.5	0.043	1.16	19.8	24.2	4.34	927	0.81	2.81	3.8	215	550	5.9	35.3
H755383		0.12	3.0	0.027	1.49	26.2	26.1	2.78	619	0.61	3.14	4.5	135.0	670	7.2	35.2
H755384		0.12	2.6	0.033	1.73	24.2	28.7	2.25	694	0.31	3.11	4.3	79.2	610	7.8	46.5
H755385		0.14	2.4	0.033	1.75	24.1	28.5	2.73	767	0.84	3.04	3.8	94.4	550	7.1	47.7
H755386		0.13	2.7	0.030	1.49	23.4	25.5	2.77	697	0.85	3.04	4.3	120.5	600	6.8	31.2
H755387		0.09	3.0	0.023	1.41	27.4	22.5	1.73	496	0.50	3.19	4.5	57.5	640	8.1	35.1
H755388		0.12	2.8	0.034	1.38	22.0	25.7	2.85	703	0.94	3.12	4.7	111.0	810	7.5	23.1
H755389		0.16	1.4	0.032	1.09	9.1	33.8	9.46	1340	4.03	1.01	2.0	639	340	2.2	30.5
H755390		0.12	3.0	0.030	1.13	22.6	22.0	2.97	748	13.05	2.97	4.8	110.0	750	7.4	18.0
H755391		0.13	2.9	0.028	1.49	21.9	28.0	2.63	687	0.54	3.26	4.2	102.0	660	7.0	34.6
H755392		0.10	2.4	0.024	1.28	19.4	25.6	2.97	872	0.53	2.89	3.2	158.0	470	5.1	37.9
H755393		0.09	2.7	0.027	1.38	24.0	24.8	2.67	677	1.84	3.15	4.2	96.7	830	7.4	25.3

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130995

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	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.1
H755354		<0.002	0.01	0.14	17.9	1	0.7	771	0.22	0.12	4.4	0.387	0.13	1.1	123	1.5
H755355		<0.002	0.02	0.17	15.6	1	0.6	879	0.25	0.13	5.1	0.364	0.15	1.4	116	0.8
H755356		<0.002	0.01	0.09	15.1	1	0.7	996	0.27	0.13	6.4	0.350	0.15	1.6	109	0.5
H755357		<0.002	0.01	0.12	15.6	1	0.7	966	0.27	0.15	6.2	0.353	0.15	1.6	112	0.9
H755358		0.003	0.01	0.16	14.8	1	0.6	935	0.28	0.08	6.1	0.356	0.17	1.6	107	0.6
H755359		0.007	0.01	0.14	15.0	1	0.7	891	0.26	0.09	5.8	0.329	0.18	1.5	106	2.7
H755360		0.045	0.01	0.20	24.2	1	0.9	611	0.23	0.13	2.4	0.584	0.18	0.6	164	31.8
H755361		<0.002	0.01	0.14	15.5	1	0.8	1035	0.28	0.27	4.9	0.364	0.16	1.4	115	1.4
H755362		0.004	0.01	0.11	15.8	1	0.7	997	0.28	0.18	6.5	0.354	0.16	1.6	110	1.9
H755363		<0.002	0.07	0.11	15.7	1	0.7	752	0.29	0.26	6.8	0.339	0.18	1.5	104	5.3
H755364		0.026	0.06	0.13	17.3	1	0.8	856	0.27	0.15	4.5	0.467	0.18	1.2	131	6.9
H755365		0.002	0.04	0.14	14.9	1	0.7	908	0.28	0.11	4.9	0.382	0.20	1.4	115	2.5
H755366		0.002	0.01	0.09	21.9	1	0.7	580	0.19	0.13	3.2	0.362	0.24	0.8	157	2.5
H755367		0.003	0.08	0.14	15.8	1	0.8	875	0.29	0.17	6.0	0.381	0.18	1.5	117	9.0
H755368		<0.002	0.10	0.13	12.2	1	0.8	752	0.26	0.16	4.6	0.319	0.10	1.1	90	12.0
H755369		0.002	0.05	0.15	11.9	1	0.8	861	0.25	0.15	5.0	0.296	0.12	1.3	82	2.1
H755370		0.002	<0.01	0.10	20.9	1	0.7	647	0.19	0.13	3.3	0.352	0.25	0.9	151	0.8
H755371																
H755372		<0.002	<0.01	0.09	19.7	1	0.6	649	0.21	0.13	3.4	0.354	0.28	0.9	147	0.8
H755373		<0.002	0.01	0.13	14.8	1	0.6	884	0.24	0.09	5.1	0.353	0.20	1.3	106	1.6
H755374		<0.002	0.04	0.14	12.8	1	0.5	503	0.26	0.17	4.3	0.286	0.18	1.1	99	11.5
H755375		<0.002	0.02	0.13	11.2	1	0.5	892	0.28	0.11	5.3	0.287	0.18	1.3	82	0.7
H755376		<0.002	0.01	0.13	11.5	1	0.6	832	0.28	0.12	5.5	0.280	0.21	1.5	82	0.7
H755377		<0.002	0.02	0.11	10.6	1	0.6	805	0.26	0.09	5.0	0.275	0.20	1.3	83	1.0
H755378		<0.002	0.02	0.12	13.5	1	0.6	844	0.26	0.11	4.4	0.304	0.20	1.2	99	0.8
H755379		0.002	0.06	0.12	14.1	1	0.6	813	0.26	0.14	4.6	0.309	0.16	1.2	104	0.9
H755380		<0.002	0.05	0.17	19.4	1	0.7	812	0.22	0.14	3.6	0.377	0.18	1.0	132	1.7
H755381		<0.002	0.12	0.35	18.8	1	0.5	726	0.24	0.17	4.1	0.369	0.16	1.0	139	1.2
H755382		<0.002	0.03	0.16	22.0	1	0.6	700	0.23	0.10	3.8	0.337	0.16	0.9	138	1.8
H755383		<0.002	0.01	0.11	12.7	1	0.5	794	0.26	0.13	4.9	0.290	0.17	1.3	90	5.9
H755384		<0.002	0.01	0.10	16.6	1	0.5	743	0.25	0.17	4.4	0.344	0.17	1.0	116	5.2
H755385		<0.002	0.62	0.11	21.1	2	0.6	682	0.21	0.68	3.7	0.400	0.18	1.0	136	22.6
H755386		<0.002	0.06	0.10	14.5	1	0.5	737	0.24	0.15	4.2	0.309	0.15	1.2	104	7.2
H755387		<0.002	0.05	0.09	9.9	1	0.4	709	0.25	0.15	4.9	0.270	0.14	1.2	80	17.1
H755388		<0.002	0.02	0.16	16.3	1	0.6	898	0.27	<0.05	3.7	0.379	0.16	1.1	118	5.3
H755389		0.003	<0.01	0.09	22.9	1	0.4	210	0.12	2.23	1.5	0.298	0.12	0.4	140	0.5
H755390		0.005	0.30	0.14	14.9	1	0.7	799	0.29	0.15	4.5	0.385	0.13	1.2	111	7.9
H755391		<0.002	0.13	0.10	15.1	1	0.6	746	0.26	0.19	4.5	0.320	0.18	1.4	109	16.0
H755392		<0.002	0.39	0.07	13.7	1	0.4	492	0.20	4.53	4.1	0.264	0.15	1.5	78	39.9
H755393		<0.002	0.03	0.11	13.2	1	0.5	879	0.25	0.08	3.9	0.325	0.14	1.2	100	6.6

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130995

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H755354		10.7	74	80.6
H755355		10.4	80	92.3
H755356		10.9	83	103.0
H755357		10.8	81	98.0
H755358		10.6	75	95.5
H755359		10.7	71	95.1
H755360		13.7	93	73.4
H755361		10.5	81	101.5
H755362		11.5	73	106.0
H755363		11.7	60	101.0
H755364		12.5	65	96.1
H755365		10.4	72	100.5
H755366		12.4	88	85.0
H755367		11.0	65	107.5
H755368		9.5	45	93.2
H755369		9.8	43	113.0
H755370		11.7	85	90.9
H755371				
H755372		11.8	85	93.5
H755373		10.5	66	102.5
H755374		8.4	60	97.3
H755375		9.5	55	111.0
H755376		9.9	60	119.0
H755377		9.3	59	112.5
H755378		9.6	56	99.3
H755379		10.1	60	91.3
H755380		11.3	75	86.6
H755381		12.7	52	89.1
H755382		11.5	69	85.6
H755383		9.2	58	105.0
H755384		10.7	63	93.1
H755385		11.5	70	82.3
H755386		9.5	59	97.8
H755387		8.2	45	107.0
H755388		10.0	64	101.0
H755389		8.5	110	48.3
H755390		9.7	62	103.0
H755391		9.5	63	103.0
H755392		9.3	63	86.1
H755393		8.8	61	98.0

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130995

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H755394		0.03	7.24	<0.2	860	0.99	0.06	4.92	0.07	35.3	33.4	206	2.02	26.2	5.57	18.75
H755395		0.04	7.92	0.3	1100	1.51	0.05	3.64	0.05	54.3	19.3	107	2.11	28.2	3.88	20.8
H755396																
H755397		0.08	7.39	0.6	950	1.48	0.05	4.24	0.07	73.0	25.5	117	1.92	54.0	4.39	20.2
H755398		0.05	7.45	0.4	720	1.17	0.05	4.50	0.06	53.1	36.2	257	2.33	107.5	5.48	19.00
H755399		0.22	7.31	0.5	710	1.20	0.11	4.33	0.06	51.7	31.2	197	2.08	231	5.25	20.1
H755400		0.04	7.57	0.3	660	1.00	0.05	5.25	0.08	49.9	37.1	264	1.47	52.8	5.60	18.65
H755401		0.04	7.59	0.3	510	1.03	0.06	4.96	0.08	49.6	33.8	258	1.14	43.6	5.22	19.15
H755402		0.19	6.42	0.8	520	0.92	0.13	4.04	0.06	50.4	36.3	156	1.40	44.1	4.92	16.30
H755403		0.08	7.53	0.6	730	1.36	0.08	4.74	0.07	55.3	31.3	177	1.54	45.9	5.23	19.95
H755404		0.06	7.81	0.6	720	1.12	0.12	4.63	0.09	51.9	31.0	164	1.50	41.3	5.26	20.7
H755405		0.24	7.25	0.4	910	1.24	0.19	3.88	0.07	52.5	31.5	188	2.09	52.6	5.13	22.4
H755406		0.05	7.81	0.5	530	1.16	0.04	5.23	0.09	49.8	34.1	172	1.05	49.6	6.10	19.70
H755407		0.09	8.12	0.5	520	1.20	0.06	5.44	0.08	48.5	34.4	177	1.06	40.5	6.02	20.1
H755408		0.11	7.51	0.3	600	1.29	0.07	5.03	0.08	56.9	33.3	191	1.44	39.3	5.48	19.95
H755409		0.05	7.52	0.4	710	1.13	0.05	4.69	0.04	55.9	30.7	172	2.02	20.6	5.12	18.80
H755410		0.04	7.42	0.5	630	1.27	0.05	4.92	0.08	54.2	33.4	186	1.40	22.3	5.41	19.90
H755411		0.03	8.17	<0.2	740	1.28	0.06	5.03	0.08	57.7	30.5	198	1.68	11.9	5.65	21.3
H755412		0.27	7.11	0.6	640	0.93	0.43	4.49	<0.02	48.8	40.4	275	2.25	25.8	5.63	18.95
H755413		0.04	7.13	0.4	650	1.07	0.13	4.72	0.06	48.7	37.2	222	2.10	29.1	5.28	18.85
H755414		0.04	7.37	0.4	590	1.11	0.10	5.16	0.08	52.4	34.6	212	1.49	20.9	5.59	18.75
H755415		0.16	5.35	0.5	360	0.73	0.35	3.21	0.02	33.9	24.6	157	1.14	49.0	3.20	12.90
H755416		0.11	6.43	0.3	490	0.87	0.19	3.24	0.03	46.3	23.0	123	1.67	26.8	3.27	16.65
H755417		0.10	7.57	0.3	710	1.07	0.15	4.25	0.06	42.7	32.1	248	2.68	68.5	5.08	19.90
H755418		0.13	6.97	<0.2	610	0.83	0.09	4.23	0.05	39.2	48.7	761	2.18	76.3	5.26	17.35
H755419		0.09	7.72	0.5	810	0.95	0.13	5.19	0.06	100.5	36.8	211	1.99	39.4	6.44	20.1
H755420		0.06	6.80	<0.2	520	0.86	0.09	5.12	0.08	45.4	51.6	600	1.90	26.7	6.12	17.25
H755421																
H755422		0.05	7.63	0.4	540	1.21	0.12	4.11	0.06	57.6	29.8	153	1.63	42.5	4.75	19.90
H755423		0.46	7.51	0.6	670	0.93	0.25	4.82	0.08	50.3	38.5	150	2.77	269	4.92	19.15
H755424		0.05	5.03	<0.2	100	0.41	0.05	5.53	0.10	7.04	73.4	1240	0.65	3.2	7.29	11.55
H755425		0.16	7.95	0.2	750	0.96	0.12	4.84	0.05	33.8	35.2	200	3.12	62.4	5.67	19.45
H755426		0.09	8.07	1.3	640	0.71	0.18	5.70	0.09	40.6	35.1	297	2.96	39.2	5.65	18.80
H755427		0.06	7.73	0.9	950	1.01	0.08	4.55	0.05	57.7	27.4	223	4.62	35.3	4.50	20.5
H755428		0.64	8.10	1.1	760	0.85	0.29	4.98	0.12	33.9	35.0	195	2.97	350	6.91	19.60
H755429		0.14	8.16	0.9	560	0.97	0.15	5.09	0.06	43.6	47.7	454	2.44	105.0	6.73	19.40
H755430		0.10	7.63	0.8	510	0.88	0.17	5.38	0.06	38.4	36.2	240	1.65	80.3	6.44	19.25
H755431		0.33	8.27	0.3	780	1.11	0.32	4.91	0.04	83.7	42.9	416	2.92	106.0	6.71	25.7
H755432		0.21	7.16	0.3	560	0.80	0.16	4.60	0.06	45.0	47.7	610	1.90	137.0	5.77	18.30
H755433		0.15	7.89	1.2	860	1.00	0.20	4.81	0.04	56.3	41.4	304	2.92	100.5	6.14	20.9

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130995

Sample Description	Method Analyte Units LOR	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	ME-MS61 Rb ppm 0.1
H755394		0.12	2.3	0.041	1.71	16.5	27.9	3.85	903	2.65	2.35	3.8	152.5	620	5.7	37.2
H755395		0.11	3.0	0.028	1.80	24.9	31.1	2.10	603	1.91	3.44	5.0	62.8	830	7.4	45.6
H755396																
H755397		0.13	3.2	0.032	1.59	31.7	28.8	2.48	701	5.18	3.07	5.8	73.2	1100	7.9	34.4
H755398		0.13	2.5	0.037	1.49	25.8	28.5	4.07	894	22.2	2.50	4.2	173.0	740	6.3	52.9
H755399		0.11	2.8	0.039	1.32	24.2	25.1	3.46	802	40.4	2.85	4.8	136.0	820	6.4	25.0
H755400		0.12	2.5	0.038	1.22	24.0	24.3	4.19	965	3.19	2.58	4.0	183.5	710	5.7	31.9
H755401		0.14	2.5	0.037	0.90	22.6	19.8	4.03	858	3.02	2.82	4.3	179.5	770	5.8	17.7
H755402		0.13	2.1	0.032	0.95	24.1	17.2	2.90	710	8.23	2.49	3.7	102.5	580	4.8	33.2
H755403		0.12	3.0	0.039	1.19	26.2	21.7	3.41	838	1.26	2.84	5.2	125.0	800	7.4	21.8
H755404		0.12	2.7	0.036	1.21	25.1	22.1	3.17	818	0.75	2.82	4.4	118.5	740	7.0	25.6
H755405		0.14	2.9	0.038	1.71	24.2	30.4	3.31	758	0.39	2.53	5.0	136.5	820	8.3	26.0
H755406		0.15	2.6	0.037	0.90	23.2	16.6	3.33	947	1.04	2.79	4.1	128.0	800	7.3	19.6
H755407		0.13	2.3	0.038	0.89	22.1	16.2	3.59	943	1.77	2.98	4.1	134.5	810	7.3	19.5
H755408		0.14	2.9	0.041	1.02	27.3	17.3	3.72	910	0.92	2.82	5.0	142.0	830	7.9	18.0
H755409		0.14	2.7	0.035	1.45	27.2	29.2	3.39	828	0.36	2.59	4.2	131.0	750	5.2	42.8
H755410		0.12	2.8	0.039	1.15	25.8	19.5	3.63	873	1.45	2.81	4.6	140.0	800	7.6	21.1
H755411		0.13	3.1	0.040	1.32	28.1	27.0	3.84	922	0.45	2.70	5.3	143.5	820	7.8	29.4
H755412		0.14	2.4	0.049	1.23	23.4	22.6	4.17	865	346	2.18	3.6	187.5	640	6.1	44.6
H755413		0.11	2.5	0.038	1.06	23.2	19.2	3.69	868	17.95	2.56	3.9	151.5	690	6.3	24.4
H755414		0.14	2.6	0.043	1.02	24.5	17.1	4.03	978	4.81	2.52	4.1	154.5	670	6.9	22.9
H755415		0.09	1.8	0.019	0.55	16.7	10.6	2.19	560	44.1	2.30	2.5	94.6	470	3.9	20.3
H755416		0.10	2.3	0.021	0.78	22.3	12.8	2.11	534	15.55	2.66	3.2	83.2	640	5.4	27.2
H755417		0.13	2.5	0.044	1.31	20.0	22.2	3.68	766	6.31	2.76	3.8	162.0	730	6.5	28.6
H755418		0.14	2.0	0.029	1.01	19.6	23.8	6.83	909	8.02	1.91	3.0	491	490	4.8	37.9
H755419		0.16	2.9	0.052	1.17	50.5	17.7	3.92	886	6.33	2.57	3.2	167.5	1020	6.8	36.5
H755420		0.13	2.1	0.038	0.98	22.0	24.9	6.42	1100	17.05	1.93	3.1	402	600	4.7	34.8
H755421																
H755422		0.12	2.7	0.036	0.93	26.5	17.4	3.32	770	1.00	3.00	4.7	121.5	790	6.6	19.4
H755423		0.13	2.4	0.037	1.27	23.6	19.3	2.81	759	29.4	2.84	3.8	105.0	720	6.2	31.4
H755424		0.15	0.8	0.040	0.25	2.9	32.9	11.80	1380	2.94	0.26	1.0	924	260	0.7	9.0
H755425		0.14	2.0	0.040	1.45	16.1	25.5	3.31	829	5.89	2.53	3.4	144.5	500	5.9	40.5
H755426		0.14	2.2	0.044	1.33	20.7	27.2	4.11	973	2.18	2.92	4.5	212	460	7.1	52.8
H755427		0.15	2.5	0.035	1.91	30.7	31.7	3.37	736	0.98	2.71	5.4	150.5	600	6.5	81.7
H755428		0.16	1.9	0.051	1.48	17.0	22.1	3.16	819	7.66	2.46	4.5	122.0	450	7.7	60.1
H755429		0.19	2.0	0.049	1.12	21.6	25.1	5.88	1020	5.24	2.16	4.3	320	580	6.5	50.4
H755430		0.15	1.8	0.054	0.83	18.9	14.9	4.05	1020	0.67	2.39	4.2	162.0	510	6.9	31.9
H755431		0.20	2.6	0.049	1.32	44.8	25.6	4.80	1020	2.58	2.35	6.8	254	900	7.1	44.0
H755432		0.18	1.7	0.036	0.91	23.0	25.1	6.02	920	5.73	1.86	4.4	351	600	5.4	34.9
H755433		0.17	2.3	0.041	1.33	29.3	24.9	4.74	873	10.60	2.38	4.8	231	600	6.5	50.0

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130995

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	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Sample Description LOR	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	0.1
H755394	0.002	0.10	0.15	20.8	1	0.7	709	0.24	0.15	3.1	0.406	0.18	1.0	155	49.3
H755395	<0.002	0.01	0.09	12.5	1	1.1	957	0.29	0.15	4.5	0.316	0.22	1.3	100	23.1
H755396															
H755397	0.003	0.02	0.11	14.8	1	1.2	1100	0.29	0.10	5.0	0.352	0.24	1.5	118	36.4
H755398	0.009	0.03	0.16	18.6	1	0.7	727	0.26	0.05	4.6	0.424	0.30	1.2	131	79.0
H755399	0.009	0.12	0.13	17.0	1	0.8	725	0.28	0.11	4.4	0.430	0.25	1.2	130	52.1
H755400	<0.002	0.04	0.14	19.3	1	0.6	693	0.23	<0.05	3.4	0.409	0.19	0.9	138	14.4
H755401	<0.002	0.03	0.14	19.0	1	0.6	757	0.23	0.05	3.1	0.409	0.14	0.8	133	5.4
H755402	<0.002	0.69	0.14	16.4	2	0.7	531	0.21	0.25	4.4	0.368	0.14	1.0	116	20.0
H755403	<0.002	0.03	0.15	17.2	1	0.8	767	0.31	0.07	5.0	0.437	0.19	1.3	129	16.3
H755404	<0.002	0.06	0.14	19.2	1	0.7	790	0.27	0.08	4.0	0.432	0.17	1.1	145	16.4
H755405	<0.002	0.38	0.12	16.7	1	0.7	710	0.30	0.54	4.2	0.449	0.24	1.3	149	41.4
H755406	<0.002	0.01	0.16	23.0	1	1.0	845	0.24	0.09	3.7	0.442	0.11	1.0	159	2.1
H755407	<0.002	0.02	0.20	21.8	1	0.8	888	0.22	<0.05	3.1	0.450	0.10	0.9	154	5.2
H755408	<0.002	0.01	0.22	18.1	1	0.8	869	0.30	<0.05	4.7	0.459	0.13	1.2	136	2.0
H755409	<0.002	0.02	0.10	17.0	1	0.7	599	0.26	<0.05	4.8	0.414	0.18	1.2	121	3.9
H755410	0.002	0.02	0.12	18.4	1	0.7	862	0.28	<0.05	4.6	0.442	0.15	1.2	131	1.7
H755411	<0.002	<0.01	0.11	17.7	1	0.7	813	0.32	0.08	5.3	0.449	0.18	1.3	132	7.9
H755412	0.283	0.42	0.16	20.3	1	0.7	647	0.23	0.98	4.4	0.439	0.19	1.0	138	26.9
H755413	0.013	0.14	0.15	18.9	1	0.7	723	0.23	0.06	4.2	0.393	0.18	1.1	135	7.3
H755414	0.003	0.02	0.13	19.9	1	0.7	782	0.24	0.10	4.1	0.418	0.13	1.1	135	7.6
H755415	0.013	0.45	0.10	10.8	2	0.5	485	0.15	0.73	2.9	0.244	0.10	0.7	77	19.9
H755416	0.007	0.27	0.11	11.4	1	0.5	625	0.21	0.46	3.8	0.249	0.15	1.0	86	62.2
H755417	0.002	0.12	0.14	18.2	1	0.6	817	0.23	0.13	3.0	0.350	0.22	0.9	133	34.8
H755418	0.004	0.05	0.10	18.0	1	0.5	578	0.18	0.80	3.5	0.256	0.17	0.9	115	24.0
H755419	0.003	0.20	0.28	19.3	1	0.9	846	0.24	0.12	11.1	0.583	0.20	2.1	145	29.0
H755420	0.019	0.02	0.14	23.2	1	0.6	535	0.19	0.05	3.3	0.363	0.17	0.8	141	23.1
H755421															
H755422	<0.002	0.05	0.19	15.9	1	0.7	742	0.29	<0.05	4.0	0.373	0.16	1.1	118	8.1
H755423	0.012	0.67	0.14	18.6	2	0.7	720	0.22	0.25	3.3	0.350	0.25	1.0	134	101.0
H755424	<0.002	<0.01	0.08	27.2	1	0.3	40.2	0.07	0.09	0.6	0.217	0.04	0.2	151	2.0
H755425	0.002	0.18	0.13	21.5	2	0.6	678	0.22	0.11	2.8	0.390	0.27	0.9	157	39.1
H755426	0.003	0.08	0.19	23.5	1	0.6	499	0.25	<0.05	3.7	0.365	0.26	1.0	152	73.2
H755427	0.002	0.02	0.11	19.6	1	0.6	555	0.26	<0.05	5.8	0.317	0.38	1.4	116	17.9
H755428	0.005	0.78	0.16	26.3	2	1.1	711	0.29	0.07	2.8	0.378	0.27	0.8	159	81.0
H755429	0.003	0.12	0.16	33.0	1	0.7	703	0.22	0.90	3.5	0.405	0.20	0.8	169	26.8
H755430	0.002	0.10	0.20	26.1	1	0.8	711	0.23	<0.05	3.4	0.411	0.14	0.9	173	10.9
H755431	0.002	0.34	0.21	28.3	1	0.9	697	0.29	1.13	6.7	0.441	0.24	1.7	176	21.5
H755432	0.003	0.27	0.13	21.3	1	0.6	506	0.26	0.05	3.1	0.288	0.16	0.9	124	9.8
H755433	0.006	0.24	0.19	29.8	2	0.7	764	0.24	<0.05	5.0	0.371	0.25	1.0	148	26.0

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130995

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H755394		11.8	79	77.9
H755395		9.0	52	108.0
H755396				
H755397		11.4	64	115.5
H755398		11.1	85	87.9
H755399		10.6	82	96.9
H755400		11.3	83	85.0
H755401		11.2	70	85.9
H755402		10.3	63	76.5
H755403		11.0	81	103.0
H755404		11.4	73	94.6
H755405		10.6	91	106.0
H755406		12.6	87	88.3
H755407		12.5	81	77.6
H755408		11.6	87	100.5
H755409		11.3	86	98.3
H755410		11.5	91	102.0
H755411		12.0	101	109.5
H755412		11.5	88	84.3
H755413		10.6	84	86.3
H755414		11.3	89	95.1
H755415		6.9	45	64.2
H755416		7.8	49	79.5
H755417		10.4	70	83.8
H755418		8.9	91	72.5
H755419		14.1	79	101.5
H755420		11.3	102	70.9
H755421				
H755422		10.9	65	92.3
H755423		10.7	63	81.9
H755424		7.8	101	26.8
H755425		12.4	69	71.4
H755426		14.8	73	80.1
H755427		13.2	71	93.5
H755428		15.7	84	67.8
H755429		18.7	79	71.6
H755430		16.0	76	62.9
H755431		17.0	95	92.2
H755432		12.9	80	64.1
H755433		16.4	71	80.8

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130995

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05
H755434		0.06	6.54	0.4	580	0.81	0.27	5.98	0.07	35.0	51.0	823	1.32	21.6	7.08	15.85
H755435		0.15	8.08	0.8	890	1.16	0.19	4.38	0.05	70.5	24.0	121	2.58	44.1	4.11	21.2
H755436		0.29	7.24	0.9	610	1.09	0.16	2.30	0.04	23.0	8.0	36	1.28	70.5	1.91	20.0
H755437		0.21	7.83	0.7	670	1.16	0.11	2.08	0.06	17.95	6.8	22	1.45	73.8	1.60	22.1
H755438		0.48	5.96	1.3	830	0.90	0.33	6.69	0.07	29.7	56.7	1060	5.92	256	7.18	15.00
H755439		0.06	6.97	0.6	810	1.26	0.08	6.31	0.10	50.4	43.2	560	7.00	19.0	6.72	17.50
H755440		0.11	6.90	0.7	610	1.31	0.13	5.30	0.10	49.1	31.5	295	3.04	72.4	4.88	17.55
H755441		0.17	5.23	0.4	260	0.50	0.18	6.45	0.12	13.05	73.8	1440	1.64	143.0	7.82	12.80
H755442		0.06	7.03	0.6	850	1.28	0.12	5.97	0.07	51.4	43.6	505	5.09	20.9	6.79	18.55
H755443		0.05	8.17	1.1	760	1.53	0.10	5.87	0.07	63.3	33.5	319	3.13	45.5	5.66	19.85
H755444		0.18	5.82	0.9	450	0.87	0.20	6.49	0.15	25.7	81.6	1470	2.54	105.5	7.80	14.20
H755445		0.12	4.92	1.0	390	0.44	0.10	5.54	0.15	11.80	91.3	1820	2.93	84.6	7.73	11.45
H755446																
H755447		0.08	4.29	0.4	10	0.24	0.03	3.73	0.08	8.96	90.5	1760	0.26	86.4	7.69	9.62
H755448		0.08	5.53	0.3	170	0.62	0.04	4.50	0.07	19.50	81.2	1480	1.46	77.1	7.16	13.15
H755449		0.17	7.84	0.8	760	1.33	0.17	2.76	0.10	38.2	18.5	168	3.13	86.3	3.25	20.5
H755450		0.17	8.16	0.8	760	2.98	0.19	3.06	0.03	102.0	15.2	93	2.32	50.4	3.15	24.8
H755451		0.03	7.80	0.6	930	1.64	0.07	3.95	0.06	81.3	27.8	264	3.37	5.0	4.18	22.0
H755452		0.07	8.01	0.6	1030	1.44	0.06	3.44	0.04	65.9	20.7	122	2.91	32.8	4.14	21.6
H755453		0.17	7.68	1.3	1020	1.48	0.12	3.39	0.07	72.8	17.9	104	2.32	65.1	3.52	18.85
H755454		0.11	7.34	0.9	1020	1.39	0.10	3.29	0.04	65.9	17.4	90	2.48	40.4	3.26	19.10
H755455		0.16	7.46	1.0	840	1.23	0.10	4.25	0.06	67.4	26.7	261	3.10	25.2	4.12	18.25
H755456		0.07	7.60	0.7	930	1.44	0.09	3.77	0.05	66.1	25.6	234	3.13	27.8	3.89	19.10
H755457		0.02	7.26	1.0	910	1.38	0.10	3.78	0.05	74.4	26.1	239	2.94	33.8	3.94	18.65
H755458		0.05	7.36	0.3	850	1.07	0.09	3.18	0.03	45.1	16.0	105	3.36	32.7	3.01	19.25
H755459		0.09	7.96	0.7	1090	1.51	0.08	3.87	0.05	79.2	22.5	133	3.47	54.0	4.14	22.2
H755460		0.03	7.68	0.7	960	1.62	0.06	3.78	0.06	75.5	26.6	263	2.64	19.7	4.02	20.8
H755461		0.37	7.21	0.4	1010	1.46	0.17	3.46	0.06	72.2	25.0	246	2.92	29.2	3.84	20.9
H755462		0.15	7.81	0.5	1200	1.61	0.14	3.86	0.06	84.9	24.5	199	3.21	33.5	3.99	21.7
H755463		0.86	7.33	0.7	930	1.36	0.90	3.58	0.05	80.2	20.1	125	2.31	33.6	4.14	19.80
H755464		0.07	7.70	0.3	1000	1.53	0.13	3.75	0.06	84.9	21.4	131	2.71	21.3	4.02	19.40
H755465		0.09	7.68	<0.2	850	1.29	0.08	4.07	0.06	69.4	29.3	289	3.32	18.4	4.36	19.05
H755466		0.07	7.92	<0.2	970	1.53	0.09	4.13	0.06	79.3	28.4	287	3.75	42.4	4.37	19.45
H755467		0.53	7.71	<0.2	830	1.35	0.43	4.51	0.05	77.5	27.5	275	3.66	35.4	4.04	18.25
H755468		0.12	7.78	<0.2	940	1.48	0.10	4.06	0.06	77.9	27.3	265	3.49	28.5	4.16	19.25
H755469		0.12	7.51	<0.2	1160	1.68	0.09	3.27	0.05	94.2	16.1	80	2.80	23.6	3.19	21.5
H755470		0.10	7.26	<0.2	1080	1.52	0.12	2.96	0.03	79.4	16.2	81	1.96	12.4	3.14	18.95
H755471		0.08	7.40	<0.2	1200	1.74	0.04	3.61	0.05	102.0	18.3	100	2.22	20.6	3.68	19.05

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130995

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.1
H755434		0.14	1.4	0.192	0.79	17.6	22.6	8.17	1210	3.69	1.34	2.7	457	510	4.0	27.6
H755435		0.15	2.8	0.034	1.47	38.0	21.9	2.18	643	1.26	2.96	5.8	84.2	670	9.1	60.4
H755436		0.15	2.0	0.020	1.17	11.0	15.4	0.94	231	7.54	3.28	3.1	21.8	330	8.0	41.4
H755437		0.11	2.1	0.018	1.23	8.6	14.2	0.86	177	29.2	3.36	3.3	57.3	270	8.6	46.3
H755438		0.19	1.4	0.078	2.29	15.2	30.9	6.25	1220	27.1	0.93	2.9	788	720	4.2	92.3
H755439		0.19	2.2	0.066	1.90	25.1	28.9	7.47	1340	16.35	1.60	3.6	216	1290	4.8	86.2
H755440		0.17	2.2	0.062	1.18	24.1	17.1	4.12	925	10.25	2.28	4.2	179.0	980	6.3	50.7
H755441		0.17	1.0	0.050	0.66	5.7	30.1	11.40	1490	10.65	0.46	1.9	1080	370	1.4	26.6
H755442		0.20	2.2	0.065	1.69	25.7	25.4	6.76	1240	11.50	1.81	3.8	199.0	1310	5.4	74.3
H755443		0.21	2.7	0.060	1.23	31.9	18.1	4.80	1040	5.56	2.69	4.9	128.0	1350	7.6	52.7
H755444		0.17	1.4	0.066	1.00	12.6	23.4	8.67	1460	11.80	1.20	2.6	986	500	3.4	41.1
H755445		0.16	1.0	0.043	1.04	4.9	24.8	10.50	1260	4.50	0.59	1.6	1220	210	1.8	44.7
H755446																
H755447		0.16	0.6	0.036	0.03	4.3	11.9	14.25	1160	2.73	0.08	0.6	1165	170	0.9	1.9
H755448		0.20	1.4	0.038	0.44	9.2	26.5	13.75	1240	1.77	0.48	0.9	995	300	1.5	20.0
H755449		0.17	2.3	0.025	1.33	18.9	16.5	1.91	467	3.19	3.66	4.6	83.0	400	18.2	53.7
H755450		0.17	3.9	0.029	1.09	51.6	19.5	1.42	466	1.30	4.48	15.9	58.0	810	12.7	44.4
H755451		0.18	3.1	0.035	1.52	42.7	24.6	4.08	778	1.02	3.06	7.1	189.0	840	10.3	47.3
H755452		0.19	2.8	0.031	1.65	34.8	25.2	2.19	605	0.96	3.31	5.6	77.2	680	12.4	64.6
H755453		0.14	2.9	0.027	1.49	36.4	21.2	2.04	597	3.52	3.25	5.7	58.7	860	15.2	46.9
H755454		0.14	2.9	0.026	1.57	32.4	22.3	1.85	571	1.63	3.25	5.5	54.9	780	12.4	53.7
H755455		0.14	2.7	0.028	1.48	34.7	24.5	3.94	766	12.05	2.81	5.3	171.5	760	10.1	51.7
H755456		0.17	2.8	0.028	1.61	33.4	22.9	3.55	703	6.17	2.98	6.2	161.5	800	11.6	45.0
H755457		0.16	2.9	0.026	1.56	38.9	22.2	3.74	724	3.56	2.94	6.8	172.5	830	10.8	63.1
H755458		0.14	3.4	0.024	1.62	29.3	21.8	1.81	512	0.88	3.04	2.9	36.5	540	11.4	107.0
H755459		0.20	2.8	0.034	1.96	41.4	29.3	2.64	683	0.71	2.99	6.0	83.8	870	13.1	79.9
H755460		0.20	2.8	0.032	1.58	39.6	22.3	3.88	730	1.27	3.06	7.0	177.5	820	10.5	54.6
H755461		0.20	2.9	0.039	1.63	38.4	23.2	3.69	667	1.14	2.89	6.7	170.5	770	10.2	62.9
H755462		0.20	3.2	0.033	1.82	44.1	24.1	3.31	717	0.82	3.00	7.2	136.5	870	11.6	71.8
H755463		0.17	2.9	0.032	1.33	41.0	18.7	2.28	601	0.95	2.97	4.9	60.5	970	11.6	51.9
H755464		0.18	3.2	0.037	1.56	42.7	21.1	2.59	681	0.47	3.10	5.7	90.8	880	10.6	59.8
H755465		0.21	3.1	0.039	1.54	35.4	20.5	4.46	812	1.06	2.82	5.1	214	770	9.9	61.6
H755466		0.23	3.2	0.036	1.63	40.4	21.7	4.26	781	1.13	2.95	6.1	200	880	13.8	57.3
H755467		0.19	3.2	0.031	1.51	40.0	20.3	3.96	783	17.65	2.88	5.5	194.0	720	13.2	64.0
H755468		0.20	3.4	0.032	1.68	39.7	21.9	4.08	760	2.37	3.00	6.1	195.0	850	13.2	60.0
H755469		0.25	3.6	0.024	1.57	46.9	23.2	1.71	568	1.57	3.55	6.0	48.3	850	15.8	61.3
H755470		0.23	3.3	0.020	1.52	39.3	22.9	1.67	549	4.69	3.13	5.3	47.3	810	15.4	53.8
H755471		0.23	3.1	0.024	1.62	52.9	24.0	2.08	664	3.15	3.17	5.9	62.9	970	13.5	55.9

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130995

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	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.1
H755434		0.003	0.07	0.19	25.6	1	0.8	454	0.16	<0.05	2.7	0.412	0.13	0.7	155	2.4
H755435		0.002	0.27	0.15	17.1	1	0.5	843	0.29	0.15	7.1	0.302	0.24	1.7	107	10.6
H755436		0.004	0.49	0.09	6.7	1	0.8	380	0.28	0.39	2.2	0.170	0.18	0.7	57	12.1
H755437		0.011	0.25	0.08	4.3	1	0.6	481	0.30	0.79	1.8	0.126	0.20	0.6	38	14.6
H755438		0.018	0.47	0.11	28.5	2	1.1	355	0.16	0.50	2.3	0.300	0.50	0.7	162	51.1
H755439		0.007	0.03	0.12	34.6	1	1.0	596	0.20	<0.05	4.3	0.367	0.44	1.2	186	85.9
H755440		0.009	0.21	0.13	24.7	2	1.0	768	0.23	<0.05	4.0	0.290	0.27	1.1	127	13.7
H755441		0.009	0.15	0.13	29.7	1	1.0	141.5	0.12	0.29	0.9	0.315	0.15	0.3	161	4.1
H755442		0.013	0.04	0.14	33.5	1	1.0	673	0.19	<0.05	4.6	0.364	0.44	1.3	193	3.7
H755443		0.006	0.08	0.15	27.9	2	1.0	1070	0.24	<0.05	5.0	0.374	0.27	1.4	174	2.1
H755444		0.010	0.42	0.13	30.1	2	1.0	417	0.14	0.19	1.8	0.293	0.25	0.5	160	10.1
H755445		0.007	0.19	0.11	27.0	2	0.7	265	0.10	<0.05	0.9	0.209	0.25	0.3	138	1.4
H755446																
H755447		0.004	0.05	0.07	27.6	1	0.3	49.5	<0.05	<0.05	0.6	0.157	<0.02	0.1	139	0.4
H755448		0.005	0.08	0.06	26.6	1	0.3	168.0	0.06	<0.05	2.3	0.102	0.11	0.5	125	0.4
H755449		0.002	0.40	0.09	11.2	1	0.6	717	0.29	0.08	4.2	0.204	0.30	1.1	67	31.0
H755450		<0.002	0.27	0.11	10.4	2	0.8	951	0.59	1.24	13.3	0.238	0.23	3.1	73	16.2
H755451		0.002	<0.01	0.12	17.3	1	0.7	967	0.34	<0.05	7.6	0.297	0.25	1.8	103	1.1
H755452		<0.002	0.15	0.11	15.8	1	0.6	859	0.28	<0.05	6.5	0.311	0.25	1.6	100	12.6
H755453		<0.002	0.09	0.15	11.5	1	0.6	1015	0.28	0.10	6.8	0.272	0.17	1.7	87	25.7
H755454		<0.002	0.14	0.10	10.3	1	0.5	929	0.28	0.08	6.4	0.267	0.23	1.5	81	21.2
H755455		<0.002	0.11	0.12	14.8	1	0.6	833	0.26	0.15	5.5	0.284	0.28	1.4	110	11.6
H755456		<0.002	0.01	0.14	13.3	1	0.6	922	0.28	<0.05	5.8	0.284	0.33	1.5	97	8.0
H755457		<0.002	0.01	0.18	14.8	1	0.6	928	0.28	<0.05	6.5	0.283	0.31	1.6	100	7.1
H755458		<0.002	0.02	0.13	14.4	1	0.6	713	0.23	<0.05	5.2	0.210	0.32	2.3	81	1.8
H755459		0.002	0.01	0.14	16.7	1	0.7	963	0.31	<0.05	8.2	0.321	0.40	1.9	104	3.2
H755460		0.002	0.01	0.14	16.0	1	0.7	853	0.33	<0.05	6.9	0.287	0.31	1.7	98	2.5
H755461		<0.002	0.19	0.14	16.1	1	0.8	742	0.32	0.35	6.9	0.271	0.32	1.6	103	10.5
H755462		0.002	0.05	0.13	16.8	2	0.8	949	0.33	<0.05	8.2	0.291	0.36	1.9	101	2.9
H755463		<0.002	1.07	0.17	15.4	1	0.7	926	0.29	1.65	6.9	0.287	0.24	1.7	109	21.6
H755464		<0.002	0.11	0.16	14.8	1	0.7	981	0.31	0.06	7.4	0.296	0.28	1.8	101	1.9
H755465		<0.002	0.05	0.17	18.1	1	0.7	846	0.29	0.08	6.2	0.308	0.33	1.6	114	2.3
H755466		<0.002	0.01	0.19	17.7	1	0.7	1010	0.34	0.06	6.7	0.308	0.40	1.8	111	0.7
H755467		0.005	0.04	0.17	16.0	1	0.7	841	0.31	7.42	6.7	0.275	0.40	1.7	94	22.7
H755468		0.002	0.03	0.14	16.6	1	0.7	960	0.34	0.41	7.0	0.298	0.39	1.8	105	6.5
H755469		<0.002	0.06	0.12	12.7	1	0.7	1040	0.34	0.29	9.1	0.265	0.30	2.4	82	9.8
H755470		0.002	0.15	0.10	11.8	1	0.7	908	0.32	0.19	7.3	0.246	0.23	1.9	81	19.8
H755471		0.002	0.02	0.13	14.1	1	0.7	1105	0.30	0.10	9.1	0.284	0.27	2.2	92	8.7

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130995

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H755434		13.0	93	50.5
H755435		13.8	51	101.5
H755436		8.1	31	67.8
H755437		5.6	32	68.0
H755438		13.9	128	51.0
H755439		18.8	115	79.0
H755440		15.4	75	78.8
H755441		14.5	139	34.3
H755442		18.6	101	80.8
H755443		18.9	83	99.7
H755444		13.3	128	51.0
H755445		10.2	113	32.4
H755446				
H755447		8.6	90	23.1
H755448		10.9	81	51.7
H755449		8.7	45	75.2
H755450		14.5	38	143.5
H755451		13.5	73	115.5
H755452		12.7	60	102.0
H755453		9.7	63	109.0
H755454		9.2	56	108.0
H755455		10.4	74	98.4
H755456		10.2	66	106.5
H755457		11.4	67	110.0
H755458		9.8	54	113.5
H755459		12.9	61	101.0
H755460		12.5	67	104.5
H755461		11.9	64	108.5
H755462		13.2	64	118.5
H755463		10.5	51	101.5
H755464		10.6	60	107.5
H755465		10.9	75	106.0
H755466		11.5	72	110.5
H755467		11.0	75	111.0
H755468		11.1	74	114.5
H755469		10.4	54	121.0
H755470		9.1	50	116.5
H755471		11.1	58	109.5

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130995

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

CERTIFICATE TB09130996

Project: Thorne Lake

P.O. No.:

This report is for 115 Pulp samples submitted to our lab in Thunder Bay, ON, Canada on 13-NOV-2009.

The following have access to data associated with this certificate:

STEVE VAN HAAFTEN	THOMAS HART	MATT SOOLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS

To: **NORTHERN SUPERIOR RESOURCES INC**
ATTN: THOMAS HART
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130996

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H754733		0.06	7.86	<5	50	0.18	0.03	10.50	0.11	7.53	46.9	156	<0.05	82.2	6.44	16.50
H754734		0.05	7.55	<5	190	0.26	0.01	11.20	0.12	8.23	41.6	155	0.63	111.5	8.38	16.15
H754735		0.06	7.10	<5	90	0.31	0.06	12.95	0.08	7.08	38.2	135	0.26	92.5	6.26	15.15
H754736		0.06	7.35	8	40	0.20	0.04	13.95	0.11	6.61	42.0	150	0.13	107.0	6.52	15.70
H754737		0.10	6.31	0.9	300	0.33	0.26	9.66	0.10	6.01	35.7	155	2.97	101.5	6.94	13.05
H754738		0.07	8.20	0.3	90	0.20	0.08	8.09	0.11	7.48	48.6	174	0.51	84.8	8.48	17.55
H754739		0.09	6.80	0.5	730	0.48	0.37	9.61	0.08	16.90	38.3	171	6.31	106.0	6.36	14.90
H754740		0.02	7.12	0.6	720	0.99	0.06	5.63	0.10	64.4	30.8	340	4.03	25.3	5.48	15.20
H754741		0.03	6.99	<0.2	1110	1.26	0.12	3.02	0.03	48.5	16.4	146	2.85	16.9	2.87	18.30
H754742		0.02	7.08	1.0	1160	1.40	0.09	3.01	0.03	50.6	14.7	146	2.71	15.2	2.93	17.10
H754743		0.02	7.21	0.9	1180	1.37	0.06	3.19	0.04	55.6	15.6	145	2.18	23.2	3.03	17.90
H754744		0.01	7.15	0.8	1070	1.42	0.09	2.91	0.04	50.5	14.8	142	2.53	18.5	2.83	17.45
H754745		0.01	6.11	1.0	790	1.09	0.01	2.68	0.03	44.3	15.3	115	3.45	21.4	2.95	13.00
H754746																
H754747		0.02	6.41	0.5	960	0.88	0.02	5.49	0.07	65.8	37.4	448	4.23	16.3	6.08	14.50
H754748		0.09	6.69	<5	430	0.48	0.10	13.10	0.11	11.60	44.8	146	2.15	180.0	6.52	14.60
H754749		0.07	7.94	<5	40	0.29	0.03	11.05	0.09	9.20	46.9	165	0.05	113.5	7.59	16.75
H754750		0.06	8.29	<5	40	0.31	0.01	10.20	0.11	8.99	49.1	179	<0.05	132.0	7.95	18.00
H754751		0.07	7.54	10	30	0.28	<0.01	12.30	0.13	8.40	51.6	160	<0.05	168.0	7.36	18.20
H754752		0.05	8.49	2.2	30	0.26	0.02	9.54	0.10	8.21	47.2	181	<0.05	113.0	8.29	17.30
H754753		0.09	8.13	1.0	40	0.30	0.01	9.41	0.07	9.04	48.0	171	<0.05	131.0	8.33	17.35
H754754		0.07	7.99	7	40	0.21	0.03	11.75	0.14	7.76	49.1	169	<0.05	106.0	7.64	17.40
H754755		0.04	8.55	<5	50	0.35	0.02	10.70	0.09	9.14	54.1	175	0.05	70.4	7.17	18.50
H754756		0.05	6.28	6	20	0.31	0.03	15.20	0.14	7.38	37.6	132	0.07	117.0	12.60	13.20
H754757		0.05	8.17	6	40	0.28	0.02	11.70	0.09	7.55	43.4	170	<0.05	88.0	7.87	15.55
H754758		0.06	8.40	<5	50	0.32	0.02	10.85	0.11	9.00	50.7	164	<0.05	108.0	7.83	19.05
H754759		0.06	8.53	1.5	60	0.33	0.02	9.56	0.09	8.82	46.4	178	<0.05	108.0	7.62	17.60
H754760		0.06	7.40	<5	50	0.25	0.02	13.00	0.09	7.63	43.7	160	<0.05	120.5	7.66	14.90
H754761		0.12	8.57	0.3	50	0.24	0.05	9.99	0.08	7.79	53.0	191	<0.05	97.9	8.55	17.90
H754762		0.08	7.66	<5	40	0.31	0.06	11.15	0.12	7.78	45.8	195	<0.05	194.5	7.14	15.00
H754763		0.07	8.43	<5	50	0.20	0.05	11.35	0.09	8.02	51.8	173	<0.05	91.8	7.69	19.20
H754764		0.07	8.88	1.0	60	0.33	0.01	8.76	0.10	8.97	52.2	209	<0.05	124.5	6.80	18.45
H754765		0.06	6.74	6	50	0.21	0.02	14.15	0.12	6.06	36.4	127	<0.05	115.0	5.86	15.75
H754766		0.07	9.19	<5	60	0.27	0.04	10.75	0.12	8.39	57.1	174	<0.05	115.5	6.74	19.70
H754767		0.06	9.19	1.0	60	0.24	0.04	9.62	0.12	8.88	54.3	192	<0.05	148.0	7.67	20.9
H754768		0.05	8.85	1.4	60	0.30	0.02	8.76	0.11	8.12	52.9	192	<0.05	109.5	6.61	18.60
H754769		0.13	9.28	1.5	70	0.29	0.06	9.21	0.11	8.65	57.4	206	0.07	107.0	6.77	18.30
H754770		0.09	7.96	<0.2	890	1.27	0.04	4.91	0.10	52.8	29.8	138	5.67	80.1	5.70	19.75
H754771																
H754772		0.10	8.53	0.5	50	0.26	0.07	9.20	0.12	8.28	54.8	176	0.06	129.5	7.83	18.10

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130996

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.1
H754733		0.08	0.9	0.062	0.12	2.9	7.0	2.09	2090	0.28	1.70	2.1	129.5	260	0.8	1.0
H754734		0.07	0.8	0.058	0.27	2.9	14.1	2.78	2690	0.39	1.54	2.1	126.5	250	1.0	13.1
H754735		0.06	0.7	0.062	0.18	2.4	11.4	2.40	2380	0.26	1.64	1.9	112.0	230	1.2	6.0
H754736		0.11	0.7	0.055	0.16	2.5	6.0	2.14	2600	0.26	1.47	2.0	109.0	230	1.7	2.8
H754737		0.07	0.7	0.047	0.70	2.0	21.1	2.75	1780	0.54	1.51	1.7	104.5	190	2.8	43.6
H754738		0.12	0.9	0.061	0.28	2.7	13.0	3.73	1560	0.25	1.81	2.2	133.0	280	2.6	10.5
H754739		0.08	0.9	0.044	1.54	7.1	40.0	2.59	1560	0.92	1.66	2.3	121.0	320	3.8	77.4
H754740		0.08	2.4	0.034	1.31	27.8	31.6	5.20	1020	0.50	2.51	4.2	195.0	930	4.3	52.2
H754741		0.10	2.9	0.021	1.24	23.7	19.1	2.01	532	0.29	3.66	5.6	79.7	540	8.5	46.1
H754742		0.09	2.8	0.017	1.52	22.2	33.8	2.10	550	0.24	3.33	5.4	85.1	540	9.7	46.3
H754743		0.10	2.9	0.021	1.56	24.8	27.6	2.17	585	0.23	3.28	5.6	88.6	580	9.5	45.5
H754744		0.08	2.9	0.021	1.33	22.6	24.8	2.01	527	0.23	3.34	5.7	83.0	520	8.1	44.5
H754745		0.08	2.3	0.016	1.36	20.6	30.4	2.00	527	0.45	2.50	3.8	71.5	560	4.0	55.4
H754746																
H754747		0.11	2.2	0.036	1.66	29.4	42.6	6.46	1120	0.14	1.89	4.0	255	900	2.8	69.1
H754748		0.08	0.8	0.048	0.72	4.8	18.2	2.42	2090	0.52	1.28	2.0	132.0	260	2.8	31.2
H754749		0.07	0.9	0.058	0.17	3.2	13.2	2.71	1820	0.23	1.12	2.2	138.0	260	1.5	1.3
H754750		0.08	1.1	0.061	0.15	3.1	11.1	2.83	1680	0.39	1.22	2.3	145.0	280	1.1	1.1
H754751		0.08	1.0	0.062	0.12	2.8	11.3	2.30	2030	0.45	1.01	2.2	141.0	250	1.2	0.7
H754752		0.06	1.1	0.064	0.13	2.8	10.3	3.02	1590	0.41	1.18	2.2	143.0	300	1.6	0.7
H754753		0.08	1.2	0.058	0.14	3.2	13.7	3.21	1590	0.32	1.28	2.3	137.0	280	1.4	0.9
H754754		0.11	0.9	0.060	0.13	3.0	7.6	2.40	2180	0.38	1.20	2.1	134.0	260	2.0	0.9
H754755		0.06	1.0	0.060	0.15	3.1	9.6	2.15	2670	0.25	1.66	2.4	154.0	290	2.4	1.5
H754756		0.12	0.6	0.044	0.25	2.7	9.3	1.64	7910	0.23	0.53	1.7	106.0	240	2.2	2.9
H754757		0.07	1.0	0.053	0.11	2.6	7.3	2.49	2270	0.26	1.10	2.0	136.0	280	2.0	0.7
H754758		0.08	1.2	0.060	0.10	3.0	10.6	2.73	2060	0.27	1.38	2.4	141.0	270	2.0	0.7
H754759		0.08	1.0	0.058	0.15	2.9	9.8	2.73	1560	0.20	1.49	2.3	141.5	270	1.8	1.1
H754760		0.06	0.9	0.055	0.12	2.6	9.7	2.56	2240	0.17	1.19	2.0	132.5	260	1.3	0.7
H754761		0.10	1.1	0.063	0.14	2.9	7.6	2.73	1810	0.34	1.41	2.3	144.0	300	2.6	1.0
H754762		0.05	0.8	0.052	0.11	2.7	10.3	1.99	2000	0.23	1.34	2.0	137.5	260	1.8	0.6
H754763		0.12	1.0	0.065	0.13	3.0	8.5	2.27	2150	0.28	1.38	2.3	139.5	280	1.7	0.8
H754764		0.07	0.9	0.058	0.11	3.0	10.1	2.01	1610	0.25	2.25	2.4	153.0	300	1.5	0.4
H754765		<0.05	0.7	0.045	0.10	2.4	7.4	1.81	2390	0.25	1.58	1.7	104.5	190	1.3	0.7
H754766		0.09	1.0	0.073	0.11	3.1	6.0	1.89	1760	0.42	2.19	2.2	147.5	300	1.6	0.6
H754767		0.11	1.2	0.108	0.12	3.3	7.1	2.16	1640	0.33	2.13	2.3	148.5	280	2.1	0.6
H754768		0.06	1.0	0.068	0.12	3.2	7.0	2.05	1590	0.27	2.42	2.4	147.5	300	1.6	0.6
H754769		0.09	1.1	0.075	0.15	3.2	5.9	2.00	1550	0.47	2.28	2.4	156.0	310	3.2	1.6
H754770		0.13	3.0	0.051	1.55	25.8	25.3	3.37	914	0.31	2.73	4.2	111.0	1130	5.2	74.7
H754771																
H754772		0.09	1.0	0.071	0.17	3.3	7.9	2.56	1620	0.59	1.70	2.1	145.5	280	2.2	1.3

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130996

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	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.1
H754733		0.002	0.08	0.13	36.9	1	0.5	121.5	0.17	0.05	0.3	0.487	<0.02	0.1	238	0.4
H754734		0.002	0.19	0.21	38.3	<1	0.5	126.5	0.15	0.09	0.3	0.457	0.07	0.1	224	0.4
H754735		0.002	0.12	0.22	34.3	<1	0.5	122.5	0.14	0.11	0.2	0.431	0.02	0.1	211	0.4
H754736		<0.002	0.24	0.33	33.2	2	0.5	115.5	0.16	0.19	0.2	0.438	0.02	0.1	217	0.5
H754737		<0.002	0.71	0.13	29.1	<1	0.4	130.0	0.12	0.79	0.2	0.386	0.26	<0.1	183	5.0
H754738		0.002	0.18	0.20	39.4	1	0.5	178.0	0.17	0.24	0.2	0.519	0.06	0.1	256	1.3
H754739		<0.002	0.59	0.10	33.4	<1	0.4	362	0.15	0.87	1.0	0.412	0.45	0.2	190	2.5
H754740		<0.002	0.05	0.11	20.7	<1	0.8	704	0.23	0.09	5.3	0.379	0.30	1.3	147	0.5
H754741		<0.002	0.21	0.09	9.6	1	0.5	882	0.36	0.09	4.8	0.217	0.28	1.7	65	0.6
H754742		<0.002	0.18	0.08	9.1	<1	0.5	863	0.33	0.07	5.1	0.216	0.29	1.6	66	0.9
H754743		<0.002	0.12	0.10	10.2	<1	0.5	885	0.33	0.08	5.5	0.230	0.28	1.8	70	0.7
H754744		<0.002	0.16	0.08	9.4	<1	0.5	844	0.33	0.06	5.2	0.216	0.28	1.7	65	0.5
H754745		<0.002	0.03	0.09	10.0	<1	0.4	643	0.23	<0.05	4.3	0.210	0.32	1.4	70	0.3
H754746																
H754747		<0.002	0.01	0.11	23.8	<1	0.5	578	0.22	0.11	5.4	0.366	0.42	1.2	152	0.3
H754748		0.002	0.38	0.31	32.6	1	0.5	418	0.13	0.11	0.5	0.413	0.19	0.1	201	0.4
H754749		<0.002	0.10	0.32	40.9	<1	0.5	162.5	0.15	0.07	0.3	0.488	<0.02	0.1	242	0.5
H754750		0.002	0.12	0.25	43.2	1	0.5	124.5	0.15	0.08	0.3	0.512	<0.02	0.1	249	0.3
H754751		0.002	0.27	0.20	40.9	1	0.5	125.0	0.15	0.11	0.2	0.461	<0.02	0.1	230	0.2
H754752		0.002	0.13	0.23	41.1	<1	0.5	119.5	0.15	<0.05	0.2	0.527	<0.02	0.1	261	0.4
H754753		0.002	0.24	0.28	42.2	1	0.5	113.5	0.16	0.10	0.3	0.508	<0.02	0.1	247	0.5
H754754		<0.002	0.17	0.27	38.3	2	0.5	117.0	0.16	<0.05	0.2	0.502	<0.02	0.1	247	0.5
H754755		<0.002	0.10	0.31	44.7	<1	0.6	118.5	0.16	0.14	0.3	0.531	<0.02	0.1	262	0.5
H754756		0.002	0.28	0.24	37.4	1	0.4	49.7	0.11	0.07	0.2	0.379	<0.02	<0.1	208	0.4
H754757		<0.002	0.05	0.30	37.1	<1	0.5	106.0	0.13	0.10	0.2	0.508	<0.02	<0.1	251	0.3
H754758		0.002	0.11	0.31	44.7	<1	0.5	125.0	0.16	0.06	0.3	0.498	<0.02	0.1	244	0.3
H754759		0.002	0.12	0.28	42.1	<1	0.5	134.0	0.15	0.09	0.3	0.526	<0.02	0.1	256	0.4
H754760		<0.002	0.18	0.27	36.2	<1	0.4	115.0	0.13	0.05	0.2	0.461	<0.02	<0.1	224	0.4
H754761		0.002	0.10	0.29	40.5	2	0.5	107.0	0.17	<0.05	0.2	0.543	<0.02	0.1	266	0.7
H754762		<0.002	0.23	0.33	37.9	<1	0.4	121.5	0.13	0.13	0.2	0.491	<0.02	<0.1	235	0.7
H754763		0.002	0.09	0.40	41.3	2	0.5	119.5	0.17	0.07	0.2	0.517	<0.02	0.1	255	0.5
H754764		<0.002	0.08	0.22	45.2	<1	0.5	148.5	0.16	0.11	0.2	0.565	<0.02	0.1	281	0.2
H754765		0.002	0.19	0.27	35.7	1	0.4	112.0	0.14	0.07	0.2	0.385	<0.02	<0.1	195	0.4
H754766		0.003	0.09	0.29	45.0	2	0.5	173.0	0.17	0.09	0.2	0.561	0.02	0.1	274	0.3
H754767		0.004	0.22	0.38	46.0	2	0.6	157.5	0.17	0.12	0.2	0.559	<0.02	0.1	295	0.4
H754768		0.002	0.09	0.24	49.9	<1	0.6	153.0	0.18	<0.05	0.3	0.556	<0.02	0.1	269	0.3
H754769		<0.002	0.11	0.45	46.9	2	0.6	198.5	0.16	0.13	0.2	0.579	0.02	0.1	285	0.6
H754770		<0.002	0.05	0.17	18.0	1	0.8	744	0.26	0.12	3.7	0.521	0.49	1.2	135	2.2
H754771																
H754772		0.002	0.09	0.37	42.9	1	0.5	177.0	0.15	0.09	0.2	0.523	<0.02	0.1	256	0.5

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130996

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H754733		17.5	100	24.1
H754734		20.4	100	21.2
H754735		17.2	73	9.8
H754736		16.1	74	18.6
H754737		15.5	89	18.2
H754738		18.3	102	24.0
H754739		17.2	79	30.0
H754740		12.6	97	85.7
H754741		7.0	54	104.5
H754742		7.3	56	99.8
H754743		8.2	59	105.5
H754744		7.4	54	104.0
H754745		7.3	50	83.0
H754746				
H754747		12.4	99	82.9
H754748		17.5	73	23.2
H754749		19.9	88	26.3
H754750		21.3	89	21.0
H754751		20.9	91	28.7
H754752		20.4	95	21.2
H754753		21.3	97	31.8
H754754		18.5	112	20.8
H754755		21.6	111	32.5
H754756		22.9	215	15.5
H754757		18.7	107	25.3
H754758		22.9	106	22.3
H754759		21.2	87	27.9
H754760		19.2	92	21.8
H754761		19.0	105	29.4
H754762		19.6	93	13.2
H754763		19.7	100	26.3
H754764		21.1	90	22.3
H754765		19.3	96	8.9
H754766		19.7	92	22.8
H754767		21.6	95	28.3
H754768		22.1	88	19.0
H754769		20.3	84	26.2
H754770		13.9	95	100.5
H754771				
H754772		20.0	97	27.1

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130996

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H754773		0.09	8.43	0.6	40	0.26	0.05	9.56	0.11	8.23	53.3	164	<0.05	101.0	8.70	18.20
H754774		0.05	8.72	1.9	40	0.20	0.04	9.16	0.10	7.26	46.5	177	<0.05	114.0	8.97	17.90
H754775		0.06	8.77	1.4	40	0.32	0.05	9.96	0.08	8.28	50.7	169	<0.05	79.4	8.30	19.35
H754776		0.10	7.38	<5	90	0.24	0.11	16.35	0.09	7.76	47.5	141	0.48	203	6.97	17.00
H754777		0.04	8.58	<5	240	0.59	0.18	10.30	0.08	24.4	44.1	160	1.22	98.7	8.52	18.75
H754778		0.12	8.12	5	290	0.47	0.12	12.65	0.13	13.20	50.0	152	2.42	215	7.55	17.40
H754779		0.07	7.92	2.4	1130	1.87	0.19	5.95	0.07	80.7	32.1	171	3.12	81.0	5.78	21.8
H754780		0.05	7.96	2.6	1180	1.91	0.25	5.77	0.08	77.6	31.0	187	3.55	76.2	5.61	21.6
H754781		0.10	7.39	3.5	750	2.00	0.31	7.52	0.11	89.5	42.1	160	4.83	101.0	7.10	19.20
H754782		0.07	9.14	1.2	180	0.38	0.07	9.81	0.12	8.94	55.0	183	1.08	123.5	8.70	19.10
H754783		0.07	7.23	5	150	0.19	0.08	11.30	0.09	6.81	41.1	140	1.72	163.5	7.75	16.10
H754784		0.04	7.46	<5	60	0.20	0.07	14.75	0.09	6.30	43.0	150	0.16	114.0	7.15	15.50
H754785		0.06	9.20	1.5	70	0.28	0.16	8.97	0.08	8.27	55.1	193	0.21	138.5	7.05	19.95
H754786		0.09	8.61	1.4	30	0.26	0.04	9.34	0.15	7.79	51.3	164	0.05	164.5	8.39	19.20
H754787		0.07	9.27	1.4	20	0.29	0.02	9.39	0.16	8.35	55.8	180	0.07	138.0	8.60	20.8
H754788		0.09	8.50	1.0	20	0.21	0.03	9.15	0.19	7.75	49.4	170	0.12	132.0	9.29	18.80
H754789		0.07	8.28	0.6	100	0.28	0.07	8.07	0.11	11.90	45.4	136	1.34	111.5	8.88	17.80
H754790		0.10	8.36	0.4	80	0.35	0.08	8.24	0.06	9.51	52.1	159	0.90	111.0	9.05	18.40
H754791		0.08	7.84	1.3	60	0.31	0.14	8.43	0.08	8.60	45.2	142	0.74	98.4	8.69	19.10
H754792		0.13	7.66	0.9	70	0.30	0.07	7.87	0.08	7.99	47.5	139	0.81	159.0	8.75	17.75
H754793		0.07	7.92	0.9	170	0.29	0.04	7.75	0.11	8.24	44.5	145	1.65	129.0	8.68	17.30
H754794		0.12	8.43	1.2	30	0.30	0.06	9.50	0.19	7.87	52.8	154	0.14	118.0	8.59	17.40
H754795		0.10	8.41	2.2	40	0.26	0.04	8.15	0.07	7.92	52.2	166	0.18	170.5	8.86	18.45
H754796																
H754797		0.08	8.17	1.9	30	0.22	0.02	7.50	0.09	6.93	47.2	155	0.18	106.5	8.51	17.45
H754798		0.11	8.86	2.0	30	0.28	0.03	8.40	0.14	7.47	49.9	156	0.10	134.5	9.08	18.50
H754799		0.09	8.02	<5	30	0.28	0.06	10.10	0.09	7.58	50.4	142	0.06	119.0	8.36	16.70
H754800		0.13	8.61	<5	60	0.32	0.10	11.00	0.11	7.53	49.2	165	0.29	117.0	9.13	18.90
H754801		0.10	8.28	<5	120	0.31	0.16	10.60	0.08	7.84	51.2	150	1.05	118.5	8.53	20.6
H754802		0.08	6.98	1.2	530	0.61	0.44	7.21	0.07	23.5	36.5	160	7.13	96.4	7.20	15.05
H754803		0.11	7.65	<5	70	0.23	0.16	10.10	0.13	6.59	47.9	163	0.36	124.5	8.26	16.35
H754804		0.13	8.03	<5	40	0.25	0.10	10.40	0.15	7.22	46.2	152	0.09	139.5	7.85	16.10
H754805		5.80	7.04	<5	120	0.27	0.45	10.80	2.98	6.02	87.9	163	0.98	4850	8.77	15.45
H754806		0.20	7.90	0.8	260	0.37	0.20	8.13	0.18	20.6	41.9	121	2.73	221	7.45	18.55
H754807		0.07	7.80	<0.2	80	0.51	0.10	6.43	0.09	29.3	28.6	27	0.32	46.2	5.21	17.70
H754808		0.02	7.05	1.1	140	0.50	0.35	6.59	0.05	25.4	32.9	160	1.20	26.3	6.82	16.65
H754809		0.06	7.46	<0.2	700	0.40	0.12	5.89	0.07	27.0	34.6	210	7.75	60.2	6.83	19.30
H754810		0.01	6.68	0.8	220	0.53	0.11	6.48	0.07	23.7	53.7	397	2.23	18.4	7.69	17.90
H754811		0.70	7.73	0.9	220	0.36	2.39	7.89	0.20	12.10	33.3	189	1.79	733	6.43	16.50
H754812		1.62	7.16	5	30	0.25	0.47	11.05	0.59	7.15	46.6	183	0.11	1775	8.10	16.80

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130996

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.1
H754773		0.13	1.1	0.071	0.16	3.1	8.4	3.38	1580	0.46	1.22	2.2	140.5	290	1.6	1.1
H754774		0.05	1.2	0.064	0.15	2.9	7.3	4.08	1430	0.37	1.44	2.2	140.0	310	1.5	0.9
H754775		0.05	1.2	0.069	0.19	3.2	8.3	3.00	1640	0.43	1.42	2.4	147.0	300	1.9	1.4
H754776		0.05	0.9	0.068	0.26	3.6	8.9	2.14	2640	0.28	1.02	2.0	123.5	250	2.5	8.8
H754777		0.06	1.4	0.076	0.60	12.1	11.2	3.21	1640	1.49	1.35	2.6	125.5	730	5.1	24.1
H754778		0.11	1.0	0.067	1.00	5.8	15.3	2.71	2170	1.22	0.89	2.2	135.5	370	7.3	53.1
H754779		0.12	3.5	0.053	2.16	41.1	26.0	3.93	1040	0.17	3.20	4.0	77.1	1920	15.4	98.0
H754780		0.15	3.4	0.049	2.38	40.3	30.9	3.90	991	0.40	3.22	3.7	77.5	1940	16.9	111.0
H754781		0.15	3.2	0.061	1.79	50.2	40.9	5.30	1400	0.56	2.20	4.7	100.5	2090	15.6	104.5
H754782		0.13	1.0	0.071	0.49	3.5	15.0	3.05	1800	0.82	1.24	2.3	150.0	330	5.1	20.3
H754783		0.07	0.9	0.058	0.57	2.7	10.0	2.87	2110	0.18	0.81	1.9	117.0	240	2.6	26.8
H754784		0.06	0.8	0.053	0.17	2.5	6.6	2.21	2650	0.25	1.29	1.9	126.5	250	2.3	3.3
H754785		0.06	1.1	0.074	0.14	3.1	9.2	2.07	1920	0.31	2.71	2.5	152.0	340	3.0	3.3
H754786		0.07	1.2	0.077	0.12	3.1	9.2	3.83	1690	0.31	1.70	2.3	142.5	300	2.2	0.6
H754787		0.07	1.3	0.072	0.13	3.2	10.1	3.92	1570	0.32	1.35	2.6	157.0	320	1.9	0.8
H754788		0.08	1.1	0.066	0.14	3.0	13.8	4.53	1680	0.23	1.18	2.1	143.5	290	2.0	1.3
H754789		0.06	1.0	0.057	0.45	4.9	18.6	4.24	1560	0.64	1.68	2.8	114.5	380	2.7	16.0
H754790		0.14	1.2	0.067	0.49	3.6	17.0	4.41	1350	1.74	1.63	2.4	118.5	330	2.1	19.5
H754791		0.08	1.2	0.083	0.34	3.3	13.5	3.83	1360	0.71	1.53	2.7	107.5	330	2.2	12.2
H754792		0.07	0.8	0.073	0.32	3.2	20.4	4.12	1360	0.38	1.39	2.4	124.5	300	1.9	11.5
H754793		0.07	0.6	0.057	0.45	3.4	20.6	3.70	1820	0.59	1.53	2.1	124.0	300	2.0	16.8
H754794		0.12	0.7	0.065	0.17	3.0	13.7	3.12	1960	0.69	1.51	2.1	138.5	280	1.8	1.8
H754795		0.09	1.0	0.068	0.26	3.1	17.9	4.76	1440	0.31	1.33	2.4	143.0	310	1.4	3.6
H754796																
H754797		0.07	0.9	0.061	0.12	2.7	18.5	4.79	1320	0.20	1.09	2.1	140.0	280	1.0	2.0
H754798		0.06	1.1	0.067	0.13	2.9	12.1	4.41	1500	0.25	1.33	2.3	144.5	310	1.2	0.8
H754799		0.12	0.8	0.065	0.11	2.9	11.7	3.07	2020	0.30	1.09	2.0	132.5	270	1.2	0.7
H754800		0.08	1.0	0.066	0.20	3.0	12.0	3.04	2160	0.55	1.72	2.3	138.5	290	2.7	3.4
H754801		0.09	0.9	0.101	0.30	3.1	15.2	2.35	2030	2.30	1.85	2.4	140.5	290	4.1	10.0
H754802		0.11	1.2	0.055	1.42	11.3	28.0	2.67	1360	2.32	2.05	2.1	99.5	660	3.9	62.2
H754803		0.13	0.7	0.065	0.19	2.6	14.9	2.89	1910	1.18	1.59	2.0	130.0	270	3.5	3.9
H754804		0.05	0.7	0.064	0.12	2.9	12.8	2.59	1900	1.98	1.58	2.1	133.0	280	3.4	1.1
H754805		0.11	0.5	0.141	0.24	2.4	16.0	2.22	2050	0.64	1.84	1.8	128.0	230	2.2	9.4
H754806		0.06	0.9	0.072	0.54	10.1	24.5	3.34	1400	9.56	2.02	2.7	103.5	420	2.8	26.6
H754807		0.10	2.2	0.060	0.13	14.6	16.4	3.33	976	55.1	2.63	3.7	35.8	510	2.9	3.7
H754808		0.06	1.7	0.059	0.32	12.2	17.1	4.32	1090	13.55	2.08	2.9	99.3	450	2.1	12.5
H754809		0.13	1.9	0.061	1.74	12.9	39.9	4.00	1020	4.14	2.08	4.0	125.0	620	2.1	84.5
H754810		0.08	2.2	0.058	0.54	10.8	27.2	6.64	1200	5.81	1.58	3.7	312	480	2.0	26.2
H754811		0.05	1.2	0.045	0.47	5.5	17.6	3.41	1230	5.07	1.77	2.5	128.0	360	2.7	22.3
H754812		0.06	0.9	0.093	0.11	3.0	7.5	3.03	1810	57.6	0.91	2.0	111.5	280	3.0	2.0

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130996

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	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.1
H754773		0.002	0.12	0.44	42.7	2	0.5	130.5	0.15	0.08	0.2	0.516	<0.02	0.1	254	0.7
H754774		0.002	0.19	0.41	44.7	<1	0.5	126.0	0.16	0.05	0.2	0.546	<0.02	0.1	268	0.6
H754775		0.002	0.09	0.35	49.6	<1	0.6	135.0	0.17	0.11	0.3	0.544	<0.02	0.1	265	0.6
H754776		0.002	0.25	0.89	41.5	1	0.5	150.0	0.14	0.08	0.2	0.443	0.04	0.1	219	0.6
H754777		0.002	0.13	0.88	40.1	<1	0.6	346	0.16	<0.05	2.0	0.530	0.15	0.6	261	0.6
H754778		0.002	0.22	0.50	41.0	2	0.6	297	0.16	0.08	0.7	0.504	0.36	0.2	247	0.9
H754779		<0.002	0.14	0.22	28.6	<1	0.9	988	0.23	<0.05	8.2	0.410	0.67	2.5	176	0.6
H754780		<0.002	0.14	0.21	27.2	<1	0.9	1025	0.22	<0.05	8.0	0.392	0.71	2.4	168	0.6
H754781		<0.002	0.20	0.24	37.3	<1	1.0	923	0.26	0.07	9.8	0.481	0.66	2.7	210	0.7
H754782		0.002	0.18	0.34	45.1	2	0.5	212	0.16	0.10	0.3	0.563	0.12	0.1	277	0.9
H754783		<0.002	0.34	0.42	36.7	1	0.5	114.0	0.13	0.15	0.2	0.445	0.16	0.1	219	0.5
H754784		0.002	0.26	0.31	38.0	<1	0.5	133.5	0.13	0.05	0.2	0.459	<0.02	0.1	226	0.5
H754785		0.003	0.29	0.38	52.6	1	0.6	137.5	0.17	0.09	0.3	0.571	0.02	0.1	273	0.5
H754786		0.003	0.12	0.43	47.7	<1	0.6	124.5	0.16	0.10	0.2	0.538	<0.02	0.1	261	0.5
H754787		0.002	0.13	0.56	52.4	1	0.6	118.5	0.17	0.11	0.3	0.559	<0.02	0.1	278	0.6
H754788		0.002	0.13	0.40	44.8	<1	0.5	114.5	0.16	<0.05	0.2	0.518	<0.02	0.1	254	0.8
H754789		<0.002	0.21	0.27	40.8	<1	0.7	167.0	0.20	0.09	0.6	0.546	0.08	0.1	240	2.1
H754790		0.003	0.07	0.46	45.3	1	0.6	193.5	0.17	0.08	0.3	0.571	0.10	0.1	271	0.8
H754791		0.003	0.16	0.43	47.7	<1	0.7	209	0.17	0.15	0.3	0.556	0.05	0.1	260	3.2
H754792		0.002	0.17	0.29	43.9	<1	0.6	160.5	0.16	0.13	0.3	0.538	0.05	0.1	253	1.0
H754793		0.002	0.29	0.24	39.8	<1	0.4	181.0	0.15	0.17	0.3	0.483	0.09	0.1	227	2.8
H754794		0.002	0.12	0.65	41.7	1	0.5	201	0.14	0.09	0.2	0.528	<0.02	0.1	256	1.9
H754795		0.002	0.10	0.57	48.2	<1	0.5	129.5	0.16	0.11	0.3	0.548	<0.02	0.1	262	3.5
H754796																
H754797		<0.002	0.07	0.39	43.5	<1	0.5	101.0	0.14	0.06	0.2	0.502	<0.02	0.1	247	0.5
H754798		0.002	0.05	0.60	45.8	<1	0.5	116.5	0.15	0.05	0.2	0.551	<0.02	0.1	270	0.7
H754799		<0.002	0.22	0.54	40.4	2	0.5	118.5	0.15	0.12	0.2	0.494	<0.02	0.1	242	0.9
H754800		0.002	0.33	0.49	45.6	<1	0.5	164.0	0.16	0.23	0.3	0.525	<0.02	0.1	251	3.4
H754801		0.003	0.33	0.56	48.6	<1	0.8	185.5	0.16	0.21	0.2	0.512	0.04	0.1	254	23.5
H754802		<0.002	1.05	0.14	31.7	1	0.6	259	0.13	0.76	2.2	0.418	0.34	0.6	195	20.0
H754803		<0.002	0.37	0.44	37.0	2	0.5	191.0	0.15	0.20	0.2	0.479	0.03	0.1	235	3.0
H754804		<0.002	0.15	0.65	38.5	<1	0.5	168.5	0.14	0.14	0.2	0.503	<0.02	0.1	247	4.5
H754805		<0.002	1.30	0.35	33.6	6	0.6	250	0.13	1.03	0.2	0.425	0.07	0.1	219	97.9
H754806		0.010	0.34	0.39	35.0	1	0.6	348	0.19	0.31	1.5	0.505	0.13	0.4	223	19.3
H754807		0.029	0.03	0.41	30.7	1	0.7	492	0.26	<0.05	2.7	0.606	0.02	0.7	160	3.8
H754808		0.008	0.15	0.36	30.2	<1	0.9	359	0.20	0.24	2.1	0.635	0.05	0.5	196	1.9
H754809		0.003	0.30	0.28	24.3	2	0.6	337	0.25	0.07	1.9	0.685	0.51	0.4	173	1.5
H754810		0.005	0.07	0.24	32.9	<1	0.8	292	0.23	0.11	1.7	0.682	0.11	0.5	189	1.6
H754811		0.006	0.30	0.27	34.2	1	0.5	361	0.16	1.46	0.7	0.547	0.10	0.2	211	4.0
H754812		0.045	1.00	0.64	36.7	4	0.9	225	0.14	0.33	0.2	0.460	<0.02	0.3	220	24.1

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130996

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H754773		19.9	98	29.7
H754774		20.4	90	38.0
H754775		22.4	96	24.9
H754776		21.2	82	24.8
H754777		20.4	96	52.3
H754778		20.6	87	26.3
H754779		18.8	80	133.5
H754780		17.7	78	137.0
H754781		23.2	92	140.0
H754782		20.7	100	27.0
H754783		18.6	91	25.1
H754784		18.7	90	24.5
H754785		21.9	93	34.0
H754786		21.9	99	25.3
H754787		22.7	93	40.1
H754788		23.7	101	32.1
H754789		21.3	111	23.3
H754790		23.3	87	33.0
H754791		24.0	88	32.2
H754792		21.8	90	27.4
H754793		18.8	96	21.1
H754794		18.7	94	16.0
H754795		21.8	91	29.5
H754796				
H754797		19.5	93	18.9
H754798		21.0	100	25.7
H754799		18.5	90	22.2
H754800		21.0	98	30.1
H754801		22.5	94	19.2
H754802		15.5	78	47.5
H754803		16.9	90	19.0
H754804		18.2	91	20.7
H754805		15.2	205	14.5
H754806		17.4	86	34.8
H754807		14.8	68	76.6
H754808		14.3	80	49.1
H754809		15.3	86	69.1
H754810		15.1	105	74.5
H754811		15.9	76	38.0
H754812		18.4	107	26.2

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130996

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H754813		0.05	8.28	1.4	40	0.19	0.22	9.78	0.11	8.00	46.8	163	0.24	78.0	7.72	18.35
H754814		0.04	8.44	1.4	50	0.21	0.20	9.90	0.08	6.68	45.0	168	0.25	75.0	7.64	17.75
H754815		0.10	8.23	<0.2	180	0.21	0.08	7.97	0.09	6.81	51.1	173	1.92	82.6	7.93	16.75
H754816		0.04	7.99	0.6	90	0.18	0.08	8.09	0.07	6.39	49.6	171	0.56	40.3	8.01	16.40
H754817		0.07	8.54	0.6	30	0.20	0.12	8.66	0.09	7.32	51.6	175	0.15	79.6	8.54	17.85
H754818		0.06	8.85	1.2	120	0.27	0.05	7.86	0.10	8.45	41.9	209	0.77	116.0	7.63	19.35
H754819		0.09	8.16	<0.2	240	0.37	0.03	6.11	0.08	7.18	46.9	194	2.49	110.0	7.37	16.80
H754820		0.04	7.67	1.0	170	0.33	0.03	9.51	0.08	6.68	43.8	156	1.25	68.5	7.45	17.10
H754821																
H754822		0.03	8.01	0.7	290	0.50	0.02	7.36	0.08	8.14	38.5	177	2.01	73.5	6.79	17.50
H754823		0.04	7.68	<0.2	490	0.85	0.02	3.65	0.03	38.4	12.2	36	3.34	27.1	3.14	18.75
H754824		0.04	8.54	1.2	130	0.21	0.02	7.82	0.07	7.89	46.0	203	0.76	92.0	7.74	17.75
H754825		0.07	9.02	1.4	170	0.28	0.01	9.08	0.09	8.09	43.8	192	1.44	128.5	7.34	19.45
H754826		0.04	9.26	1.5	220	0.26	0.01	8.77	0.08	7.53	45.1	202	1.22	112.5	7.21	19.25
H754827		0.07	8.73	1.2	70	0.23	0.02	8.37	0.12	8.01	48.7	198	0.31	166.0	8.15	19.05
H754828		0.05	8.35	1.4	90	0.24	0.02	9.17	0.09	8.14	52.2	180	0.36	117.0	8.05	18.70
H754829		0.05	8.07	7	70	0.22	0.01	10.45	0.10	7.65	49.9	171	0.28	102.0	7.93	17.95
H754830		0.05	8.21	1.2	40	0.20	0.01	8.50	0.10	7.49	49.3	177	0.13	103.0	8.48	17.95
H754831		0.06	7.63	9	130	0.28	0.02	10.65	0.09	8.41	40.1	153	0.73	127.0	6.97	15.70
H754832		0.06	8.23	1.4	130	0.28	0.03	8.32	0.13	12.85	47.7	163	0.71	123.5	7.86	19.75
H754833		0.05	8.20	1.4	260	0.51	0.06	7.38	0.10	30.0	41.5	122	1.53	113.0	6.98	19.90
H754834		0.09	7.25	<5	60	0.30	0.09	10.65	0.12	12.00	50.3	161	0.16	162.0	7.47	17.15
H754835		0.07	8.31	1.3	50	0.24	0.07	9.02	0.13	8.07	51.5	204	<0.05	122.5	8.49	18.65
H754836		0.05	8.26	1.7	100	0.31	0.19	8.74	0.11	8.15	52.3	202	0.53	132.5	8.39	18.35
H754837		0.01	7.57	0.6	710	0.81	0.19	2.96	0.05	34.3	8.9	31	3.13	15.3	2.65	21.5
H754838		<0.01	7.89	0.5	660	0.91	0.21	2.90	0.05	37.2	9.2	37	3.75	15.9	2.69	21.6
H754839		0.07	8.45	5	150	0.28	0.07	10.15	0.12	11.60	52.4	173	1.08	142.0	7.81	19.15
H754840		0.06	7.74	<5	50	0.21	0.04	13.45	0.19	7.61	48.9	148	0.07	122.0	6.92	16.80
H754841		0.05	7.68	<5	40	0.25	0.04	12.30	0.11	7.57	49.1	156	<0.05	113.0	7.69	16.85
H754842		0.03	7.74	<5	30	0.25	0.06	12.65	0.08	7.50	46.2	165	<0.05	83.2	6.96	16.40
H754843		0.03	8.66	<5	70	0.27	0.07	12.05	0.14	8.75	53.7	177	0.26	96.9	8.08	18.70
H754844		0.03	7.95	0.8	670	1.03	0.02	4.36	0.10	52.9	24.2	95	2.43	47.3	4.43	21.7
H754845		<0.01	7.93	0.8	750	1.17	0.03	4.14	0.06	58.1	23.7	101	3.61	36.4	4.32	22.7
H754846																
H754847		<0.01	7.58	0.6	840	1.14	0.02	3.53	0.04	56.2	23.8	106	5.92	27.0	4.34	22.5

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130996

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.1
H754813		0.07	1.0	0.056	0.16	3.1	9.6	3.51	1660	4.06	0.88	2.3	136.0	300	2.4	4.3
H754814		0.06	1.0	0.062	0.18	2.7	11.2	3.97	1620	1.09	1.23	2.0	140.5	270	2.4	5.0
H754815		0.13	0.8	0.054	0.49	2.7	22.9	4.67	1470	0.35	1.20	2.0	139.0	280	1.8	24.9
H754816		0.12	0.8	0.055	0.29	2.5	19.0	4.27	1520	0.34	1.11	1.9	134.5	260	1.7	11.7
H754817		0.12	0.8	0.067	0.17	2.9	12.5	3.22	1640	0.27	1.11	2.2	138.5	290	2.0	2.8
H754818		0.05	1.2	0.064	0.23	3.3	12.9	2.72	1380	0.20	1.97	2.4	119.5	290	2.7	9.8
H754819		0.11	0.5	0.052	0.58	2.9	25.3	3.00	1280	0.44	2.02	2.2	120.0	230	2.1	30.9
H754820		0.05	0.6	0.062	0.35	2.6	17.9	2.80	1480	0.29	1.44	1.9	119.5	250	2.1	16.9
H754821																
H754822		0.06	0.7	0.063	0.54	3.4	20.4	3.18	1370	0.27	1.79	2.2	100.0	170	2.3	27.2
H754823		0.11	3.0	0.032	0.85	19.1	15.8	1.04	605	1.02	3.36	4.1	24.1	640	4.4	30.8
H754824		0.07	0.6	0.064	0.36	3.1	10.2	2.75	1500	0.39	1.50	2.2	125.5	260	1.9	11.9
H754825		0.07	0.9	0.069	0.42	3.2	11.2	2.78	1520	0.32	1.54	2.4	120.5	230	2.0	19.4
H754826		0.06	0.6	0.064	0.43	2.9	12.8	2.43	1520	0.37	1.56	2.3	121.0	240	1.8	16.0
H754827		0.05	0.8	0.072	0.22	3.1	9.5	2.80	1520	0.51	1.30	2.3	134.0	280	2.5	4.6
H754828		0.07	1.1	0.069	0.22	3.2	10.7	2.97	1640	4.36	1.38	2.3	139.5	290	1.8	5.3
H754829		0.07	1.0	0.059	0.19	3.0	14.9	3.07	1840	1.01	1.25	2.1	135.5	260	1.5	4.6
H754830		0.06	1.1	0.066	0.18	3.0	7.9	3.33	1560	0.33	1.19	2.2	139.5	290	1.5	1.7
H754831		0.05	1.0	0.059	0.23	3.4	12.2	3.63	1620	0.31	1.35	2.0	111.0	280	1.6	7.8
H754832		0.07	0.9	0.065	0.26	5.7	10.8	2.97	1630	0.65	1.52	2.5	129.0	340	2.3	6.7
H754833		0.08	1.6	0.057	0.40	15.1	12.0	2.78	1410	0.68	2.06	3.0	99.6	510	3.6	15.2
H754834		0.07	1.1	0.065	0.17	5.4	8.8	2.73	2200	0.78	1.36	2.2	133.5	290	2.2	2.0
H754835		0.08	1.3	0.069	0.17	3.2	9.7	2.99	1550	0.76	1.39	2.3	140.5	290	1.4	1.2
H754836		0.07	1.1	0.067	0.26	3.2	9.3	2.82	1680	4.69	1.83	2.3	141.5	280	2.5	6.1
H754837		0.06	2.9	0.026	1.23	16.0	17.0	0.82	509	0.74	3.70	3.9	20.1	560	9.8	42.4
H754838		0.07	3.0	0.031	1.17	18.4	16.9	0.86	493	1.24	3.64	4.0	20.1	570	9.9	46.3
H754839		0.07	1.3	0.068	0.32	5.1	7.1	2.82	1690	0.51	1.39	2.5	143.5	330	2.0	14.1
H754840		0.12	0.8	0.060	0.13	2.9	9.1	2.10	2310	0.48	1.34	2.0	129.0	250	1.7	1.1
H754841		0.11	0.9	0.063	0.13	2.8	7.1	2.74	2060	0.36	1.15	2.0	131.0	260	1.3	0.6
H754842		0.11	1.0	0.059	0.12	2.8	6.6	2.29	2140	0.39	1.19	2.0	125.0	250	1.6	0.6
H754843		0.13	1.2	0.075	0.23	3.4	7.4	2.69	1970	0.56	1.35	2.4	144.0	280	2.0	4.3
H754844		0.13	3.2	0.039	1.20	28.9	23.2	2.29	763	0.28	2.89	3.8	80.4	660	5.4	38.6
H754845		0.13	3.6	0.040	1.44	31.3	26.0	2.42	728	0.72	3.05	4.1	88.0	680	5.9	41.8
H754846																
H754847		0.13	3.5	0.035	1.70	29.2	33.6	2.43	668	0.52	2.93	4.1	93.3	720	5.6	47.7

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130996

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	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.1
H754813		0.004	0.21	0.62	41.7	<1	0.6	179.0	0.16	0.11	0.3	0.521	<0.02	0.1	250	2.1
H754814		0.002	0.18	0.50	41.7	<1	0.5	194.5	0.14	0.06	0.2	0.491	0.02	0.1	248	1.7
H754815		<0.002	0.08	0.34	39.0	1	0.4	167.0	0.15	<0.05	0.2	0.486	0.14	0.1	243	1.0
H754816		<0.002	0.08	0.44	38.0	1	0.4	144.5	0.14	<0.05	0.2	0.474	0.06	<0.1	243	0.9
H754817		<0.002	0.12	0.59	40.7	2	0.6	148.5	0.15	0.06	0.2	0.528	<0.02	0.1	260	1.2
H754818		<0.002	0.25	0.28	44.4	1	0.7	185.5	0.17	0.08	0.2	0.546	0.04	0.1	261	0.9
H754819		<0.002	0.12	0.06	37.7	2	0.5	169.5	0.16	<0.05	0.2	0.525	0.16	0.1	242	1.0
H754820		<0.002	0.09	0.20	36.9	<1	0.5	181.0	0.14	0.05	0.2	0.465	0.08	0.1	236	1.2
H754821																
H754822		<0.002	0.05	0.15	42.8	<1	0.6	217	0.15	<0.05	0.2	0.514	0.12	0.1	253	1.3
H754823		<0.002	0.01	0.11	7.4	1	0.7	431	0.26	<0.05	3.8	0.295	0.19	1.1	56	0.7
H754824		0.002	0.08	0.35	40.2	<1	0.6	153.0	0.15	<0.05	0.3	0.538	0.05	0.1	263	0.7
H754825		0.002	0.06	0.41	45.5	<1	0.6	169.5	0.16	0.08	0.3	0.566	0.07	0.1	278	0.6
H754826		<0.002	0.10	0.35	42.9	<1	0.6	175.5	0.16	0.07	0.3	0.585	0.08	0.1	289	0.7
H754827		<0.002	0.07	0.43	43.1	<1	0.6	134.0	0.16	<0.05	0.3	0.540	<0.02	0.1	263	0.6
H754828		0.003	0.11	0.40	44.9	<1	0.6	148.5	0.16	0.08	0.3	0.522	<0.02	0.1	251	1.5
H754829		<0.002	0.07	0.30	42.2	<1	0.5	115.0	0.14	<0.05	0.2	0.489	<0.02	0.1	241	1.7
H754830		<0.002	0.04	0.41	42.4	<1	0.5	112.5	0.15	<0.05	0.2	0.508	<0.02	0.1	248	0.6
H754831		<0.002	0.12	0.21	37.9	<1	0.5	142.0	0.13	<0.05	0.5	0.464	0.03	0.1	228	0.6
H754832		0.002	0.09	0.35	43.9	<1	0.6	191.0	0.16	0.06	0.7	0.505	0.03	0.2	249	0.5
H754833		<0.002	0.17	0.31	35.3	<1	0.6	349	0.19	0.15	2.5	0.434	0.07	0.6	210	0.4
H754834		0.002	0.28	0.59	38.6	1	0.5	171.0	0.15	0.19	0.7	0.436	<0.02	0.2	215	0.4
H754835		<0.002	0.16	0.51	45.0	<1	0.6	149.5	0.16	0.09	0.3	0.514	<0.02	0.1	250	0.5
H754836		<0.002	0.34	0.52	44.5	1	0.6	199.0	0.16	0.16	0.3	0.518	0.02	0.1	251	0.7
H754837		<0.002	0.08	0.14	5.6	<1	0.7	692	0.27	<0.05	3.5	0.238	0.28	1.1	40	0.5
H754838		<0.002	0.08	0.09	6.7	<1	0.7	658	0.28	<0.05	3.8	0.250	0.30	1.2	46	0.4
H754839		<0.002	0.12	0.52	41.8	1	0.6	183.0	0.18	0.10	0.7	0.506	0.06	0.2	246	0.4
H754840		0.002	0.10	0.58	40.2	1	0.5	131.0	0.15	0.08	0.2	0.470	<0.02	0.1	231	0.5
H754841		0.002	0.10	0.52	40.4	1	0.5	123.5	0.14	0.05	0.2	0.468	<0.02	0.1	228	0.4
H754842		0.002	0.09	0.65	38.9	1	0.5	133.0	0.15	0.08	0.2	0.475	<0.02	0.1	233	0.3
H754843		<0.002	0.14	0.57	45.4	1	0.7	182.5	0.16	0.07	0.3	0.538	0.03	0.1	261	0.6
H754844		<0.002	0.05	0.30	14.8	1	0.8	693	0.25	0.05	5.6	0.390	0.18	1.4	107	0.4
H754845		<0.002	0.07	0.20	14.0	1	0.7	772	0.25	<0.05	6.0	0.382	0.19	1.4	100	0.5
H754846																
H754847		<0.002	0.04	0.11	13.4	1	0.7	661	0.26	<0.05	5.5	0.373	0.24	1.4	98	0.9

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130996

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H754813		19.6	92	25.3
H754814		15.8	93	28.9
H754815		16.1	80	25.3
H754816		16.5	82	24.1
H754817		18.5	91	24.9
H754818		20.5	73	35.4
H754819		17.6	85	17.8
H754820		17.1	82	19.8
H754821				
H754822		20.3	94	19.0
H754823		9.2	54	103.5
H754824		17.9	89	17.8
H754825		19.6	85	15.5
H754826		18.2	85	16.6
H754827		20.1	94	22.2
H754828		21.1	90	31.5
H754829		20.7	95	28.3
H754830		19.8	97	35.5
H754831		17.2	85	33.3
H754832		20.3	95	29.3
H754833		17.0	83	55.7
H754834		18.7	90	33.1
H754835		21.0	101	36.1
H754836		21.2	101	32.9
H754837		7.5	63	101.0
H754838		8.2	64	102.0
H754839		19.6	90	41.3
H754840		16.8	91	18.6
H754841		17.6	95	22.7
H754842		18.1	88	23.5
H754843		19.8	120	27.4
H754844		10.7	84	101.0
H754845		10.6	84	114.0
H754846				
H754847		10.2	84	111.0

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 23-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130996

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

CERTIFICATE TB09131513

Project: Thorne Lake

P.O. No.:

This report is for 133 Pulp samples submitted to our lab in Thunder Bay, ON, Canada on 13-NOV-2009.

The following have access to data associated with this certificate:

STEVE VAN HAAFTEN	THOMAS HART	MATT SOOLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS

To: **NORTHERN SUPERIOR RESOURCES INC**
ATTN: THOMAS HART
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131513

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H754848		0.06	7.02	0.6	750	1.07	0.06	3.10	0.03	45.1	19.4	98	8.24	36.6	3.15	22.0
H754849		0.04	7.30	0.2	700	1.15	0.13	2.92	0.04	44.5	16.5	86	7.30	13.9	2.87	22.9
H754850		0.03	7.14	<0.2	740	1.22	0.06	2.70	0.03	45.1	14.7	79	6.35	11.4	2.67	21.3
H754851		0.03	7.05	0.5	750	1.23	0.05	2.66	0.03	43.2	14.5	77	5.63	12.2	2.69	20.4
H754852		0.03	7.12	1.3	660	1.18	0.05	2.91	0.04	50.5	15.4	83	5.16	5.5	2.77	19.85
H754853		0.04	7.05	<0.2	730	1.35	0.09	2.64	0.02	51.0	13.9	73	5.39	10.6	2.71	20.1
H754854		0.02	6.94	0.3	780	1.52	0.07	2.43	0.03	44.8	13.6	73	5.88	9.4	2.53	19.85
H754855		0.02	6.92	0.5	420	1.49	0.04	2.35	0.04	46.4	12.8	62	2.82	6.0	2.31	17.25
H754856		0.03	7.11	<0.2	730	1.34	0.07	2.56	0.03	38.8	13.2	74	3.79	9.9	2.65	19.20
H754857		0.05	7.21	0.6	680	1.46	0.06	2.40	0.03	40.6	14.0	77	3.22	17.0	2.64	20.0
H754858		0.04	7.07	0.3	730	1.50	0.08	2.78	0.04	43.7	15.3	82	3.26	13.4	2.78	20.2
H754859		0.03	7.37	1.2	730	1.43	0.05	2.59	0.03	52.8	14.3	76	2.52	4.3	2.59	19.85
H754860		0.04	7.17	1.1	740	1.39	0.10	2.59	0.03	50.4	14.9	84	2.81	11.8	2.73	20.7
H754861		0.03	7.39	0.7	830	1.39	0.07	2.73	0.03	48.2	13.8	71	2.56	4.4	2.75	20.0
H754862		0.03	7.18	1.0	800	1.41	0.08	2.36	0.03	45.9	12.1	59	2.10	49.3	2.45	19.70
H754863		0.04	7.35	1.4	880	1.39	0.10	2.18	0.04	46.1	14.2	68	2.59	10.3	2.59	20.5
H754864		0.05	7.06	0.2	740	1.22	0.08	2.45	0.03	53.6	13.8	68	2.42	10.3	2.57	19.85
H754865		0.15	7.05	0.2	770	1.13	0.21	2.42	0.04	45.7	14.1	73	2.44	64.5	2.78	20.2
H754866		0.07	7.18	0.2	750	1.44	0.08	2.44	0.03	44.2	12.4	69	2.33	9.0	2.55	20.2
H754867		0.05	7.04	0.4	770	1.31	0.05	2.48	0.04	52.1	12.3	71	2.38	9.9	2.61	20.1
H754868		0.04	7.11	<0.2	770	1.19	0.05	2.45	0.04	49.1	12.3	67	2.27	12.3	2.57	19.85
H754869		0.03	7.26	<0.2	780	1.27	0.06	2.59	0.04	47.6	12.3	67	2.24	20.2	2.63	19.80
H754870		0.05	7.35	<0.2	800	1.42	0.07	2.61	0.04	45.5	13.3	71	2.35	16.4	2.68	20.6
H754871																
H754872		0.04	7.52	<0.2	780	1.34	0.14	2.55	0.05	41.6	12.1	62	2.21	7.4	2.54	19.65
H754873		0.04	7.42	<0.2	800	1.32	0.05	2.44	0.04	45.7	12.6	59	2.51	7.1	2.56	20.5
H754874		0.03	7.34	<0.2	770	1.25	0.04	2.89	0.04	43.2	12.8	62	2.93	5.8	2.55	19.65
H754875		0.03	7.36	<0.2	760	1.17	0.05	2.62	0.03	41.8	13.0	69	2.53	8.2	2.70	19.90
H754876		0.03	7.26	0.7	710	1.31	0.08	2.73	0.05	42.9	12.9	68	2.26	15.2	2.60	20.2
H754877		0.05	7.59	0.2	860	1.35	0.05	2.97	0.05	45.2	15.3	83	3.10	18.9	2.93	20.8
H754878		0.08	7.33	0.7	880	1.59	0.08	3.04	0.04	48.6	16.4	88	3.30	20.8	3.13	18.95
H754879		0.11	7.25	0.3	550	1.31	0.05	5.57	0.06	52.7	18.5	107	2.56	33.0	6.34	16.90
H754880		0.11	6.60	4.7	90	0.79	0.09	9.86	0.06	41.3	21.5	27	0.56	44.2	7.41	17.95
H754881		0.25	6.26	2.5	340	0.75	0.08	4.54	0.07	33.5	20.5	27	2.88	260	8.36	13.20
H754882		0.06	7.04	0.9	570	1.50	<0.01	2.91	0.03	50.0	11.7	53	2.91	14.1	3.09	18.50
H754883		0.14	6.90	<0.2	470	1.23	0.08	4.32	0.09	55.0	26.7	196	3.15	63.8	6.26	16.25
H754884		0.12	7.51	0.5	770	1.34	0.09	4.23	0.07	57.9	30.2	244	4.63	57.2	4.69	17.05
H754885		0.12	7.64	0.5	770	1.43	0.10	4.18	0.07	63.8	32.7	256	4.98	45.1	4.78	18.30
H754886		0.15	7.46	0.2	750	1.37	0.11	4.15	0.08	59.3	31.1	246	4.23	63.6	4.58	17.55
H754887		0.05	7.55	<0.2	760	1.31	0.05	2.73	0.04	46.0	12.7	68	3.03	10.9	2.62	19.55

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131513

Sample Description	Method / Analyte / Units / LOR	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	ME-MS61 Rb ppm 0.1
H754848		0.15	2.2	0.021	1.99	20.4	27.3	1.78	510	0.47	3.13	2.6	72.0	580	7.7	59.8
H754849		0.17	2.2	0.022	1.79	20.4	26.1	1.55	457	0.27	3.30	2.6	61.1	600	10.3	51.5
H754850		0.16	2.2	0.016	1.74	21.0	24.9	1.42	423	0.36	3.34	3.1	55.4	540	9.6	54.9
H754851		0.17	2.1	0.019	1.75	20.1	26.1	1.42	434	0.21	3.31	2.9	54.4	540	9.0	52.2
H754852		0.17	2.2	0.014	1.70	24.3	25.0	1.49	472	0.15	3.35	2.6	58.0	550	7.8	53.1
H754853		0.20	2.1	0.016	1.77	24.7	25.5	1.51	451	0.20	3.18	2.7	53.7	520	7.3	56.3
H754854		0.17	2.2	0.018	1.77	20.9	23.8	1.39	415	0.28	3.34	3.3	53.8	520	8.2	52.3
H754855		0.17	2.4	0.016	1.38	22.4	16.5	1.26	365	0.32	3.33	2.0	49.3	510	7.2	42.7
H754856		0.15	2.1	0.016	1.69	18.1	23.7	1.43	433	2.54	3.16	3.9	51.4	530	8.9	49.4
H754857		0.16	2.2	0.021	1.73	19.4	30.7	1.47	426	0.37	2.92	4.1	54.3	550	10.3	48.8
H754858		0.20	2.2	0.019	1.71	19.9	25.8	1.52	463	0.32	3.27	4.1	57.4	580	9.6	49.7
H754859		0.19	2.2	0.015	1.68	25.0	30.0	1.43	429	0.16	2.99	4.0	53.0	530	8.8	49.2
H754860		0.19	2.3	0.020	1.75	23.9	29.4	1.49	441	0.19	3.13	4.3	57.0	550	10.2	54.7
H754861		0.19	2.2	0.020	1.71	21.6	26.5	1.43	497	0.38	3.35	3.7	49.4	590	9.1	51.3
H754862		0.16	2.5	0.016	1.55	21.9	27.2	1.14	412	0.45	3.35	4.4	36.8	550	9.6	46.2
H754863		0.17	2.4	0.018	1.96	23.1	34.5	1.38	433	0.30	3.01	4.9	49.0	600	9.5	62.1
H754864		0.18	2.2	0.019	1.67	26.7	26.7	1.35	424	33.2	3.15	4.2	48.5	560	10.0	56.2
H754865		0.22	2.1	0.025	1.82	20.5	31.9	1.51	447	0.51	2.91	3.7	53.8	540	10.6	60.5
H754866		0.21	2.2	0.027	1.68	20.6	31.5	1.38	422	0.45	3.12	3.6	48.7	550	10.8	54.5
H754867		0.23	2.2	0.026	1.65	25.1	28.8	1.36	434	0.33	3.14	3.3	47.6	560	10.8	54.1
H754868		0.24	2.2	0.024	1.71	23.7	31.4	1.34	422	1.00	3.09	3.1	46.4	550	10.3	53.4
H754869		0.24	2.2	0.029	1.71	22.3	29.0	1.35	421	0.49	3.23	3.1	44.8	580	9.8	52.6
H754870		0.24	2.3	0.025	1.83	21.6	31.4	1.42	444	0.30	3.19	3.2	50.8	580	9.8	55.4
H754871																
H754872		0.22	2.2	0.033	1.69	19.9	29.3	1.32	413	0.34	3.15	3.1	43.6	560	9.8	51.0
H754873		0.25	2.2	0.029	1.81	22.4	34.8	1.32	412	5.93	3.03	3.1	45.4	570	9.3	56.4
H754874		0.26	2.2	0.033	2.19	21.5	43.1	1.42	417	0.33	2.68	3.0	45.6	580	9.1	58.3
H754875		0.19	2.1	0.024	1.94	20.1	33.8	1.43	433	0.30	3.11	3.1	48.4	610	10.5	53.7
H754876		0.23	2.2	0.027	1.50	20.4	25.4	1.36	430	5.50	3.43	3.2	48.3	590	10.6	46.9
H754877		0.28	2.1	0.026	1.81	22.0	32.0	1.63	477	0.36	3.19	3.2	61.3	620	11.9	58.9
H754878		0.26	2.9	0.031	1.84	23.5	33.3	1.76	576	3.97	3.33	4.1	42.2	780	9.4	61.1
H754879		0.24	2.4	0.053	1.26	25.9	19.5	2.74	1820	2.04	2.11	4.9	75.2	690	8.3	46.7
H754880		0.14	3.1	0.130	0.32	19.6	8.8	1.35	3430	6.47	0.46	7.2	21.9	740	4.4	16.4
H754881		0.18	2.3	0.071	1.28	15.9	15.6	1.30	2490	11.30	0.76	4.5	33.7	650	5.2	52.6
H754882		0.22	2.6	0.025	1.22	24.1	18.1	1.24	1060	0.56	3.12	5.0	41.4	550	7.5	44.7
H754883		0.26	2.6	0.037	1.12	28.0	19.6	3.75	1520	26.5	1.99	5.0	160.5	580	9.0	49.4
H754884		0.23	2.5	0.037	1.54	29.9	23.0	4.24	810	6.48	2.58	4.8	188.5	720	11.5	67.7
H754885		0.26	2.6	0.045	1.47	32.7	25.5	4.40	807	4.27	2.56	5.4	205	700	13.3	67.8
H754886		0.26	2.7	0.043	1.44	30.5	25.6	4.08	766	0.98	2.65	4.8	191.0	670	11.3	55.9
H754887		0.22	2.2	0.027	1.22	22.6	21.9	1.32	415	4.10	3.76	3.0	48.2	580	10.9	45.6

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131513

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	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.1
H754848		<0.002	0.02	0.14	11.1	1	0.6	666	0.16	0.07	4.0	0.248	0.32	1.0	74	1.6
H754849		<0.002	0.03	0.15	9.1	1	0.6	875	0.17	<0.05	4.3	0.228	0.28	1.1	63	0.8
H754850		<0.002	0.03	0.13	8.3	1	0.6	802	0.20	0.18	5.2	0.224	0.27	1.4	57	2.0
H754851		<0.002	0.01	0.14	8.4	1	0.6	741	0.18	0.05	4.7	0.223	0.27	1.3	58	3.4
H754852		<0.002	0.02	0.21	8.8	1	0.6	661	0.20	<0.05	5.8	0.226	0.25	1.7	58	1.0
H754853		<0.002	0.02	0.14	7.9	1	0.6	654	0.24	0.05	5.2	0.206	0.29	2.1	55	1.4
H754854		<0.002	0.04	0.17	7.8	1	0.5	699	0.39	0.08	5.2	0.213	0.31	2.5	53	1.0
H754855		0.002	0.21	0.22	6.4	1	0.4	514	0.14	0.09	5.4	0.175	0.21	1.5	38	112.5
H754856		<0.002	0.01	0.16	7.1	1	0.5	752	0.28	0.05	4.3	0.228	0.30	1.5	56	1.5
H754857		<0.002	0.02	0.23	7.5	1	0.6	709	0.24	0.15	4.7	0.229	0.30	1.3	55	8.5
H754858		<0.002	<0.01	0.15	9.1	1	0.6	752	0.29	0.07	5.0	0.248	0.31	1.7	62	6.4
H754859		<0.002	<0.01	0.22	6.9	1	0.5	746	0.27	0.10	4.9	0.234	0.27	1.6	51	1.0
H754860		<0.002	<0.01	0.21	8.4	1	0.6	781	0.29	0.13	5.8	0.245	0.31	2.0	58	0.5
H754861		<0.002	<0.01	0.21	7.8	1	0.6	741	0.23	0.05	4.2	0.237	0.30	1.3	60	0.6
H754862		<0.002	0.01	0.19	7.3	1	0.6	761	0.27	0.05	5.5	0.211	0.26	1.6	51	0.8
H754863		<0.002	0.01	0.20	7.7	1	0.6	658	0.31	0.05	6.6	0.227	0.33	2.0	54	2.5
H754864		0.016	<0.01	0.18	7.9	1	0.6	773	0.23	0.06	6.2	0.231	0.31	1.3	55	0.5
H754865		<0.002	0.01	0.19	8.4	1	0.6	717	0.23	<0.05	4.2	0.253	0.32	1.0	61	0.7
H754866		<0.002	<0.01	0.18	7.6	1	0.6	745	0.24	<0.05	4.8	0.228	0.30	1.2	53	2.2
H754867		<0.002	<0.01	0.14	8.4	1	0.6	785	0.19	0.05	5.1	0.230	0.28	1.1	55	1.4
H754868		<0.002	<0.01	0.14	8.3	1	0.6	758	0.20	<0.05	4.9	0.228	0.27	1.1	54	2.2
H754869		<0.002	0.01	0.14	8.6	1	0.6	763	0.20	0.27	4.7	0.236	0.28	1.1	57	1.5
H754870		<0.002	<0.01	0.14	8.4	1	0.6	731	0.20	0.09	4.2	0.239	0.29	1.1	59	5.6
H754871																
H754872		<0.002	<0.01	0.14	7.6	1	0.5	807	0.19	0.14	3.7	0.229	0.27	1.0	54	0.8
H754873		0.002	<0.01	0.12	8.0	1	0.6	732	0.19	0.07	4.4	0.224	0.27	1.0	54	0.9
H754874		<0.002	<0.01	0.14	7.9	1	0.6	689	0.18	0.05	3.6	0.227	0.28	0.8	54	1.6
H754875		<0.002	<0.01	0.18	8.5	1	0.6	801	0.18	0.06	3.8	0.246	0.27	0.9	58	2.1
H754876		<0.002	0.02	0.18	8.3	1	0.6	808	0.20	0.06	4.0	0.239	0.26	1.0	56	3.0
H754877		<0.002	0.01	0.16	9.3	1	0.6	930	0.18	0.07	3.9	0.265	0.32	0.8	65	2.6
H754878		0.002	0.09	0.24	11.8	1	0.7	736	0.26	0.17	5.6	0.248	0.32	1.4	75	3.0
H754879		<0.002	0.04	0.38	13.7	1	0.8	728	0.32	0.11	4.3	0.307	0.19	1.1	79	4.2
H754880		0.002	0.28	0.75	15.5	2	1.4	244	0.54	0.49	3.3	0.380	0.05	0.8	69	14.7
H754881		0.010	1.07	0.46	11.2	3	1.2	263	0.37	0.24	2.4	0.309	0.24	0.6	69	9.2
H754882		<0.002	0.02	0.20	8.1	1	0.6	609	0.34	0.08	5.4	0.229	0.27	1.2	55	1.1
H754883		0.011	0.24	0.35	15.8	1	0.7	615	0.33	0.20	5.2	0.288	0.26	1.2	90	1.8
H754884		0.003	0.02	0.32	17.4	1	0.6	792	0.29	0.06	5.5	0.330	0.40	1.3	111	2.0
H754885		<0.002	0.02	0.42	18.6	1	0.7	825	0.32	0.13	5.8	0.341	0.44	1.4	114	2.3
H754886		<0.002	0.01	0.36	17.6	1	0.7	803	0.29	0.10	5.6	0.337	0.34	1.4	110	0.9
H754887		0.002	0.01	0.23	8.0	1	0.6	761	0.18	<0.05	4.2	0.231	0.26	1.1	57	3.9

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131513

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H754848		9.3	63	78.8
H754849		8.0	63	79.2
H754850		7.6	56	74.1
H754851		7.0	58	68.8
H754852		7.9	56	72.7
H754853		7.4	55	65.4
H754854		6.7	54	70.1
H754855		5.6	46	71.7
H754856		6.2	54	67.5
H754857		6.6	57	68.4
H754858		7.7	60	70.5
H754859		6.8	52	69.1
H754860		7.6	59	68.8
H754861		6.8	54	77.0
H754862		6.8	42	87.3
H754863		6.9	52	78.7
H754864		7.6	54	75.0
H754865		7.4	57	75.1
H754866		6.5	54	74.1
H754867		7.2	54	77.5
H754868		6.8	52	80.1
H754869		7.0	52	80.1
H754870		6.5	56	84.2
H754871				
H754872		5.9	49	77.9
H754873		6.3	47	79.3
H754874		6.0	49	78.8
H754875		6.3	58	81.0
H754876		6.3	55	79.8
H754877		6.7	60	75.5
H754878		8.0	53	107.0
H754879		11.1	86	85.7
H754880		21.5	89	100.0
H754881		14.1	99	85.6
H754882		8.2	50	94.7
H754883		11.9	80	98.4
H754884		10.1	74	94.0
H754885		10.9	77	93.6
H754886		10.3	73	100.0
H754887		6.2	48	80.8

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131513

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H754888		0.05	6.77	0.3	600	1.35	0.07	2.53	0.05	44.6	12.4	95	2.90	4.1	2.42	16.50
H754889		0.07	7.46	0.8	650	1.63	0.08	2.89	0.05	49.4	14.5	82	3.32	14.4	2.77	20.5
H754890		0.12	7.36	<0.2	660	1.57	0.08	4.17	0.08	58.3	29.6	232	3.23	54.2	4.42	16.85
H754891		0.10	7.52	0.2	810	1.37	0.05	4.17	0.06	58.6	31.0	245	4.77	23.4	4.62	17.05
H754892		0.08	7.48	0.6	650	1.36	0.04	4.08	0.07	57.6	30.3	258	2.88	22.6	4.70	16.55
H754893		0.13	7.28	0.3	630	1.33	0.07	4.27	0.07	55.1	30.2	236	3.60	47.1	4.52	16.50
H754894		0.13	8.01	0.9	1300	1.55	0.12	4.29	0.07	119.5	29.5	47	6.89	85.7	6.01	23.2
H754895		0.12	7.43	<0.2	780	1.42	0.06	3.95	0.08	57.0	30.3	249	4.70	47.2	4.56	16.80
H754896																
H754897		0.11	7.44	<0.2	670	1.38	0.10	4.09	0.07	54.0	29.8	209	4.11	49.4	4.59	17.15
H754898		0.08	7.55	<0.2	580	1.19	0.06	4.27	0.06	45.6	31.6	184	3.43	33.3	4.98	17.75
H754899		0.13	7.37	<0.2	630	1.00	0.04	4.45	0.05	46.7	33.8	194	3.91	79.8	5.27	17.25
H754900		0.12	7.56	<0.2	650	1.37	0.04	4.84	0.07	53.2	37.1	214	4.25	68.2	5.67	18.10
H754901		0.11	7.53	0.3	600	1.10	0.04	4.87	0.07	49.9	35.7	216	3.89	47.9	5.68	17.00
H754902		0.10	7.60	<0.2	660	1.24	0.05	4.96	0.08	50.4	37.2	232	4.05	54.8	5.89	17.40
H754903		0.04	7.56	<0.2	560	0.99	0.05	4.05	0.07	49.4	25.9	148	2.47	25.2	4.18	18.50
H754904		0.07	7.87	<0.2	690	0.94	0.05	4.83	0.06	48.6	37.1	214	3.50	50.3	5.78	20.4
H754905		0.04	7.68	0.2	590	0.85	0.05	4.98	0.08	47.0	37.7	240	3.81	52.9	5.90	18.90
H754906		0.05	7.33	<0.2	570	0.89	0.05	4.84	0.08	47.3	36.8	225	3.71	74.3	5.79	18.55
H754907		0.05	7.61	<0.2	620	0.87	0.05	5.04	0.07	50.5	41.1	238	4.05	64.0	6.02	19.95
H754908		0.05	7.56	0.2	620	0.89	0.05	4.86	0.06	48.0	38.6	224	3.89	59.8	5.84	19.30
H754909		0.04	8.25	0.5	680	0.87	0.06	5.34	0.07	48.9	40.1	248	4.14	75.0	6.34	20.2
H754910		0.07	7.92	0.3	660	1.03	0.07	5.10	0.07	50.9	40.1	226	4.02	50.4	6.18	20.0
H754911		0.07	6.87	<0.2	510	0.83	0.04	4.55	0.06	45.0	33.4	202	2.88	29.7	5.16	16.75
H754912		0.05	7.33	<0.2	560	0.87	0.05	4.72	0.26	46.0	37.7	241	3.22	70.0	5.80	18.40
H754913		0.07	7.42	<0.2	640	0.94	0.05	4.83	0.07	47.2	40.3	255	3.76	69.6	5.89	19.60
H754914		0.04	7.10	<0.2	650	0.76	0.03	5.31	0.06	43.7	39.4	256	3.84	45.5	5.99	18.10
H754915		0.12	7.07	0.3	490	0.77	0.07	4.95	0.08	43.9	40.5	255	2.89	67.8	5.98	18.35
H754916		0.08	8.00	0.7	700	0.90	0.08	5.22	0.09	49.1	43.3	287	4.26	39.1	6.76	20.5
H754917		0.06	7.58	0.3	650	1.07	0.05	5.21	0.09	53.1	40.1	270	3.71	68.3	6.19	19.50
H754918		0.05	7.54	<0.2	750	1.01	0.06	5.10	0.08	51.8	40.1	279	4.13	54.7	6.26	18.75
H754919		0.04	7.49	<0.2	870	0.97	0.07	4.81	0.07	50.8	39.6	266	4.45	54.9	6.21	19.35
H754920		0.05	7.56	<0.2	760	0.94	0.07	4.35	0.06	51.2	29.6	247	2.67	45.3	4.84	18.00
H754921																
H754922		0.15	7.50	<0.2	840	1.15	0.10	4.23	0.06	57.6	31.5	238	2.97	51.5	4.67	19.65
H754923		0.05	7.48	<0.2	820	1.20	0.10	4.26	0.07	56.4	31.0	239	3.17	38.4	4.69	19.30
H754924		0.09	7.49	<0.2	1260	1.34	0.04	4.99	0.08	59.1	32.1	183	6.86	69.8	5.44	20.0
H754925		0.05	7.75	<0.2	600	1.06	0.04	4.70	0.06	39.8	32.9	118	2.66	37.0	5.93	20.2
H754926		0.04	7.67	<0.2	610	0.74	<0.01	4.26	0.06	42.3	32.3	172	2.68	19.4	4.91	20.7
H754927		0.04	7.75	<0.2	540	0.75	<0.01	4.44	0.07	34.7	32.8	164	2.50	17.1	5.45	20.6

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131513

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Sample Description LOR	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	0.1
H754888	0.19	2.0	0.033	1.18	22.5	20.5	1.41	380	1.99	2.98	2.9	51.6	530	10.7	45.0
H754889	0.25	2.6	0.031	1.29	23.7	24.3	1.50	444	0.30	3.50	4.4	59.4	540	12.3	46.9
H754890	0.25	2.6	0.038	1.22	30.0	23.4	3.97	766	1.23	2.61	4.9	186.0	630	9.2	47.1
H754891	0.25	2.6	0.040	1.49	30.3	25.7	4.25	777	0.62	2.78	4.8	196.5	690	9.3	56.4
H754892	0.22	2.7	0.039	1.05	29.8	26.7	4.33	768	0.60	2.55	4.9	200	680	8.8	37.9
H754893	0.24	2.6	0.038	1.12	28.1	20.2	4.07	785	1.40	2.78	4.4	187.5	660	9.2	40.1
H754894	0.25	3.7	0.061	2.03	53.3	37.3	2.36	888	0.14	2.87	6.0	39.8	2340	12.8	89.1
H754895	0.22	2.7	0.038	1.48	29.4	24.1	4.16	813	8.06	2.90	4.6	192.5	650	9.1	57.9
H754896															
H754897	0.23	2.7	0.035	1.28	27.4	25.0	3.86	769	1.39	2.84	3.8	168.5	640	8.4	50.2
H754898	0.22	2.0	0.042	1.10	22.7	26.2	3.80	780	0.37	2.80	3.1	164.0	680	7.3	41.9
H754899	0.22	2.1	0.041	1.21	23.2	31.0	3.97	791	0.58	2.42	3.2	172.0	640	7.1	46.1
H754900	0.25	2.5	0.049	1.20	26.4	22.0	4.22	923	0.86	2.59	3.4	179.5	680	8.9	50.6
H754901	0.23	2.4	0.041	1.17	24.6	20.1	4.27	948	0.80	2.61	3.2	177.0	660	8.6	50.4
H754902	0.26	2.3	0.045	1.18	24.9	20.9	4.36	937	0.81	2.41	3.2	181.5	680	9.5	47.9
H754903	0.15	2.3	0.037	0.96	25.3	17.1	2.91	693	0.72	3.23	4.4	130.0	590	9.6	36.2
H754904	0.16	2.5	0.045	1.24	24.1	22.1	4.07	919	0.82	2.78	4.6	181.5	690	10.0	38.0
H754905	0.16	2.5	0.046	1.11	24.1	20.5	4.34	941	0.83	2.44	3.8	190.5	660	9.3	49.7
H754906	0.16	2.5	0.044	1.05	24.3	19.7	4.20	918	0.71	2.32	3.8	187.5	650	9.2	48.7
H754907	0.17	2.6	0.045	1.13	25.4	21.1	4.46	961	6.07	2.38	4.1	203	680	9.4	50.8
H754908	0.18	2.4	0.047	1.13	23.8	20.2	4.26	917	1.01	2.40	3.9	188.0	660	9.2	49.1
H754909	0.19	2.6	0.046	1.25	25.0	21.2	4.67	1000	1.54	2.67	4.0	201	720	9.9	51.7
H754910	0.15	2.7	0.048	1.22	25.7	23.6	4.45	966	0.90	2.56	4.1	190.5	720	9.0	50.1
H754911	0.15	2.4	0.039	0.94	22.6	18.2	3.76	860	1.07	2.49	3.6	166.0	620	7.6	39.2
H754912	0.15	2.5	0.044	1.01	23.4	19.2	4.32	919	0.73	2.45	3.7	197.5	650	9.0	42.5
H754913	0.17	2.4	0.049	1.17	23.5	20.3	4.51	925	1.08	2.38	3.9	204	650	9.4	50.6
H754914	0.16	2.3	0.045	1.12	21.9	18.9	4.52	996	0.66	2.16	3.6	203	640	8.6	48.3
H754915	0.16	2.1	0.051	0.90	21.8	24.2	4.53	946	1.14	2.06	3.7	204	630	8.3	38.1
H754916	0.19	2.5	0.049	1.28	24.7	24.2	5.12	1020	0.84	2.26	4.1	231	750	10.2	56.1
H754917	0.18	2.6	0.044	1.21	26.6	21.3	4.66	1020	0.78	2.63	4.5	205	760	9.6	51.2
H754918	0.18	2.5	0.049	1.40	25.9	24.9	4.67	972	0.90	2.31	4.5	198.5	760	10.5	58.2
H754919	0.18	2.6	0.048	1.57	25.5	26.8	4.45	904	0.84	2.11	4.5	197.5	730	11.2	64.1
H754920	0.15	2.3	0.035	1.28	26.0	20.4	3.86	795	0.89	2.88	4.6	162.5	830	10.7	38.8
H754921															
H754922	0.16	2.4	0.039	1.37	29.1	25.4	3.70	778	0.88	2.92	4.9	157.5	830	11.6	48.0
H754923	0.18	2.8	0.039	1.40	29.0	24.8	3.74	782	1.05	2.79	4.9	160.0	820	14.0	46.9
H754924	0.19	3.4	0.047	2.59	31.2	44.2	3.84	907	0.34	2.64	4.6	65.5	1550	13.3	86.7
H754925	0.16	2.1	0.049	1.06	20.2	21.6	2.91	885	4.03	2.57	4.6	104.5	640	10.5	43.9
H754926	0.16	2.6	0.040	1.09	22.0	22.3	3.38	736	1.32	2.69	3.6	162.5	580	7.8	45.6
H754927	0.17	2.5	0.041	1.02	17.6	20.3	3.26	743	1.14	2.69	3.2	150.5	530	6.9	39.9

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131513

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	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Sample Description LOR	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	0.1
H754888	<0.002	0.03	0.28	8.1	1	0.6	710	0.18	0.27	4.4	0.207	0.23	1.2	56	1.2
H754889	<0.002	0.01	0.37	8.9	1	0.6	784	0.32	0.13	7.2	0.246	0.26	1.8	61	0.8
H754890	<0.002	0.01	0.34	16.7	1	0.6	753	0.29	0.07	6.2	0.327	0.25	1.5	104	0.8
H754891	<0.002	0.02	0.32	17.4	1	0.6	789	0.30	0.09	5.3	0.330	0.33	1.3	110	1.9
H754892	<0.002	0.01	0.41	17.0	1	0.7	680	0.29	0.09	5.5	0.336	0.21	1.4	109	2.0
H754893	<0.002	0.01	0.36	17.2	1	0.6	738	0.27	0.10	5.2	0.326	0.26	1.3	109	2.0
H754894	<0.002	0.21	0.26	22.3	2	1.1	1210	0.32	0.10	5.8	0.503	0.52	1.3	171	0.7
H754895	<0.002	0.01	0.36	17.1	1	0.6	774	0.29	0.10	5.3	0.322	0.32	1.3	109	3.7
H754896															
H754897	<0.002	0.01	0.31	17.6	1	0.6	739	0.25	0.09	4.9	0.325	0.28	1.2	112	2.8
H754898	<0.002	0.01	0.27	17.7	1	0.6	682	0.18	<0.05	3.6	0.339	0.24	0.8	118	1.5
H754899	<0.002	0.02	0.31	18.4	1	0.6	574	0.18	0.09	3.9	0.383	0.26	0.9	120	1.2
H754900	<0.002	0.01	0.34	21.3	1	0.7	707	0.20	0.07	4.6	0.449	0.28	1.0	136	0.7
H754901	<0.002	0.01	0.32	20.0	1	0.7	670	0.19	0.08	4.6	0.443	0.27	1.0	133	0.6
H754902	<0.002	0.01	0.28	21.0	1	0.7	713	0.20	0.09	4.4	0.451	0.27	1.0	136	0.4
H754903	<0.002	0.01	0.27	15.1	1	0.7	713	0.25	0.05	4.7	0.305	0.19	1.3	101	0.5
H754904	<0.002	0.01	0.24	20.0	1	0.7	728	0.26	0.06	4.2	0.433	0.29	1.2	130	0.5
H754905	<0.002	0.01	0.23	21.8	1	0.6	688	0.22	0.07	4.1	0.441	0.28	1.1	134	0.4
H754906	<0.002	0.01	0.22	21.1	1	0.7	660	0.22	0.10	4.1	0.436	0.28	1.0	132	0.4
H754907	<0.002	0.01	0.21	22.5	1	0.7	687	0.22	0.07	4.2	0.452	0.29	1.1	137	0.4
H754908	<0.002	0.01	0.21	21.3	1	0.7	686	0.21	0.07	4.0	0.437	0.30	1.0	135	0.4
H754909	<0.002	0.01	0.23	22.5	1	0.7	765	0.22	0.10	4.3	0.474	0.30	1.1	145	0.4
H754910	<0.002	0.01	0.23	22.3	1	0.7	709	0.23	<0.05	4.2	0.469	0.30	1.1	141	0.4
H754911	<0.002	<0.01	0.20	18.8	1	0.6	594	0.20	<0.05	4.0	0.407	0.23	1.0	121	0.5
H754912	<0.002	0.01	0.24	20.9	1	0.7	654	0.21	0.60	4.0	0.437	0.24	1.0	132	0.4
H754913	<0.002	0.02	0.23	21.9	1	0.7	680	0.22	0.06	4.1	0.449	0.29	1.0	132	0.4
H754914	<0.002	0.02	0.24	21.0	1	0.6	647	0.21	0.08	3.5	0.462	0.29	0.9	130	0.5
H754915	<0.002	0.13	0.21	21.0	1	0.6	601	0.20	0.16	3.4	0.449	0.23	0.9	134	7.9
H754916	<0.002	0.23	0.25	23.1	1	0.8	682	0.22	0.19	4.1	0.519	0.33	1.0	152	17.3
H754917	<0.002	0.03	0.25	21.8	1	0.7	742	0.25	0.07	4.6	0.489	0.31	1.2	137	1.2
H754918	<0.002	0.01	0.33	21.7	1	0.7	761	0.24	0.06	4.3	0.480	0.37	1.1	140	2.6
H754919	<0.002	0.01	0.33	21.4	1	0.8	787	0.24	0.06	4.3	0.508	0.41	1.1	137	0.4
H754920	<0.002	0.01	0.20	17.0	1	0.6	889	0.25	<0.05	4.2	0.354	0.30	1.2	112	0.5
H754921															
H754922	<0.002	0.02	0.18	17.5	1	0.6	843	0.27	0.09	4.7	0.349	0.34	1.3	108	0.6
H754923	<0.002	0.02	0.19	17.5	1	0.7	921	0.28	0.06	4.9	0.343	0.36	1.4	109	0.5
H754924	<0.002	0.04	0.12	24.5	1	0.9	787	0.30	0.06	5.5	0.353	0.70	1.7	143	0.9
H754925	0.002	0.04	0.31	19.5	1	0.8	733	0.26	0.07	3.6	0.562	0.27	1.1	134	9.3
H754926	<0.002	0.01	0.31	18.2	1	0.7	651	0.23	0.06	4.1	0.417	0.28	1.1	115	2.6
H754927	<0.002	<0.01	0.34	18.2	1	0.7	628	0.21	0.08	3.2	0.483	0.24	1.0	118	2.0

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131513

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H754888		6.2	41	71.7
H754889		7.6	53	83.1
H754890		9.9	71	93.9
H754891		10.0	74	97.7
H754892		10.2	79	98.0
H754893		9.8	70	96.2
H754894		24.9	91	122.0
H754895		9.9	75	101.0
H754896				
H754897		10.2	67	98.6
H754898		9.9	78	69.0
H754899		10.4	83	74.1
H754900		12.1	81	87.5
H754901		11.2	83	85.3
H754902		11.5	86	80.7
H754903		10.9	65	70.6
H754904		12.9	88	78.7
H754905		12.7	88	80.1
H754906		12.7	86	79.2
H754907		13.5	90	85.5
H754908		13.1	86	79.0
H754909		13.4	93	84.1
H754910		13.9	91	88.2
H754911		12.0	77	79.4
H754912		12.9	86	79.4
H754913		13.3	84	77.1
H754914		13.2	89	70.9
H754915		12.7	93	68.1
H754916		14.6	106	78.4
H754917		13.8	93	84.1
H754918		13.7	93	78.5
H754919		14.3	92	85.5
H754920		10.6	78	78.0
H754921				
H754922		11.3	75	81.0
H754923		11.2	75	92.1
H754924		13.2	89	117.0
H754925		14.4	103	67.3
H754926		11.6	66	87.1
H754927		12.1	65	82.3

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131513

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H754928		0.03	7.69	<0.2	510	0.83	0.03	4.69	0.06	38.9	33.8	153	2.54	23.6	5.84	20.3
H754929		0.08	8.00	<0.2	580	0.81	0.06	5.33	0.07	30.0	37.2	136	2.79	57.4	6.51	20.5
H754930		0.04	7.51	<0.2	910	1.37	0.09	3.90	0.06	61.5	25.0	210	4.76	33.6	3.89	19.15
H754931		0.05	7.88	0.4	1050	1.50	0.09	4.00	0.06	61.6	26.2	238	4.77	32.4	4.05	19.95
H754932		0.07	7.52	0.6	970	1.48	0.10	3.85	0.07	55.8	26.7	224	4.58	33.6	4.22	20.4
H754933		0.07	7.74	0.3	400	0.61	0.03	6.16	0.12	23.9	41.7	96	2.92	82.7	8.31	20.9
H754934		0.14	7.57	0.2	210	0.56	0.01	5.15	0.19	22.7	40.7	48	2.38	208	9.60	21.8
H754935		0.05	7.25	<0.2	70	0.46	0.01	5.98	0.12	13.85	44.5	63	0.68	76.7	9.95	20.9
H754936		0.08	8.02	<0.2	90	0.39	0.01	6.79	0.14	13.55	49.3	100	1.13	143.5	10.10	21.5
H754937		0.13	7.14	0.3	100	0.52	<0.01	5.74	0.16	16.45	53.1	21	1.28	252	11.85	23.4
H754938		0.05	7.94	<0.2	430	0.90	0.01	4.90	0.10	48.9	31.5	101	4.31	64.3	5.74	21.4
H754939		0.07	6.88	0.3	170	0.57	<0.01	5.42	0.15	15.45	46.9	11	1.45	101.0	11.00	22.8
H754940		0.07	7.12	0.2	50	0.48	0.01	5.86	0.16	14.15	47.9	8	0.42	70.7	11.25	25.0
H754941		0.04	6.40	0.4	50	0.53	0.01	5.77	0.29	19.50	45.5	7	0.53	74.6	11.00	23.9
H754942		0.08	6.60	1.1	30	0.52	0.04	6.76	0.55	18.15	43.7	5	0.12	132.5	10.90	24.9
H754943		0.04	6.86	<0.2	90	0.57	<0.01	6.96	0.16	19.15	44.4	11	0.93	79.9	10.20	22.7
H754944		0.04	7.42	0.3	30	0.27	<0.01	6.96	0.08	9.95	46.3	28	0.26	69.8	9.29	20.3
H754945		0.08	7.78	0.2	40	0.27	<0.01	7.11	0.12	8.99	49.1	60	0.49	155.5	9.58	19.90
H754946																
H754947		0.08	7.58	0.3	50	0.30	<0.01	6.80	0.15	10.45	47.5	63	0.73	124.0	9.22	20.3
H754948		0.03	7.46	<0.2	60	0.30	0.02	6.82	0.15	10.15	45.4	69	1.22	57.8	9.00	20.0
H754949		0.04	8.14	<0.2	80	0.27	0.01	7.28	0.09	8.46	46.4	101	1.46	86.0	8.39	19.90
H754950		0.06	7.70	0.7	150	0.48	<0.01	6.19	0.12	13.75	42.9	95	1.42	92.2	7.55	19.15
H754951		0.05	8.11	0.2	130	0.30	0.01	7.07	0.08	8.75	42.9	145	1.07	109.5	8.08	18.90
H754952		0.05	7.78	1.1	190	0.62	0.03	6.33	0.09	35.3	41.1	214	1.32	53.9	7.02	19.85
H754953		0.07	7.38	0.4	140	0.57	0.02	6.66	0.08	32.1	37.4	184	0.90	51.3	6.84	17.95
H754954		0.03	8.20	<0.2	110	0.37	0.01	7.24	0.07	9.62	43.4	109	0.89	40.8	8.18	19.45
H754955		0.05	7.99	0.2	90	0.23	0.01	7.09	0.08	8.24	47.2	144	0.93	96.7	8.28	18.75
H754956		0.06	7.98	<0.2	110	0.25	0.01	6.59	0.07	8.53	45.1	133	1.03	101.5	8.46	19.60
H754957		0.05	7.54	0.2	140	0.46	<0.01	6.23	0.08	23.4	41.4	184	1.07	91.6	7.17	18.45
H754958		0.05	7.74	0.6	300	0.66	<0.01	5.65	0.06	47.1	37.7	258	1.95	115.5	6.07	20.1
H754959		0.05	7.80	0.2	270	0.81	0.01	5.72	0.07	34.1	41.9	220	2.17	70.5	6.82	20.0
H754960		0.05	7.40	<0.2	190	0.47	0.01	6.40	0.08	18.40	43.0	114	1.80	31.3	7.64	19.60
H754961		0.07	7.79	<0.2	130	0.35	0.01	7.16	0.10	10.55	48.5	97	1.61	107.0	9.51	20.7
H754962		0.08	8.31	0.4	100	0.25	0.01	6.63	0.09	8.79	43.2	156	1.67	116.0	7.37	18.85
H754963		0.07	8.57	0.8	60	0.21	<0.01	7.35	0.09	8.01	45.7	179	1.04	175.5	8.20	19.80
H754964		0.09	8.08	0.4	50	0.26	<0.01	7.28	0.08	9.76	43.2	164	0.90	117.0	7.87	18.80
H754965		0.03	8.47	<0.2	50	0.23	0.02	7.37	0.06	6.68	41.0	164	1.19	54.3	7.80	19.85
H754966		0.06	8.35	<0.2	40	0.21	<0.01	7.15	0.07	7.98	42.8	193	0.69	154.5	7.74	19.25
H754967		0.06	8.47	0.7	50	0.29	<0.01	7.40	0.07	9.85	39.5	194	0.62	118.0	7.40	19.70

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131513

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Sample Description LOR	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	0.1
H754928	0.17	2.4	0.049	0.93	19.9	18.6	3.29	878	3.42	2.47	3.7	130.5	580	7.3	40.7
H754929	0.17	2.1	0.052	1.06	14.9	21.4	3.29	1040	3.63	2.20	3.4	109.5	490	10.0	35.7
H754930	0.20	3.0	0.030	1.65	31.7	29.2	3.17	685	0.84	3.02	5.6	130.0	940	12.3	63.2
H754931	0.18	3.1	0.035	1.79	32.4	31.2	3.42	710	1.73	3.28	6.0	144.5	990	15.4	62.9
H754932	0.16	3.0	0.034	1.71	29.0	31.2	3.33	703	0.97	3.24	5.6	137.5	960	13.2	52.8
H754933	0.17	1.9	0.070	0.85	11.3	18.8	3.46	1410	1.32	2.03	4.0	80.0	500	6.7	35.5
H754934	0.19	2.8	0.083	0.54	10.5	13.4	3.19	1540	2.06	2.05	5.7	40.9	720	4.0	26.3
H754935	0.17	1.5	0.104	0.21	5.7	9.7	3.31	1590	0.49	1.60	4.6	51.4	520	2.3	7.8
H754936	0.16	1.3	0.099	0.27	5.4	11.3	3.56	1520	0.89	1.54	3.9	64.4	430	3.1	11.2
H754937	0.19	1.9	0.121	0.26	6.6	10.5	2.90	1720	1.94	1.66	5.3	40.1	630	2.1	12.0
H754938	0.17	3.1	0.051	0.70	24.2	14.9	2.89	921	0.82	3.04	4.1	87.1	680	2.9	28.0
H754939	0.18	2.2	0.101	0.28	6.7	8.1	2.64	1710	0.87	1.79	5.0	34.9	430	2.5	13.4
H754940	0.18	2.1	0.111	0.15	5.4	8.3	2.83	1790	1.65	1.63	5.8	31.7	600	2.5	4.9
H754941	0.17	2.3	0.120	0.14	8.3	8.2	2.79	2000	0.48	1.38	6.9	23.6	630	2.2	5.0
H754942	0.16	2.5	0.123	0.10	6.9	5.0	2.35	1660	1.14	1.55	6.2	25.3	870	2.3	1.6
H754943	0.17	1.8	0.102	0.21	8.1	8.2	3.31	1600	0.53	1.54	4.9	42.6	690	1.9	10.1
H754944	0.15	1.3	0.086	0.13	4.3	9.2	3.83	1440	0.66	1.59	3.0	47.3	330	1.5	2.8
H754945	0.16	1.2	0.086	0.17	3.9	9.3	4.12	1620	0.60	1.76	2.6	54.9	320	1.6	4.7
H754946															
H754947	0.16	1.3	0.088	0.21	4.5	9.7	3.93	1600	0.91	2.04	2.9	54.2	340	1.9	6.9
H754948	0.15	1.5	0.084	0.29	4.3	10.5	4.01	1580	0.60	1.98	3.0	55.5	330	1.9	10.8
H754949	0.14	1.5	0.075	0.39	4.0	12.9	4.37	1550	0.59	2.13	2.4	77.3	300	2.0	14.8
H754950	0.13	1.8	0.072	0.50	7.0	12.5	3.59	1390	0.92	2.14	2.8	73.7	240	3.1	17.5
H754951	0.15	1.6	0.073	0.44	4.0	11.4	4.08	1490	0.51	2.08	2.5	72.5	270	2.4	15.1
H754952	0.15	1.9	0.059	0.51	16.9	16.5	4.62	1250	0.87	2.58	4.4	137.5	590	2.9	15.3
H754953	0.16	1.8	0.061	0.37	15.4	11.3	4.73	1220	0.49	2.33	3.8	124.0	620	2.8	12.8
H754954	0.16	1.5	0.077	0.37	4.4	12.3	4.15	1460	0.56	2.20	2.8	70.9	260	2.4	12.5
H754955	0.15	1.3	0.070	0.35	3.7	12.6	4.26	1460	1.38	2.12	2.3	85.8	260	1.9	11.9
H754956	0.14	1.6	0.071	0.39	3.8	13.2	4.10	1430	0.62	2.29	2.7	77.0	290	2.0	13.2
H754957	0.14	1.7	0.061	0.40	11.0	13.3	4.22	1300	1.00	2.34	3.2	123.5	430	2.5	10.8
H754958	0.17	2.1	0.057	0.62	23.4	30.3	4.34	1000	0.84	2.14	4.4	190.5	790	2.9	21.4
H754959	0.17	2.0	0.057	0.62	16.3	21.3	4.46	1210	0.74	2.60	4.0	157.0	630	2.8	16.6
H754960	0.15	1.8	0.068	0.49	8.4	17.3	4.45	1380	5.25	2.07	3.3	92.5	400	2.4	17.0
H754961	0.15	1.8	0.086	0.48	4.6	11.0	4.27	1650	1.36	2.30	3.2	70.4	340	2.7	16.7
H754962	0.15	1.4	0.065	0.55	4.1	13.8	4.09	1320	1.69	2.43	2.2	85.1	240	2.3	16.1
H754963	0.14	1.5	0.079	0.48	3.4	12.2	4.24	1480	0.60	2.38	2.3	87.3	280	1.7	12.4
H754964	0.14	1.5	0.074	0.32	4.4	10.1	4.00	1420	0.58	2.14	2.5	79.8	280	1.9	10.0
H754965	0.14	1.5	0.066	0.35	2.8	17.7	4.58	1480	0.21	2.28	2.4	84.9	230	1.5	11.7
H754966	0.14	1.6	0.072	0.27	3.3	8.8	4.04	1410	0.28	2.21	2.4	81.6	270	1.7	7.5
H754967	0.13	1.6	0.077	0.30	4.2	7.6	3.74	1380	0.38	2.23	2.8	73.9	360	2.1	9.1

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131513

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	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.1
H754928		<0.002	0.02	0.26	19.7	1	0.7	589	0.23	<0.05	3.2	0.553	0.23	0.9	131	2.3
H754929		<0.002	0.03	0.29	20.8	1	0.8	671	0.21	0.19	2.5	0.573	0.26	0.7	144	0.7
H754930		<0.002	0.01	0.12	15.1	1	0.7	881	0.32	0.35	5.8	0.281	0.42	1.6	92	1.2
H754931		<0.002	0.02	0.18	15.4	1	0.7	995	0.34	0.05	6.0	0.296	0.44	1.9	96	1.9
H754932		<0.002	0.01	0.22	15.7	1	0.7	897	0.31	0.06	5.2	0.306	0.41	1.7	103	0.8
H754933		0.002	0.14	0.28	37.3	1	0.7	546	0.24	0.08	1.8	0.721	0.22	0.5	268	1.7
H754934		0.004	0.50	0.20	44.3	2	0.8	185.0	0.38	0.06	2.1	0.684	0.18	0.6	210	1.6
H754935		0.003	0.17	0.21	50.3	2	0.6	111.5	0.28	0.06	0.6	0.800	0.06	0.2	301	0.4
H754936		0.003	0.20	0.23	52.2	2	0.7	129.0	0.25	0.09	0.5	0.834	0.09	0.1	379	1.0
H754937		0.005	0.28	0.16	52.9	3	0.6	122.0	0.34	0.11	0.9	0.973	0.09	0.3	431	0.4
H754938		<0.002	0.02	0.17	19.8	1	0.8	545	0.25	<0.05	4.6	0.496	0.26	1.2	148	0.7
H754939		0.003	0.13	0.17	51.1	2	0.6	173.5	0.32	0.07	1.2	1.000	0.09	0.3	442	0.4
H754940		0.004	0.18	0.16	50.5	3	0.4	110.0	0.38	0.09	0.6	1.185	0.04	0.2	478	1.7
H754941		0.004	0.24	0.18	51.4	3	0.7	82.5	0.48	0.06	0.7	1.460	0.04	0.2	392	2.5
H754942		0.003	0.62	0.21	47.6	3	0.8	101.0	0.45	0.12	0.7	1.205	0.02	0.2	497	13.3
H754943		0.002	0.15	0.15	52.0	2	0.7	81.4	0.34	0.07	1.1	1.135	0.08	0.3	635	2.1
H754944		0.004	0.10	0.15	54.4	2	0.6	85.6	0.22	<0.05	0.4	0.766	0.03	0.1	407	0.3
H754945		0.002	0.13	0.15	54.5	2	0.7	88.2	0.18	0.40	0.4	0.650	0.05	0.1	341	0.3
H754946																
H754947		0.002	0.09	0.16	54.0	2	0.6	97.1	0.20	<0.05	0.5	0.676	0.06	0.1	340	0.3
H754948		0.002	0.06	0.15	50.9	2	0.5	95.1	0.21	<0.05	0.6	0.679	0.08	0.2	331	0.3
H754949		<0.002	0.07	0.33	50.9	2	0.5	114.5	0.17	0.05	0.4	0.587	0.09	0.1	305	0.5
H754950		0.003	0.13	0.22	42.9	2	0.4	113.0	0.22	0.07	2.2	0.507	0.12	0.6	258	0.4
H754951		0.002	0.14	0.20	49.2	2	0.4	131.5	0.18	0.11	0.5	0.581	0.09	0.1	296	0.5
H754952		0.002	0.16	0.22	36.2	1	0.5	340	0.23	0.09	2.2	0.492	0.11	0.6	222	0.7
H754953		<0.002	0.20	0.21	39.6	2	0.5	324	0.21	0.08	1.5	0.487	0.07	0.4	253	0.7
H754954		0.002	0.06	0.29	50.7	2	0.4	207	0.19	0.06	0.8	0.612	0.07	0.2	305	1.2
H754955		0.002	0.09	0.23	48.9	2	0.4	122.5	0.16	<0.05	0.6	0.519	0.07	0.2	274	0.7
H754956		<0.002	0.10	0.25	48.8	2	0.5	129.5	0.19	0.06	0.5	0.594	0.08	0.2	289	17.4
H754957		0.002	0.10	0.45	38.5	1	0.4	258	0.20	0.05	1.5	0.489	0.09	0.4	228	1.6
H754958		0.002	0.07	0.30	24.0	1	0.5	381	0.23	0.08	3.1	0.405	0.14	0.8	165	0.8
H754959		0.003	0.07	0.24	33.3	1	0.4	363	0.22	0.10	1.8	0.500	0.14	0.5	205	2.1
H754960		0.003	0.08	0.24	47.0	1	0.5	273	0.22	<0.05	1.1	0.615	0.10	0.3	277	0.8
H754961		0.002	0.16	0.30	56.5	2	0.5	156.0	0.21	0.49	0.6	0.741	0.11	0.2	355	3.7
H754962		0.003	0.09	0.24	43.7	2	0.4	137.5	0.16	<0.05	0.6	0.513	0.12	0.2	259	0.8
H754963		0.002	0.12	0.30	47.2	2	0.6	112.5	0.17	0.05	0.3	0.553	0.10	0.1	286	0.5
H754964		0.002	0.09	0.31	47.3	2	0.7	109.0	0.17	<0.05	0.6	0.543	0.06	0.2	277	0.9
H754965		0.002	0.07	0.19	48.0	2	0.4	90.8	0.17	<0.05	0.3	0.548	0.08	0.1	289	0.3
H754966		0.002	0.11	0.18	48.4	2	0.4	95.3	0.17	0.11	0.3	0.548	0.05	0.1	280	0.2
H754967		0.002	0.13	0.23	47.3	2	0.5	109.0	0.18	<0.05	0.5	0.543	0.05	0.1	265	0.4

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131513

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H754928		13.9	88	77.6
H754929		13.4	104	66.0
H754930		10.2	70	99.1
H754931		10.5	72	104.0
H754932		9.8	78	98.8
H754933		23.0	102	54.4
H754934		40.2	144	78.1
H754935		33.9	104	37.8
H754936		31.4	100	31.1
H754937		39.1	145	48.8
H754938		14.2	87	101.5
H754939		36.9	134	64.3
H754940		40.0	149	59.4
H754941		46.7	269	63.7
H754942		43.1	313	68.7
H754943		36.8	127	43.1
H754944		26.7	86	29.7
H754945		22.9	95	27.0
H754946				
H754947		24.3	105	28.6
H754948		24.8	107	35.0
H754949		21.0	86	40.5
H754950		19.2	70	50.2
H754951		20.6	71	42.1
H754952		17.1	82	55.9
H754953		20.7	78	55.9
H754954		23.7	79	42.6
H754955		19.2	77	38.9
H754956		22.1	79	43.3
H754957		17.6	83	49.9
H754958		13.1	91	68.5
H754959		16.4	95	62.5
H754960		22.1	95	51.3
H754961		27.0	95	51.5
H754962		18.2	74	41.3
H754963		19.8	76	44.4
H754964		20.9	72	41.8
H754965		20.9	69	43.8
H754966		21.2	61	47.0
H754967		23.1	65	45.5

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131513

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H754968		0.14	8.34	1.2	120	0.28	<0.01	7.04	0.08	8.66	43.1	227	0.60	160.0	7.49	20.0
H754969		0.05	9.00	0.5	120	0.30	0.01	7.61	0.07	8.03	47.2	201	1.64	58.3	8.16	21.1
H754970		0.08	8.23	<0.2	200	0.75	0.01	5.72	0.06	37.5	36.8	138	3.31	62.0	6.20	21.1
H754971																
H754972		0.07	7.88	1.3	60	0.33	0.01	6.79	0.09	14.25	45.0	256	0.73	102.5	8.20	19.50
H754973		0.09	8.35	0.7	100	0.26	0.01	9.30	0.08	8.86	44.2	195	2.00	183.0	7.13	17.80
H754974		0.05	8.29	0.9	70	0.24	0.01	6.77	0.10	7.03	45.9	243	1.40	101.5	7.68	18.40
H754975		0.08	7.75	0.2	40	0.19	<0.01	7.27	0.09	7.17	48.4	320	0.91	144.5	8.01	17.25
H754976		0.09	8.16	0.4	40	0.22	0.01	6.92	0.10	7.38	49.6	309	0.80	156.0	7.92	18.30
H754977		0.07	7.71	0.5	50	0.16	0.01	7.24	0.10	6.80	52.1	343	0.81	96.2	8.07	18.30
H754978		0.04	8.37	<0.2	50	0.15	<0.01	7.53	0.10	6.41	45.8	323	0.69	46.3	7.18	16.65
H754979		0.04	8.00	0.3	30	0.16	<0.01	7.63	0.08	5.60	48.2	292	0.49	46.8	7.31	16.15
H754980		0.04	7.99	<0.2	30	0.18	<0.01	7.73	0.08	5.76	52.3	292	0.52	35.0	7.70	16.35

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131513

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.1
H754968		0.14	1.8	0.074	0.57	3.7	9.5	3.76	1360	0.48	2.43	2.9	85.2	360	1.7	12.8
H754969		0.14	1.6	0.069	0.56	3.6	19.5	4.20	1420	0.39	2.47	2.6	91.7	280	2.0	17.6
H754970		0.16	2.6	0.051	0.69	18.0	16.8	3.26	1050	0.53	2.88	3.5	88.9	590	2.6	17.5
H754971																
H754972		0.14	2.1	0.073	0.24	6.6	9.7	3.82	1380	0.82	2.15	3.1	96.7	470	2.4	8.4
H754973		0.12	1.2	0.064	0.45	4.0	23.2	3.97	1460	0.37	2.55	2.2	104.0	250	2.2	16.3
H754974		0.14	1.4	0.062	0.38	3.1	13.5	4.36	1250	0.46	2.34	2.3	107.0	230	1.9	12.6
H754975		0.14	1.4	0.072	0.28	3.1	11.0	4.71	1360	0.67	2.06	2.1	121.5	230	1.6	8.9
H754976		0.14	1.3	0.076	0.25	3.3	12.2	4.52	1300	0.82	2.21	2.1	122.0	230	1.9	7.6
H754977		0.15	1.3	0.067	0.30	2.9	13.9	4.97	1360	0.68	2.01	2.0	150.5	230	1.8	6.7
H754978		0.14	1.3	0.060	0.26	2.9	10.4	4.63	1260	0.54	1.93	1.9	136.0	240	2.5	8.0
H754979		0.13	1.2	0.051	0.17	2.6	10.3	4.88	1280	0.52	1.48	1.7	159.5	190	1.7	3.3
H754980		0.13	1.2	0.058	0.18	2.8	12.0	5.54	1300	1.14	1.34	1.8	188.0	160	1.5	3.9

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131513

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
H754968		0.002	0.15	0.25	45.2	2	0.6	133.0	0.22	0.06	0.5	0.511	0.12	0.1	251	2.1
H754969		0.002	0.12	0.24	48.3	2	0.4	157.0	0.18	0.09	0.4	0.585	0.13	0.1	275	0.6
H754970		<0.002	0.07	0.22	24.7	1	0.6	276	0.24	<0.05	3.3	0.517	0.20	0.9	176	0.7
H754971																
H754972		0.002	0.12	0.31	46.1	2	0.6	161.5	0.22	0.08	1.2	0.555	0.05	0.4	228	1.0
H754973		0.002	0.14	0.30	42.6	2	0.4	122.5	0.15	0.09	0.5	0.491	0.12	0.2	237	0.8
H754974		<0.002	0.18	0.24	44.8	1	0.5	102.0	0.16	0.19	0.2	0.508	0.09	0.1	261	0.6
H754975		0.002	0.16	0.24	48.1	2	0.6	87.2	0.15	0.07	0.2	0.514	0.07	0.1	264	0.4
H754976		0.003	0.14	0.41	45.4	2	0.7	106.5	0.14	0.06	0.3	0.501	0.05	0.1	259	0.6
H754977		0.002	0.12	0.30	46.2	1	0.5	102.5	0.14	0.09	0.2	0.474	0.07	0.1	254	0.5
H754978		<0.002	0.09	0.24	40.4	1	0.4	109.0	0.14	<0.05	0.3	0.463	0.06	<0.1	240	0.5
H754979		<0.002	0.09	0.20	36.1	1	0.4	102.0	0.13	<0.05	0.2	0.424	0.04	0.1	220	0.2
H754980		<0.002	0.09	0.17	38.3	2	0.4	97.9	0.13	0.09	0.2	0.403	0.04	0.1	212	0.2

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131513

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H754968		22.9	68	48.9
H754969		22.6	81	46.0
H754970		14.5	70	86.2
H754971				
H754972		29.6	77	58.5
H754973		17.5	79	35.1
H754974		19.2	85	41.7
H754975		19.2	88	40.0
H754976		19.0	87	37.0
H754977		18.7	86	38.0
H754978		18.2	78	36.5
H754979		15.9	71	34.3
H754980		18.2	71	36.1

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131513

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

CERTIFICATE TB09131518

Project: Thorne Lake

P.O. No.:

This report is for 169 Pulp samples submitted to our lab in Thunder Bay, ON, Canada on 13-NOV-2009.

The following have access to data associated with this certificate:

STEVE VAN HAAFTEN	THOMAS HART	MATT SOOLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS

To: **NORTHERN SUPERIOR RESOURCES INC**
ATTN: THOMAS HART
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131518

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H755145		0.03	7.30	<0.2	520	0.77	0.02	5.40	0.09	32.9	39.8	290	4.16	35.5	5.94	18.35
H755146																
H755147		0.08	8.65	<0.2	140	0.40	0.03	6.76	0.06	12.25	50.2	141	0.95	135.0	8.57	20.8
H755148		0.14	7.09	<0.2	160	0.35	0.10	9.66	0.08	19.80	47.9	101	1.69	164.5	8.04	16.25
H755149		0.17	7.19	<5	120	0.20	0.42	10.55	0.10	14.00	52.5	100	1.74	238	8.74	18.15
H755150		0.38	8.00	0.4	240	0.25	0.77	8.77	0.26	19.35	63.2	126	2.77	389	8.99	20.2
H755151		0.24	7.39	<0.2	210	0.35	0.27	6.72	0.07	15.05	48.4	110	3.10	203	8.90	17.90
H755152		0.09	7.02	0.7	110	0.36	0.30	9.06	0.09	25.3	28.8	65	0.97	103.5	7.14	16.80
H755153		0.95	6.86	<0.2	170	0.26	0.29	9.00	0.29	8.69	43.9	128	1.32	525	8.29	16.10
H755154		1.56	6.36	<5	300	0.24	0.21	10.80	0.26	8.80	42.2	130	3.51	706	7.05	14.95
H755155		0.12	7.48	<0.2	420	0.48	0.29	4.95	0.05	32.3	28.8	57	4.26	56.4	6.77	17.15
H755156		0.61	6.84	0.2	510	0.43	0.65	7.85	0.09	15.15	53.5	125	5.71	370	8.78	16.35
H755157		0.17	7.94	<0.2	550	0.95	0.13	3.35	0.12	41.6	18.1	31	5.27	47.3	3.86	22.0
H755158		0.05	7.61	<0.2	670	0.97	0.06	3.67	0.06	42.7	18.3	24	6.17	22.3	3.62	21.8
H755159		0.16	7.06	<0.2	500	0.84	0.24	3.15	0.08	39.6	16.0	26	4.78	38.0	3.39	20.1
H755160		0.17	7.46	<0.2	530	0.75	0.06	4.82	0.05	27.6	30.8	148	6.08	64.9	4.94	18.60
H755161		0.08	7.84	<0.2	120	0.26	0.16	8.96	0.11	10.30	45.0	107	1.26	139.0	9.33	17.95
H755162		0.05	8.16	<0.2	90	0.30	0.16	6.47	0.09	10.75	50.5	128	0.87	95.8	8.72	19.50
H755163		0.05	9.08	<0.2	110	0.25	<0.01	6.80	0.09	11.05	60.1	143	0.55	124.5	8.21	22.0
H755164		0.09	6.69	<5	60	0.20	<0.01	11.10	0.13	8.58	47.6	91	0.38	151.5	7.91	15.20
H755165		0.04	1.30	<5	10	<0.05	<0.01	17.50	0.20	7.91	20.6	16	0.11	41.9	5.61	3.26
H755166		0.07	8.47	<0.2	110	0.32	0.06	8.21	0.06	11.40	47.8	158	0.53	102.5	8.53	20.2
H755167		0.05	8.25	<5	50	0.27	0.03	10.00	0.08	10.40	45.3	151	0.15	48.1	7.96	19.40
H755168		0.04	6.97	<0.2	410	0.52	0.02	7.25	0.07	43.2	40.6	260	2.26	40.9	5.88	16.00
H755169		0.07	6.75	5	1000	0.29	0.07	10.60	0.09	11.55	46.4	118	6.91	95.4	8.06	16.10
H755170		0.08	7.69	<0.2	70	0.23	0.03	9.25	0.11	10.15	50.4	112	0.06	107.5	8.56	17.85
H755171																
H755172		0.08	8.02	<0.2	60	0.25	0.02	9.98	0.12	10.45	52.7	122	0.05	119.5	8.68	18.30
H755173		0.13	7.84	<0.2	50	0.26	0.05	9.51	0.12	10.40	51.2	117	0.05	162.0	8.75	17.60
H755174		0.06	7.88	<0.2	40	0.24	0.11	9.18	0.09	10.55	51.3	114	0.09	81.5	9.32	18.40
H755175		0.06	7.33	0.3	70	0.25	0.06	7.54	0.08	9.31	45.3	120	0.42	119.0	8.69	16.65
H755176		0.08	8.04	<0.2	240	0.25	0.08	8.80	0.08	10.05	58.9	131	2.72	208	8.92	18.55
H755177		0.07	7.97	<5	90	0.21	0.07	11.00	0.09	11.60	55.2	112	1.12	136.0	8.43	19.05
H755178		0.10	8.21	0.3	40	0.23	0.02	8.57	0.11	10.65	52.8	127	0.24	126.0	9.50	19.55
H755179		0.05	8.37	<0.2	110	0.25	0.01	8.13	0.12	11.40	48.6	138	1.22	118.0	8.73	19.80
H755180		0.09	7.57	<0.2	440	0.50	0.05	7.34	0.10	28.2	43.1	209	4.92	71.8	7.16	18.20
H755181		0.06	8.06	<0.2	150	0.29	0.04	7.91	0.10	11.05	49.9	130	1.00	93.9	8.56	20.0
H755182		0.05	7.84	<0.2	90	0.35	0.01	8.11	0.10	9.88	52.6	127	0.63	105.5	8.90	18.90
H755183		0.05	7.14	<5	140	0.32	<0.01	10.10	0.11	10.20	46.7	103	1.63	85.8	8.06	17.00
H755184		0.08	7.71	<0.2	120	0.32	<0.01	9.34	0.12	10.60	46.4	130	1.11	162.5	9.40	19.55

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131518

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Sample Description LOR	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	0.1
H755145	0.15	2.4	0.055	1.07	15.7	37.3	4.87	1060	0.23	2.16	4.6	234	630	4.5	34.8
H755146															
H755147	0.15	0.6	0.095	0.35	5.3	21.4	2.15	1570	0.42	1.28	3.1	89.4	330	3.1	6.6
H755148	0.15	1.0	0.082	0.47	9.0	25.7	2.43	1860	0.34	0.95	2.4	79.8	290	4.0	16.4
H755149	0.15	1.0	0.121	0.42	6.4	21.7	2.08	2160	0.34	0.47	2.5	84.2	280	8.5	16.5
H755150	0.17	1.4	0.143	1.00	8.8	44.3	2.40	1820	1.19	0.94	2.9	99.2	360	13.2	28.8
H755151	0.17	1.3	0.096	0.89	6.7	36.8	2.83	1680	2.29	1.15	3.0	87.5	320	7.3	28.4
H755152	0.13	1.7	0.084	0.43	12.5	22.2	1.95	1940	3.84	0.76	3.9	44.4	500	5.1	12.4
H755153	0.13	0.8	0.089	0.58	3.9	17.7	2.35	2160	1.15	1.27	2.3	70.7	310	9.2	17.5
H755154	0.13	0.8	0.074	1.07	3.9	24.2	2.64	2100	2.75	1.40	2.2	68.1	290	4.6	34.3
H755155	0.15	1.9	0.050	1.29	15.4	24.2	1.53	1860	42.1	2.02	4.6	32.1	590	5.9	45.1
H755156	0.16	1.1	0.062	1.46	7.4	38.4	2.52	1920	15.85	1.45	2.7	92.3	340	5.2	46.6
H755157	0.17	3.5	0.028	1.47	18.5	44.9	1.76	475	0.40	3.16	5.8	31.3	930	6.3	31.4
H755158	0.16	3.4	0.028	1.57	18.9	49.6	1.61	435	0.11	3.02	5.9	28.4	880	9.8	32.1
H755159	0.16	3.1	0.023	1.18	18.3	38.0	1.55	476	0.33	3.07	5.2	27.2	810	8.0	28.4
H755160	0.18	2.2	0.040	1.53	14.1	50.2	2.98	837	0.33	2.57	2.9	88.4	590	5.2	43.9
H755161	0.14	1.1	0.083	0.37	4.6	21.2	3.78	1640	2.61	0.95	2.7	86.3	320	4.5	10.4
H755162	0.14	0.6	0.089	0.26	4.6	19.6	2.95	1500	0.48	0.94	3.0	93.7	310	3.0	4.2
H755163	0.16	0.6	0.091	0.25	4.7	23.1	2.60	1720	0.33	1.15	3.3	109.5	280	2.2	4.7
H755164	0.14	1.0	0.062	0.14	4.0	23.5	5.04	2260	0.41	0.56	2.5	78.5	180	1.6	3.4
H755165	0.09	0.4	0.013	0.01	4.7	4.0	8.94	2370	0.19	0.02	0.6	38.7	160	0.5	0.4
H755166	0.16	1.5	0.088	0.17	5.1	20.2	3.92	2160	0.34	0.56	3.0	82.9	320	2.7	6.1
H755167	0.14	1.4	0.086	0.13	4.6	12.2	3.50	2140	0.25	0.68	3.0	74.4	340	3.5	2.2
H755168	0.17	1.6	0.053	0.55	22.9	21.8	4.98	1440	0.12	2.03	2.2	183.5	550	2.9	20.5
H755169	0.15	1.1	0.067	1.23	5.9	22.3	2.81	1630	0.86	1.49	2.3	92.5	300	3.2	58.5
H755170	0.15	1.2	0.082	0.16	4.4	12.2	2.13	1780	0.32	1.78	2.8	92.2	340	2.8	1.4
H755171															
H755172	0.16	1.4	0.081	0.13	4.6	11.0	2.05	1900	0.49	1.42	2.9	94.4	350	2.3	0.8
H755173	0.16	1.4	0.078	0.14	4.6	11.9	2.28	1960	0.26	1.48	2.8	92.7	340	2.4	0.9
H755174	0.15	1.3	0.080	0.19	4.6	12.7	3.09	1670	0.64	1.39	2.9	93.5	360	2.1	1.3
H755175	0.14	1.2	0.073	0.20	4.2	13.1	3.33	1380	0.49	1.56	2.3	84.3	320	1.9	3.8
H755176	0.15	1.3	0.071	0.44	4.6	20.6	2.78	1680	0.42	1.56	2.8	102.5	330	2.2	24.2
H755177	0.14	1.3	0.101	0.27	5.3	12.8	2.26	2100	0.28	0.94	2.8	97.5	330	1.9	10.1
H755178	0.16	1.6	0.084	0.24	4.6	11.2	2.63	1720	0.40	0.91	3.1	96.8	350	1.3	2.8
H755179	0.15	0.8	0.083	0.32	5.0	13.0	2.07	1800	0.41	1.24	3.1	93.1	350	1.8	7.1
H755180	0.16	1.6	0.063	0.66	13.0	15.0	3.63	1500	0.27	1.72	2.3	155.5	470	2.6	30.9
H755181	0.14	0.8	0.087	0.31	4.5	10.4	2.31	1710	0.61	1.37	2.7	94.3	350	1.9	5.3
H755182	0.14	0.9	0.083	0.25	3.6	9.3	2.25	1720	0.27	1.08	2.5	89.0	340	1.2	3.2
H755183	0.12	1.3	0.071	0.28	4.2	13.0	2.94	2480	0.21	1.03	2.2	96.8	260	1.3	9.8
H755184	0.14	1.5	0.089	0.31	4.2	13.7	2.54	2340	0.31	1.06	2.6	94.7	320	1.4	6.9

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131518

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	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.1
H755145		<0.002	0.07	0.14	26.1	1	0.7	557	0.27	0.08	2.6	0.485	0.21	0.6	170	0.9
H755146																
H755147		<0.002	0.17	0.32	49.0	2	0.7	184.0	0.22	0.09	0.4	0.686	0.06	0.1	325	1.1
H755148		<0.002	0.31	0.25	43.6	2	0.6	136.5	0.17	0.13	0.3	0.544	0.09	0.1	270	1.2
H755149		<0.002	0.76	0.59	40.1	3	0.8	197.0	0.18	0.27	0.3	0.536	0.11	0.1	261	1.8
H755150		<0.002	1.44	0.71	43.3	4	1.0	222	0.20	0.40	0.4	0.639	0.17	0.1	299	3.3
H755151		<0.002	1.08	0.29	38.0	3	0.9	152.5	0.22	0.25	0.7	0.547	0.22	0.2	251	2.3
H755152		0.012	0.45	0.55	22.4	2	0.8	187.5	0.31	0.20	1.5	0.394	0.06	0.4	168	2.4
H755153		<0.002	0.64	0.25	37.4	3	0.7	216	0.16	0.34	0.3	0.505	0.08	0.1	249	2.8
H755154		<0.002	0.85	0.09	38.6	3	0.5	313	0.15	0.45	0.2	0.497	0.15	0.1	229	12.0
H755155		<0.002	0.40	0.11	19.2	2	0.8	222	0.38	0.42	2.2	0.391	0.24	0.5	137	1.3
H755156		<0.002	2.24	0.08	30.8	4	0.6	293	0.20	1.54	0.8	0.416	0.24	0.2	227	8.9
H755157		<0.002	0.35	0.11	11.9	2	0.8	511	0.34	0.27	2.9	0.437	0.19	0.8	109	21.7
H755158		<0.002	0.10	0.10	11.3	1	0.8	675	0.33	0.07	2.9	0.425	0.22	0.8	94	6.5
H755159		<0.002	0.35	0.08	11.0	1	0.7	541	0.30	0.32	2.8	0.382	0.17	0.7	100	13.8
H755160		<0.002	0.16	0.10	23.0	1	0.6	435	0.22	0.20	2.7	0.326	0.23	0.9	140	7.6
H755161		<0.002	0.14	0.73	45.3	2	0.6	189.0	0.19	0.09	0.3	0.606	0.06	0.1	294	1.2
H755162		<0.002	0.09	0.87	45.8	2	0.7	135.0	0.20	0.09	0.4	0.655	0.04	0.1	302	1.1
H755163		0.002	0.09	1.02	49.4	2	0.7	127.5	0.23	0.14	0.3	0.733	0.03	0.1	342	0.7
H755164		<0.002	0.21	0.50	34.0	2	0.5	87.0	0.17	0.06	0.4	0.489	<0.02	0.1	228	0.7
H755165		<0.002	0.15	0.11	6.7	2	<0.2	63.2	<0.05	0.06	0.2	0.079	<0.02	0.1	46	0.5
H755166		<0.002	0.20	0.91	50.1	2	0.7	197.5	0.21	0.13	0.3	0.662	0.02	0.1	321	4.3
H755167		<0.002	0.02	0.91	49.4	2	0.7	196.0	0.20	0.05	0.3	0.640	<0.02	0.1	302	0.8
H755168		<0.002	0.07	0.19	28.4	1	0.5	543	0.15	<0.05	4.2	0.349	0.11	1.0	179	0.5
H755169		<0.002	0.57	0.26	37.1	2	0.5	513	0.15	0.10	0.5	0.492	0.33	0.2	236	2.6
H755170		<0.002	0.14	0.39	43.9	2	0.6	253	0.18	0.05	0.3	0.600	<0.02	0.1	281	0.6
H755171																
H755172		<0.002	0.15	0.37	44.1	2	0.6	203	0.20	<0.05	0.3	0.628	<0.02	0.1	294	0.8
H755173		<0.002	0.13	0.39	44.0	2	0.6	189.0	0.20	0.14	0.3	0.617	<0.02	0.1	287	1.2
H755174		<0.002	0.21	0.44	44.4	2	0.6	163.5	0.20	0.11	0.3	0.621	<0.02	0.1	288	1.4
H755175		<0.002	0.30	0.36	42.0	2	0.5	186.5	0.18	0.13	0.3	0.576	0.02	0.1	276	0.5
H755176		<0.002	0.46	0.26	45.4	3	0.5	156.5	0.19	0.14	0.3	0.623	0.16	0.1	279	0.5
H755177		<0.002	0.21	0.39	45.7	2	0.7	122.5	0.19	<0.05	0.3	0.619	0.06	0.1	295	0.4
H755178		<0.002	0.12	0.35	45.4	2	0.7	131.5	0.20	0.32	0.3	0.640	<0.02	0.1	299	1.3
H755179		<0.002	0.13	0.36	47.4	2	0.7	151.5	0.21	0.06	0.3	0.665	0.06	0.1	310	0.3
H755180		<0.002	0.09	0.33	38.8	2	0.6	417	0.18	0.07	2.8	0.470	0.20	0.7	227	0.3
H755181		0.002	0.14	0.48	49.2	2	0.7	221	0.23	0.09	0.4	0.656	0.05	0.1	307	0.5
H755182		<0.002	0.12	0.61	47.3	2	0.6	151.5	0.22	0.11	0.3	0.623	0.03	0.1	296	0.7
H755183		0.002	0.11	0.63	44.5	2	0.6	134.5	0.20	0.08	0.3	0.558	0.06	0.1	267	1.0
H755184		0.002	0.09	0.95	52.3	2	0.7	131.0	0.23	0.09	0.3	0.627	0.05	0.1	298	17.5

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131518

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H755145		15.4	91	78.4
H755146				
H755147		25.6	90	16.7
H755148		24.9	97	26.7
H755149		22.3	90	29.2
H755150		24.8	120	38.7
H755151		21.4	99	43.3
H755152		17.8	78	60.4
H755153		21.2	115	25.8
H755154		22.5	92	24.7
H755155		16.8	64	67.0
H755156		16.9	82	33.6
H755157		10.3	71	121.5
H755158		10.0	50	117.0
H755159		9.6	53	108.5
H755160		12.3	70	74.0
H755161		25.4	102	34.1
H755162		22.0	93	15.6
H755163		21.9	88	17.1
H755164		20.3	99	33.1
H755165		9.6	87	17.5
H755166		26.0	90	41.5
H755167		25.2	91	43.0
H755168		15.3	86	53.2
H755169		19.9	84	30.7
H755170		24.2	103	35.4
H755171				
H755172		25.1	102	40.9
H755173		25.1	108	38.8
H755174		25.6	93	39.9
H755175		22.4	80	35.7
H755176		23.3	91	40.7
H755177		26.5	96	36.5
H755178		24.7	111	47.2
H755179		24.8	101	22.0
H755180		18.5	93	51.0
H755181		22.7	95	23.5
H755182		23.7	101	27.5
H755183		24.6	105	38.8
H755184		24.9	105	42.6

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131518

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Sample Description LOR	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	0.05
H755185	0.06	8.21	<0.2	120	0.38	0.01	6.05	0.09	9.10	49.4	143	0.84	155.0	9.65	20.3
H755186	0.03	5.75	<5	110	0.26	0.01	13.10	0.11	7.56	40.5	78	1.48	75.3	6.34	13.40
H755187	0.07	7.90	<0.2	80	0.39	0.01	7.66	0.10	9.73	48.6	125	0.61	130.5	9.79	19.85
H755188	0.08	6.58	<5	60	0.29	<0.01	10.00	0.25	11.15	43.9	89	0.51	136.5	7.61	15.10
H755189	0.08	7.32	<5	20	0.29	0.02	10.10	0.09	9.13	41.5	103	0.18	96.2	8.46	18.30
H755190	0.05	6.60	<5	30	0.36	<0.01	10.75	0.07	8.89	41.7	86	0.28	78.6	7.85	16.20
H755191	0.06	7.97	<0.2	260	0.54	0.03	7.33	0.07	9.50	40.6	111	3.56	65.9	8.43	19.55
H755192	0.09	4.96	<0.2	200	0.33	0.07	7.55	0.23	11.65	40.4	69	3.26	188.0	6.83	12.20
H755193	0.06	4.85	<5	140	0.37	0.03	11.35	0.20	16.15	24.6	36	2.08	67.2	8.04	11.30
H755194	0.09	6.94	<0.2	310	0.35	0.59	7.85	0.09	11.60	35.6	113	6.20	61.8	7.60	15.95
H755195	0.10	7.08	<5	50	0.39	0.21	12.35	0.11	9.42	47.3	95	0.16	150.5	8.90	18.00
H755196															
H755197	0.06	7.33	<0.2	70	0.39	0.15	9.09	0.08	9.34	45.4	99	0.32	48.2	9.34	16.90
H755198	0.05	7.64	<5	40	0.34	0.08	10.05	0.11	11.05	45.7	104	0.10	68.5	8.31	18.10
H755199	0.07	5.45	<5	40	0.23	0.07	14.30	0.22	10.70	32.4	70	0.21	127.0	6.23	12.80
H755200	0.08	7.26	<0.2	250	0.46	0.10	7.65	0.12	24.2	33.8	57	2.94	80.3	7.65	16.55
H755201	0.04	7.69	<5	80	0.30	0.06	10.25	0.08	11.00	46.5	136	0.60	24.7	7.81	18.90
H755202	0.06	7.47	<5	40	0.29	0.09	10.40	0.07	10.20	49.9	152	0.13	57.7	8.88	18.30
H755203	0.08	6.53	<5	50	0.28	0.21	13.90	0.10	9.93	35.5	118	0.19	77.7	6.86	17.00
H755204	0.04	7.78	<5	240	0.47	0.09	11.05	0.08	24.0	41.4	118	1.22	38.9	7.36	18.55
H755205	0.11	7.41	<0.2	160	0.48	0.13	6.76	0.09	25.2	28.3	85	1.21	105.5	13.40	19.05
H755206	0.03	7.80	<0.2	750	1.40	0.02	4.60	0.07	51.6	27.5	177	4.95	16.8	5.92	19.30
H755207	0.01	8.28	<0.2	1000	1.48	0.04	4.42	0.05	54.1	31.7	205	6.85	13.0	5.41	20.2
H755208	0.04	7.33	<0.2	710	1.08	0.19	4.34	0.05	50.8	29.2	194	3.92	66.2	5.12	19.75
H755209	0.03	7.38	<0.2	690	1.01	0.25	4.21	0.06	51.8	28.8	187	4.55	48.0	5.04	19.40
H755210	0.04	7.33	<0.2	770	1.10	0.09	4.23	0.06	50.2	26.1	168	5.35	49.8	4.77	19.70
H755211	0.04	7.32	<0.2	750	1.20	0.04	4.17	0.06	51.0	26.1	164	5.14	38.3	4.67	20.0
H755212	0.07	7.51	<0.2	320	0.33	0.16	6.89	0.13	14.00	44.2	164	1.66	155.0	8.95	18.80
H755213	0.08	7.57	<0.2	200	0.34	0.07	7.41	0.07	10.65	43.7	159	1.06	124.0	9.31	19.20
H755214	0.10	5.78	<5	30	0.18	0.01	13.15	0.53	13.90	39.0	93	0.20	90.2	7.46	11.95
H755215	0.09	8.30	<0.2	60	0.26	0.03	9.01	0.08	8.47	46.5	150	0.30	96.9	8.07	17.35
H755216	0.05	8.30	<0.2	100	0.22	0.03	7.82	0.07	6.73	43.5	167	0.70	86.8	7.96	17.00
H755217	0.03	5.52	<5	20	0.11	0.03	14.35	0.09	7.40	38.1	87	0.36	60.2	8.09	11.20
H755218	0.06	8.78	<0.2	120	0.29	0.05	7.96	0.06	7.14	36.7	165	1.15	106.5	8.16	17.25
H755219	0.05	8.32	<0.2	90	0.27	0.06	8.20	0.06	8.86	44.1	174	0.78	108.0	7.95	18.90
H755220	0.14	7.44	<5	20	0.27	0.10	10.90	0.11	8.75	47.8	147	0.10	239	7.66	18.45
H755221															
H755222	0.05	6.03	<5	20	0.18	0.06	17.45	0.08	6.50	33.9	83	0.08	99.6	5.53	13.20
H755223	0.04	6.91	<5	30	0.26	0.09	10.90	0.07	7.92	46.7	141	0.09	57.5	6.71	17.10
H755224	0.04	6.23	<5	30	0.20	0.10	13.75	0.06	6.50	38.1	104	0.12	47.9	6.67	13.45

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131518

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Sample Description LOR	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	0.1
H755185	0.14	0.6	0.090	0.33	3.3	18.8	2.53	1660	0.28	1.33	2.6	96.0	330	1.4	3.4
H755186	0.12	1.0	0.067	0.21	3.4	14.9	5.61	1630	0.25	0.61	1.8	87.1	130	0.9	11.2
H755187	0.15	0.9	0.095	0.27	3.6	12.1	2.76	1980	0.21	0.93	2.6	95.7	320	1.3	3.3
H755188	0.12	1.1	0.070	0.18	5.1	17.6	3.65	1960	0.31	0.77	2.0	78.6	260	2.4	3.6
H755189	0.13	1.3	0.082	0.12	3.4	13.0	3.96	1940	0.22	0.64	2.4	81.8	220	1.8	1.6
H755190	0.13	1.1	0.073	0.10	3.4	17.6	4.51	2120	0.15	0.49	2.1	80.1	200	1.3	3.0
H755191	0.15	0.9	0.073	0.71	3.5	24.9	3.80	1460	0.18	1.33	2.6	87.6	170	2.4	23.1
H755192	0.12	1.5	0.051	0.66	4.9	20.3	3.11	1670	0.92	0.66	2.2	67.0	190	8.1	25.2
H755193	0.13	1.6	0.044	0.40	7.1	19.2	4.47	2900	0.64	0.40	2.7	42.9	200	1.7	15.0
H755194	0.13	1.6	0.049	1.00	4.3	26.2	2.82	1960	6.10	1.66	3.4	79.1	180	2.9	37.0
H755195	0.14	1.1	0.103	0.18	3.5	13.2	2.27	2310	0.80	1.36	2.2	90.6	270	2.9	2.2
H755196															
H755197	0.14	1.2	0.087	0.26	3.4	17.3	2.83	2070	0.24	1.30	2.3	88.5	320	2.4	4.9
H755198	0.13	1.6	0.093	0.15	4.4	10.5	2.60	2000	0.20	1.18	2.6	88.5	330	1.9	1.8
H755199	0.11	1.2	0.061	0.13	4.6	9.1	1.67	2440	0.42	0.66	2.0	61.0	250	2.3	2.7
H755200	0.14	2.1	0.056	0.67	11.1	20.5	1.87	2300	2.60	1.10	3.6	46.2	460	4.0	31.6
H755201	0.13	1.6	0.075	0.24	4.2	12.3	2.55	2450	0.27	1.26	2.6	77.9	350	2.4	7.7
H755202	0.14	1.5	0.080	0.20	3.9	10.4	2.63	2500	0.29	0.90	2.5	74.3	330	2.0	3.6
H755203	0.11	1.1	0.110	0.16	3.8	9.9	1.85	2640	0.32	0.89	2.2	56.7	330	2.9	2.6
H755204	0.14	1.7	0.086	0.39	11.1	10.5	2.38	2710	0.24	1.05	2.7	65.7	580	3.2	15.6
H755205	0.17	1.9	0.061	0.32	10.9	18.6	2.51	5490	0.83	0.69	3.7	51.8	520	4.9	7.4
H755206	0.16	3.3	0.043	1.38	23.4	33.1	3.58	1260	0.11	3.02	5.0	134.0	900	8.2	37.5
H755207	0.20	3.5	0.043	1.77	25.1	48.9	3.92	803	0.16	3.12	4.7	153.5	1030	9.3	56.9
H755208	0.17	3.0	0.043	1.17	24.6	31.6	3.72	784	4.24	2.99	4.8	148.0	770	8.2	36.1
H755209	0.17	3.0	0.044	1.27	25.0	30.8	3.54	761	30.5	3.05	4.8	140.0	830	7.4	41.8
H755210	0.18	3.0	0.042	1.41	24.5	32.1	3.29	735	0.95	2.81	4.9	130.0	850	6.1	46.7
H755211	0.17	3.0	0.039	1.28	24.9	28.6	3.16	744	1.97	2.77	5.1	125.0	850	6.1	40.2
H755212	0.15	1.5	0.080	0.60	5.8	17.3	3.76	1060	1.41	1.31	2.7	82.4	370	4.4	22.4
H755213	0.15	1.2	0.079	0.50	4.3	19.6	3.74	1160	2.55	1.06	2.5	77.9	320	3.2	13.8
H755214	0.11	0.7	0.075	0.11	7.4	22.5	5.98	1560	0.16	0.34	1.3	91.1	120	12.2	2.3
H755215	0.14	0.7	0.063	0.21	3.6	16.0	3.80	1280	0.34	1.36	1.9	122.0	210	2.6	2.9
H755216	0.14	0.8	0.055	0.29	2.6	16.8	3.87	1100	0.24	1.41	1.8	120.0	210	2.1	5.9
H755217	0.15	0.5	0.040	0.11	4.1	24.1	5.85	1760	0.54	0.33	1.3	101.5	100	2.5	2.9
H755218	0.19	0.8	0.064	0.40	2.8	17.4	3.58	1220	0.65	1.48	2.2	115.0	210	2.2	13.6
H755219	0.18	0.8	0.068	0.34	3.5	18.3	3.27	1420	0.76	1.37	2.5	120.0	260	2.1	6.8
H755220	0.21	1.0	0.078	0.15	3.3	9.1	2.36	2090	0.36	0.74	2.5	121.5	290	1.9	2.1
H755221															
H755222	0.25	0.7	0.054	0.09	2.5	5.3	1.70	3430	0.99	0.71	1.8	80.9	230	1.3	1.9
H755223	0.20	0.9	0.064	0.11	3.0	7.2	2.23	2150	0.24	1.12	2.3	121.0	280	1.5	1.8
H755224	0.17	0.7	0.067	0.16	2.6	10.0	2.32	2230	0.32	0.72	1.8	93.2	230	1.4	3.0

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131518

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
H755185		<0.002	0.24	0.57	48.9	2	0.7	117.0	0.22	0.10	0.3	0.677	0.05	0.1	317	22.3
H755186		0.002	0.02	0.39	34.1	2	0.5	95.4	0.15	0.13	0.2	0.444	0.06	0.1	205	5.1
H755187		<0.002	0.08	0.67	49.8	2	0.7	91.3	0.22	0.11	0.3	0.637	0.03	0.1	299	1.8
H755188		<0.002	0.19	0.68	39.7	2	0.5	90.8	0.18	0.13	0.3	0.500	0.02	0.1	240	1.9
H755189		<0.002	0.03	0.86	43.9	2	0.7	100.5	0.19	0.11	0.3	0.593	<0.02	0.1	277	0.8
H755190		<0.002	0.04	0.62	41.7	2	0.6	82.2	0.18	0.40	0.3	0.505	<0.02	0.1	240	1.7
H755191		<0.002	0.13	0.41	45.1	2	0.6	142.0	0.21	<0.05	0.3	0.641	0.14	<0.1	283	1.1
H755192		0.003	0.88	0.16	23.6	3	0.6	84.3	0.18	0.27	0.8	0.342	0.12	0.2	129	3.0
H755193		0.002	0.37	0.13	15.3	2	0.6	82.9	0.20	0.21	1.2	0.237	0.07	0.3	98	5.0
H755194		0.002	0.45	0.08	33.5	2	0.5	179.5	0.22	1.30	0.4	0.633	0.17	0.2	209	2.2
H755195		0.002	0.54	0.25	43.0	3	0.8	209	0.17	0.27	0.3	0.515	<0.02	0.1	258	1.2
H755196																
H755197		0.002	0.09	0.27	44.3	2	0.7	184.5	0.18	0.14	0.3	0.580	0.02	0.1	268	2.4
H755198		<0.002	0.14	0.40	45.8	2	0.8	132.0	0.21	0.07	0.4	0.590	<0.02	0.1	275	0.7
H755199		<0.002	0.40	0.33	28.9	2	0.6	103.5	0.16	0.14	0.6	0.384	<0.02	0.1	176	0.5
H755200		0.003	0.65	0.24	20.9	2	0.9	98.8	0.32	0.23	1.9	0.370	0.18	0.4	127	0.8
H755201		0.002	0.03	0.29	52.5	2	0.7	156.5	0.20	0.12	0.3	0.622	0.04	0.1	294	0.7
H755202		<0.002	0.31	0.38	48.2	3	0.7	142.0	0.19	0.11	0.4	0.591	0.02	0.1	280	0.8
H755203		<0.002	0.10	0.33	43.6	2	0.7	140.0	0.18	0.11	0.4	0.521	<0.02	0.1	251	0.7
H755204		<0.002	0.06	0.41	44.8	2	0.8	234	0.21	0.10	1.6	0.561	0.09	0.4	261	0.8
H755205		0.002	0.65	0.43	26.8	3	0.9	215	0.32	0.20	1.7	0.472	0.08	0.4	178	1.0
H755206		<0.002	0.06	0.10	16.8	1	0.7	973	0.35	0.10	4.4	0.403	0.30	1.4	118	0.3
H755207		<0.002	0.04	0.09	18.5	1	0.7	1010	0.32	0.13	4.7	0.427	0.41	1.4	132	0.3
H755208		0.002	0.23	0.14	18.5	1	0.8	826	0.28	0.15	4.2	0.425	0.26	1.2	123	0.5
H755209		0.012	0.42	0.14	17.5	2	0.8	789	0.28	0.14	4.3	0.401	0.29	1.2	115	0.5
H755210		<0.002	0.12	0.14	15.6	1	0.7	709	0.29	0.13	4.1	0.378	0.36	1.3	108	0.4
H755211		<0.002	0.08	0.13	15.1	1	0.8	812	0.30	0.08	4.2	0.371	0.32	1.4	105	1.8
H755212		0.002	0.58	0.35	49.3	3	1.0	406	0.20	0.16	0.6	0.617	0.12	0.1	284	0.9
H755213		0.002	0.18	0.45	51.4	2	0.6	258	0.19	0.14	0.3	0.628	0.08	0.1	303	0.9
H755214		<0.002	0.09	0.19	30.0	2	0.3	134.0	0.11	0.14	0.2	0.340	<0.02	0.1	171	0.4
H755215		0.002	0.11	0.33	38.6	2	0.5	183.5	0.15	0.12	0.2	0.465	0.03	0.1	225	0.6
H755216		0.002	0.08	0.31	38.5	2	0.5	137.0	0.14	0.13	0.2	0.451	0.06	<0.1	219	0.5
H755217		0.002	0.04	0.14	26.4	1	0.3	55.4	0.10	0.15	0.2	0.294	0.02	<0.1	153	0.3
H755218		0.002	0.08	0.37	38.0	2	0.5	138.0	0.15	0.08	0.2	0.486	0.09	<0.1	228	0.6
H755219		0.003	0.08	0.33	51.0	2	0.6	145.0	0.16	0.07	0.3	0.545	0.07	0.1	255	0.7
H755220		0.002	0.08	0.50	56.1	2	0.6	142.0	0.17	0.11	0.3	0.523	0.02	0.1	247	0.7
H755221																
H755222		<0.002	0.10	0.29	32.8	2	0.4	93.8	0.12	0.06	0.2	0.382	<0.02	<0.1	178	0.4
H755223		0.002	0.03	0.29	54.9	2	0.5	109.5	0.15	0.09	0.3	0.499	<0.02	0.1	241	0.5
H755224		<0.002	0.05	0.24	31.9	1	0.5	101.0	0.12	<0.05	0.2	0.392	0.02	<0.1	192	0.5

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131518

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H755185		20.3	97	18.9
H755186		14.8	88	29.8
H755187		22.9	95	26.7
H755188		19.6	133	36.7
H755189		21.6	93	41.5
H755190		20.7	81	34.6
H755191		19.6	86	24.4
H755192		14.8	101	49.2
H755193		14.4	101	62.6
H755194		21.5	96	52.8
H755195		21.0	96	35.4
H755196				
H755197		21.9	104	39.9
H755198		21.8	116	47.2
H755199		16.2	96	39.9
H755200		13.7	107	74.1
H755201		24.9	90	47.5
H755202		22.5	96	47.7
H755203		20.1	72	30.0
H755204		21.7	96	49.6
H755205		16.2	84	63.0
H755206		12.3	79	118.5
H755207		12.7	81	126.5
H755208		12.1	71	107.0
H755209		12.0	72	108.0
H755210		11.1	75	108.5
H755211		10.9	76	112.0
H755212		21.5	92	41.6
H755213		22.6	86	38.7
H755214		17.2	264	23.9
H755215		17.4	80	23.3
H755216		15.4	82	22.9
H755217		13.8	114	14.9
H755218		17.0	89	21.0
H755219		20.9	94	21.2
H755220		23.5	87	28.7
H755221				
H755222		17.8	76	19.0
H755223		23.1	82	27.5
H755224		17.2	70	20.9

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131518

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H755225		0.06	8.13	0.2	50	0.23	0.09	9.49	0.06	9.40	46.2	138	0.17	40.2	7.44	19.25
H755226		0.05	7.58	<0.2	30	0.22	0.07	9.79	0.06	8.30	45.2	147	<0.05	57.8	7.86	17.10
H755227		0.06	8.07	<0.2	180	0.26	0.07	6.70	0.04	7.30	41.6	168	1.03	101.0	8.76	15.75
H755228		0.12	7.90	<0.2	90	0.28	0.07	8.05	0.08	8.63	48.4	159	0.53	99.2	8.66	17.35
H755229		0.47	7.35	<0.2	220	0.46	0.07	6.30	1.35	24.1	64.5	94	2.09	567	7.96	17.65
H755230		0.11	8.21	<0.2	40	0.24	0.07	8.95	0.08	8.45	49.5	166	0.17	87.6	8.64	17.80
H755231		0.11	8.06	<0.2	190	0.30	0.06	8.95	0.09	8.45	52.5	153	2.54	177.0	9.15	17.70
H755232		0.06	8.55	<0.2	440	0.78	0.06	5.27	0.02	32.3	22.4	54	6.67	69.1	4.67	19.30
H755233		0.10	7.47	<5	170	0.40	0.12	10.10	0.09	10.70	36.9	133	2.44	102.0	8.34	17.35
H755234		0.06	8.00	<5	70	0.29	0.07	10.15	0.06	8.93	41.8	153	0.54	52.7	8.15	18.50
H755235		0.08	7.82	<0.2	320	0.41	0.51	9.42	0.09	19.80	28.9	103	2.99	102.0	7.74	17.70
H755236		0.11	7.50	<0.2	60	0.39	0.06	9.43	0.09	6.48	38.9	150	0.24	99.2	8.02	16.30
H755237		0.13	7.15	<0.2	570	1.23	0.12	5.34	0.07	64.0	25.4	46	6.70	40.6	5.92	16.80
H755238		0.08	8.36	<0.2	50	0.44	0.06	7.74	0.06	8.42	41.6	175	0.20	54.0	8.02	18.40
H755239		0.10	8.45	<5	30	0.32	0.08	10.05	0.05	8.60	47.5	172	0.06	49.5	7.31	18.45
H755240		0.39	7.45	<0.2	330	0.33	0.57	8.89	0.10	7.42	42.5	157	5.19	135.5	6.86	16.00
H755241		0.71	8.10	<0.2	100	0.35	0.17	9.69	0.18	9.43	53.6	160	0.91	295	8.02	20.5
H755242		0.18	7.98	<0.2	40	0.27	0.08	9.28	0.09	7.94	45.3	163	0.13	124.5	6.76	17.05
H755243		0.13	7.63	<5	280	0.23	1.14	10.20	0.10	7.79	50.3	166	2.70	179.0	8.40	16.70
H755244		0.13	8.09	<0.2	70	0.28	0.11	8.17	0.09	7.89	49.2	166	0.22	106.5	7.29	17.35
H755245		0.04	8.01	0.7	30	0.25	0.05	9.05	0.06	8.12	48.7	168	<0.05	48.1	8.36	17.75
H755246																
H755247		0.08	8.17	<0.2	30	0.27	0.08	9.99	0.07	8.09	47.9	172	0.08	75.6	7.31	17.80
H755248		0.16	7.83	<0.2	430	0.52	0.59	8.10	0.12	21.9	73.9	168	5.33	132.0	7.84	17.10
H755249		0.07	6.59	<5	260	0.51	0.22	10.95	0.21	28.9	15.5	36	2.38	52.3	3.62	14.60
H755250		0.07	7.16	<0.2	110	0.53	0.09	8.97	0.13	32.5	14.8	40	2.54	35.4	3.71	15.95
H755251		0.06	7.32	0.2	160	0.48	0.21	4.74	0.09	23.4	10.3	40	4.61	45.6	4.59	16.55
H755252		0.05	7.14	<5	10	0.20	0.26	14.20	0.08	7.47	38.0	120	0.09	58.3	6.82	15.45
H755253		0.08	7.30	<5	20	0.22	0.27	12.75	0.08	7.66	41.1	138	0.06	146.0	7.23	16.40
H755254		0.06	7.72	<5	20	0.24	0.17	10.70	0.06	7.99	44.5	153	<0.05	63.8	8.01	16.75
H755255		0.08	7.16	<5	20	0.26	0.28	11.00	0.04	8.83	43.4	143	0.08	26.5	7.44	18.25
H755256		0.06	7.44	<5	20	0.24	0.23	10.30	0.05	7.91	47.1	148	0.11	36.5	7.89	17.65
H755257		0.07	7.97	<0.2	30	0.30	0.07	8.94	0.05	8.43	51.3	162	0.15	69.1	8.68	18.00
H755258		0.09	7.64	<0.2	20	0.23	0.04	7.49	0.09	9.75	50.3	158	0.16	146.0	8.60	18.20
H755259		0.07	7.79	<0.2	20	0.31	0.01	6.60	0.09	9.17	50.3	170	0.15	132.5	8.88	18.05
H755260		0.07	7.41	<0.2	20	0.26	0.01	6.64	0.11	9.65	48.7	162	0.16	113.0	8.54	17.80
H755261		0.08	7.76	<0.2	20	0.31	0.01	6.35	0.11	8.41	48.8	159	0.17	117.0	8.94	18.10
H755262		0.07	7.71	<0.2	20	0.33	0.02	6.99	0.12	9.85	48.8	145	0.15	105.5	9.04	19.10
H755263		0.07	8.14	<0.2	20	0.32	0.02	6.84	0.11	9.34	51.3	163	0.12	97.7	9.27	18.85
H755264		0.08	7.18	<0.2	20	0.25	0.02	5.97	0.08	8.09	43.4	158	0.13	121.0	8.68	15.50

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131518

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Sample Description LOR	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	0.1
H755225	0.36	1.3	0.075	0.23	3.7	12.3	2.87	1640	0.33	1.33	2.6	127.5	300	1.7	5.0
H755226	0.15	1.0	0.056	0.15	3.2	8.8	2.74	1600	0.31	0.83	2.3	116.5	270	1.7	1.3
H755227	0.09	0.7	0.063	0.43	2.7	22.3	3.77	1300	0.40	1.48	2.1	112.5	300	1.7	15.2
H755228	0.16	1.0	0.068	0.38	3.4	21.8	3.61	1300	0.23	1.10	2.5	132.5	290	1.9	9.5
H755229	0.17	1.6	0.068	0.63	11.3	27.0	3.14	1080	1.07	1.61	2.8	114.5	440	3.4	27.8
H755230	0.16	1.0	0.065	0.24	3.4	10.6	3.42	1360	0.26	1.11	2.2	133.5	270	1.9	3.7
H755231	0.18	1.0	0.062	0.67	3.3	17.3	3.52	1680	0.21	1.10	2.4	125.5	290	2.1	29.8
H755232	0.14	2.1	0.047	1.48	14.1	29.2	1.59	848	0.73	2.51	5.7	60.0	710	3.4	71.2
H755233	0.16	1.0	0.085	0.64	4.5	16.0	3.32	1900	0.28	1.08	2.4	105.0	270	2.3	27.7
H755234	0.17	0.9	0.064	0.29	3.4	11.2	2.99	1850	0.31	0.98	2.5	115.5	290	2.1	8.3
H755235	0.21	1.3	0.108	0.86	8.8	19.8	1.60	2190	0.55	1.45	3.4	81.2	450	5.3	34.8
H755236	0.15	0.8	0.063	0.20	2.5	15.9	3.04	1880	0.35	1.84	2.1	116.5	240	4.0	3.4
H755237	0.16	3.6	0.049	1.45	31.2	30.2	2.38	1080	0.26	3.07	4.3	34.4	1720	5.7	59.0
H755238	0.15	0.5	0.061	0.18	3.1	15.9	2.60	1370	0.33	1.89	2.5	115.0	260	4.7	2.4
H755239	0.13	0.6	0.066	0.12	3.3	9.4	1.90	1700	0.29	1.26	2.6	123.5	290	3.0	0.8
H755240	0.14	0.9	0.064	1.23	2.8	24.2	2.12	1520	8.77	2.80	2.2	108.0	210	4.7	44.7
H755241	0.16	0.9	0.094	0.30	3.5	17.5	1.88	1760	1.79	2.27	2.7	132.5	290	4.5	9.2
H755242	0.13	0.8	0.066	0.16	3.0	10.2	1.78	1630	0.22	1.94	2.4	124.5	250	2.4	1.8
H755243	0.14	0.9	0.059	0.71	2.9	21.2	2.34	1870	19.95	1.92	2.4	123.0	280	3.0	29.7
H755244	0.13	1.0	0.076	0.20	3.0	12.0	2.07	1660	0.46	2.06	2.4	126.0	260	2.2	3.5
H755245	0.14	0.9	0.066	0.15	3.0	10.4	2.16	1670	0.42	1.24	2.4	129.0	290	1.7	0.4
H755246															
H755247	0.14	0.9	0.070	0.14	3.0	10.0	1.74	1640	0.28	1.39	2.4	126.5	280	2.1	1.4
H755248	0.15	1.8	0.068	1.33	10.3	24.6	2.42	1420	95.3	2.32	3.0	136.5	580	4.5	50.0
H755249	0.10	2.1	0.049	1.12	13.8	16.5	0.96	1760	3.25	1.36	4.1	32.6	490	5.2	34.1
H755250	0.10	1.9	0.048	0.95	15.2	15.8	0.94	1760	0.33	1.31	4.3	33.4	610	3.7	33.1
H755251	0.11	1.6	0.048	1.12	9.6	19.5	0.97	988	0.58	1.60	3.9	32.8	630	3.5	47.3
H755252	0.11	1.0	0.086	0.11	3.1	6.1	1.84	2230	1.81	0.74	2.0	103.0	240	1.9	1.1
H755253	0.12	1.0	0.089	0.08	2.9	4.9	2.05	2190	0.43	0.87	2.3	115.0	280	2.1	0.8
H755254	0.12	1.1	0.075	0.10	2.9	5.5	2.57	2010	0.52	0.92	2.3	119.5	280	1.7	0.9
H755255	0.13	1.0	0.093	0.08	3.5	6.0	2.38	1860	0.68	0.59	2.4	113.0	280	2.5	1.3
H755256	0.13	0.9	0.081	0.12	3.2	8.2	2.54	1760	0.76	0.86	2.3	120.0	270	2.1	1.3
H755257	0.18	1.0	0.065	0.20	3.4	11.5	3.40	1600	0.35	1.13	2.4	124.0	280	1.5	1.8
H755258	0.16	1.0	0.070	0.14	4.0	15.8	4.41	1260	0.23	1.19	2.4	126.0	280	1.2	1.1
H755259	0.16	0.9	0.073	0.12	3.7	17.5	4.48	1100	0.23	1.27	2.5	124.5	290	0.9	0.8
H755260	0.17	0.9	0.066	0.11	3.9	16.8	4.66	1120	0.23	1.27	2.4	122.0	260	0.8	0.6
H755261	0.18	0.9	0.067	0.16	3.4	18.0	4.88	1110	0.23	1.26	2.4	113.5	280	0.8	1.2
H755262	0.26	1.1	0.077	0.14	3.9	15.0	4.42	1500	0.22	1.40	2.9	98.0	330	0.8	1.1
H755263	0.18	1.0	0.075	0.15	3.8	16.3	4.35	1570	0.25	1.42	2.8	127.5	320	0.9	1.0
H755264	0.12	0.8	0.060	0.11	3.3	17.9	4.80	1240	0.23	1.26	2.0	122.0	270	0.9	0.7

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131518

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	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.1
H755225		0.002	0.03	0.32	53.4	2	0.6	143.0	0.17	<0.05	0.3	0.560	0.02	0.1	266	0.6
H755226		<0.002	0.05	0.38	41.2	2	0.6	129.0	0.15	0.07	0.3	0.506	<0.02	0.1	242	0.6
H755227		<0.002	0.23	0.11	36.4	1	0.4	136.5	0.18	0.30	0.3	0.543	0.09	0.1	250	0.5
H755228		<0.002	0.16	0.25	40.4	2	0.6	153.0	0.17	0.08	0.3	0.521	0.05	0.1	242	0.6
H755229		0.002	1.05	0.17	23.3	3	0.5	212	0.16	0.24	1.9	0.420	0.17	0.5	163	0.8
H755230		<0.002	0.08	0.38	41.4	2	0.5	162.5	0.15	0.06	0.2	0.506	0.02	0.1	246	0.5
H755231		<0.002	0.07	0.35	42.2	2	0.6	116.0	0.15	0.08	0.3	0.510	0.16	0.1	248	0.6
H755232		0.003	0.04	0.17	19.6	2	0.9	204	0.43	<0.05	2.6	0.423	0.39	0.6	126	0.7
H755233		<0.002	0.10	0.31	36.6	1	0.8	140.0	0.16	0.16	0.4	0.479	0.14	0.1	224	1.4
H755234		<0.002	0.01	0.36	51.7	2	0.6	129.5	0.16	0.10	0.3	0.540	0.04	0.1	258	1.2
H755235		<0.002	0.47	0.22	30.5	2	1.0	236	0.24	0.18	1.2	0.438	0.18	0.3	178	1.4
H755236		<0.002	0.20	0.23	35.6	1	0.5	305	0.14	0.15	0.2	0.441	<0.02	0.1	223	0.6
H755237		<0.002	0.26	0.07	21.1	1	0.9	277	0.26	0.35	6.9	0.400	0.29	1.9	170	22.6
H755238		<0.002	0.05	0.18	44.3	2	0.6	293	0.17	0.06	0.3	0.567	<0.02	0.1	268	1.9
H755239		<0.002	0.02	0.30	43.7	2	0.5	152.5	0.16	0.06	0.3	0.556	<0.02	0.1	263	0.7
H755240		0.002	1.30	0.07	35.9	3	0.5	205	0.13	1.17	0.2	0.483	0.17	0.1	208	3.5
H755241		0.002	0.28	0.19	48.0	2	0.7	234	0.17	0.28	0.3	0.527	0.04	0.1	254	0.7
H755242		<0.002	0.14	0.23	40.8	2	0.6	192.0	0.16	0.12	0.3	0.525	<0.02	0.1	245	0.6
H755243		0.003	0.76	0.17	38.1	2	0.5	162.0	0.16	1.20	0.3	0.514	0.15	0.1	236	1.0
H755244		<0.002	0.15	0.22	41.7	2	0.5	168.0	0.16	0.10	0.3	0.533	0.02	0.1	250	0.6
H755245		0.002	0.02	0.30	43.4	2	0.6	145.5	0.15	<0.05	0.3	0.542	<0.02	0.1	263	0.6
H755246																
H755247		<0.002	0.08	0.28	42.0	2	0.6	148.5	0.16	0.05	0.3	0.538	<0.02	0.1	256	0.7
H755248		0.041	1.46	0.07	33.6	3	0.7	262	0.20	0.70	1.6	0.462	0.24	0.4	211	1.2
H755249		0.002	0.50	0.24	14.3	2	1.0	138.5	0.30	0.14	1.9	0.319	0.13	0.5	91	1.2
H755250		<0.002	0.39	0.31	15.6	2	0.9	135.0	0.32	0.06	2.0	0.324	0.12	0.5	85	0.3
H755251		0.002	0.43	0.20	13.9	2	1.3	107.5	0.29	0.27	1.7	0.339	0.26	0.4	89	0.4
H755252		0.008	0.05	0.37	34.2	2	0.8	122.0	0.13	0.07	0.2	0.427	<0.02	0.1	207	0.6
H755253		0.002	0.08	0.40	40.0	2	0.6	155.0	0.14	0.06	0.3	0.492	<0.02	0.1	232	0.7
H755254		<0.002	0.04	0.39	42.8	1	0.5	153.5	0.15	0.05	0.3	0.513	<0.02	0.1	245	0.7
H755255		0.002	0.03	0.53	50.1	2	0.7	174.0	0.17	0.07	0.3	0.506	<0.02	0.1	236	0.8
H755256		0.003	0.05	0.45	41.4	2	0.7	164.5	0.15	<0.05	0.3	0.491	<0.02	0.1	237	0.7
H755257		<0.002	0.07	0.36	45.1	2	0.7	142.5	0.16	0.06	0.3	0.528	0.02	0.1	252	0.5
H755258		<0.002	0.13	0.24	57.3	2	0.6	129.5	0.16	0.07	0.3	0.526	<0.02	0.1	251	0.3
H755259		0.002	0.15	0.22	58.1	2	0.7	128.5	0.16	0.08	0.3	0.540	<0.02	0.1	263	0.2
H755260		<0.002	0.09	0.19	66.0	2	0.6	117.5	0.15	0.08	0.3	0.510	<0.02	0.1	251	0.2
H755261		<0.002	0.06	0.18	45.1	2	0.6	115.0	0.16	<0.05	0.3	0.540	<0.02	0.1	264	0.1
H755262		0.002	0.07	0.20	50.0	2	0.8	129.0	0.20	0.28	0.3	0.616	<0.02	0.1	288	0.2
H755263		0.002	0.12	0.24	47.2	2	0.6	129.5	0.18	<0.05	0.3	0.588	<0.02	0.1	268	0.2
H755264		<0.002	0.10	0.18	51.5	2	0.6	106.5	0.15	<0.05	0.3	0.503	<0.02	0.1	251	0.2

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131518

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H755225		23.7	78	38.0
H755226		20.2	84	27.4
H755227		19.0	100	17.3
H755228		20.9	98	31.9
H755229		15.5	463	54.9
H755230		21.5	94	23.5
H755231		21.2	115	29.7
H755232		17.5	57	80.0
H755233		19.3	99	28.3
H755234		23.6	91	23.9
H755235		17.7	94	38.4
H755236		17.1	94	20.4
H755237		18.9	83	134.0
H755238		20.1	86	15.8
H755239		21.2	77	18.3
H755240		18.4	89	28.9
H755241		23.4	99	27.6
H755242		20.0	82	26.6
H755243		19.4	102	26.9
H755244		19.6	93	31.3
H755245		20.8	94	24.2
H755246				
H755247		20.4	81	27.3
H755248		17.2	106	62.3
H755249		14.4	101	79.3
H755250		15.5	88	73.6
H755251		14.0	63	59.8
H755252		16.6	67	26.8
H755253		19.6	72	26.9
H755254		20.0	78	28.8
H755255		23.0	65	30.8
H755256		19.8	73	29.5
H755257		21.0	81	33.8
H755258		23.0	85	34.2
H755259		21.2	85	27.8
H755260		23.4	86	30.1
H755261		21.2	94	31.6
H755262		23.8	99	36.7
H755263		23.3	97	34.7
H755264		20.5	91	23.2

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131518

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H755265		0.07	7.32	0.2	20	0.29	0.01	5.85	0.08	9.08	50.0	161	0.12	102.0	8.71	18.40
H755266		0.07	7.48	<0.2	20	0.28	0.02	6.28	0.09	8.46	50.2	153	0.15	101.5	8.58	17.90
H755267		0.09	8.01	<0.2	100	0.30	0.09	7.15	0.08	7.77	51.2	161	2.14	116.0	8.54	17.50
H755268		0.09	7.78	<0.2	120	0.26	0.06	7.82	0.07	7.73	48.7	150	3.64	69.0	8.07	17.20
H755269		0.07	7.80	<0.2	80	0.26	0.09	8.63	0.05	8.34	48.4	154	2.55	58.0	8.10	17.40
H755270		0.27	7.90	0.5	50	0.28	0.73	8.04	0.06	8.98	51.4	154	0.74	405	8.27	17.85
H755271																
H755272		0.43	7.71	0.2	50	0.25	0.34	7.82	0.06	11.25	55.0	169	0.65	595	8.41	18.65
H755273		0.36	8.26	<0.2	90	0.33	0.40	8.26	0.09	14.95	61.3	162	1.65	265	8.35	19.15
H755274		0.12	8.42	<0.2	100	0.27	0.08	8.60	0.10	8.52	52.8	177	0.92	126.5	8.22	18.75
H755275		0.14	8.25	<0.2	800	0.61	0.07	6.30	0.06	8.30	53.7	185	8.09	179.5	6.99	18.55
H755276		0.02	2.94	<5	20	0.15	0.01	18.20	0.12	7.93	29.5	44	0.57	19.9	5.34	8.73
H755277		0.06	8.62	<0.2	1060	0.82	0.06	5.08	<0.02	11.75	53.0	252	7.96	111.5	5.53	20.6
H755278		0.03	7.48	<0.2	400	0.69	0.03	5.40	0.06	23.4	34.8	263	3.93	12.2	5.50	18.55
H755279		0.03	7.28	<0.2	470	0.77	0.03	4.99	0.07	29.2	35.8	247	3.79	11.9	4.92	17.75
H755280		0.02	6.94	0.2	440	0.67	0.02	5.21	0.09	30.5	37.8	281	3.77	2.8	5.21	18.05
H755281		0.08	8.04	<0.2	140	0.32	0.06	8.76	0.07	8.33	41.9	178	0.71	100.0	6.69	17.00
H755282		0.06	7.93	<0.2	50	0.26	0.06	9.65	0.08	7.66	49.0	177	0.22	110.0	8.15	17.40
H755283		0.08	6.89	<5	70	0.28	0.06	13.35	0.06	8.83	44.6	149	0.23	152.5	6.90	14.45
H755284		0.08	8.29	0.2	70	0.29	0.06	9.67	0.06	8.45	47.1	172	0.39	144.0	7.81	18.20
H755285		0.05	7.42	<5	70	0.23	0.03	12.20	0.08	7.24	41.4	133	0.47	86.7	7.11	15.25
H755286		0.11	7.89	<0.2	80	0.23	0.09	9.29	0.08	7.27	53.0	175	0.54	181.0	7.61	16.55
H755287		0.07	8.15	<0.2	350	0.28	0.10	9.13	0.07	8.39	42.6	167	1.70	110.0	8.32	16.90
H755288		0.08	7.64	<0.2	350	0.51	0.11	7.73	0.08	17.45	42.9	179	2.68	115.5	8.59	18.15
H755289		0.08	7.76	<0.2	150	0.36	0.06	8.56	0.08	10.60	40.0	184	0.42	139.5	8.87	19.20
H755290		0.06	7.56	<0.2	150	0.31	0.06	8.45	0.08	8.64	44.4	137	0.33	97.2	8.86	17.65
H755291		0.09	7.93	<0.2	110	0.28	0.04	8.41	0.09	10.20	47.9	151	0.36	124.0	8.82	18.05
H755292		0.06	8.71	0.5	80	0.13	0.05	9.39	0.07	7.28	42.9	167	0.32	106.5	8.15	14.45
H755293		0.05	9.66	0.8	100	0.18	0.05	8.67	0.07	9.08	51.6	193	0.48	107.5	8.63	17.35
H755294		0.03	8.44	<5	100	0.21	0.06	10.20	0.07	11.70	47.6	151	0.59	127.5	8.37	17.20
H755295		0.02	8.15	0.6	270	0.42	0.08	7.65	0.05	23.8	42.8	147	8.48	104.5	7.51	17.55
H755296																
H755297		0.03	8.63	0.8	230	0.25	0.07	8.60	0.08	10.70	50.7	165	0.67	84.6	8.16	17.35
H755298		0.07	8.57	<5	130	0.38	0.07	10.05	0.09	9.45	47.1	164	0.73	127.5	8.79	16.95
H755299		0.07	8.49	0.5	50	0.22	0.05	8.18	0.10	9.15	50.5	168	0.39	130.5	8.73	16.00
H755300		0.06	8.53	0.2	40	0.19	0.08	7.45	0.09	9.45	48.9	172	0.26	110.5	8.46	18.30
H755301		0.07	8.91	<0.2	40	0.31	0.28	7.83	0.12	8.46	48.3	181	0.30	115.5	8.89	15.85
H755302		0.07	8.78	0.2	50	0.07	0.20	7.70	0.07	7.72	44.6	181	0.21	144.5	8.91	15.00
H755303		0.05	8.81	0.6	50	0.18	0.14	9.19	0.12	8.96	53.2	179	0.22	111.5	8.76	16.85
H755304		0.08	9.06	<5	80	0.22	0.14	10.45	0.09	10.45	54.5	190	0.24	141.0	8.07	18.35

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131518

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Sample Description LOR	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	0.1
H755265	0.22	1.0	0.069	0.11	3.7	21.9	4.83	1260	0.22	1.22	2.4	137.0	260	0.7	0.9
H755266	0.17	0.9	0.063	0.13	3.4	18.6	4.68	1230	0.22	1.29	2.2	136.0	260	0.9	1.0
H755267	0.16	0.9	0.070	0.39	3.1	18.0	4.57	1250	0.22	1.39	2.1	136.5	250	1.1	20.2
H755268	0.16	0.8	0.058	0.55	3.2	19.0	4.36	1370	0.55	1.27	2.1	138.5	240	1.4	32.6
H755269	0.17	0.8	0.059	0.49	3.5	17.0	3.88	1440	0.52	1.06	2.3	130.0	260	1.4	23.9
H755270	0.17	0.9	0.076	0.33	3.7	20.9	3.69	1230	0.39	1.14	2.5	131.0	290	1.9	8.0
H755271															
H755272	0.16	0.9	0.089	0.35	4.7	20.9	3.51	1140	0.39	0.97	2.6	132.0	290	2.5	5.7
H755273	0.14	0.8	0.078	0.48	6.5	23.3	3.43	1230	0.33	0.87	2.8	129.0	330	5.0	18.8
H755274	0.14	0.9	0.066	0.32	3.5	16.4	3.35	1170	0.28	0.99	2.4	140.0	290	2.4	11.5
H755275	0.16	0.4	0.068	1.75	3.5	39.8	2.87	912	0.25	1.56	2.4	136.0	290	3.5	71.7
H755276	0.10	0.4	0.036	0.09	4.9	15.1	6.48	1900	0.06	0.11	0.9	74.1	160	1.1	2.4
H755277	0.14	0.4	0.057	2.04	4.5	55.5	2.66	749	0.14	2.58	2.9	159.5	380	4.0	59.8
H755278	0.13	1.9	0.048	1.02	11.6	42.5	5.13	968	0.53	2.10	2.5	213	440	2.7	38.8
H755279	0.13	1.9	0.043	1.10	14.8	37.2	5.03	913	0.75	2.41	2.3	218	480	3.0	39.7
H755280	0.13	2.0	0.047	0.91	15.5	32.8	5.59	1080	0.48	2.12	2.5	275	460	2.8	37.5
H755281	0.12	0.5	0.062	0.27	3.6	21.0	3.72	1420	0.25	1.18	2.2	125.5	190	2.2	7.5
H755282	0.14	0.5	0.062	0.20	3.0	14.6	3.22	1670	0.49	0.55	2.4	133.0	250	1.6	3.5
H755283	0.11	0.8	0.054	0.18	3.8	11.6	3.51	1880	0.99	0.53	2.0	129.0	250	1.7	4.4
H755284	0.14	0.6	0.070	0.23	3.4	15.0	2.90	1750	0.26	0.50	2.4	133.5	260	1.8	4.6
H755285	0.12	0.6	0.056	0.22	2.8	21.8	5.03	2400	0.34	0.63	2.0	114.0	140	1.4	7.0
H755286	0.15	0.8	0.069	0.21	2.9	16.9	3.52	1760	0.26	0.58	2.2	130.5	210	2.7	7.8
H755287	0.16	0.6	0.060	0.82	3.6	23.9	4.31	1380	0.23	0.73	2.1	125.5	230	2.2	27.7
H755288	0.18	1.1	0.072	0.82	8.3	25.8	3.85	1340	1.24	1.19	2.8	84.8	620	2.7	25.4
H755289	0.16	0.8	0.077	0.32	4.5	18.5	3.73	1280	0.20	0.74	2.7	74.3	270	2.4	7.4
H755290	0.14	0.8	0.068	0.35	3.5	22.8	4.78	1420	0.20	0.58	2.5	115.5	190	1.7	10.6
H755291	0.16	0.7	0.068	0.35	4.1	20.6	4.03	1440	0.28	0.78	2.6	151.0	280	2.1	7.9
H755292	0.05	0.6	0.061	0.18	2.9	20.7	4.21	1360	0.29	0.70	2.0	149.0	210	3.5	5.7
H755293	0.07	0.7	0.065	0.33	3.8	18.1	4.07	1310	0.21	0.87	2.3	162.5	280	2.7	10.8
H755294	0.12	0.8	0.067	0.30	5.2	17.6	4.73	1520	0.44	0.81	2.4	148.0	220	2.3	11.7
H755295	0.11	1.5	0.065	0.82	10.8	32.2	3.57	1020	0.33	1.25	3.2	115.5	400	2.8	36.0
H755296															
H755297	0.10	1.0	0.072	0.58	4.6	17.3	3.52	1280	0.15	1.23	2.5	140.0	290	2.2	20.6
H755298	0.09	0.8	0.075	0.36	3.9	15.4	4.53	1620	0.19	1.04	2.4	126.5	260	2.3	12.1
H755299	0.11	0.7	0.062	0.19	3.6	16.2	4.57	1450	0.24	1.08	2.3	141.5	280	1.8	5.0
H755300	0.10	0.9	0.071	0.17	3.6	12.6	4.56	1490	0.23	1.06	2.6	152.5	270	1.6	5.4
H755301	0.09	0.8	0.196	0.26	3.4	15.9	4.92	1550	2.33	0.95	2.1	148.0	270	1.7	9.6
H755302	0.06	0.8	0.057	0.20	3.1	18.1	4.87	1520	5.51	1.03	1.9	138.0	270	1.5	6.5
H755303	0.08	0.9	0.068	0.20	3.4	11.8	3.75	1720	2.13	1.02	2.3	142.5	280	1.4	5.6
H755304	0.10	0.9	0.077	0.19	4.4	12.5	2.66	1760	0.94	1.00	2.5	151.5	290	2.6	4.5

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131518

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
H755265		<0.002	0.09	0.19	67.4	2	0.7	103.5	0.16	0.05	0.3	0.505	<0.02	0.1	255	0.2
H755266		<0.002	0.09	0.19	61.6	2	0.6	101.0	0.15	0.07	0.3	0.489	<0.02	0.1	239	0.2
H755267		<0.002	0.13	0.20	43.5	2	0.6	103.5	0.14	0.05	0.2	0.488	0.15	0.1	241	0.2
H755268		0.002	0.06	0.28	49.7	2	0.5	109.5	0.14	0.06	0.3	0.475	0.26	0.1	240	0.4
H755269		<0.002	0.09	0.38	43.7	2	0.6	112.5	0.14	<0.05	0.2	0.499	0.17	0.1	240	0.6
H755270		<0.002	0.14	0.49	49.5	2	0.6	106.5	0.16	<0.05	0.3	0.525	0.05	0.1	249	0.7
H755271																
H755272		0.002	0.16	0.52	59.8	2	0.7	95.5	0.16	<0.05	0.4	0.550	0.06	0.1	263	0.5
H755273		<0.002	0.50	0.49	45.6	3	0.8	108.0	0.18	0.06	0.3	0.592	0.13	0.1	274	0.9
H755274		<0.002	0.16	0.42	45.6	2	0.7	131.5	0.16	<0.05	0.3	0.533	0.08	0.1	256	0.6
H755275		<0.002	0.40	0.16	45.5	3	0.6	251	0.16	0.39	0.3	0.534	0.47	0.1	257	0.4
H755276		<0.002	0.02	<0.05	17.0	1	0.3	113.5	0.06	<0.05	<0.2	0.168	0.02	<0.1	91	0.3
H755277		<0.002	0.23	0.17	57.0	2	0.7	437	0.19	0.10	0.3	0.601	0.55	0.1	279	0.8
H755278		<0.002	0.01	0.09	31.0	2	0.7	355	0.15	<0.05	3.2	0.337	0.21	0.8	189	0.3
H755279		<0.002	0.02	0.09	26.1	1	0.6	442	0.15	<0.05	3.2	0.310	0.23	0.8	167	0.3
H755280		<0.002	<0.01	0.08	24.9	1	0.6	416	0.16	<0.05	3.7	0.275	0.23	0.9	152	0.2
H755281		<0.002	0.10	0.29	42.5	2	0.6	188.5	0.15	<0.05	0.3	0.505	0.05	0.1	247	0.5
H755282		<0.002	0.20	0.50	43.2	2	0.6	113.0	0.15	0.05	0.2	0.505	0.03	0.1	246	0.5
H755283		<0.002	0.23	0.46	33.1	2	0.5	145.5	0.12	0.07	0.5	0.406	0.02	0.1	197	2.4
H755284		<0.002	0.26	0.73	45.9	2	0.6	118.5	0.15	<0.05	0.3	0.527	0.05	0.1	253	0.5
H755285		<0.002	0.07	0.32	37.9	2	0.5	97.8	0.13	<0.05	0.2	0.445	0.04	<0.1	223	0.5
H755286		<0.002	0.81	0.60	39.6	3	0.8	133.5	0.14	0.17	0.3	0.481	0.05	0.1	229	0.7
H755287		<0.002	0.22	0.61	41.5	2	0.6	194.0	0.14	<0.05	0.2	0.500	0.15	0.1	247	0.6
H755288		<0.002	0.28	0.55	45.1	2	0.8	278	0.19	0.06	1.2	0.567	0.14	0.3	271	0.9
H755289		<0.002	0.11	0.67	65.2	2	0.7	166.5	0.18	<0.05	0.4	0.625	0.05	0.1	312	0.8
H755290		<0.002	0.21	0.54	44.4	2	0.7	128.5	0.17	0.11	0.3	0.552	0.05	0.1	264	1.0
H755291		<0.002	0.11	0.59	59.5	2	0.6	172.5	0.17	<0.05	0.4	0.550	0.06	0.1	255	0.7
H755292		<0.002	0.25	0.51	32.6	1	0.6	165.5	0.17	<0.05	0.3	0.473	0.03	<0.1	220	0.7
H755293		<0.002	0.13	0.53	39.2	1	0.6	164.0	0.19	<0.05	0.2	0.519	0.05	0.1	249	1.4
H755294		<0.002	0.10	0.46	38.2	2	0.7	167.0	0.21	0.07	0.3	0.482	0.06	0.1	226	1.2
H755295		<0.002	0.08	0.35	35.5	1	0.8	284	0.23	0.10	1.1	0.499	0.13	0.3	213	4.7
H755296																
H755297		<0.002	0.14	0.45	39.1	1	0.7	214	0.21	0.14	0.3	0.522	0.11	0.1	238	2.2
H755298		<0.002	0.17	0.49	42.3	2	0.7	160.5	0.20	0.12	0.2	0.538	0.07	0.1	266	2.4
H755299		<0.002	0.22	0.36	39.3	2	0.6	144.0	0.18	<0.05	0.3	0.509	0.03	0.1	248	0.7
H755300		<0.002	0.21	0.43	43.6	2	0.7	155.0	0.19	1.14	0.3	0.497	0.03	0.1	242	0.6
H755301		0.016	0.44	0.38	36.7	2	0.5	142.0	0.17	<0.05	0.2	0.512	0.05	0.2	251	0.4
H755302		0.051	0.88	0.33	35.7	2	0.5	142.0	0.21	<0.05	0.2	0.514	0.04	<0.1	253	0.4
H755303		0.019	0.53	0.41	41.3	2	0.6	168.5	0.19	0.21	0.2	0.525	0.04	0.1	255	0.7
H755304		0.003	0.33	0.48	42.1	2	0.7	200	0.20	<0.05	0.4	0.541	0.02	0.1	256	0.9

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131518

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H755265		20.8	92	30.1
H755266		21.8	88	30.5
H755267		18.3	82	26.8
H755268		18.6	86	25.1
H755269		20.1	82	27.0
H755270		20.6	76	27.8
H755271				
H755272		22.1	81	31.0
H755273		20.5	101	31.6
H755274		18.4	90	31.0
H755275		17.0	79	16.2
H755276		8.6	75	14.2
H755277		19.0	65	15.3
H755278		12.9	75	74.8
H755279		12.2	69	70.7
H755280		11.5	80	76.9
H755281		17.9	73	16.1
H755282		19.5	84	16.5
H755283		16.0	72	26.0
H755284		19.6	76	18.6
H755285		18.2	88	25.0
H755286		18.6	71	25.5
H755287		17.7	72	15.7
H755288		22.4	82	41.0
H755289		23.5	81	23.4
H755290		21.0	83	26.9
H755291		24.3	87	20.7
H755292		17.7	80	16.9
H755293		21.0	85	15.1
H755294		22.2	93	21.1
H755295		20.3	80	44.9
H755296				
H755297		21.5	94	25.3
H755298		22.7	107	21.6
H755299		22.3	83	19.5
H755300		23.8	79	25.7
H755301		20.7	89	19.9
H755302		19.6	85	16.9
H755303		22.0	101	20.7
H755304		24.2	86	21.4

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131518

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H755305		0.07	9.11	<5	70	0.18	0.14	10.50	0.08	8.85	54.4	200	0.20	206	8.87	17.50
H755306		<0.01	8.68	<0.2	600	0.81	0.02	5.07	0.06	49.5	31.0	98	3.49	40.9	5.64	19.80
H755307		0.03	9.12	0.7	300	0.25	0.08	7.87	0.06	9.29	40.7	192	2.62	80.2	7.09	16.85
H755308		0.01	8.10	0.3	120	0.18	0.11	9.41	0.06	7.67	32.8	159	1.13	47.3	5.58	16.00
H755309		0.03	7.36	0.8	110	0.15	0.13	9.99	0.07	8.53	38.7	131	1.47	99.2	7.07	14.40
H755310		0.04	9.20	0.2	170	0.24	0.14	7.05	0.10	10.20	38.2	223	2.23	146.0	6.88	21.2
H755311		0.06	8.69	<5	50	0.21	0.11	10.15	0.09	8.28	32.0	165	0.32	80.1	6.83	15.85
H755312		0.06	6.80	<5	220	0.19	0.16	11.25	0.10	8.05	50.1	135	1.22	266	7.73	14.00
H755313		0.03	8.26	0.8	1060	1.20	0.07	4.96	0.06	86.3	28.9	98	5.38	104.5	5.14	19.20

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131518

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.1
H755305		0.10	0.8	0.071	0.19	3.5	8.8	2.90	1760	0.62	0.97	2.4	153.0	280	2.4	4.1
H755306		0.12	3.1	0.050	0.80	24.8	17.4	3.13	994	0.24	3.00	4.5	111.5	900	3.0	34.1
H755307		0.07	0.9	0.054	0.57	3.7	11.1	3.02	1540	0.51	2.00	2.3	131.0	250	2.2	27.4
H755308		0.07	0.6	0.069	0.25	2.9	7.6	3.25	1640	0.86	1.74	2.2	115.5	180	1.9	13.6
H755309		0.08	0.6	0.079	0.32	3.2	9.3	4.04	1890	0.79	1.08	1.9	115.5	250	1.6	15.7
H755310		0.09	0.6	0.064	0.44	3.9	9.4	2.13	1350	0.60	1.91	2.8	120.0	270	2.7	19.8
H755311		0.07	0.7	0.070	0.14	3.2	5.5	3.39	1640	0.65	1.21	2.1	95.6	210	2.5	4.0
H755312		0.08	0.7	0.069	0.38	3.4	10.9	4.80	2030	0.31	1.25	1.8	108.5	210	2.7	13.6
H755313		0.13	3.3	0.049	1.23	48.0	33.3	2.73	937	0.21	3.21	5.3	53.4	890	7.2	49.8

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131518

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
H755305		<0.002	0.30	0.45	43.2	2	0.8	222	0.20	0.51	0.3	0.549	0.04	0.1	265	0.9
H755306		0.002	0.05	0.13	19.0	2	0.9	641	0.29	0.19	3.5	0.554	0.23	1.0	146	0.4
H755307		<0.002	0.18	0.26	40.8	2	0.6	211	0.18	<0.05	0.3	0.555	0.19	0.1	272	0.7
H755308		0.004	0.15	0.32	39.7	1	0.6	138.5	0.17	0.08	0.2	0.488	0.09	0.1	224	1.0
H755309		0.004	0.33	0.35	36.9	2	0.6	103.0	0.15	0.10	0.2	0.431	0.10	0.1	221	0.7
H755310		0.003	0.51	0.29	52.3	2	0.7	145.5	0.24	0.05	0.3	0.596	0.16	0.1	275	0.9
H755311		0.002	0.20	0.38	37.4	2	0.7	130.0	0.18	0.10	0.2	0.518	0.03	<0.1	249	0.7
H755312		<0.002	1.35	0.27	32.1	2	0.6	200	0.14	0.07	0.2	0.389	0.08	0.1	207	0.5
H755313		<0.002	0.79	0.14	19.9	2	0.9	954	0.33	<0.05	8.2	0.378	0.29	1.9	143	0.3

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131518

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H755305		22.8	88	21.1
H755306		16.7	72	103.0
H755307		19.7	88	16.9
H755308		20.8	74	16.3
H755309		24.5	88	14.4
H755310		23.1	71	16.3
H755311		22.7	75	18.0
H755312		22.1	104	17.8
H755313		17.4	84	114.5

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131518

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 25-NOV-2009
Account: SUPDIA

CERTIFICATE TB09131519

Project: Thorne Lake

P.O. No.:

This report is for 107 Pulp samples submitted to our lab in Thunder Bay, ON, Canada on 13-NOV-2009.

The following have access to data associated with this certificate:

STEVE VAN HAAFTEN	THOMAS HART	MATT SOOLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS

To: **NORTHERN SUPERIOR RESOURCES INC**
ATTN: THOMAS HART
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 25-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131519

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H754626		0.15	5.87	<5	180	0.69	0.05	15.40	0.12	9.47	31.9	72	6.06	60.6	7.79	13.00
H754627		0.10	2.37	<5	10	0.38	0.01	18.35	0.07	6.11	15.3	32	0.68	48.6	6.67	5.38
H754628		0.11	2.46	<5	110	0.38	0.02	17.55	0.09	7.70	16.4	36	3.08	38.0	5.89	5.26
H754629		0.44	7.04	0.8	370	0.91	0.28	7.02	0.09	20.8	32.6	83	8.10	94.1	6.11	16.20
H754630		0.20	7.65	1.0	70	0.37	0.12	9.04	0.09	9.03	47.8	117	0.85	124.0	8.58	16.00
H754631		0.16	7.49	1.3	40	0.37	0.04	8.65	0.08	9.89	56.3	126	0.12	172.0	9.28	17.55
H754632		0.14	7.72	1.1	40	0.28	0.04	9.20	0.10	9.27	50.2	116	0.08	132.5	8.81	17.55
H754633		0.12	7.66	1.5	50	0.29	0.04	9.09	0.09	9.77	50.9	113	0.14	84.5	9.28	17.80
H754634		0.23	6.71	<5	150	0.39	0.09	10.30	0.08	8.02	43.8	108	0.74	186.5	7.91	14.45
H754635		0.15	7.78	1.5	60	0.31	0.08	9.68	0.11	9.75	49.5	111	0.23	102.0	8.30	17.85
H754636		0.09	6.58	5	60	0.20	0.18	12.50	0.15	7.82	35.2	95	0.64	70.5	7.06	16.00
H754637		0.15	8.07	<5	40	0.22	0.09	10.10	0.12	10.00	49.0	118	0.17	98.7	9.10	19.60
H754638		0.07	7.54	6.0	200	0.61	0.14	6.46	0.22	39.0	15.7	28	3.70	39.0	3.74	19.70
H754639		0.10	8.00	1.0	60	0.25	0.03	9.07	0.09	9.34	49.7	151	0.19	145.0	8.21	19.60
H754640		0.08	7.82	1.2	40	0.29	0.01	7.96	0.08	9.79	48.7	147	0.15	133.0	8.58	19.95
H754641		0.11	8.13	1.1	70	0.26	0.02	8.96	0.10	9.84	53.5	156	0.31	114.5	8.38	20.1
H754642		0.11	7.63	2.5	260	0.54	0.15	5.83	0.24	30.3	24.9	57	6.29	82.0	5.34	18.65
H754643		0.07	8.14	1.3	200	0.37	0.05	7.93	0.08	16.20	40.4	139	2.74	68.9	7.49	20.5
H754644		0.08	7.08	0.5	310	0.54	0.04	4.65	0.07	32.4	16.1	38	6.43	66.9	9.94	16.95
H754645		0.06	7.18	<5	120	0.30	0.02	12.65	0.11	10.50	42.6	114	0.63	82.7	7.08	15.70
H754646																
H754647		0.08	8.72	0.9	70	0.26	0.01	8.99	0.12	12.40	46.9	149	0.22	98.8	7.93	19.10
H754648		0.11	8.70	1.0	60	0.31	0.02	8.94	0.11	12.00	50.3	152	0.27	151.0	8.94	19.40
H754649		0.07	8.26	0.7	240	0.43	0.02	6.92	0.09	24.6	41.8	151	0.91	75.7	7.48	19.20
H754650		0.08	8.31	0.9	320	0.29	0.01	7.30	0.07	8.98	51.0	167	0.89	140.5	8.74	18.50
H754651		0.11	7.76	0.6	270	0.49	<0.01	6.27	0.09	22.1	56.5	274	1.40	134.5	7.85	18.05
H754652		0.06	8.24	0.6	270	0.37	0.02	8.48	0.09	18.45	45.5	162	1.66	65.3	7.57	18.20
H754653		0.06	6.46	<5	920	0.18	0.01	13.10	0.09	11.35	43.6	121	5.66	109.5	7.09	14.30
H754654		0.11	7.45	<5	110	0.27	0.04	10.80	0.11	7.94	43.6	138	0.48	95.7	8.07	16.90
H754655		0.06	7.25	0.2	340	0.45	0.02	9.30	0.10	13.55	43.2	156	1.43	86.0	7.68	16.40
H754656		0.07	7.62	0.5	230	0.43	0.02	6.35	0.08	22.9	46.4	175	0.91	103.5	7.53	17.70
H754657		0.08	7.81	0.3	410	0.45	0.02	6.06	0.07	28.2	44.8	179	2.09	72.7	7.48	18.50
H754658		0.09	7.12	0.2	730	1.17	<0.01	3.25	0.05	55.9	15.8	80	4.12	29.2	3.12	21.0
H754659		0.07	7.64	<0.2	330	0.63	<0.01	5.34	0.06	33.7	50.8	315	2.29	50.1	6.28	18.60
H754660		0.06	7.47	0.3	310	0.66	<0.01	5.60	0.07	39.4	43.2	233	1.70	49.3	5.96	18.35
H754661		0.13	7.87	<0.2	290	0.59	0.05	6.93	0.08	28.8	45.5	196	1.74	95.0	6.30	18.85
H754662		0.08	7.93	0.2	440	0.73	0.03	5.68	0.06	40.8	38.6	204	3.56	47.9	5.99	19.70
H754663		0.12	8.24	1.0	560	0.64	0.13	6.43	0.06	28.9	41.0	169	4.28	82.4	6.99	19.25
H754664		0.11	6.90	0.4	820	1.12	0.08	3.14	0.06	57.7	15.4	50	2.60	59.2	2.94	20.4
H754665		0.12	7.14	0.4	280	0.58	0.03	7.11	0.07	31.8	38.8	177	1.33	52.0	6.20	16.95

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 25-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131519

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.1
H754626		0.09	0.9	0.054	0.64	3.9	20.7	5.70	2070	1.18	0.30	2.2	69.6	220	3.9	27.9
H754627		0.06	0.5	0.018	0.05	3.0	7.0	7.09	2300	0.27	0.03	0.9	34.6	110	0.8	2.6
H754628		0.05	0.8	0.014	0.40	3.7	11.5	7.02	2170	0.66	0.09	1.1	43.8	140	1.2	15.2
H754629		0.08	1.7	0.042	1.22	10.0	26.8	2.57	1270	0.98	2.49	2.5	63.0	480	4.5	42.1
H754630		0.08	1.0	0.053	0.27	3.5	11.4	2.29	2140	1.63	1.69	2.4	81.2	310	3.1	5.4
H754631		0.10	1.1	0.074	0.16	3.9	13.5	2.44	2190	0.70	1.68	2.6	94.0	320	2.1	1.0
H754632		0.08	1.2	0.058	0.16	3.5	12.8	2.40	1800	0.38	1.28	2.5	88.2	320	2.1	0.9
H754633		0.11	1.3	0.067	0.21	3.7	14.9	2.84	1640	0.29	1.15	2.7	86.9	330	1.8	1.9
H754634		0.09	0.9	0.058	0.29	3.0	12.4	2.42	1680	0.53	1.82	2.2	75.9	290	2.0	7.3
H754635		0.10	0.8	0.067	0.23	3.7	11.4	2.32	1900	0.30	1.41	2.7	89.7	320	2.7	3.4
H754636		0.10	0.8	0.072	0.21	3.0	7.9	1.84	2010	0.62	0.77	2.3	76.0	290	5.0	7.4
H754637		0.12	1.2	0.081	0.21	3.8	9.2	2.42	1960	0.56	1.07	3.0	92.9	350	2.6	2.4
H754638		0.14	3.0	0.049	1.00	18.5	14.1	0.80	910	1.22	1.38	6.1	23.9	660	3.7	34.8
H754639		0.12	1.1	0.078	0.21	3.6	5.7	2.69	1730	0.44	1.51	3.0	73.4	350	1.9	2.0
H754640		0.13	1.3	0.081	0.19	3.7	7.2	3.00	1590	0.41	1.53	3.2	65.2	380	1.6	1.6
H754641		0.13	1.1	0.079	0.28	3.8	9.7	2.99	1420	0.36	1.20	3.0	94.2	340	2.0	4.6
H754642		0.13	2.4	0.058	1.22	14.5	19.8	1.10	1120	1.33	1.44	5.0	46.8	510	5.1	48.2
H754643		0.13	1.7	0.074	0.62	7.3	12.4	2.42	2200	0.52	1.14	3.7	74.0	380	2.7	29.0
H754644		0.16	2.4	0.035	1.18	14.7	21.7	2.55	3680	0.82	1.04	4.7	27.4	580	2.4	58.9
H754645		0.11	0.9	0.058	0.31	5.0	8.8	4.15	1880	0.89	0.95	2.2	108.0	260	2.1	13.9
H754646																
H754647		0.13	0.9	0.062	0.21	5.3	8.2	2.75	1510	0.72	1.42	2.7	107.5	350	2.0	3.0
H754648		0.14	1.0	0.068	0.24	5.0	9.6	3.53	1490	0.70	1.32	2.7	115.5	350	1.6	4.4
H754649		0.15	1.4	0.054	0.49	10.6	15.5	3.44	1280	0.50	1.92	3.0	102.0	460	2.3	13.7
H754650		0.14	0.8	0.060	0.58	3.8	16.4	2.68	1780	0.37	2.14	2.5	106.0	240	2.0	21.0
H754651		0.16	1.5	0.051	0.52	10.3	22.4	5.07	1350	0.51	1.73	2.8	259	400	2.2	19.2
H754652		0.13	1.1	0.057	0.56	8.3	13.9	3.03	1840	0.44	1.92	2.8	125.0	380	2.9	20.3
H754653		0.11	0.6	0.058	1.61	5.6	34.2	3.34	2760	0.53	0.88	2.1	102.5	270	2.0	58.1
H754654		0.11	0.9	0.069	0.25	3.4	8.5	3.21	2350	0.54	1.24	2.4	110.0	270	2.7	5.7
H754655		0.13	0.8	0.058	0.63	6.1	18.8	3.89	1800	0.34	1.64	2.4	138.0	320	2.6	20.6
H754656		0.15	1.4	0.054	0.49	10.7	17.2	4.78	1100	1.39	1.67	2.9	166.5	420	2.7	18.3
H754657		0.16	1.6	0.050	0.83	13.2	20.6	4.76	1120	0.34	2.01	3.1	165.0	480	3.1	31.1
H754658		0.17	2.9	0.025	1.29	27.2	21.2	1.54	486	0.27	3.17	5.1	45.4	690	5.2	43.7
H754659		0.18	2.0	0.035	0.71	15.8	36.5	6.33	1120	0.75	1.87	3.3	376	530	2.8	27.6
H754660		0.18	2.1	0.039	0.63	18.9	22.2	5.33	1060	0.49	2.33	3.2	246	560	3.2	23.6
H754661		0.16	1.7	0.054	0.61	13.8	18.0	4.37	1220	0.56	2.10	3.0	198.0	490	4.4	24.3
H754662		0.17	2.1	0.047	1.04	19.3	28.3	4.83	1080	2.07	2.38	3.4	171.0	640	4.1	38.9
H754663		0.18	1.6	0.057	1.31	13.7	28.0	3.63	1320	2.57	2.19	3.2	129.5	490	5.1	47.0
H754664		0.17	3.0	0.023	1.11	28.9	19.5	1.08	473	4.03	3.65	4.7	34.6	560	6.7	37.7
H754665		0.17	1.7	0.044	0.60	15.1	20.4	4.94	1280	0.71	1.83	2.9	183.5	480	3.5	23.2

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 25-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131519

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	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.1
H754626		0.003	0.21	1.55	32.8	2	0.5	148.5	0.15	<0.05	0.4	0.432	0.16	0.1	190	35.6
H754627		<0.002	0.34	0.10	13.7	1	0.2	60.4	0.05	0.51	0.2	0.169	0.02	0.1	87	5.4
H754628		<0.002	0.29	0.16	9.0	2	0.3	72.3	0.08	0.44	0.5	0.131	0.08	0.1	54	4.4
H754629		<0.002	0.97	0.11	27.4	2	0.6	342	0.17	0.76	2.0	0.415	0.24	0.5	175	12.9
H754630		<0.002	0.44	0.35	40.6	1	0.6	148.5	0.16	0.32	0.3	0.595	0.03	0.1	267	1.6
H754631		0.002	0.43	0.37	46.8	2	0.7	114.5	0.16	0.15	0.3	0.593	<0.02	0.1	275	0.6
H754632		<0.002	0.28	0.51	44.2	2	0.6	147.0	0.16	0.11	0.3	0.611	<0.02	0.1	278	0.9
H754633		<0.002	0.15	0.44	46.6	2	0.6	134.0	0.17	0.08	0.3	0.606	<0.02	0.1	276	0.6
H754634		<0.002	0.70	0.25	38.7	2	0.5	143.5	0.13	0.54	0.2	0.530	0.05	0.1	239	2.6
H754635		<0.002	0.19	0.47	46.1	2	0.6	161.0	0.17	0.16	0.3	0.601	0.02	0.1	275	0.8
H754636		0.002	0.29	0.63	35.4	2	0.5	191.0	0.15	0.34	0.2	0.505	0.05	0.1	225	2.8
H754637		0.002	0.24	0.53	42.7	2	0.7	169.5	0.19	0.06	0.3	0.622	0.02	0.1	285	0.8
H754638		0.002	0.35	0.46	13.5	2	1.1	210	0.44	0.08	3.0	0.360	0.17	0.7	82	0.5
H754639		<0.002	0.20	0.38	46.6	2	0.7	174.0	0.19	<0.05	0.3	0.639	0.02	0.1	300	0.4
H754640		0.003	0.22	0.46	46.9	2	0.7	179.0	0.20	<0.05	0.3	0.683	<0.02	0.1	314	0.5
H754641		0.002	0.12	0.52	47.4	2	0.7	190.5	0.19	0.06	0.3	0.618	0.03	0.1	298	0.8
H754642		<0.002	0.60	0.39	16.6	2	1.1	223	0.36	0.44	2.3	0.360	0.25	0.6	109	1.6
H754643		0.002	0.18	0.66	44.3	2	0.8	235	0.25	0.08	0.9	0.602	0.13	0.2	278	0.8
H754644		<0.002	0.52	0.38	13.5	2	0.8	163.5	0.33	0.12	2.4	0.321	0.28	0.5	89	0.5
H754645		0.002	0.22	0.58	33.4	2	0.5	203	0.14	0.09	0.4	0.441	0.06	0.1	208	2.2
H754646																
H754647		0.002	0.09	0.62	39.5	2	0.6	227	0.17	<0.05	0.6	0.536	0.02	0.1	252	1.0
H754648		0.002	0.18	0.79	40.4	2	0.6	231	0.17	0.11	0.6	0.533	0.03	0.1	256	0.8
H754649		0.002	0.12	0.43	34.2	2	0.6	310	0.17	<0.05	2.0	0.439	0.09	0.5	209	0.6
H754650		0.002	0.34	0.54	39.4	2	0.5	216	0.16	0.06	0.3	0.517	0.12	0.1	249	1.1
H754651		0.002	0.17	0.41	32.2	2	0.5	289	0.17	0.06	1.7	0.415	0.11	0.4	197	0.5
H754652		<0.002	0.14	0.75	35.4	2	0.6	328	0.16	<0.05	1.3	0.467	0.13	0.3	220	0.9
H754653		0.002	0.21	0.38	29.6	2	0.5	241	0.13	0.15	0.5	0.409	0.38	0.1	185	1.8
H754654		0.003	0.18	0.78	37.2	2	0.7	300	0.14	0.16	0.2	0.489	0.04	0.1	240	0.8
H754655		0.002	0.16	0.36	33.6	1	0.6	340	0.14	0.10	0.8	0.439	0.12	0.2	206	1.8
H754656		0.004	0.18	0.43	32.5	2	0.5	335	0.17	0.08	1.7	0.422	0.10	0.4	202	0.6
H754657		0.002	0.12	0.32	31.9	2	0.5	426	0.18	<0.05	2.2	0.428	0.19	0.5	199	0.5
H754658		<0.002	0.02	0.25	9.9	1	0.5	704	0.27	<0.05	5.1	0.268	0.36	1.3	65	0.3
H754659		<0.002	0.06	0.20	24.6	1	0.5	378	0.18	<0.05	3.2	0.364	0.17	0.7	158	2.9
H754660		<0.002	0.03	0.24	25.8	1	0.5	449	0.17	<0.05	3.4	0.341	0.15	0.8	154	0.4
H754661		<0.002	0.10	0.38	31.2	2	0.6	435	0.17	0.26	2.3	0.417	0.15	0.6	190	1.0
H754662		0.007	0.05	0.24	26.2	1	0.6	504	0.18	0.13	3.6	0.359	0.26	0.9	168	1.9
H754663		<0.002	0.40	0.26	31.4	2	0.7	554	0.18	0.35	2.3	0.436	0.30	0.6	201	4.0
H754664		<0.002	0.46	0.15	10.7	2	0.4	736	0.27	0.34	6.4	0.238	0.21	1.7	68	7.2
H754665		<0.002	0.16	0.32	25.3	1	0.5	400	0.16	0.21	2.7	0.342	0.13	0.6	160	0.8

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 25-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131519

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H754626		16.6	105	23.3
H754627		10.6	90	26.1
H754628		8.0	83	35.7
H754629		14.8	81	59.7
H754630		20.1	106	32.7
H754631		23.4	120	36.3
H754632		21.7	106	32.0
H754633		23.0	118	35.6
H754634		18.7	105	19.1
H754635		23.0	105	19.3
H754636		21.2	82	25.8
H754637		24.3	119	38.4
H754638		18.3	85	122.0
H754639		24.4	102	35.4
H754640		23.5	108	42.2
H754641		23.8	102	34.9
H754642		15.8	132	91.4
H754643		23.5	77	60.4
H754644		14.3	67	94.2
H754645		17.5	83	28.1
H754646				
H754647		20.9	100	27.6
H754648		20.9	104	35.4
H754649		16.8	92	51.6
H754650		24.0	92	25.8
H754651		15.7	98	54.2
H754652		18.2	101	38.7
H754653		15.7	123	20.9
H754654		19.4	103	27.5
H754655		16.7	92	27.0
H754656		16.9	80	51.6
H754657		15.7	85	59.0
H754658		8.6	50	113.0
H754659		11.9	96	73.4
H754660		11.5	79	77.1
H754661		14.6	83	61.0
H754662		12.6	85	80.7
H754663		15.9	96	59.7
H754664		8.7	44	117.5
H754665		12.6	85	62.9

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 25-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131519

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Sample Description LOR	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	0.05
H754666	0.18	7.37	1.3	200	0.45	0.08	8.64	0.05	21.9	44.2	194	1.36	94.8	7.69	16.75
H754667	0.36	7.66	1.3	610	0.72	0.22	7.33	0.07	17.45	54.5	157	6.14	170.0	7.79	18.60
H754668	0.11	7.51	<0.2	1290	1.93	0.12	3.08	0.04	66.2	10.1	23	2.87	51.9	2.94	20.8
H754669	0.07	6.76	<0.2	830	1.76	<0.01	4.94	0.07	59.5	32.7	379	5.64	31.9	4.53	17.30
H754670	0.15	7.41	0.2	810	0.79	0.08	6.51	0.05	34.1	34.5	159	7.35	55.5	7.62	18.65
H754671															
H754672	0.17	7.62	0.2	670	1.64	0.03	4.40	0.07	81.3	26.1	147	4.97	75.2	4.03	20.1
H754673	0.07	7.63	<0.2	920	1.55	0.07	4.21	0.06	83.0	24.7	147	4.25	43.1	3.97	19.80
H754674	0.11	7.75	0.5	800	1.55	0.06	4.19	0.06	79.7	22.9	152	3.01	91.1	3.93	19.55
H754675	0.11	7.64	<5	540	0.50	0.22	10.45	0.12	15.95	41.9	144	2.54	268	7.20	16.95
H754676	0.06	7.22	0.5	1220	2.41	0.06	4.78	0.06	67.7	27.1	307	4.62	108.5	4.29	18.20
H754677	0.04	6.92	0.3	1310	2.13	0.04	4.66	0.05	60.7	26.6	324	5.11	44.2	4.27	17.00
H754678	0.05	6.82	<0.2	1060	1.70	<0.01	4.65	0.07	55.0	34.6	492	5.06	62.2	4.63	17.15
H754679	0.05	6.61	<0.2	940	1.49	<0.01	4.84	0.07	65.0	34.7	481	4.47	38.1	4.77	16.85
H754680	0.04	7.61	0.4	1090	1.07	0.01	4.57	0.04	52.6	24.8	132	4.83	30.4	4.46	19.60
H754681	0.04	7.10	0.3	530	1.10	<0.01	3.79	0.03	48.4	20.6	130	1.95	14.1	2.95	19.65
H754682	0.05	7.33	0.2	1150	1.05	0.02	6.54	0.05	60.3	35.0	219	4.56	11.7	6.54	17.65
H754683	0.05	7.75	0.3	560	1.03	<0.01	4.19	0.04	46.9	24.6	153	1.89	18.7	3.59	19.95
H754684	0.06	7.82	0.2	650	1.15	<0.01	4.20	0.05	57.0	26.8	170	2.76	22.0	3.99	20.0
H754685	0.14	7.48	0.3	1150	1.05	0.05	4.81	0.04	55.3	32.1	188	6.23	29.9	5.16	19.75
H754686	0.06	7.49	0.3	1110	2.22	<0.01	4.75	0.04	68.2	28.9	289	5.01	21.7	4.75	18.80
H754687	0.12	6.90	<0.2	1070	1.89	0.03	4.55	0.05	50.0	25.2	292	6.17	21.1	4.17	17.25
H754688	0.56	7.29	<0.2	1020	1.70	0.43	4.14	0.04	68.3	28.9	307	6.51	25.3	4.53	19.30
H754689	0.13	6.80	0.4	790	1.46	0.01	2.79	0.03	48.0	17.8	116	3.97	29.4	2.46	19.85
H754690	0.26	7.12	<0.2	910	1.36	<0.01	4.52	0.04	49.8	26.0	194	5.68	60.6	3.68	17.70
H754691	0.09	6.90	0.3	780	1.08	0.06	3.12	0.03	38.7	17.6	105	3.52	19.1	2.89	20.4
H754692	0.05	7.18	<0.2	700	1.04	<0.01	3.45	0.04	47.3	20.4	156	3.03	33.8	3.52	20.5
H754693	0.04	7.24	0.5	660	1.05	<0.01	3.44	0.03	44.9	20.9	160	3.48	32.0	3.57	20.6
H754694	0.06	8.11	0.5	20	0.24	<0.01	9.08	0.10	8.76	46.9	158	0.14	66.8	8.38	17.45
H754695	0.06	8.04	0.7	20	0.23	<0.01	8.68	0.11	7.79	49.7	152	0.14	99.1	8.75	17.55
H754696															
H754697	0.09	7.68	0.6	70	0.22	<0.01	7.88	0.11	8.87	49.3	160	1.86	114.0	8.57	18.00
H754698	0.06	7.80	0.3	990	1.48	0.01	4.24	0.06	79.4	24.0	151	4.48	43.6	4.04	19.70
H754699	0.06	7.68	0.4	1050	1.56	0.03	4.13	0.05	81.5	23.5	148	4.21	36.0	3.88	19.45
H754700	0.08	8.08	0.8	120	0.28	0.03	8.04	0.10	8.70	49.8	172	2.00	84.8	8.86	18.35
H754701	0.09	7.54	0.9	70	0.28	0.03	7.20	0.12	9.34	47.8	166	0.76	101.5	8.59	17.90
H754702	0.09	7.85	0.7	40	0.31	0.04	7.68	0.13	9.10	50.2	166	0.11	116.5	9.21	18.90
H754703	0.07	6.67	<5	20	0.24	0.04	12.80	0.10	7.13	41.1	128	0.06	133.5	8.73	14.25
H754704	0.08	8.02	0.5	20	0.28	0.03	7.96	0.14	8.35	50.5	156	0.09	104.0	8.87	18.75
H754705	0.09	7.58	0.7	30	0.28	0.02	7.33	0.13	10.20	48.9	156	0.21	111.5	9.00	18.70

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 25-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131519

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.1
H754666		0.09	1.3	0.051	0.55	10.6	19.3	4.80	1350	0.78	1.63	2.4	184.5	380	2.9	19.9
H754667		0.14	1.3	0.055	1.75	8.3	30.5	3.41	1250	4.70	2.91	2.6	139.5	330	4.2	67.5
H754668		0.19	3.5	0.023	1.49	32.5	20.0	0.87	634	6.07	3.85	5.5	13.0	860	10.7	54.7
H754669		0.18	2.8	0.033	1.94	29.8	34.6	5.22	901	0.75	2.63	4.7	175.5	1250	4.2	77.4
H754670		0.17	1.9	0.042	2.06	16.2	45.2	3.72	2430	1.91	1.84	3.9	152.0	560	4.5	90.9
H754671																
H754672		0.22	3.0	0.045	1.56	40.0	26.6	2.87	819	1.22	3.32	9.1	98.7	970	7.9	61.6
H754673		0.21	3.0	0.037	1.63	40.9	30.6	2.87	724	0.27	3.52	9.0	96.1	990	7.4	63.4
H754674		0.21	3.0	0.032	1.31	39.6	21.3	2.91	758	1.46	3.52	8.7	96.1	990	7.7	51.7
H754675		0.15	1.1	0.071	1.19	7.8	17.1	2.82	2460	34.7	1.17	2.7	111.0	350	5.8	54.7
H754676		0.20	3.4	0.029	2.11	32.5	36.7	4.37	837	3.42	2.85	5.7	98.1	1450	7.4	105.0
H754677		0.21	3.1	0.029	2.38	29.9	41.5	4.53	785	0.12	2.58	5.3	110.0	1420	6.7	113.0
H754678		0.20	2.9	0.030	2.12	25.9	37.5	6.06	811	0.14	2.55	4.5	211	1300	5.2	102.5
H754679		0.19	2.7	0.033	1.90	31.5	30.8	6.00	895	0.11	2.52	4.2	204	1250	4.8	86.9
H754680		0.19	2.6	0.032	1.89	25.5	32.3	2.89	723	0.19	2.70	4.1	81.6	1050	7.6	83.0
H754681		0.19	2.9	0.023	0.90	22.5	18.9	2.28	558	0.36	3.25	4.5	101.5	670	6.4	32.7
H754682		0.19	2.1	0.043	1.87	28.5	30.1	4.46	1450	0.10	2.05	8.3	72.8	1250	6.0	78.3
H754683		0.18	3.0	0.027	0.89	21.9	18.9	2.75	662	1.54	3.22	4.6	117.5	750	5.9	31.5
H754684		0.20	3.2	0.029	1.15	27.6	23.5	3.07	736	0.29	3.18	4.9	127.0	870	5.8	39.6
H754685		0.21	2.7	0.040	2.17	27.3	42.9	3.93	1000	2.10	2.41	4.3	105.5	970	4.9	90.5
H754686		0.22	3.3	0.031	1.91	33.4	31.8	4.24	942	0.20	3.04	5.4	91.5	1450	5.8	80.3
H754687		0.18	3.2	0.030	2.30	24.8	37.2	4.10	777	0.16	2.65	5.3	89.6	1390	4.3	93.0
H754688		0.22	3.4	0.029	2.34	34.4	42.4	4.25	769	0.33	2.70	5.5	98.7	1430	4.5	98.9
H754689		0.18	3.0	0.020	1.49	22.4	25.9	1.87	412	0.16	3.54	4.1	61.1	710	6.0	55.2
H754690		0.21	2.9	0.029	2.06	24.7	38.4	3.26	758	1.23	2.58	4.5	107.5	870	5.0	84.8
H754691		0.17	2.9	0.019	1.51	17.8	26.3	1.87	489	0.51	3.35	4.0	78.1	610	5.1	50.6
H754692		0.20	3.0	0.022	1.46	22.0	26.3	2.56	558	0.23	3.07	4.2	114.0	660	4.5	42.2
H754693		0.19	3.0	0.020	1.53	20.5	27.4	2.60	543	0.18	3.02	4.3	118.5	670	4.4	46.3
H754694		0.16	1.2	0.064	0.14	3.4	9.8	4.00	1540	0.39	1.12	2.5	142.5	300	1.7	1.6
H754695		0.16	1.1	0.063	0.15	3.0	10.0	4.25	1530	0.28	1.06	2.3	136.0	290	1.6	1.8
H754696																
H754697		0.18	1.1	0.061	0.35	3.6	13.9	4.12	1460	0.39	1.16	2.2	131.0	260	1.8	13.4
H754698		0.22	2.9	0.033	1.60	39.4	37.4	2.99	726	0.62	3.37	8.6	96.5	1000	7.2	57.4
H754699		0.24	3.0	0.034	1.53	40.9	37.1	2.91	697	0.77	3.48	8.6	95.9	980	8.1	55.2
H754700		0.19	1.0	0.062	0.46	3.5	16.5	4.41	1500	0.76	1.52	2.4	133.5	270	2.7	20.6
H754701		0.18	1.2	0.066	0.25	3.7	13.8	4.00	1460	0.35	1.93	2.4	120.0	270	2.3	9.5
H754702		0.18	1.3	0.066	0.17	3.5	12.5	4.07	1450	0.47	1.67	2.5	122.5	300	2.0	1.8
H754703		0.14	0.8	0.052	0.13	2.8	11.8	3.95	2040	0.28	0.95	2.1	97.8	230	1.5	1.0
H754704		0.16	1.3	0.068	0.14	3.2	12.8	4.11	1420	0.30	1.18	2.5	122.0	290	1.9	1.3
H754705		0.18	1.3	0.067	0.15	4.1	16.9	4.40	1300	0.30	1.13	2.6	121.0	300	2.1	2.7

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 25-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131519

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	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.1
H754666		<0.002	0.65	0.32	33.3	3	0.7	342	0.16	0.24	1.6	0.421	0.11	0.4	195	2.2
H754667		0.003	2.95	0.22	31.8	3	0.7	451	0.16	0.86	1.2	0.446	0.42	0.3	192	29.3
H754668		<0.002	0.39	0.16	6.3	2	0.7	910	0.31	0.18	7.6	0.200	0.34	2.0	61	8.7
H754669		<0.002	0.05	0.11	18.3	1	0.7	759	0.21	<0.05	5.3	0.293	0.45	1.4	118	3.0
H754670		<0.002	0.63	0.12	22.9	2	0.6	544	0.24	0.61	2.7	0.370	0.53	0.6	159	8.0
H754671																
H754672		<0.002	0.12	0.18	15.0	1	0.7	930	0.35	<0.05	6.2	0.282	0.38	1.7	93	0.6
H754673		<0.002	0.11	0.18	14.5	1	0.6	1070	0.35	0.06	6.4	0.280	0.41	1.7	92	0.6
H754674		<0.002	0.07	0.25	14.7	1	0.7	1080	0.36	0.08	6.1	0.281	0.35	1.6	93	1.7
H754675		0.005	0.20	0.65	35.7	2	0.8	591	0.17	0.12	0.8	0.467	0.31	0.2	219	3.5
H754676		<0.002	0.03	0.16	19.1	1	0.8	1100	0.27	<0.05	6.9	0.285	0.61	1.9	116	1.0
H754677		<0.002	0.02	0.12	17.9	1	0.7	1025	0.24	<0.05	6.4	0.280	0.61	1.7	114	0.9
H754678		<0.002	0.02	0.11	19.8	1	0.7	964	0.21	0.06	5.2	0.305	0.55	1.3	122	0.7
H754679		<0.002	0.03	0.12	20.1	1	0.7	898	0.20	<0.05	4.8	0.312	0.46	1.2	123	0.6
H754680		<0.002	0.02	0.15	18.1	1	0.7	1150	0.24	0.10	4.4	0.375	0.46	1.2	129	0.5
H754681		<0.002	<0.01	0.15	11.1	1	0.5	919	0.26	0.25	4.0	0.311	0.18	0.9	74	0.4
H754682		<0.002	0.02	0.22	28.8	2	0.7	869	0.28	0.10	4.4	0.440	0.39	1.2	204	0.8
H754683		<0.002	0.01	0.15	12.4	1	0.5	902	0.28	<0.05	4.2	0.360	0.17	1.0	88	0.7
H754684		<0.002	0.01	0.16	13.9	1	0.6	915	0.28	<0.05	5.1	0.350	0.21	1.2	97	0.5
H754685		<0.002	0.21	0.11	21.6	2	0.6	700	0.23	0.20	4.5	0.396	0.48	1.1	148	9.9
H754686		<0.002	0.03	0.11	20.2	1	0.7	942	0.26	0.06	6.7	0.308	0.42	1.8	128	1.4
H754687		<0.002	0.13	0.07	17.5	1	0.7	730	0.25	0.13	6.6	0.271	0.52	1.7	111	3.0
H754688		<0.002	0.49	0.07	18.6	2	0.8	624	0.26	1.04	6.9	0.279	0.52	1.9	119	4.1
H754689		<0.002	0.11	0.07	9.8	2	0.4	985	0.25	0.35	4.9	0.256	0.32	1.3	68	2.0
H754690		<0.002	0.09	0.11	14.9	1	0.5	726	0.24	0.08	4.9	0.301	0.43	1.3	96	1.7
H754691		<0.002	0.07	0.10	9.1	1	0.4	719	0.25	0.05	4.0	0.274	0.28	0.9	67	4.6
H754692		<0.002	0.02	0.14	11.8	1	0.5	709	0.25	<0.05	4.4	0.303	0.26	1.0	77	0.3
H754693		<0.002	0.01	0.08	11.4	1	0.5	696	0.26	<0.05	4.1	0.303	0.27	1.0	76	0.2
H754694		<0.002	0.08	0.43	38.9	2	0.6	136.0	0.16	<0.05	0.3	0.514	<0.02	0.1	235	0.2
H754695		<0.002	0.12	0.39	38.9	2	0.6	118.0	0.15	0.43	0.2	0.498	0.02	<0.1	233	0.2
H754696																
H754697		<0.002	0.10	0.32	58.7	2	0.5	140.5	0.15	0.08	0.3	0.492	0.11	0.1	250	0.3
H754698		<0.002	0.08	0.15	14.6	1	0.7	1090	0.35	<0.05	6.0	0.285	0.38	1.6	95	0.6
H754699		<0.002	0.12	0.14	14.4	1	0.7	1090	0.35	<0.05	6.1	0.276	0.37	1.7	91	0.6
H754700		<0.002	0.12	0.33	42.6	2	0.5	178.0	0.15	0.06	0.3	0.497	0.14	0.1	248	0.4
H754701		<0.002	0.11	0.34	55.0	2	0.6	176.0	0.16	0.07	0.3	0.498	0.06	0.1	241	0.3
H754702		<0.002	0.16	0.28	52.0	2	1.0	137.5	0.16	0.07	0.3	0.546	0.02	0.1	261	0.3
H754703		<0.002	0.27	0.32	33.4	2	0.6	95.6	0.14	0.06	0.2	0.438	<0.02	0.1	203	0.2
H754704		<0.002	0.12	0.34	43.4	2	0.6	111.5	0.16	0.22	0.2	0.532	<0.02	0.1	257	0.2
H754705		<0.002	0.13	0.25	63.3	2	0.6	114.5	0.16	0.09	0.4	0.544	0.03	0.1	259	0.1

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 25-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131519

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H754666		16.5	87	32.1
H754667		15.8	82	46.4
H754668		13.3	46	144.0
H754669		11.1	83	108.0
H754670		13.8	88	73.7
H754671				
H754672		10.8	68	114.5
H754673		10.5	75	115.5
H754674		10.5	73	116.5
H754675		18.3	105	38.6
H754676		12.8	78	129.5
H754677		12.5	70	120.0
H754678		11.5	75	108.5
H754679		10.9	86	103.5
H754680		12.8	62	98.5
H754681		9.3	45	110.0
H754682		17.8	110	80.5
H754683		10.4	57	114.0
H754684		11.3	64	120.5
H754685		13.1	92	100.5
H754686		13.3	90	125.0
H754687		11.8	76	121.0
H754688		11.6	81	130.0
H754689		8.0	43	108.5
H754690		10.0	62	111.0
H754691		7.7	49	106.5
H754692		9.3	61	117.0
H754693		8.8	61	115.0
H754694		23.0	82	35.4
H754695		21.2	86	33.2
H754696				
H754697		22.1	92	32.7
H754698		10.6	75	110.5
H754699		10.3	68	113.0
H754700		20.2	91	31.0
H754701		23.1	96	36.2
H754702		24.0	97	41.6
H754703		17.9	91	25.4
H754704		22.6	93	39.0
H754705		24.5	99	41.6

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 25-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131519

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H754706		0.04	7.26	<0.2	660	1.05	0.03	2.69	0.04	42.6	9.5	32	3.15	17.3	2.60	21.5
H754707		0.04	7.23	<0.2	650	1.06	0.03	2.68	0.04	38.5	9.2	30	2.94	14.8	2.59	21.4
H754708		0.03	7.36	<0.2	740	1.08	0.01	2.79	0.04	41.0	9.3	34	2.45	13.0	2.70	21.8
H754709		0.08	6.37	0.5	140	0.34	0.06	7.16	0.09	20.0	15.0	26	4.99	117.0	13.70	15.25
H754710		0.06	8.08	<5	40	0.26	0.05	10.15	0.07	8.62	49.6	177	0.10	151.5	8.12	17.90
H754711		0.07	8.08	0.8	40	0.24	0.01	7.70	0.12	7.86	52.4	172	0.11	110.5	8.60	17.40
H754712		0.06	8.44	0.4	30	0.25	0.01	8.04	0.12	8.00	53.4	177	0.10	105.5	8.96	18.45
H754713		0.08	8.36	1.1	40	0.25	0.01	8.81	0.13	7.85	52.5	168	0.08	134.5	8.50	17.45
H754714		0.06	8.19	0.9	80	0.26	0.02	9.10	0.12	8.23	52.0	173	0.06	94.2	8.32	17.95
H754715		0.05	8.28	0.6	50	0.25	0.02	9.35	0.11	13.30	49.7	144	0.05	92.9	7.69	18.25
H754716		0.07	8.28	<0.2	30	0.27	0.01	7.92	0.14	8.17	52.8	173	0.07	122.0	8.88	18.10
H754717		0.08	7.90	0.2	30	0.25	0.01	7.64	0.13	8.35	53.0	175	0.09	131.5	8.72	18.25
H754718		0.07	8.26	<0.2	40	0.25	0.01	8.02	0.14	8.22	54.3	179	0.10	127.5	8.98	18.45
H754719		0.08	8.12	<5	50	0.23	0.01	10.70	0.13	8.06	51.0	159	0.05	101.0	7.61	17.35
H754720		0.06	7.58	<5	50	0.24	<0.01	11.35	0.15	7.54	48.5	157	<0.05	100.5	6.79	16.40
H754721																
H754722		0.06	7.57	<5	50	0.23	<0.01	11.55	0.11	7.51	48.7	152	<0.05	104.0	7.03	16.15
H754723		0.06	8.38	<5	50	0.25	<0.01	10.45	0.13	7.75	50.7	163	<0.05	103.0	7.57	17.50
H754724		0.06	8.11	1.1	40	0.23	0.01	9.21	0.12	8.03	51.9	164	<0.05	104.5	8.13	18.00
H754725		0.07	8.28	1.9	40	0.26	<0.01	8.88	0.10	7.76	50.7	172	<0.05	109.5	8.11	17.40
H754726		0.06	8.16	0.7	30	0.23	0.01	8.09	0.13	7.86	51.2	171	<0.05	120.5	8.63	17.45
H754727		0.09	8.10	<0.2	30	0.24	0.01	7.65	0.16	7.80	49.9	174	<0.05	145.5	8.66	17.25
H754728		0.05	8.38	0.3	40	0.25	0.01	8.62	0.13	8.17	51.8	184	<0.05	120.5	8.52	18.00
H754729		0.06	7.76	<5	40	0.22	<0.01	10.65	0.13	7.20	48.1	159	<0.05	117.5	7.75	16.30
H754730		0.06	8.16	1.0	40	0.26	0.01	9.31	0.12	7.63	50.2	173	<0.05	115.5	8.08	17.20
H754731		0.04	7.91	<5	40	0.25	<0.01	11.05	0.10	7.39	48.9	157	<0.05	83.2	7.19	16.55
H754732		0.05	7.92	5	30	0.24	<0.01	11.30	0.13	7.53	48.5	155	<0.05	110.0	7.27	16.55

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 25-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131519

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.1
H754706		0.19	2.9	0.024	1.16	20.8	23.2	0.84	479	0.23	3.64	4.1	20.2	530	10.9	49.3
H754707		0.19	2.9	0.024	1.17	18.1	22.5	0.82	473	0.22	3.75	4.0	19.1	540	10.2	45.4
H754708		0.19	3.0	0.030	1.42	19.3	23.6	0.85	531	0.39	3.58	4.1	19.5	560	11.0	51.7
H754709		0.20	1.7	0.044	0.82	9.3	16.2	2.10	4750	0.56	0.61	3.5	24.4	520	1.3	57.2
H754710		0.16	1.1	0.069	0.14	3.5	5.7	2.41	2400	0.36	1.15	2.4	136.5	280	1.7	2.2
H754711		0.16	1.2	0.063	0.10	2.9	12.5	4.47	1400	0.27	1.48	2.4	137.0	270	1.0	1.3
H754712		0.20	1.3	0.066	0.11	2.9	12.7	4.42	1300	0.24	1.27	2.5	138.5	290	1.1	1.3
H754713		0.20	1.2	0.066	0.12	2.9	9.7	3.97	1440	0.24	1.33	2.4	138.0	280	1.1	1.4
H754714		0.19	1.1	0.068	0.11	3.0	10.8	3.48	1840	0.30	1.67	2.5	135.0	260	1.5	1.1
H754715		0.17	1.3	0.065	0.11	5.5	9.2	3.03	1640	0.29	1.48	2.5	122.0	320	1.6	1.0
H754716		0.19	1.2	0.067	0.10	3.0	13.2	4.46	1320	0.25	1.32	2.5	134.5	290	1.3	1.0
H754717		0.18	1.1	0.067	0.10	3.0	14.6	4.41	1200	0.31	1.26	2.4	134.5	270	1.6	1.1
H754718		0.18	1.1	0.067	0.12	3.0	14.9	4.35	1340	0.26	1.34	2.5	141.5	290	2.0	1.3
H754719		0.15	1.0	0.065	0.11	3.0	11.5	2.88	1840	0.27	1.42	2.3	133.5	270	3.8	0.9
H754720		0.14	0.9	0.059	0.15	2.8	11.6	2.51	2100	0.26	1.55	2.2	124.5	250	3.1	1.1
H754721																
H754722		0.14	0.9	0.061	0.11	2.7	10.2	2.57	2030	0.23	1.49	2.2	128.0	250	2.4	0.8
H754723		0.15	1.0	0.062	0.13	2.8	10.4	2.87	1760	0.34	1.70	2.3	133.5	270	1.7	0.9
H754724		0.14	1.1	0.064	0.14	3.0	11.4	3.26	1650	0.25	1.44	2.4	132.5	270	1.2	0.9
H754725		0.15	1.0	0.063	0.12	2.8	10.8	3.48	1520	0.32	1.39	2.3	134.0	270	1.1	0.8
H754726		0.14	1.2	0.065	0.09	2.9	10.0	4.31	1280	0.22	1.20	2.3	132.0	270	1.0	0.7
H754727		0.16	1.2	0.064	0.09	2.8	11.6	4.37	1290	0.46	1.24	2.3	130.0	280	1.0	0.7
H754728		0.14	1.2	0.068	0.12	2.9	10.1	3.69	1410	0.25	1.48	2.4	136.5	270	2.0	1.0
H754729		0.13	1.0	0.061	0.10	2.6	8.4	2.68	1860	0.20	1.59	2.2	126.0	260	1.2	0.6
H754730		0.15	1.1	0.063	0.11	2.8	7.5	2.67	1600	0.23	1.52	2.3	132.0	270	1.2	0.7
H754731		0.12	0.9	0.060	0.08	2.7	11.0	2.86	2120	0.26	1.45	2.2	127.5	250	1.2	0.5
H754732		0.12	1.0	0.063	0.09	2.7	7.7	2.45	1990	0.19	1.17	2.2	128.5	260	0.8	0.5

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 25-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131519

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
H754706		<0.002	0.08	0.13	6.6	2	0.7	654	0.26	0.05	4.6	0.235	0.34	1.3	39	0.3
H754707		<0.002	0.05	0.12	6.2	1	0.6	652	0.25	<0.05	4.1	0.230	0.31	1.2	39	0.4
H754708		<0.002	0.05	0.13	6.6	2	0.7	670	0.26	<0.05	4.4	0.244	0.35	1.3	41	0.3
H754709		<0.002	0.81	0.18	11.0	2	0.9	37.2	0.25	0.09	1.2	0.284	0.43	0.3	78	0.3
H754710		<0.002	0.28	0.35	48.4	2	0.6	153.0	0.15	<0.05	0.3	0.516	0.02	0.1	250	0.4
H754711		0.002	0.06	0.22	41.8	2	0.5	123.5	0.14	0.07	0.3	0.503	0.02	0.1	247	0.2
H754712		0.002	0.09	0.25	42.4	2	0.5	109.0	0.15	0.07	0.3	0.528	<0.02	0.1	258	0.2
H754713		0.002	0.10	0.29	40.4	2	0.5	137.0	0.14	0.07	0.2	0.508	<0.02	0.1	248	0.2
H754714		<0.002	0.11	0.27	42.3	2	0.6	223	0.14	0.19	0.3	0.513	<0.02	0.1	249	0.2
H754715		<0.002	0.08	0.23	38.6	2	0.5	180.5	0.14	0.06	0.6	0.507	<0.02	0.1	238	0.2
H754716		0.002	0.07	0.20	41.5	2	0.6	111.5	0.14	0.07	0.2	0.523	<0.02	0.1	255	0.2
H754717		0.002	0.07	0.22	43.5	2	0.5	104.5	0.14	<0.05	0.3	0.509	<0.02	0.1	250	0.3
H754718		0.002	0.13	0.19	44.7	2	0.5	109.5	0.15	0.07	0.3	0.530	<0.02	0.1	260	0.4
H754719		0.002	0.12	0.21	39.8	2	0.5	141.0	0.14	0.06	0.2	0.494	<0.02	0.1	242	0.4
H754720		0.002	0.10	0.15	37.8	2	0.5	142.5	0.13	0.06	0.2	0.468	<0.02	<0.1	227	0.4
H754721																
H754722		0.002	0.19	0.16	38.5	2	0.5	140.5	0.13	0.08	0.2	0.467	<0.02	<0.1	227	0.4
H754723		0.002	0.13	0.21	40.0	2	0.5	153.0	0.13	<0.05	0.2	0.507	<0.02	0.1	247	0.6
H754724		<0.002	0.10	0.26	41.1	2	0.5	140.5	0.14	0.21	0.2	0.503	<0.02	0.1	244	0.4
H754725		<0.002	0.06	0.24	40.2	2	0.5	124.0	0.14	0.06	0.2	0.511	<0.02	0.1	246	0.3
H754726		<0.002	0.11	0.19	40.0	2	0.6	102.5	0.14	0.05	0.2	0.504	<0.02	0.1	244	0.3
H754727		0.002	0.08	0.19	39.9	2	0.5	97.0	0.14	0.07	0.2	0.506	<0.02	0.1	245	0.6
H754728		0.002	0.17	0.18	41.0	2	0.5	131.0	0.15	0.31	0.3	0.521	<0.02	0.1	253	0.4
H754729		0.002	0.11	0.14	36.5	2	0.5	176.0	0.13	<0.05	0.2	0.477	<0.02	<0.1	232	0.2
H754730		0.002	0.13	0.24	39.4	2	0.5	217	0.14	0.05	0.2	0.505	<0.02	0.1	246	0.2
H754731		0.002	0.14	0.14	37.8	2	0.5	122.0	0.14	<0.05	0.2	0.483	<0.02	0.1	234	0.3
H754732		<0.002	0.12	0.15	37.9	2	0.5	125.5	0.13	<0.05	0.2	0.487	<0.02	<0.1	236	0.2

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 25-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131519

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H754706		8.8	64	103.5
H754707		8.4	62	103.5
H754708		8.8	68	105.5
H754709		11.7	133	67.1
H754710		22.5	88	32.4
H754711		19.7	93	35.4
H754712		20.1	94	37.8
H754713		19.5	92	34.5
H754714		20.0	102	29.6
H754715		19.7	92	37.9
H754716		20.1	95	35.5
H754717		20.6	90	34.0
H754718		20.6	95	32.9
H754719		19.4	89	27.5
H754720		19.4	86	25.7
H754721				
H754722		19.4	82	22.1
H754723		19.2	88	28.5
H754724		19.7	92	29.9
H754725		19.1	91	30.4
H754726		19.6	88	36.6
H754727		19.3	91	33.6
H754728		20.1	92	33.2
H754729		17.9	90	26.4
H754730		18.9	90	31.2
H754731		18.5	94	24.4
H754732		18.7	87	27.0

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 25-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09131519

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 24-NOV-2009
Account: SUPDIA

CERTIFICATE TB09132068

Project: Thorne Lake

P.O. No.:

This report is for 75 Pulp samples submitted to our lab in Thunder Bay, ON, Canada on 13-NOV-2009.

The following have access to data associated with this certificate:

STEVE VAN HAAFTEN	THOMAS HART	MATT SOOLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS

To: **NORTHERN SUPERIOR RESOURCES INC**
ATTN: THOMAS HART
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 24-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09132068

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05
H754551		0.25	6.48	4.5	330	0.87	0.12	8.90	0.07	25.3	32.7	117	2.70	33.2	6.09	15.55
H754552		0.35	4.67	<5	110	0.62	0.09	12.80	0.19	15.20	25.3	26	3.29	79.8	6.76	11.75
H754553		2.34	0.77	<5	10	0.27	0.30	14.15	0.13	20.2	17.6	5	0.27	50.4	5.09	2.22
H754554		0.23	7.28	3.6	30	0.52	0.13	5.22	0.06	26.7	19.4	29	0.36	54.3	8.31	16.95
H754555		0.43	7.61	3.3	20	0.48	0.12	6.63	0.07	16.50	34.0	43	0.23	87.6	9.90	20.2
H754556		0.13	7.56	3.0	140	0.45	0.14	6.54	0.06	16.80	35.1	42	2.92	64.0	7.50	21.4
H754557		0.86	3.01	6	30	0.36	0.14	17.20	0.15	14.95	33.0	13	0.85	147.5	6.42	8.18
H754558		0.82	2.81	8	30	0.30	0.24	17.15	0.12	6.98	26.2	15	1.61	80.8	6.46	8.32
H754559		0.19	1.03	<5	<10	0.30	0.07	18.25	0.11	5.38	19.4	5	0.18	59.7	6.17	3.04
H754560		2.45	0.74	<5	<10	0.33	1.00	20.1	0.15	8.69	11.8	4	0.05	69.1	5.02	2.44
H754561		1.50	0.32	<5	<10	0.26	0.32	17.60	0.36	2.76	12.0	4	0.05	43.0	5.88	1.39
H754562		0.05	0.29	77	<10	0.17	0.04	18.50	0.09	2.10	11.8	3	<0.05	9.6	6.07	0.97
H754563		0.08	7.76	2.2	910	1.60	0.09	3.43	0.03	49.8	16.4	105	4.30	21.9	3.25	20.4
H754564		0.05	0.87	<5	<10	0.18	0.02	19.20	0.17	1.95	21.3	8	<0.05	35.7	7.03	2.18
H754565		0.05	5.31	<5	40	0.65	0.04	13.40	0.06	6.16	31.5	51	0.51	48.5	7.27	11.55
H754566		0.06	0.81	<5	<10	0.07	0.01	19.45	0.09	1.58	15.9	10	0.05	39.3	5.83	2.17
H754567																
H754568		0.04	3.14	<5	10	0.55	0.02	16.85	0.08	3.46	24.5	38	0.24	37.8	6.47	6.90
H754569		0.16	3.62	<5	30	0.49	0.04	17.45	0.08	4.46	23.0	45	0.82	94.1	6.09	7.95
H754570		0.33	5.45	<5	470	0.70	0.11	12.90	0.06	6.61	29.0	62	18.45	33.7	6.62	13.00
H754571		0.08	1.30	<5	20	0.27	0.03	18.90	0.14	2.58	22.1	17	0.76	55.4	5.89	3.31
H754572		0.09	1.61	5	<10	0.38	0.02	17.30	0.06	2.95	27.3	24	0.06	126.0	6.58	4.22
H754573		0.11	2.03	<5	<10	0.24	0.02	18.70	0.11	3.03	18.2	31	0.10	132.0	5.95	4.88
H754574		0.06	2.81	<5	50	0.36	0.03	17.30	0.11	3.83	22.2	39	1.51	55.4	6.28	6.31
H754575		0.12	6.63	<5	30	0.44	0.07	12.10	0.10	7.32	29.2	87	0.18	199.5	7.11	14.90
H754576		0.07	5.64	<5	60	0.30	0.02	13.80	0.08	6.81	36.7	66	0.43	61.4	7.62	12.20
H754577		0.08	6.16	<5	40	0.43	0.04	12.70	0.12	7.66	40.1	77	0.23	90.2	7.71	14.35
H754578		0.09	7.44	<5	40	0.63	0.05	11.15	0.12	8.74	44.8	104	0.23	127.0	8.21	16.70
H754579		0.12	5.42	<5	50	0.41	0.02	14.05	0.09	6.53	44.8	77	0.62	170.5	8.28	12.30
H754580		0.09	7.54	<5	60	0.52	0.05	10.45	0.06	8.41	45.0	105	0.35	94.5	8.23	17.50
H754581		0.08	7.62	2.1	60	0.41	0.02	9.29	0.08	10.20	45.9	103	0.20	67.5	8.93	18.80
H754582		0.07	5.20	<5	30	0.28	0.01	12.05	0.10	15.35	38.2	43	0.15	44.3	8.51	13.85
H754583		0.15	8.09	0.9	170	0.44	0.04	8.55	0.10	11.00	50.8	113	0.55	158.5	9.35	19.80
H754584		0.13	7.59	1.7	100	0.29	0.03	8.18	0.11	11.95	54.2	99	2.03	111.0	8.34	21.3
H754585		0.14	8.19	4.6	250	0.37	<0.01	6.35	0.07	10.45	57.3	116	4.19	93.6	5.02	21.5
H754586		0.17	7.84	2.1	110	0.45	0.01	8.41	0.11	11.05	50.0	110	0.77	120.5	8.33	20.2
H754587		0.28	8.33	1.2	660	0.73	0.07	5.06	0.07	10.55	45.9	177	18.90	373	10.65	22.3
H754588		0.09	1.02	<5	10	0.21	<0.01	18.80	0.21	2.15	23.8	14	0.75	95.2	6.40	3.80
H754589		0.27	8.08	2.0	50	0.32	0.17	7.59	0.15	9.77	51.3	120	0.55	118.0	9.14	19.90
H754590		0.27	7.73	1.9	210	0.42	0.13	7.90	0.12	9.45	50.3	115	0.86	139.0	8.90	19.70

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 24-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09132068

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.1
H754551		0.12	1.9	0.051	0.83	12.7	47.1	5.36	1520	0.74	1.24	3.5	128.0	510	4.4	23.9
H754552		0.12	1.4	0.060	0.52	7.4	36.0	5.92	2310	0.82	0.31	2.7	37.4	250	12.5	15.0
H754553		0.10	0.4	0.018	0.03	11.4	24.6	8.59	1840	0.67	0.04	0.6	24.9	100	12.1	1.2
H754554		0.15	2.5	0.050	0.14	12.6	41.9	2.75	2920	0.73	0.21	4.9	26.3	600	6.5	2.6
H754555		0.16	1.9	0.077	0.15	6.9	33.9	3.62	3260	0.33	0.23	4.1	37.6	490	7.1	3.1
H754556		0.14	1.9	0.095	0.47	6.5	48.5	3.72	1750	0.31	0.34	4.2	46.4	310	3.4	14.9
H754557		0.11	1.0	0.043	0.12	8.9	11.8	6.43	2990	0.45	0.08	1.4	44.2	140	16.3	4.5
H754558		0.11	0.6	0.041	0.14	3.8	9.7	7.55	2450	0.89	0.02	1.4	25.8	120	12.3	5.8
H754559		0.10	0.4	0.018	0.02	2.8	2.3	8.36	2710	0.81	0.02	0.5	24.0	90	4.5	0.7
H754560		0.09	0.3	0.033	0.01	4.4	1.7	6.40	2250	5.09	0.03	0.4	19.7	90	15.8	0.2
H754561		0.10	0.3	0.016	0.01	1.7	1.2	9.01	2790	1.33	0.02	0.2	23.6	100	4.6	0.3
H754562		0.10	0.2	0.006	<0.01	1.3	1.1	10.15	2350	0.22	0.01	0.2	20.6	110	0.6	0.2
H754563		0.10	3.3	0.028	1.08	25.0	35.4	2.10	576	1.01	3.44	5.8	68.6	690	4.8	30.7
H754564		0.10	0.4	0.020	0.01	1.0	1.3	9.64	2670	0.50	0.01	0.4	35.6	130	0.5	0.2
H754565		0.10	0.9	0.066	0.15	2.4	16.0	7.34	1770	0.30	0.25	1.9	61.7	190	1.0	3.0
H754566		0.08	0.3	0.015	<0.01	0.7	2.3	8.99	2730	0.09	0.01	0.2	28.2	110	0.7	0.1
H754567																
H754568		0.11	0.5	0.028	0.06	1.3	9.5	8.26	2120	0.19	0.10	1.0	41.0	170	0.6	1.1
H754569		0.11	0.5	0.041	0.14	1.8	12.1	7.15	2240	0.27	0.20	1.2	44.7	110	1.8	3.3
H754570		0.10	0.7	0.051	1.99	2.6	53.3	6.35	1800	0.16	0.53	1.8	58.8	170	1.1	65.9
H754571		0.09	0.4	0.023	0.08	1.1	4.4	8.20	2610	0.17	0.03	0.5	36.1	110	0.6	2.5
H754572		0.11	0.3	0.031	0.01	1.3	2.5	8.31	2060	0.11	0.02	0.6	38.0	90	<0.5	0.2
H754573		0.09	0.4	0.021	0.01	1.3	6.2	7.16	2680	0.14	0.04	0.7	28.5	120	0.5	0.3
H754574		0.09	0.5	0.027	0.17	1.6	8.5	7.70	2490	0.16	0.10	0.9	42.7	140	0.7	5.3
H754575		0.11	1.1	0.068	0.12	2.9	9.6	5.47	1860	0.31	0.65	2.0	57.7	140	1.5	2.3
H754576		0.11	0.9	0.051	0.13	2.7	15.8	5.95	2280	0.20	0.66	1.8	63.9	220	1.1	2.7
H754577		0.13	1.0	0.057	0.14	3.0	13.9	4.81	2350	0.24	0.78	2.1	66.0	270	1.3	1.9
H754578		0.13	1.3	0.075	0.17	3.4	13.0	4.25	1840	0.28	0.83	2.4	77.1	380	1.6	2.9
H754579		0.12	0.8	0.038	0.13	2.6	13.2	5.53	2260	0.31	0.42	1.8	73.4	310	1.0	5.1
H754580		0.11	1.0	0.064	0.19	3.3	9.9	3.64	1600	0.37	1.06	2.3	82.8	310	1.7	4.0
H754581		0.12	1.1	0.066	0.22	4.1	11.2	3.43	1820	0.37	1.13	2.7	82.8	340	1.5	4.1
H754582		0.12	1.5	0.056	0.15	6.8	8.9	4.46	2740	0.41	0.61	3.3	61.1	280	1.5	3.6
H754583		0.13	1.0	0.072	0.53	4.5	12.0	3.05	1940	0.34	1.32	2.8	90.3	370	1.6	21.7
H754584		0.13	1.3	0.081	0.28	4.8	16.8	3.46	1590	0.35	1.09	3.3	93.8	360	1.5	10.1
H754585		0.12	0.9	0.073	0.51	4.2	24.7	2.59	1340	0.30	1.52	3.0	96.1	360	1.9	22.8
H754586		0.11	1.2	0.076	0.28	4.3	14.6	2.80	1780	0.32	1.26	3.0	81.5	380	1.7	7.3
H754587		0.12	1.2	0.060	1.34	4.0	39.3	2.88	1560	0.23	1.68	3.0	72.0	440	1.9	65.6
H754588		0.08	0.3	0.024	0.02	0.9	3.5	7.78	2740	0.14	0.05	0.5	31.7	80	0.7	2.7
H754589		0.10	0.8	0.074	0.29	3.9	16.4	3.59	1380	0.43	1.45	2.6	100.5	320	1.7	7.0
H754590		0.12	1.0	0.074	0.79	3.7	17.6	3.56	1460	0.25	1.59	2.5	91.4	320	2.1	32.9

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 24-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09132068

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
H754551		<0.002	0.23	0.86	24.9	2	0.9	297	0.22	0.06	2.5	0.450	0.14	0.5	175	4.3
H754552		<0.002	0.43	0.99	23.0	2	0.7	158.5	0.18	0.11	0.8	0.422	0.12	0.2	166	3.7
H754553		<0.002	1.15	0.20	4.6	3	0.3	70.1	<0.05	0.98	0.2	0.062	0.02	0.1	31	2.5
H754554		<0.002	0.71	0.72	13.6	2	1.0	186.5	0.39	<0.05	2.4	0.354	0.03	0.6	86	1.2
H754555		<0.002	0.69	0.70	41.4	3	0.9	116.0	0.29	0.12	0.8	0.789	0.04	0.2	301	1.3
H754556		<0.002	0.18	0.61	47.3	3	0.9	171.0	0.28	0.11	0.5	0.851	0.17	0.1	363	2.1
H754557		<0.002	1.83	0.19	17.5	3	0.3	92.1	0.10	0.73	0.2	0.316	0.09	0.1	132	1.4
H754558		<0.002	1.73	0.13	16.5	3	0.3	101.0	0.09	1.23	0.2	0.291	0.06	<0.1	125	2.7
H754559		<0.002	1.12	0.37	7.6	3	<0.2	82.9	<0.05	0.31	<0.2	0.111	0.02	<0.1	71	1.5
H754560		0.002	2.29	0.21	13.9	4	0.2	121.5	<0.05	4.08	<0.2	0.079	<0.02	0.1	46	4.3
H754561		<0.002	1.70	0.07	4.2	3	<0.2	112.5	<0.05	2.58	<0.2	0.033	<0.02	0.1	32	6.6
H754562		<0.002	0.13	0.08	2.1	3	<0.2	63.6	<0.05	0.08	<0.2	0.027	<0.02	<0.1	20	7.1
H754563		<0.002	0.03	0.22	9.1	2	0.6	872	0.32	<0.05	5.2	0.238	0.25	1.6	67	0.8
H754564		<0.002	0.15	0.08	5.3	3	<0.2	64.8	<0.05	<0.05	<0.2	0.072	<0.02	0.1	47	3.3
H754565		<0.002	0.21	0.49	30.1	2	0.5	112.5	0.13	0.07	0.2	0.411	0.02	0.1	171	15.2
H754566		<0.002	0.11	0.12	5.1	3	<0.2	64.2	<0.05	0.05	<0.2	0.056	<0.02	<0.1	43	2.4
H754567																
H754568		<0.002	0.26	0.24	17.6	2	0.3	84.6	0.07	<0.05	<0.2	0.240	<0.02	<0.1	109	8.3
H754569		<0.002	0.32	0.50	19.6	2	0.3	102.0	0.08	0.09	<0.2	0.272	0.02	<0.1	128	13.1
H754570		<0.002	0.38	0.19	29.8	2	0.4	136.5	0.13	1.15	0.2	0.423	0.37	<0.1	195	17.3
H754571		<0.002	0.30	0.07	9.8	3	<0.2	70.9	<0.05	0.60	<0.2	0.101	<0.02	<0.1	67	2.6
H754572		<0.002	1.07	0.10	11.0	4	0.2	48.9	<0.05	<0.05	<0.2	0.123	<0.02	<0.1	77	3.1
H754573		<0.002	0.47	0.19	13.0	3	<0.2	54.7	<0.05	0.09	<0.2	0.155	<0.02	<0.1	88	4.0
H754574		<0.002	0.25	0.28	16.7	2	0.2	71.4	0.06	0.05	<0.2	0.205	0.03	<0.1	110	4.4
H754575		<0.002	0.39	0.71	33.1	2	0.5	117.0	0.14	0.06	0.2	0.487	<0.02	<0.1	219	3.3
H754576		<0.002	0.09	0.58	29.5	2	0.5	102.5	0.12	<0.05	0.2	0.418	0.02	0.1	196	2.1
H754577		<0.002	0.18	0.53	34.2	2	0.5	122.5	0.14	<0.05	0.2	0.476	<0.02	0.1	219	0.6
H754578		<0.002	0.35	0.80	41.3	2	0.6	141.5	0.16	0.10	0.3	0.564	<0.02	0.1	252	4.4
H754579		0.002	0.61	0.71	28.3	3	0.4	82.4	0.13	<0.05	0.2	0.421	0.04	0.1	193	20.5
H754580		0.002	0.27	1.14	38.2	2	0.6	143.0	0.16	0.19	0.3	0.558	0.02	0.1	270	3.0
H754581		<0.002	0.16	0.62	42.9	2	0.7	163.5	0.18	0.08	0.3	0.596	0.02	0.1	275	3.3
H754582		0.002	0.12	0.55	23.6	2	0.7	127.0	0.25	<0.05	1.0	0.355	0.02	0.3	138	0.8
H754583		<0.002	0.50	0.51	43.8	3	0.8	177.5	0.19	<0.05	0.3	0.646	0.10	0.1	294	0.7
H754584		0.003	0.22	0.47	49.8	3	1.0	154.0	0.21	0.12	0.3	0.630	0.05	0.1	284	0.7
H754585		0.003	0.07	0.37	35.6	3	1.0	153.5	0.20	0.15	0.3	0.653	0.15	0.1	278	0.5
H754586		0.002	0.18	0.47	46.4	3	0.8	159.5	0.21	0.12	0.4	0.682	0.04	0.1	307	1.1
H754587		0.002	1.20	0.36	53.1	3	0.6	150.0	0.21	0.44	0.4	0.747	0.33	0.1	322	17.1
H754588		0.002	0.46	0.13	9.6	3	0.2	75.5	<0.05	0.29	<0.2	0.071	0.02	<0.1	66	5.5
H754589		0.003	0.44	0.44	45.0	3	0.8	179.5	0.18	0.83	0.3	0.597	0.04	0.1	283	1.5
H754590		<0.002	0.98	0.40	44.7	3	0.8	201	0.17	0.70	0.3	0.567	0.16	0.1	270	2.6

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 24-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09132068

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H754551		18.2	99	63.4
H754552		15.7	163	45.6
H754553		6.4	72	16.0
H754554		15.2	116	89.1
H754555		25.3	111	56.3
H754556		28.4	107	52.9
H754557		17.3	147	36.8
H754558		11.8	120	22.7
H754559		9.6	61	17.9
H754560		14.7	92	15.1
H754561		7.4	148	16.8
H754562		4.5	57	12.4
H754563		7.5	80	118.0
H754564		6.9	140	18.6
H754565		14.4	175	25.1
H754566		6.7	67	15.1
H754567				
H754568		9.8	149	17.5
H754569		11.0	111	17.8
H754570		14.7	135	22.0
H754571		9.7	95	16.3
H754572		10.5	108	15.2
H754573		9.6	92	14.7
H754574		10.9	89	18.1
H754575		14.8	103	29.1
H754576		16.5	115	25.5
H754577		19.1	119	30.9
H754578		19.7	109	37.3
H754579		17.4	106	21.0
H754580		19.1	89	22.5
H754581		23.4	114	31.6
H754582		20.5	112	52.5
H754583		25.7	117	31.0
H754584		28.7	109	35.8
H754585		21.1	77	29.1
H754586		24.3	110	31.0
H754587		23.1	113	30.1
H754588		10.1	83	15.3
H754589		23.4	113	22.3
H754590		23.0	109	25.1

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 24-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09132068

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H754591		0.19	7.63	1.7	90	0.31	0.12	7.32	0.11	9.23	48.8	118	1.26	78.1	9.27	18.15
H754592		0.30	7.41	1.3	160	0.43	0.18	9.55	0.12	11.95	44.8	109	4.42	96.9	8.36	18.00
H754593		0.48	6.83	<5	320	0.75	0.27	10.00	0.19	11.70	41.9	101	6.77	107.5	8.21	17.00
H754594																
H754595		0.26	7.86	1.4	80	0.56	0.28	7.91	0.13	9.92	53.3	129	0.94	137.5	9.18	17.80
H754596		0.39	7.60	1.0	180	0.73	0.23	7.16	0.11	10.75	53.4	129	4.21	125.0	8.68	19.90
H754597		0.09	8.65	2.0	110	0.52	0.07	6.74	0.11	11.30	49.0	149	0.87	80.4	9.96	21.2
H754598		0.08	7.66	1.5	150	0.52	0.02	4.99	0.08	8.42	43.7	118	2.73	63.5	9.09	19.05
H754599		0.14	8.86	2.9	190	0.51	0.05	5.86	0.08	10.65	65.1	171	3.29	145.0	9.72	23.2
H754600		0.21	8.60	3.2	130	0.44	0.11	6.49	0.15	10.60	74.9	158	1.26	243	8.96	22.8
H754601		0.06	2.54	<5	10	0.12	0.05	17.85	0.13	4.43	34.5	41	0.20	72.2	6.04	6.50
H754602		0.23	8.49	1.8	120	0.39	0.21	6.99	0.10	10.00	66.5	154	0.99	129.0	9.29	19.25
H754603		0.25	8.36	1.1	390	0.55	0.12	8.05	0.09	10.85	60.5	145	6.91	210	8.22	18.50
H754604		0.32	7.11	<5	340	0.63	0.21	10.75	0.11	7.84	72.5	115	12.30	162.0	7.73	15.90
H754605		0.21	7.98	1.4	70	0.33	0.14	7.53	0.13	10.20	53.0	131	0.56	117.5	9.86	18.40
H754606		0.37	7.60	2.0	140	0.51	0.27	8.66	0.12	10.35	52.4	122	1.59	128.0	8.95	18.95
H754607		0.36	8.05	0.7	190	0.47	0.23	8.64	0.11	10.70	53.2	131	3.84	115.5	7.12	18.05
H754608		0.12	7.86	0.9	330	0.54	0.09	5.83	0.08	24.4	32.0	183	2.21	57.3	5.39	17.65
H754609		0.06	7.63	1.2	550	0.95	0.02	3.64	0.05	30.6	27.0	163	5.30	17.6	4.12	22.4
H754610		0.07	7.95	1.2	580	0.87	0.01	3.87	0.04	32.3	25.9	184	4.83	24.2	4.16	20.4
H754611		0.07	7.83	0.9	500	0.59	0.02	4.48	0.05	37.8	27.4	199	4.18	39.1	4.38	20.0
H754612		0.29	6.72	<5	280	0.41	0.11	11.50	0.35	21.5	36.2	133	0.97	123.5	6.19	16.35
H754613		0.11	7.57	1.6	40	0.27	0.05	9.93	0.09	9.84	48.4	119	0.13	83.7	8.75	16.85
H754614		0.07	7.72	0.8	90	0.51	0.20	9.17	0.10	10.90	47.9	119	0.28	51.7	8.23	18.55
H754615		0.06	7.00	0.9	770	1.06	0.01	2.84	0.04	34.1	14.5	53	2.92	21.4	2.68	19.55
H754616		0.12	7.60	0.6	780	0.88	0.08	5.77	0.06	28.8	38.3	330	7.67	68.6	6.36	16.65
H754617		0.22	6.97	1.0	910	1.01	0.05	5.17	0.05	41.3	39.2	476	7.69	155.0	5.64	14.65
H754618		0.14	6.62	0.5	810	1.09	0.04	5.23	0.06	36.9	43.3	541	8.98	80.5	5.80	14.85
H754619		0.14	7.14	<0.2	720	1.02	0.03	6.32	0.06	33.7	44.1	503	8.07	53.4	6.28	14.80
H754620		0.13	7.64	<5	70	0.36	0.09	10.05	0.09	10.05	43.8	111	0.62	115.5	7.86	17.55
H754621																
H754622		0.25	6.65	<5	70	0.39	0.04	12.55	0.09	8.49	46.2	89	0.62	146.5	8.23	15.30
H754623		0.31	6.88	<5	60	0.24	0.03	11.10	0.13	8.12	41.8	97	0.39	123.5	8.21	15.15
H754624		0.19	6.29	<5	140	0.37	0.01	12.70	0.07	8.13	39.3	82	2.17	77.5	7.64	14.45
H754625		0.19	5.38	<5	60	0.47	0.01	14.40	0.08	6.87	32.7	59	1.19	85.0	7.44	11.70

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 24-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09132068

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.1
H754591		0.12	1.1	0.065	0.47	3.5	18.8	4.05	1470	0.31	1.58	2.4	95.2	310	1.8	17.3
H754592		0.12	1.3	0.074	0.63	5.1	22.2	2.55	2020	0.34	1.94	2.8	79.5	330	3.1	22.2
H754593		0.09	1.1	0.066	0.94	4.8	40.5	3.13	1960	0.28	1.96	2.7	71.4	290	3.0	34.8
H754594																
H754595		0.08	1.1	0.218	0.31	3.8	13.8	2.64	1960	0.29	2.07	2.4	83.9	350	2.5	5.5
H754596		0.11	1.4	0.072	0.63	4.1	34.3	2.37	1800	0.45	2.29	2.8	93.8	300	2.8	24.1
H754597		0.10	0.7	0.089	0.45	4.3	19.8	2.00	2310	0.57	1.82	3.0	94.8	370	3.9	8.3
H754598		0.10	0.7	0.066	0.57	3.3	36.8	1.96	2120	0.21	1.65	2.5	74.9	200	2.0	22.3
H754599		0.11	0.7	0.078	0.62	3.7	22.9	1.91	2340	0.55	2.19	3.6	104.5	370	2.3	12.6
H754600		0.12	0.9	0.087	0.45	3.8	20.2	2.29	1800	0.43	1.75	3.3	114.5	320	2.5	11.5
H754601		0.06	0.5	0.028	0.03	1.8	6.5	6.59	3000	0.80	0.06	0.9	61.2	80	0.6	1.4
H754602		0.12	0.6	0.072	0.35	3.7	13.4	2.30	2240	0.84	2.10	3.0	103.5	300	2.5	5.8
H754603		0.10	1.0	0.083	0.85	4.3	34.6	2.15	1800	0.58	2.47	3.1	79.9	340	2.8	41.9
H754604		0.11	0.8	0.051	1.28	3.0	27.1	2.99	2070	0.57	2.10	2.4	134.0	220	2.5	55.8
H754605		0.13	0.6	0.074	0.34	3.9	11.5	2.35	2210	0.47	1.87	2.8	94.5	350	2.6	6.1
H754606		0.08	0.9	0.075	0.47	3.9	12.9	2.56	1580	0.51	1.51	2.8	91.3	330	3.1	16.7
H754607		0.08	1.1	0.059	0.68	4.3	12.7	2.06	1760	0.54	2.73	2.8	93.8	340	5.0	24.2
H754608		0.08	1.9	0.033	0.74	11.9	15.7	3.03	1060	0.39	3.17	3.0	135.0	460	4.3	23.6
H754609		0.11	2.6	0.025	1.18	14.0	32.3	2.90	559	1.65	3.25	3.9	120.5	560	5.4	29.9
H754610		0.08	2.6	0.026	1.31	15.8	33.4	3.01	602	1.05	3.57	3.5	126.5	570	4.8	34.2
H754611		0.10	2.5	0.018	1.22	19.6	30.0	3.28	723	1.91	3.50	3.0	140.0	540	4.1	41.3
H754612		0.10	1.5	0.049	0.52	10.8	15.1	3.39	1810	0.63	1.95	2.5	106.5	360	3.3	19.6
H754613		0.08	1.1	0.067	0.17	3.9	8.9	2.61	1840	0.54	0.95	2.6	87.2	320	2.5	1.8
H754614		0.11	1.1	0.177	0.22	4.3	9.9	2.56	1740	0.49	1.41	2.9	85.7	340	2.4	2.6
H754615		0.09	2.5	0.015	0.95	16.1	18.6	1.06	432	0.24	3.58	3.5	36.0	490	5.0	29.6
H754616		0.07	1.7	0.042	1.66	14.7	35.0	4.61	1140	1.15	2.25	2.4	167.0	890	5.0	65.4
H754617		0.09	1.9	0.037	1.97	22.1	43.7	6.07	1020	0.73	2.11	2.2	226	1000	4.6	84.7
H754618		0.12	1.9	0.043	1.94	19.0	53.4	6.65	1070	0.88	1.99	2.2	254	970	4.1	85.8
H754619		0.09	1.7	0.036	1.75	17.9	44.6	6.46	1200	0.50	1.86	2.1	236	900	3.9	75.8
H754620		0.09	1.1	0.072	0.28	4.0	11.7	3.66	1740	0.39	1.32	2.7	79.7	330	3.7	10.2
H754621																
H754622		0.09	0.9	0.053	0.23	3.2	13.5	4.22	2090	0.24	1.13	2.3	78.3	240	2.5	6.1
H754623		0.09	0.7	0.047	0.21	3.1	11.2	3.76	2010	0.29	1.12	2.3	77.2	250	2.8	5.0
H754624		0.08	0.9	0.055	0.43	3.1	14.5	4.33	2000	0.55	1.18	2.2	71.3	230	2.3	15.8
H754625		0.08	0.7	0.043	0.21	2.6	10.8	5.16	2070	0.21	0.83	1.8	61.2	200	1.7	6.4

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 24-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09132068

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
H754591		<0.002	0.53	0.31	42.5	3	0.6	189.5	0.17	0.44	0.3	0.578	0.08	0.1	272	0.7
H754592		<0.002	0.66	0.41	41.1	3	0.7	224	0.21	0.45	0.5	0.574	0.11	0.1	253	6.7
H754593		0.002	1.28	0.22	37.4	3	0.8	268	0.19	2.16	0.5	0.534	0.18	0.1	239	27.1
H754594																
H754595		<0.002	0.70	0.32	41.0	3	0.7	227	0.17	0.56	0.3	0.635	0.03	0.2	287	5.8
H754596		<0.002	1.18	0.29	46.9	3	0.8	207	0.19	1.07	0.3	0.611	0.12	0.1	263	19.0
H754597		0.002	0.29	0.36	49.4	3	0.8	167.0	0.21	0.27	0.4	0.724	0.06	0.1	332	1.7
H754598		0.002	0.23	0.29	40.5	2	0.6	137.0	0.18	0.23	0.3	0.613	0.12	0.1	284	1.3
H754599		0.002	0.34	0.32	60.7	2	0.7	170.0	0.23	0.28	0.3	0.814	0.15	0.1	379	1.5
H754600		<0.002	0.77	0.43	53.7	3	0.7	177.5	0.22	0.59	0.3	0.725	0.12	0.1	341	4.8
H754601		<0.002	0.35	0.11	26.1	2	0.4	57.7	0.06	0.23	<0.2	0.196	<0.02	0.1	151	3.9
H754602		0.002	0.48	0.36	46.0	2	0.8	193.0	0.19	0.84	0.4	0.709	0.05	0.1	330	2.4
H754603		<0.002	1.06	0.22	49.4	3	0.6	228	0.20	0.91	0.3	0.672	0.22	0.1	268	30.1
H754604		<0.002	1.32	0.14	36.4	2	0.5	234	0.16	1.50	0.3	0.569	0.29	0.1	234	25.5
H754605		0.002	0.54	0.33	44.7	2	0.7	199.0	0.18	0.59	0.3	0.661	0.05	0.1	299	2.7
H754606		<0.002	0.56	0.36	48.7	2	0.7	212	0.19	1.15	0.3	0.604	0.08	0.1	279	26.2
H754607		0.002	0.79	0.33	46.4	2	0.7	304	0.17	1.05	0.3	0.642	0.12	0.1	281	15.0
H754608		<0.002	0.37	0.19	23.8	1	0.5	418	0.19	0.30	2.0	0.414	0.13	0.6	167	17.7
H754609		<0.002	0.12	0.16	17.2	1	0.5	566	0.23	0.94	2.8	0.318	0.30	0.9	107	1.7
H754610		<0.002	0.12	0.12	17.0	1	0.5	517	0.23	0.41	2.8	0.342	0.29	0.9	120	7.6
H754611		<0.002	0.22	0.12	17.5	1	0.4	400	0.20	0.35	3.0	0.326	0.26	0.8	120	24.0
H754612		<0.002	0.61	0.30	32.0	2	0.6	289	0.16	0.84	1.2	0.419	0.10	0.3	188	9.7
H754613		<0.002	0.13	0.42	43.9	2	0.6	171.5	0.17	<0.05	0.3	0.601	<0.02	0.1	275	0.9
H754614		<0.002	0.06	0.31	46.2	1	0.7	185.0	0.19	0.14	0.4	0.627	0.02	0.2	285	0.7
H754615		<0.002	0.03	0.10	10.0	1	0.3	624	0.23	0.07	3.4	0.238	0.16	1.0	61	0.3
H754616		<0.002	0.15	0.17	30.7	1	0.6	563	0.15	0.15	3.4	0.418	0.47	1.0	215	4.5
H754617		<0.002	0.12	0.13	27.4	1	0.5	677	0.13	0.23	4.5	0.334	0.54	1.3	177	0.7
H754618		<0.002	0.04	0.12	30.8	1	0.5	591	0.13	0.16	4.2	0.311	0.58	1.2	178	0.9
H754619		<0.002	0.07	0.13	32.4	1	0.5	500	0.13	0.17	3.6	0.356	0.50	1.0	197	4.5
H754620		<0.002	0.26	0.42	44.9	2	0.5	203	0.17	0.21	0.4	0.616	0.06	0.1	274	1.4
H754621																
H754622		<0.002	0.26	0.36	39.4	2	0.5	134.0	0.15	0.15	0.3	0.516	0.04	0.1	239	0.7
H754623		<0.002	0.32	0.46	37.6	1	0.5	137.5	0.16	0.14	0.3	0.540	0.02	0.1	245	1.0
H754624		<0.002	0.10	0.37	36.3	1	0.5	140.0	0.14	0.11	0.2	0.491	0.08	0.1	223	1.1
H754625		<0.002	0.15	0.71	30.5	1	0.4	117.5	0.12	0.12	0.2	0.401	0.04	0.1	182	1.8

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 24-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09132068

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
H754591		23.6	114	22.1
H754592		24.1	96	28.4
H754593		22.4	111	38.5
H754594				
H754595		22.5	108	30.4
H754596		26.3	98	35.0
H754597		28.6	117	20.0
H754598		23.7	111	14.6
H754599		25.3	123	24.1
H754600		27.4	124	24.7
H754601		16.8	105	21.1
H754602		22.9	125	19.5
H754603		23.9	117	26.6
H754604		16.9	99	26.3
H754605		24.2	126	19.3
H754606		24.2	107	28.3
H754607		22.4	100	36.6
H754608		12.5	71	69.4
H754609		9.8	55	98.1
H754610		9.6	55	96.6
H754611		9.6	58	89.7
H754612		16.6	91	45.3
H754613		21.3	107	33.9
H754614		22.6	105	34.5
H754615		6.6	41	86.2
H754616		16.4	92	61.9
H754617		15.0	84	71.8
H754618		15.6	86	72.3
H754619		15.6	90	64.5
H754620		21.0	96	31.7
H754621				
H754622		19.6	97	18.6
H754623		19.0	100	24.1
H754624		18.9	95	25.9
H754625		16.9	84	25.0

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

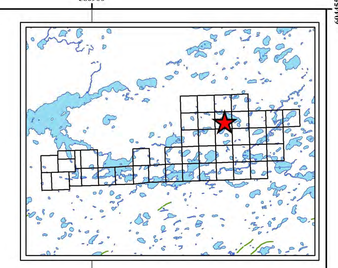
Finalized Date: 24-NOV-2009
Account: SUPDIA

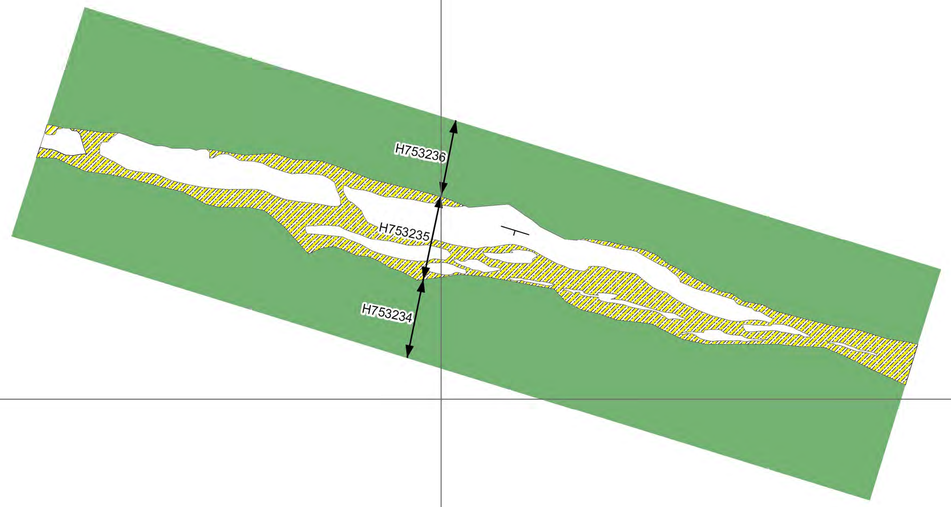
Project: Thorne Lake

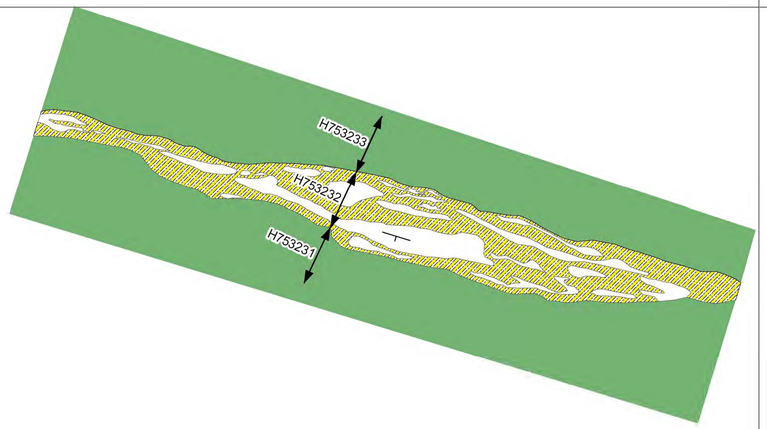
CERTIFICATE OF ANALYSIS TB09132068

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.

586892
586896
586900
6044552
6044548
6044544







N

0 0.5 1 2

Nad83Zone15

Meters 1:15

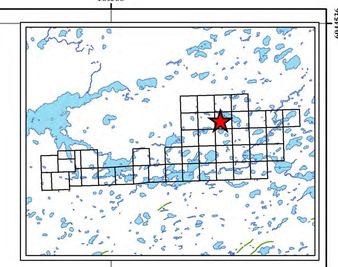
914-showing

Lithology

- Quartz vein / veinlets
- Shear
- Mafic volcanic
- structure
- channel samples

586376
586380
586384
586388
6044536
6044532
6044528

H753224
H753223
H753222
H753221
H753228
H753227
H753226
H753225
H753220
H753219
H753218



N

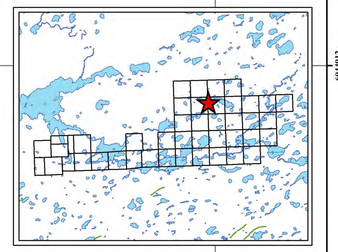
0 0.5 1 2
Nad83Zone15
Meters
1:20

955-showing

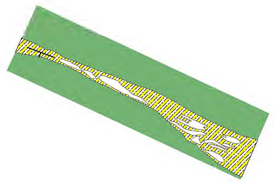
Lithology

- Siliceous dyke
- Quartz vein / veinlets
- Shear
- Granodiorite
- Gabbro
- structure
- channel samples

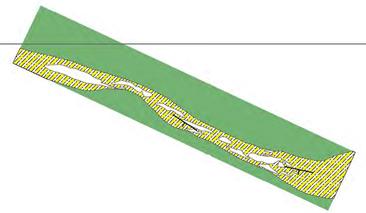
585992
586000
586008
586016
586024
6044912
6044904
6044896



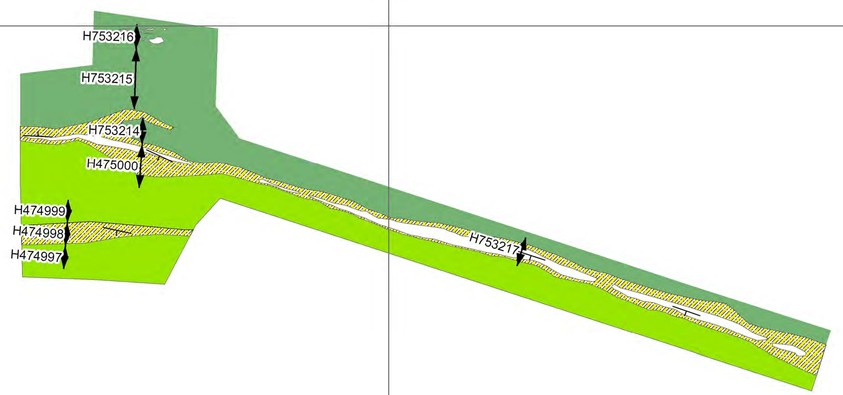
Partially Covered



Partially Covered



Partially Covered



Partially Covered

959-showing west

Lithology

- Quartz vein / veinlets
- Shear
- Pillowed mafic volcanics
- Mafic volcanics
- channel samples
- structure

N

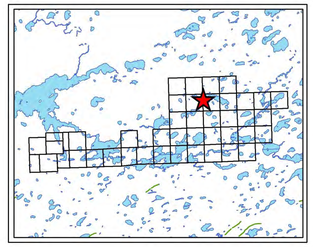
0 2 4 8

Meters

Nad83Zone15

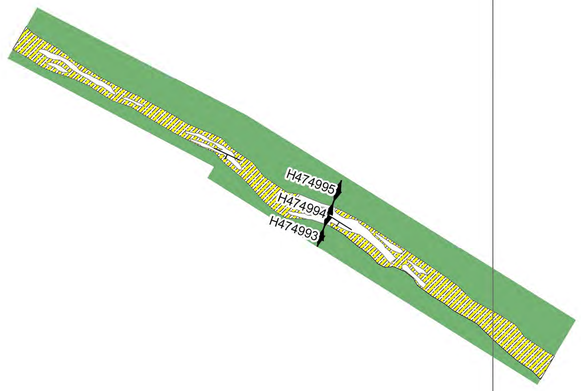
1:40

585960
585968
585976
585984
6044920
6044912

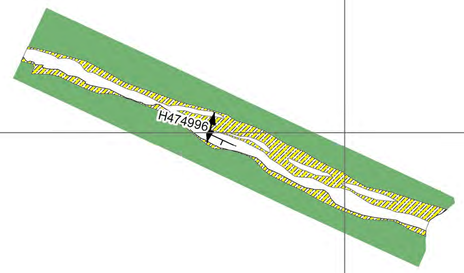


Partially Covered

Partially Covered



Partially Covered



Partially Covered

N

0 2 4 8

Meters

1:40

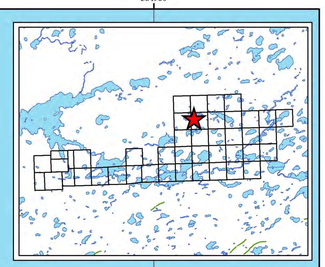
Nad83Zone15

959-showing west

Lithology

- Quartz vein / veinlets
- Shear
- Pillowed mafic volcanics
- Mafic volcanics
- channel samples
- structure

584954
584956
584958
584960
6045386
6045384



H474988
H474987
H474986
H474985
H474984
H474983
H474982

N

0 0.5 1 2

Nad83Zone15

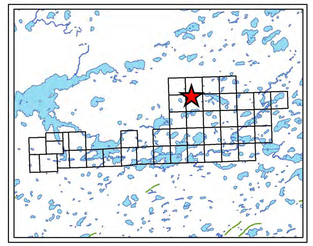
Meters 1:10

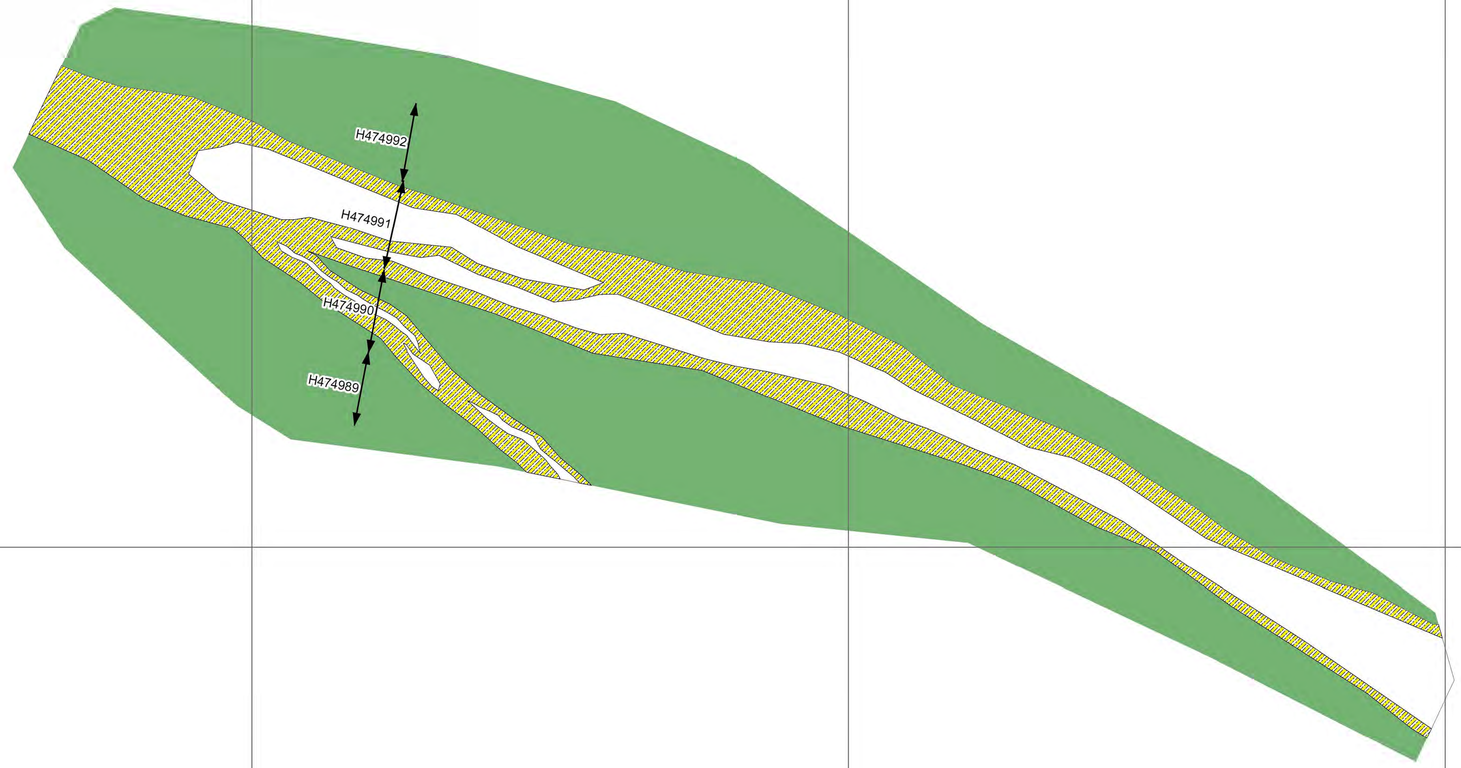
972-showing east

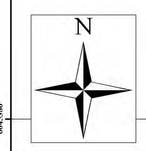
Lithology

- Quartz vein / veinlets
- Shear
- Mafic volcanic
- channel samples
- structure

584930
584932
584934
584936
6045390
6045388
6045386







0 0.5 1 2

Meters

1:10

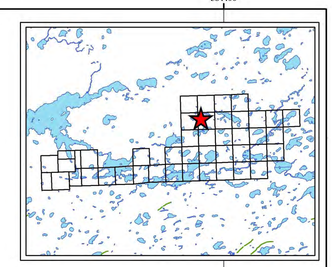
Nad83Zone15

972-showing west

Lithology

- Quartz vein / veinlets
- Shear
- Mafic volcanic
- channel samples
- structure

584392
584394
584396
584398
584400
6044928
6044926



H753239
H753238
H753237

N

0 0.5 1 2
Meters
Nad83Zone15
1:10

161-showing
Lithology
Quartz vein / veinlets
Shear
Diorite
structure
channel samples

SAMPLE	rock_Type	TYPE	Location	description	width	EASTING	NORTHING	Au-AA23 Au g/t	Au re-assay	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm
914 Showing														
H753231	mafic metavolcanic	channel	Hades Lake - 914 vein site	east channel - south - 30 cm massive pillowed flow	0.30	586898	6044547	0.081		0.16	8.49	0.9	60	0.24
H753232	quartz vein	channel	Hades Lake - 914 vein site	31 cm across a 15 cm quartz vein with 5 cm chloritic sheared margins with 1-2% pyrite, pyrrhotite and trace chalcopyrite	0.31	586898	6044547	1.12		2.26	4.82	1	90	0.24
H753233	mafic metavolcanic	channel	Hades Lake - 914 vein site	36 cm massive pillowed flow	0.36	586898	6044547	0.015		0.11	8.33	0.9	60	0.2
H753234	mafic metavolcanic	channel	Hades Lake - 914 vein site	west channel - south - 36 cm massive pillow flow	0.36	586898	6044547	0.017		0.11	7.91	1	70	0.26
H753235	quartz vein	channel	Hades Lake - 914 vein site	48 cm sheared mafic metavolcanic with 10 cm quartz vein and subparallel 1 cm veinlet 1-2% pyrite	0.48	586898	6044547	0.155		0.21	6.96	1.5	120	0.25
H753236	mafic metavolcanic	channel	Hades Lake - 914 vein site	30 cm massive pillowed flow	0.30	586898	6044547	0.012		0.1	8.13	1.1	110	0.24
955 Showing														
H753218	gabbro	channel	DDH-4: 955 vein - main	south - 48 cm - gabbro with 10% disseminated, fine-grained pyrite and pyrrhotite	0.48	586378	6044531	0.835		0.07	6.69	0.9	390	0.64
H753219	quartz vein	channel	DDH-4: 955 vein - main	29 cm - a 2 and a 5 cm wide quartz veins separated by 8 cm shear and bounded by sheared gabbro	0.29	586378	6044531	7.25		3.42	2.32	0.2	130	0.25
H753220	gabbro	channel	DDH-4: 955 vein - main	north - 57 cm - moderately foliated gabbro	0.57	586378	6044531	0.034		0.1	7.06	0.4	560	1.28
H753221	gabbro	channel	DDH-4: 955 vein - siliceous dyke	south - 39 cm - medium-grained gabbro with 5 and 3 cm chlorite-biotite shears	0.39	586378	6044531	3.72		0.46	9.06	1.4	420	0.37
H753222	silceous dyke	channel	DDH-4: 955 vein - siliceous dyke	39 cm - south side of highly siliceous, very fine-grained light grey dykes, trace to 2% disseminated pyrite	0.39	586378	6044531	2.17		1.53	0.41	0.5	20	0.05
H753223	silceous dyke	channel	DDH-4: 955 vein - siliceous dyke	37 cm - north side of highly siliceous, very fine-grained light grey dykes, trace to 2% disseminated pyrite	0.37	586378	6044531	0.778		0.54	0.3	0.4	10	<0.05
H753224	gabbro	channel	DDH-4: 955 vein - siliceous dyke	north - 47 cm - weakly sheared, fine to medium-grained gabbro with occasional quartz stringer	0.47	586378	6044531	0.946		0.5	6.5	1.4	400	0.42
H753225	diorite	channel	DDH-4: 955 vein - main west	south - 30 cm - weakly sheared diorite dyke	0.30	586378	6044531	0.638		0.27	6.77	0.6	340	0.96
H753226	gabbro	channel	DDH-4: 955 vein - main west	35 cm - gabbro with 0.5 cm quartz stringer separated from north splay by 37 cm of gabbro	0.35	586378	6044531	0.473		0.16	7.73	1.5	550	0.97
H753227	gabbro	channel	DDH-4: 955 vein - main west	32 cm - 8 cm north quartz vein splay hosted by sheared gabbro	0.32	586378	6044531	1.915		0.3	5.38	1.3	310	0.57
H753228	gabbro	channel	DDH-4: 955 vein - main west	north - 35 cm - gabbro cut by 11 cm wide diorite dyke	0.35	586378	6044531	0.184		0.08	7.5	1.7	410	0.79
H753229	silceous dyke	grab	DDH-4: 955 vein - siliceous dyke	6 m west - siliceous dyke with quartz stringers and 3-5% fine-grained disseminated pyrite		586378	6044531	>10.0	14.2	6.77	4.26	1.1	350	0.62
H753230	silceous dyke	grab	DDH-4: 955 vein - siliceous dyke	2 m west - siliceous dyke with quartz stringers and 3-5% fine-grained disseminated pyrite		586378	6044531	>10.0	26.4	6.29	2.51	1.4	120	0.32
959 Showing														
H474993	mafic metavolcanic	channel	DDH-1: 959 vein	south - 30 cm moderately sheared mafic metavolcanic	0.30	585970	6044919	0.025		0.1	7.83	1.3	130	0.29
H474994	quartz vein	channel	DDH-1: 959 vein	30 cm - sheared with 18 cm laminated quartz vein bounded by 10-15 cm wide biotite-chlorite shears	0.30	585970	6044919	>10.0	43.2	0.81	4.32	0.8	240	0.26
H474995	mafic metavolcanic	channel	DDH-1: 959 vein	north - 30 cm moderately sheared mafic metavolcanic	0.30	585970	6044919	0.049		0.08	8.27	0.8	140	0.39
H474996	quartz vein/shear	channel	DDH-1: 959 vein - 14 m	42 cm - 5 cm quartz vein on south side of 35 cm biotite-chlorite shear with <0.05 cm quartz stringers	0.42	585970	6044919	1.195		0.15	7.55	0.7	420	0.39
H474997	mafic metavolcanic	channel	DDH-1: 959 vein - 46 m	south of vein - 28 cm moderate to weakly sheared mafic metavolcanic	0.28	585970	6044919	0.009		0.06	9.58	1.8	120	0.42
H474998	shear	channel	DDH-1: 959 vein - 46 m	30 cm well sheared, biotite-chlorite rich with 1% fine-grained pyrite	0.30	585970	6044919	0.482		0.16	8.72	0.6	400	0.67

SAMPLE	rock_Type	TYPE	Location	description	width	EASTING	NORTHING	Au-AA23 Au g/t	Au re-assay	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm
H474999	mafic metavolcanic	channel	DDH-1: 959 vein - 46 m	between shear and vein - 28 cm weakly sheared mafic metavolcanic	0.28	585970	6044919	0.275		0.13	8.39	1	240	0.43
H475000	shear	channel	DDH-1: 959 vein - 46 m	60 cm - strongly sheared, strong biotite-chlorite alteration with 5 cm quartz vein, trace to 1% pyrite	0.60	585970	6044919	0.711		0.18	7.39	1.7	70	0.26
H753214	mafic metavolcanic	channel	DDH-1: 959 vein - 46 m	adjacent northside of vein - 34 cm moderately sheared mafic metavolcanic with weak biotite-chlorite alteration	0.34	585970	6044919	0.895		0.11	8.3	1.9	280	0.35
H753215	mafic metavolcanic	channel	DDH-1: 959 vein - 46 m	north of vein - 80 cm moderately sheared mafic metavolcanic	0.80	585970	6044919	0.005		0.09	8.53	12.4	190	0.39
H753216	mafic metavolcanic	channel	DDH-1: 959 vein - 46 m	north of vein - 35 cm of weakly sheared mafic metavolcanic with 0.5-1.0 cm lenses of white quartz	0.35	585970	6044919	0.011		0.08	6.64	4.1	90	0.25
H753217	quartz vein	channel	DDH-1: 959 vein - 51 m	39 cm - 15 cm quartz vein with 8 cm biotite-chlorite sheared margins	0.39	585970	6044919	2.98		0.58	4.43	0.9	130	0.31
972 Showing														
H474982	quartz vein	channel	Drain Lake -lakeside	east channel - south side - 25 cm sample with 10 cm of wallrock and 15 cm of quartz vein	0.25	584955	6045386	0.069		0.28	4.16	0.7	220	0.38
H474983	quartz vein	channel	Drain Lake -lakeside	east channel - middle - 20 cm sample with 5 cm of quartz vein	0.20	584955	6045386	0.077		0.15	5.68	0.5	280	0.41
H474984	mafic metavolcanic	channel	Drain Lake -lakeside	east channel - north side - 40 cm sample	0.40	584955	6045386	<0.005		0.06	7.72	1	90	0.22
H474985	mafic metavolcanic	channel	Drain Lake -lakeside	west channel - middle/south - 51 cm mafic metavolcanic between quartz veins	0.51	584955	6045386	0.4		0.64	7.26	1.4	190	0.35
H494986	quartz vein	channel	Drain Lake -lakeside	west channel - south side - 38 cm of mafic metavolcanic and shear with quartz vein	0.38	584955	6045386	0.095		0.29	7.59	0.7	140	0.29
H494987	quartz vein/shear	channel	Drain Lake -lakeside	west channel - middle/north - 35 cm shear and quartz vein	0.35	584955	6045386	0.126		0.29	7.32	0.8	310	0.5
H494988	mafic metavolcanic	channel	Drain Lake -lakeside	west channel - north - 30 cm sheared wall rock	0.30	584955	6045386	0.086		0.26	6.45	1	290	0.49
H494989	mafic metavolcanic	channel	Drain Lake - 472 vein site	south - 26 cm mafic metavolcanic	0.26	584932	6045383	0.033		0.19	8.11	0.7	150	0.39
H474990	mafic metavolcanic	channel	Drain Lake - 472 vein site	29 cm - sheared mafic metavolcanic south of vein	0.29	584932	6045383	0.129		0.19	7.1	0.6	270	0.83
H474991	quartz vein	channel	Drain Lake - 472 vein site	33 cm of quartz vein with sheared wall rock	0.33	584932	6045383	0.239		0.23	6.19	1	250	0.63
H474992	mafic metavolcanic	channel	Drain Lake - 472 vein site	north - 27 cm mafic metavolcanic	0.27	584932	6045383	0.015		0.16	8.18	0.7	90	0.31
161 Vein														
H753237	mafic	channel	161 vein area	north - 42cm - sheared mafic unit	0.42	584393	6044927	0.038		0.03	7.2	0.9	530	1.23
H753238	quartz vein	channel	161 vein area	60cm - 0.5-2 cm quartz veinlets, up to 7 cm laminated veins hosted by sheared mafic unit	0.60	584393	6044927	0.522		0.15	4.27	0.5	370	0.58
H753239	mafic	channel	161 vein area	south - 37cm - hanging wall sheared mafic unit hosted quartz veinlets	0.37	584393	6044927	0.036		0.04	7.77	0.5	930	1.28

SAMPLE	rock_Type	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 %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %
914 Showing																					
H753231	mafic metavolcanic	0.26	9.32	0.06	8.64	51.6	219	<0.05	98.5	8.08	18	0.1	1.1	0.067	0.16	3.5	8.8	2.71	1680	9.02	1.71
H753232	quartz vein	0.42	4.06	0.06	4.11	28.6	139	0.14	553	4.48	10	0.07	0.6	0.049	0.33	1.7	14.7	1.43	769	0.78	1.38
H753233	mafic metavolcanic	0.06	8.91	0.05	7.77	50	219	<0.05	60.1	7.49	18.3	0.1	0.9	0.058	0.15	2.9	9.9	2.61	1540	1.15	1.75
H753234	mafic metavolcanic	0.04	7.8	0.1	7.41	48.4	210	0.08	77.2	8.09	16.9	0.1	1	0.062	0.2	2.9	9.1	2.74	1490	0.35	1.72
H753235	quartz vein	0.3	7.42	0.09	6.6	39.6	176	0.33	109.5	6.48	14.25	0.07	0.9	0.054	0.21	2.6	8.6	2.15	1310	0.36	1.56
H753236	mafic metavolcanic	0.02	7.81	0.09	7.17	49.3	191	<0.05	106	8.47	17.1	0.11	1.1	0.056	0.14	2.8	9.1	3.59	1460	0.26	1.42
955 Showing																					
H753218	gabbro	0.3	5.55	0.08	90.2	49	251	3.77	6.5	6.66	18.6	0.15	2.4	0.053	1.21	43.8	26.3	5.06	1110	0.18	1.84
H753219	quartz vein	1.18	2.23	0.04	21.1	15.3	107	1.33	6.7	2.34	6.27	0.06	0.7	0.016	0.5	10.1	17.4	1.62	464	0.17	0.59
H753220	gabbro	0.03	2.55	0.03	46.5	11.9	57	2.64	30.8	2.4	20.1	0.08	3.2	0.02	1.17	21.1	26.3	1.1	342	0.59	3.52
H753221	gabbro	0.05	5.63	0.05	2.68	38.6	97	3.34	17	5.22	17.15	0.09	0.3	0.029	2.43	0.9	65.5	3.7	853	0.45	1.61
H753222	silceous dyke	0.37	0.35	<0.02	0.58	1.7	23	0.15	1.6	0.53	0.87	<0.05	<0.1	0.009	0.11	<0.5	3.7	0.18	93	0.22	0.11
H753223	silceous dyke	0.14	0.41	<0.02	0.68	1.7	23	0.08	2	0.49	0.73	<0.05	<0.1	<0.005	0.07	<0.5	2.7	0.24	103	0.62	0.09
H753224	gabbro	0.44	4.01	0.06	78.3	39.6	221	5.43	10	6.34	17.55	0.17	2.3	0.036	2.85	36.7	59.8	4.16	928	0.2	1.32
H753225	diorite	0.11	2.59	0.04	38.3	11.9	45	1.64	52.7	2.35	18.05	0.08	2.7	0.018	1.15	18.1	25.6	1.03	369	0.51	3.46
H753226	gabbro	0.43	4.28	0.06	124.5	22.6	40	3.48	14.3	4.96	19.95	0.15	2.9	0.034	1.71	62.5	37.5	1.94	539	0.38	2.75
H753227	gabbro	0.46	4.53	0.08	82.2	24.1	137	2.11	2.9	4.8	14.25	0.13	1.9	0.034	0.9	41.1	22.5	2.76	785	0.17	1.8
H753228	gabbro	0.28	5.37	0.08	89.8	54.4	246	3.57	17.8	6.76	20.9	0.14	2.8	0.055	1.27	43.1	27.3	4.8	1060	0.2	2.27
H753229	silceous dyke	1.61	1.05	<0.02	30.6	6.8	35	0.86	20.6	1.67	9.6	0.05	1.8	0.007	0.69	15.8	15.2	0.6	205	4.05	2.33
H753230	silceous dyke	1.32	0.88	0.03	6.95	9.8	37	0.88	5.4	1.79	5.08	<0.05	0.4	0.007	0.55	3.6	13.4	0.63	258	1.42	1.03
959 Showing																					
H474993	mafic metavolcanic	0.04	7.86	0.1	10.1	46.9	137	0.47	97.8	8.31	19.1	0.11	1.5	0.077	0.3	4	12.9	3.07	1920	0.34	1.52
H474994	quartz vein	0.08	4.96	0.05	6.05	24.9	84	1.94	61.9	4.72	10.45	0.07	0.6	0.038	0.43	2.3	21.9	1.72	1120	2.44	0.83
H474995	mafic metavolcanic	0.04	6.84	0.09	9.59	47.3	136	1.31	71.3	8.6	18.45	0.11	0.9	0.072	0.38	3.5	17.2	3.02	1340	0.42	1.73
H474996	quartz vein/shear	0.12	5.63	0.08	10.2	43.3	121	10.95	91.8	7.83	17.8	0.11	1.3	0.069	1.26	3.9	31.2	2.35	1600	0.71	1.85
H474997	mafic metavolcanic	0.05	8.68	0.08	10.85	55.6	140	1.37	73.3	7.81	21	0.1	1.7	0.076	0.35	3.9	13.1	3.01	1770	0.38	2.01
H474998	shear	0.17	5.14	0.06	8.01	55.5	158	13.05	213	8.22	21.2	0.12	0.9	0.071	1.32	2.9	41.7	2.36	1380	0.34	2.46

SAMPLE	rock_Type	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 %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %
H474999	mafic metavolcanic	0.11	6.49	0.07	9.9	52	136	1.07	139.5	7.47	19.05	0.1	0.9	0.063	0.69	3.8	18.5	2.09	1510	0.49	2.15
H475000	shear	0.14	9.43	0.07	9.87	47.9	115	0.66	177	8.31	18.1	0.12	1.3	0.089	0.21	3.7	11.4	1.89	1970	2.89	1.35
H753214	mafic metavolcanic	0.06	6.17	0.07	8.42	51.7	148	7.8	71.2	8.16	20.4	0.1	0.8	0.078	0.78	3	24.4	2.33	1960	0.29	1.82
H753215	mafic metavolcanic	0.03	7.25	0.06	9.04	59.2	153	1.02	106.5	8.29	20.8	0.1	1	0.081	0.67	3.2	14	2.24	1980	0.35	1.91
H753216	mafic metavolcanic	0.03	8.36	0.07	7.38	45.6	113	0.48	104.5	7.61	15.55	0.1	1.2	0.063	0.3	2.7	8.6	3.09	2100	0.26	1.38
H753217	quartz vein	0.4	2.47	0.03	4.62	29.8	97	3.28	67.2	4.96	10.6	0.07	0.9	0.037	0.63	1.8	18	1.25	799	2.94	1.65
972 Showing																					
H474982	quartz vein	0.16	2.66	0.22	5.29	23.5	132	1.27	49.2	3.58	9.03	0.06	0.4	0.042	0.82	2.4	22	1.05	633	0.36	1.13
H474983	quartz vein	0.27	6.97	0.08	5.79	30.4	134	1.82	17.3	5.05	12.75	0.07	0.4	0.066	1.13	2.3	29.4	1.45	1360	0.83	1.38
H474984	mafic metavolcanic	0.31	9.36	0.05	8.1	44.2	166	0.77	16.5	7.65	17.15	0.11	0.8	0.078	0.42	3.1	22.4	1.9	1840	0.28	0.52
H474985	mafic metavolcanic	0.3	6.63	0.05	7.66	47.9	156	1.88	163.5	7.91	16.75	0.12	0.8	0.055	1.04	3.1	37	2.93	1380	1.37	1.34
H494986	quartz vein	0.32	7.53	0.06	7.91	45.7	153	1.38	123	7.86	16.7	0.11	0.6	0.059	0.73	3.1	30.1	2.66	1520	0.55	0.95
H494987	quartz vein/shear	0.21	7.98	0.06	7.58	45.1	144	2.7	69.5	7.28	16.65	0.11	0.7	0.058	1.5	3	43.2	2.75	1470	1.66	1.26
H494988	mafic metavolcanic	0.12	7.42	0.06	6.1	38	133	2.59	62.3	6.11	14.9	0.1	0.5	0.043	1.45	2.4	40.7	2.36	1270	1.55	1.35
H494989	mafic metavolcanic	0.1	8.73	0.06	8.48	50.2	179	0.4	90.7	8.47	17.7	0.1	0.9	0.064	0.28	3.5	15.4	2.34	1440	0.38	0.96
H474990	mafic metavolcanic	0.1	3.46	0.04	74.2	23.9	106	1.96	58	4.47	18.3	0.11	2.8	0.031	0.81	38.7	42.9	2.53	780	0.12	2.91
H474991	quartz vein	2.63	3.74	0.02	49.5	27.6	129	1.97	72.8	5.01	15.25	0.1	2	0.035	0.74	26.3	32.8	2.16	836	15.2	1.95
H474992	mafic metavolcanic	0.14	8.56	0.07	8.51	52.1	203	0.45	59.6	6.83	19.15	0.09	0.7	0.073	0.27	3.4	15	1.55	1460	0.34	1.34
161 Vein																					
H753237	mafic	0.07	3.33	0.04	46.6	17.7	93	0.81	15.1	3.26	19.75	0.07	2.8	0.02	0.87	21.9	13.4	1.72	507	2.14	3.86
H753238	quartz vein	0.19	1.87	<0.02	28.4	14.6	140	0.84	40.3	3.05	11.7	0.07	1.5	0.02	0.8	15.2	11.7	1.86	449	408	1.72
H753239	mafic	0.1	4.04	0.07	68.4	25.2	141	2.36	48.1	4.77	19.7	0.12	2.8	0.035	1.8	34.9	21.4	2.8	785	4.17	2.94

SAMPLE	rock_Type	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm	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	ME-MS61 W ppm
914 Showing																					
H753231	mafic metavolcanic	2.3	138.5	260	2.4	0.6	0.004	0.15	0.47	45.1	2	0.6	161	0.14	0.37	0.3	0.529	<0.02	0.1	263	1.5
H753232	quartz vein	1.2	75.5	110	2.4	3.1	<0.002	0.59	0.26	22.6	2	0.3	106.5	0.08	2.14	<0.2	0.294	0.02	<0.1	131	6.1
H753233	mafic metavolcanic	2.3	145	270	1.9	0.4	<0.002	0.05	0.46	46	2	0.5	160	0.14	0.09	0.2	0.535	<0.02	0.1	262	0.8
H753234	mafic metavolcanic	2.1	131	260	1.5	1.5	<0.002	0.06	0.49	41.7	2	0.5	158.5	0.14	0.06	0.2	0.5	0.02	0.1	246	0.7
H753235	quartz vein	1.8	107	210	1.6	7	<0.002	0.24	0.28	35.1	2	0.4	145.5	0.11	0.66	0.2	0.433	0.06	0.1	206	7.5
H753236	mafic metavolcanic	2.1	138	270	1	0.6	0.002	0.09	0.3	41.5	1	0.5	116	0.13	<0.05	0.2	0.495	<0.02	0.1	240	0.5
955 Showing																					
H753218	gabbro	2.7	256	960	3.9	31.6	<0.002	1.03	0.41	20.8	2	0.8	598	0.17	0.32	7.3	0.549	0.15	1.2	136	13.6
H753219	quartz vein	0.6	82.7	240	2	13.5	<0.002	0.53	0.14	6.4	1	0.2	120.5	<0.05	13.2	1.8	0.132	0.07	0.3	55	16.6
H753220	gabbro	4.6	36	640	4.8	25.3	<0.002	0.03	0.15	7.6	1	0.4	636	0.26	0.6	4	0.224	0.17	1	72	21.6
H753221	gabbro	1	164.5	150	5.8	28.6	0.002	0.17	0.27	18.6	1	0.3	224	0.07	0.58	<0.2	0.243	0.34	<0.1	123	159
H753222	silceous dyke	0.1	7.5	10	1	2.5	<0.002	0.12	0.13	0.9	1	<0.2	8.7	<0.05	3.23	<0.2	0.011	<0.02	<0.1	8	2.1
H753223	silceous dyke	0.1	6.4	10	0.7	1.5	<0.002	0.1	0.12	0.9	1	<0.2	7.9	<0.05	1.36	<0.2	0.008	<0.02	<0.1	7	2.8
H753224	gabbro	2	214	870	3.1	69.2	<0.002	2.18	0.22	18.6	2	0.6	170	0.13	2.34	6.4	0.467	0.29	0.9	131	60.6
H753225	diorite	3.6	35.8	540	4.2	25.5	<0.002	0.32	0.16	7.7	1	0.4	390	0.21	0.77	3.5	0.202	0.13	0.8	72	67
H753226	gabbro	3.3	32.7	1210	8.6	42.9	<0.002	1.86	0.31	13.3	3	0.8	705	0.2	0.81	9.9	0.548	0.19	1.3	115	21.3
H753227	gabbro	1.9	110	830	4.6	23.4	<0.002	1.87	0.3	14.1	2	0.5	464	0.12	6.19	6.7	0.391	0.1	0.9	125	54.5
H753228	gabbro	3	231	970	5	33.3	<0.002	1.16	0.45	21.3	2	0.8	618	0.19	0.52	7.8	0.573	0.15	1.1	135	10.1
H753229	silceous dyke	1.9	14.6	390	7.6	15	0.002	0.81	0.22	4.1	2	0.3	280	0.11	18.1	3.1	0.11	0.06	0.8	31	21.9
H753230	silceous dyke	0.5	34.5	100	6.1	12.9	<0.002	1.14	0.18	4.6	2	0.2	85.2	<0.05	21	0.6	0.068	0.07	0.1	40	54.7
959 Showing																					
H474993	mafic metavolcanic	2.7	87.4	310	2.1	7.5	<0.002	0.04	0.3	47.8	2	0.6	116	0.17	0.07	0.3	0.632	0.04	0.1	296	0.7
H474994	quartz vein	1.6	46.1	110	2.2	18.5	<0.002	0.27	0.2	29.9	2	0.4	87.6	0.11	0.42	0.2	0.371	0.09	<0.1	168	1.1
H474995	mafic metavolcanic	2.8	83.4	260	2.2	9.8	0.002	0.1	0.23	48.9	2	0.6	139.5	0.19	0.11	0.3	0.676	0.05	0.1	303	1.2
H474996	quartz vein/shear	2.5	74.9	270	2.2	53.6	<0.002	0.47	0.13	45	2	0.7	149.5	0.17	0.8	0.3	0.604	0.25	0.1	280	6.9
H474997	mafic metavolcanic	3.1	108.5	380	4	9.8	<0.002	0.11	0.76	54.4	2	0.7	205	0.21	0.14	0.3	0.765	0.07	0.1	327	46.8
H474998	shear	3.2	103	360	4.6	37	<0.002	0.52	0.3	49.4	3	0.8	195	0.22	0.77	0.3	0.768	0.4	0.1	320	66.3

SAMPLE	rock_Type	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm	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	ME-MS61 W ppm
H474999	mafic metavolcanic	2.8	88.7	350	3.5	16.6	0.003	0.32	0.52	44.4	2	0.6	178.5	0.19	0.36	0.3	0.676	0.12	0.1	287	35.6
H475000	shear	2.4	68.5	240	4.2	4.4	<0.002	0.71	0.65	41	3	0.9	193	0.16	0.36	0.3	0.57	0.03	0.1	255	4.4
H753214	mafic metavolcanic	2.8	95.6	230	1.8	26	0.002	0.14	0.3	47.6	2	0.7	154.5	0.18	0.67	0.3	0.691	0.23	0.1	320	1.8
H753215	mafic metavolcanic	2.9	104.5	290	1.5	14.6	0.002	0.15	0.25	46.7	2	0.7	156	0.2	0.1	0.3	0.711	0.12	0.1	320	3.8
H753216	mafic metavolcanic	2.2	76	230	1.2	9.4	0.002	0.12	0.22	37.2	2	0.5	119	0.15	0.08	0.2	0.535	0.05	0.1	243	0.7
H753217	quartz vein	1.5	50.4	130	5	16.4	<0.002	0.32	0.13	24.5	2	0.4	74.2	0.1	1.41	0.2	0.372	0.11	0.1	159	8.1
972 Showing																					
H474982	quartz vein	1.3	62	160	5.6	18.8	<0.002	0.4	0.14	23.9	2	0.4	113	0.08	0.36	0.2	0.298	0.1	0.1	135	5.2
H474983	quartz vein	1.5	81.6	190	4.6	25.9	<0.002	0.29	0.13	30.7	2	0.5	169	0.1	0.33	0.2	0.366	0.14	0.1	177	7.3
H474984	mafic metavolcanic	2.3	113	270	3.9	7.2	<0.002	0.09	0.43	41.3	2	0.6	187.5	0.15	0.05	0.2	0.525	0.05	0.1	238	1.1
H474985	mafic metavolcanic	2	111	250	3.2	23.3	<0.002	1.3	0.21	39.9	2	0.5	156.5	0.13	0.86	0.2	0.483	0.11	0.1	215	5.7
H494986	quartz vein	2.2	109.5	270	3.9	14.8	<0.002	0.24	0.28	39.3	2	0.5	183	0.14	0.21	0.2	0.52	0.07	0.1	236	5
H494987	quartz vein/shear	2	110	260	4.1	34.6	<0.002	0.92	0.22	39.5	2	0.5	229	0.13	0.5	0.2	0.475	0.18	0.1	229	10.7
H494988	mafic metavolcanic	1.7	96.8	210	3.3	34	<0.002	0.86	0.15	33.6	2	0.4	181.5	0.1	0.43	0.2	0.399	0.17	0.1	188	12.8
H494989	mafic metavolcanic	2.3	120.5	280	3.7	4.8	<0.002	0.06	0.5	43.2	1	0.5	303	0.14	0.06	0.3	0.532	0.03	0.1	251	0.7
H474990	mafic metavolcanic	4.3	53.3	780	3	18.5	<0.002	0.33	0.08	18.4	1	0.6	238	0.24	0.3	6.8	0.336	0.1	1.4	129	29.7
H474991	quartz vein	3.3	63.6	540	3.8	20.1	<0.002	0.44	0.13	20.7	2	0.5	228	0.17	2.53	4.6	0.334	0.11	0.9	140	23.7
H474992	mafic metavolcanic	2.4	129	280	3.6	3	<0.002	0.06	0.5	45.8	2	0.6	224	0.16	0.33	0.3	0.557	0.04	0.1	270	1
161 Vein																					
H753237	mafic	4	58.9	670	6.2	13	<0.002	0.11	0.17	10.7	1	0.6	747	0.23	0.09	3.9	0.287	0.08	1	74	8.1
H753238	quartz vein	2.2	74.7	380	4.8	19.8	0.26	0.33	0.12	10.6	1	0.4	297	0.13	0.76	2.7	0.232	0.08	0.7	80	75.6
H753239	mafic	4.8	91.1	780	8.4	46.6	0.002	0.12	0.12	16.1	1	0.7	835	0.25	<0.05	5.6	0.369	0.18	1.4	114	14.7

SAMPLE	rock_Type	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	geochem certificate	assay certificate	claim
914 Showing							
H753231	mafic metavolcanic	19.9	89	31.6	TB09129587	TB09098210	4221722
H753232	quartz vein	9.6	43	14.9	TB09129587	TB09098210	4221722
H753233	mafic metavolcanic	19.5	93	29.3	TB09129587	TB09098210	4221722
H753234	mafic metavolcanic	18.6	97	28.4	TB09129587	TB09098210	4221722
H753235	quartz vein	16.2	75	29.8	TB09129587	TB09098210	4221722
H753236	mafic metavolcanic	18.2	90	34.1	TB09129587	TB09098210	4221722
955 Showing							
H753218	gabbro	13.9	119	85.4	TB09129587	TB09098210	4221722
H753219	quartz vein	4	39	23.3	TB09129587	TB09098210	4221722
H753220	gabbro	6.5	44	114	TB09129587	TB09098210	4221722
H753221	gabbro	8.1	71	7.8	TB09129587	TB09098210	4221722
H753222	silceous dyke	0.4	4	1	TB09129587	TB09098210	4221722
H753223	silceous dyke	0.5	7	1	TB09129587	TB09098210	4221722
H753224	gabbro	11.1	117	81.1	TB09129587	TB09098210	4221722
H753225	diorite	6.1	41	97.6	TB09129587	TB09098210	4221722
H753226	gabbro	15.2	57	107.5	TB09129587	TB09098210	4221722
H753227	gabbro	10.3	72	67.6	TB09129587	TB09098210	4221722
H753228	gabbro	14.6	119	98.5	TB09129587	TB09098210	4221722
H753229	silceous dyke	3.7	18	65.7	TB09129587	TB09098210	4221722
H753230	silceous dyke	1.9	12	15.5	TB09129587	TB09098210	4221722
959 Showing							
H474993	mafic metavolcanic	22.2	92	50.9	TB09130429	TB09098214	4221722
H474994	quartz vein	13.8	47	21.8	TB09130429	TB09098214	4221722
H474995	mafic metavolcanic	22.8	95	27.9	TB09130429	TB09098214	4221722
H474996	quartz vein/shear	21	85	44.9	TB09130429	TB09098214	4221722
H474997	mafic metavolcanic	25.8	90	51.8	TB09130429	TB09098214	4221722
H474998	shear	21.8	76	28.4	TB09130429	TB09098214	4221722

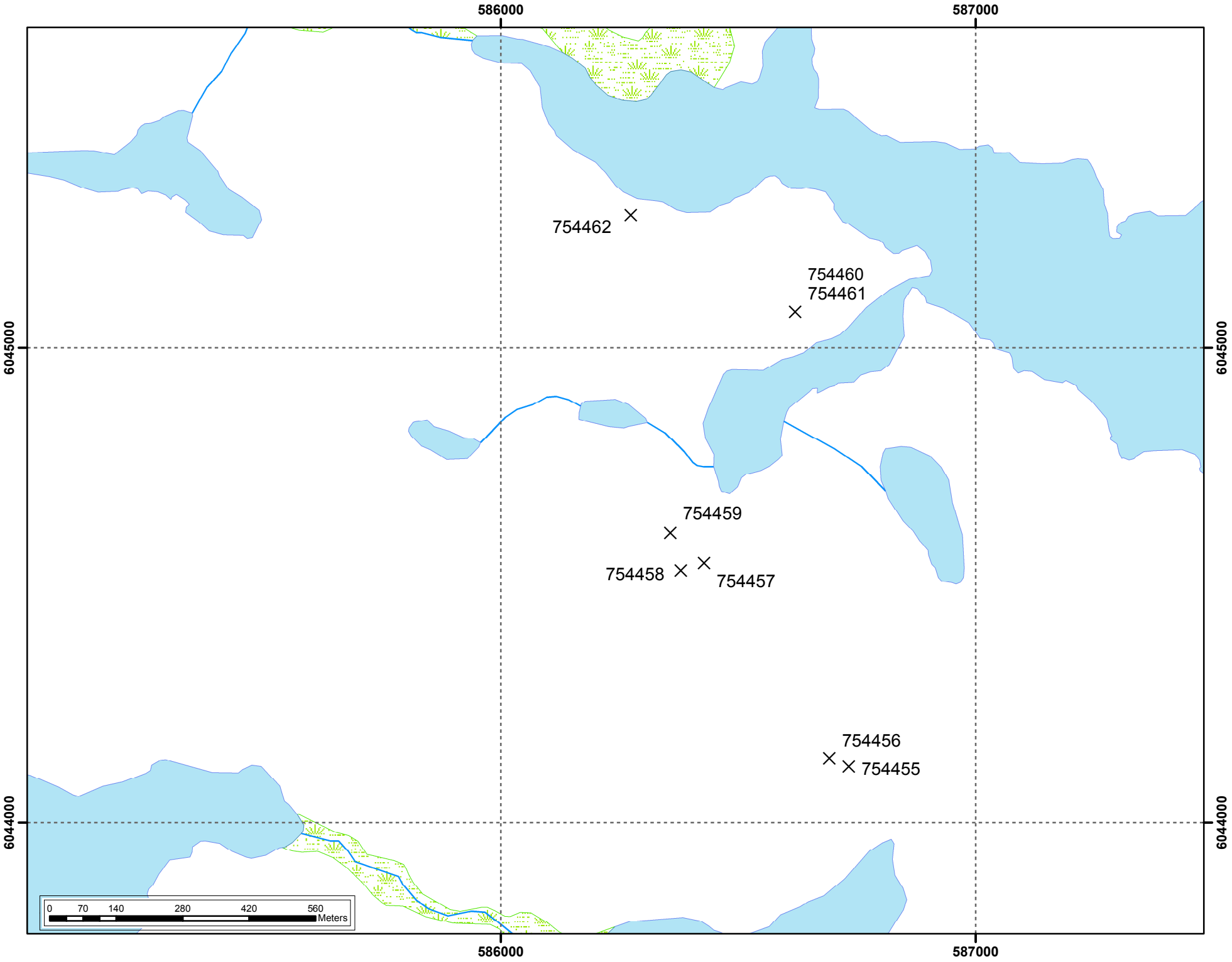
SAMPLE	rock_Type	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	geochem certificate	assay certificate	claim
H474999	mafic metavolcanic	21.1	78	27.2	TB09130429	TB09098214	4221722
H475000	shear	27.4	80	37.6	TB09130429	TB09098214	4221722
H753214	mafic metavolcanic	20.5	92	23.4	TB09129587	TB09098214	4221722
H753215	mafic metavolcanic	22.1	98	26.9	TB09129587	TB09098214	4221722
H753216	mafic metavolcanic	19.5	100	39.9	TB09129587	TB09098214	4221722
H753217	quartz vein	11.1	43	29.3	TB09129587	TB09098214	4221722
972 Showing							
H474982	quartz vein	9.5	102	13.9	TB09130429	TB09098214	4221721
H474983	quartz vein	13.4	62	18.7	TB09130429	TB09098214	4221721
H474984	mafic metavolcanic	19.3	67	26.9	TB09130429	TB09098214	4221721
H474985	mafic metavolcanic	17.3	83	27.1	TB09130429	TB09098214	4221721
H494986	quartz vein	18.6	80	21.9	TB09130429	TB09098214	4221721
H494987	quartz vein/shear	17.6	78	22.2	TB09130429	TB09098214	4221721
H494988	mafic metavolcanic	14	68	18	TB09130429	TB09098214	4221721
H494989	mafic metavolcanic	20.1	90	29.4	TB09130429	TB09098214	4221721
H474990	mafic metavolcanic	12.5	74	100.5	TB09130429	TB09098214	4221721
H474991	quartz vein	12.1	68	70.6	TB09130429	TB09098214	4221721
H474992	mafic metavolcanic	20.2	78	20.2	TB09130429	TB09098214	4221721
161 Vein							
H753237	mafic	7.4	44	102.5	TB09129587	TB09098210	4221721
H753238	quartz vein	5.9	49	54.7	TB09129587	TB09098210	4221721
H753239	mafic	11.2	79	101.5	TB09129587	TB09098210	4221721

SAMPLE	rock_Type	TYPE	Location	REASON	EASTING	NORTHING	Au-AA23 Au g/t	Au checks	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
H754455	quartz vein	grab	east of DDH-3	quartz tourmaline vein	586733	6044118	0.023		0.05	3.63	0.8	220	0.56	0.06	1.18	0.04
H754456	quartz vein	grab	DDH-3	quartz vein with trace pyrite in mafic volcanic	586692	6044135	0.677		0.11	3.2	0.4	390	0.51	0.09	1.59	0.02
H754457	quartz vein	grab	northeast of DDH-4: 955 vein	quartz vein in gabbro	586428	6044546	0.077		0.04	2	0.7	80	0.23	0.05	1.29	0.03
H754458	quartz vein	grab	DDH-4: 955 vein - main	quartz vein in gabbro	586379	6044531	>10.0	10.5	3.58	2.4	0.9	110	0.29	1.01	1.88	0.02
H754459	chert	grab	north of 955 and DDH-4	chert	586357	6044610	0.026		0.03	4.18	0.6	220	0.4	0.02	2.22	0.04
H754460	felsic dyke	grab	northwest Elephant Lake	felsic dyke	586620	6045076	<0.005		0.02	7.88	1.1	370	0.99	0.04	3.37	0.05
H754461	felsic dyke	grab	northwest Elephant Lake	felsic dyke	586620	6045076	0.031		0.05	6.97	10.5	700	0.96	0.06	0.86	<0.02
H754462	schist	grab	northwest Elephant Lake	schist with pyrite	586274	6045279	0.02		0.06	7.68	0.8	830	1.33	0.38	3.31	0.06

SAMPLE	rock_Type	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
H754455	quartz vein	29.5	6.1	60	1.6	4.6	1.15	7.24	<0.05	2.1	0.009	0.57	15.1	7	0.53	246	0.83	1.95	4	18.8	330
H754456	quartz vein	13.95	5.3	33	0.85	4.2	1.55	9.48	0.05	1.4	0.019	1.14	6.9	15.3	0.52	277	3.2	0.78	3.7	7.2	220
H754457	quartz vein	14.5	4.1	37	0.74	12.8	0.95	3.95	<0.05	0.9	<0.005	0.31	7.2	9	0.42	182	0.92	0.77	2.1	13.7	170
H754458	quartz vein	16.6	13	56	0.87	3.4	1.64	5.16	0.05	0.7	0.008	0.45	8.3	16.5	0.9	304	0.31	0.68	2	41.5	140
H754459	chert	19.3	3.4	14	0.31	2.1	1.25	9.22	0.05	2.7	0.01	0.44	9.1	20.3	1.22	526	0.62	1.26	4.7	7.7	220
H754460	felsic dyke	48.2	6.5	11	9.37	5.6	2.98	23.6	0.09	2.9	0.027	1.35	21.8	36.1	0.54	472	0.51	3.02	3.9	8	900
H754461	felsic dyke	29.6	4.1	15	0.99	20.2	1.33	17.25	0.05	3.2	0.007	1.06	16	16.2	0.5	128	0.25	4.12	3.7	9	330
H754462	schist	52.7	24.2	198	2.98	230	4.94	18.9	0.12	2.8	0.053	1.82	25.6	57	3.38	897	0.14	2.25	3.4	81.1	990

SAMPLE	rock_Type	ME-MS61 Pb ppm	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	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm
H754455	quartz vein	3.9	17.2	<0.002	0.08	0.12	3.2	1	0.2	211	0.3	<0.05	2.7	0.099	0.09	0.5	18	1.9	4.2	23	75.7
H754456	quartz vein	2.9	30.9	<0.002	0.39	0.1	5.4	1	0.5	123.5	0.33	0.13	0.9	0.094	0.12	0.2	52	3.5	4.5	22	52.5
H754457	quartz vein	1.6	10.1	<0.002	0.1	0.06	2.7	1	0.2	51.8	0.16	0.25	1.4	0.059	0.06	0.3	20	4.6	2.3	15	32
H754458	quartz vein	4	12.5	<0.002	0.54	0.15	5.3	2	0.2	122	0.17	16.65	1.2	0.1	0.07	0.2	39	13.6	3.5	22	23.6
H754459	chert	3.8	7.6	<0.002	<0.01	0.67	4.5	1	0.7	209	0.43	0.08	2.2	0.076	0.03	0.5	9	1.5	11.1	31	94.8
H754460	felsic dyke	7.2	27.5	<0.002	0.11	0.33	4.5	1	0.6	305	0.19	<0.05	3.6	0.259	0.16	0.7	35	0.6	7.3	84	102
H754461	felsic dyke	5.4	27.7	<0.002	0.25	0.08	3.4	1	0.3	356	0.32	0.07	5.7	0.122	0.12	1.8	36	3.4	3.8	29	120.5
H754462	schist	7.3	39.2	<0.002	0.97	0.08	21.8	3	0.8	625	0.23	0.28	5.6	0.342	0.23	1.4	140	1.9	13.1	81	99.1

SAMPLE	rock_Type	geochem certificate	assay certificate	claim
H754455	quartz vein	TB09130428	TB09098213	4221718
H754456	quartz vein	TB09130428	TB09098213	4221722
H754457	quartz vein	TB09130428	TB09098213	4221722
H754458	quartz vein	TB09130428	TB09098213	4221722
H754459	chert	TB09130428	TB09098213	4221722
H754460	felsic dyke	TB09130428	TB09098212	4221722
H754461	felsic dyke	TB09130428	TB09098212	4221722
H754462	schist	TB09130428	TB09098212	4221722


586000
587000
6045000
6044000
754462
754460
754461
754459
754458
754457
754456
754455
0 70 140 280 420 560
Meters

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 20-SEP-2009
Account: SUPDIA

CERTIFICATE TB09089634

Project: THORNE LAKE

P.O. No.:

This report is for 5 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 26-AUG-2009.

The following have access to data associated with this certificate:

STEVE VAN HAAFTEN	THOMAS HART	MATT SOOLEY

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **NORTHERN SUPERIOR RESOURCES INC**
ATTN: THOMAS HART
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 20-SEP-2009
Account: SUPDIA

Project: THORNE LAKE

CERTIFICATE OF ANALYSIS TB09089634

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
H474948		1.46	0.437	0.44	1.79	5.5	60	0.09	0.73	1.71	0.02	2.32	20.6	63	0.36	29.6
H474949		0.81	0.033	0.08	1.31	1.7	30	0.10	0.07	2.64	0.05	1.55	7.6	31	0.20	17.7
H474950		1.13	0.349	0.50	6.65	1.3	290	0.60	0.53	6.04	0.04	6.04	39.2	143	1.42	69.4
H474978		1.04	0.043	0.13	6.29	0.5	290	0.56	0.46	3.02	0.02	24.6	15.9	40	0.24	8.2
H474979		1.52	0.436	0.22	2.21	0.4	50	0.21	0.52	1.32	<0.02	1.72	11.4	65	0.61	34.3

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 20-SEP-2009
Account: SUPDIA

Project: THORNE LAKE

CERTIFICATE OF ANALYSIS TB09089634

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	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	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
H474948		3.21	4.33	0.06	0.2	0.015	0.23	1.0	10.6	0.59	393	3.36	0.49	0.8	34.9	80
H474949		1.86	3.57	<0.05	0.1	0.019	0.10	0.7	8.1	0.60	630	0.72	0.25	0.4	19.8	30
H474950		6.36	13.20	0.10	0.5	0.033	1.02	2.3	28.1	1.50	1220	0.52	2.26	1.7	93.2	210
H474978		1.89	12.75	0.08	2.1	0.018	0.57	11.3	9.6	0.72	478	28.4	4.32	2.0	31.6	430
H474979		2.26	4.44	<0.05	0.2	0.022	0.16	0.7	9.0	0.53	364	3.43	1.14	0.6	26.9	60

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 20-SEP-2009
Account: SUPDIA

Project: THORNE LAKE

CERTIFICATE OF ANALYSIS TB09089634

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	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	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
H474948		0.8	6.1	<0.002	1.64	0.15	7.8	3	0.4	39.8	<0.05	1.24	<0.2	0.143	0.04	0.1
H474949		1.8	2.9	<0.002	0.09	<0.05	5.3	2	1.0	34.0	<0.05	0.16	<0.2	0.048	<0.02	<0.1
H474950		3.2	27.1	<0.002	2.18	<0.05	28.0	3	0.4	210	0.06	1.61	0.2	0.385	0.12	0.1
H474978		2.0	15.4	0.018	0.86	<0.05	6.8	2	1.0	237	0.09	0.62	2.5	0.143	0.07	0.5
H474979		<0.5	6.5	<0.002	0.54	<0.05	7.3	2	1.1	37.0	<0.05	1.07	<0.2	0.132	0.05	<0.1

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 20-SEP-2009
Account: SUPDIA

Project: THORNE LAKE

CERTIFICATE OF ANALYSIS TB09089634

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm
	LOR	1	0.1	0.1	2	0.5
H474948		52	1.9	3.4	21	6.0
H474949		41	1.1	2.4	29	2.0
H474950		165	1.3	13.7	49	16.8
H474978		29	1.9	7.0	18	69.7
H474979		39	4.6	3.4	16	6.7

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 20-SEP-2009
Account: SUPDIA

Project: THORNE LAKE

CERTIFICATE OF ANALYSIS TB09089634

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-SEP-2009
Account: SUPDIA

CERTIFICATE TB09098210

Project: Thorne Lake

P.O. No.:

This report is for 22 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 10-SEP-2009.

The following have access to data associated with this certificate:

STEVE VAN HAAFTEN	THOMAS HART	MATT SOOLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
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-AA23	Au 30g FA-AA finish	AAS
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

To: **NORTHERN SUPERIOR RESOURCES INC**
ATTN: THOMAS HART
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 27-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09098210

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005	Au-GRA21 Au g/t 0.05
H753218		6.16	0.835	
H753219		3.24	7.25	
H753220		6.53	0.034	
H753221		2.13	3.72	
H753222		2.56	2.17	
H753223		2.40	0.778	
H753224		1.54	0.946	
H753225		1.70	0.638	
H753226		2.65	0.473	
H753227		2.46	1.915	
H753228		1.68	0.184	
H753229		2.19	>10.0	14.20
H753230		0.63	>10.0	26.4
H753231		2.24	0.081	
H753232		1.55	1.120	
H753233		2.00	0.015	
H753234		2.22	0.017	
H753235		2.53	0.155	
H753236		2.66	0.012	
H753237		2.99	0.038	
H753238		2.33	0.522	
H753239		2.20	0.036	

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 25-SEP-2009
Account: SUPDIA

CERTIFICATE TB09098212

Project: Thorne Lake

P.O. No.:

This report is for 3 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 10-SEP-2009.

The following have access to data associated with this certificate:

STEVE VAN HAAFTEN	THOMAS HART	MATT SOOLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
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-AA23	Au 30g FA-AA finish	AAS

To: **NORTHERN SUPERIOR RESOURCES INC**
ATTN: THOMAS HART
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 25-SEP-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09098212

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005
H754460		1.77	<0.005
H754461		1.47	0.031
H754462		1.19	0.020

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 19-NOV-2009
Account: SUPDIA

CERTIFICATE TB09129587

Project: Thorne Lake

P.O. No.:

This report is for 26 Pulp samples submitted to our lab in Thunder Bay, ON, Canada on 13-NOV-2009.

The following have access to data associated with this certificate:

STEVE VAN HAAFTEN	THOMAS HART	MATT SOOLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS

To: **NORTHERN SUPERIOR RESOURCES INC**
ATTN: THOMAS HART
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 19-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129587

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H753214		0.11	8.30	1.9	280	0.35	0.06	6.17	0.07	8.42	51.7	148	7.80	71.2	8.16	20.4
H753215		0.09	8.53	12.4	190	0.39	0.03	7.25	0.06	9.04	59.2	153	1.02	106.5	8.29	20.8
H753216		0.08	6.64	4.1	90	0.25	0.03	8.36	0.07	7.38	45.6	113	0.48	104.5	7.61	15.55
H753217		0.58	4.43	0.9	130	0.31	0.40	2.47	0.03	4.62	29.8	97	3.28	67.2	4.96	10.60
H753218		0.07	6.69	0.9	390	0.64	0.30	5.55	0.08	90.2	49.0	251	3.77	6.5	6.66	18.60
H753219		3.42	2.32	0.2	130	0.25	1.18	2.23	0.04	21.1	15.3	107	1.33	6.7	2.34	6.27
H753220		0.10	7.06	0.4	560	1.28	0.03	2.55	0.03	46.5	11.9	57	2.64	30.8	2.40	20.1
H753221		0.46	9.06	1.4	420	0.37	0.05	5.63	0.05	2.68	38.6	97	3.34	17.0	5.22	17.15
H753222		1.53	0.41	0.5	20	0.05	0.37	0.35	<0.02	0.58	1.7	23	0.15	1.6	0.53	0.87
H753223		0.54	0.30	0.4	10	<0.05	0.14	0.41	<0.02	0.68	1.7	23	0.08	2.0	0.49	0.73
H753224		0.50	6.50	1.4	400	0.42	0.44	4.01	0.06	78.3	39.6	221	5.43	10.0	6.34	17.55
H753225		0.27	6.77	0.6	340	0.96	0.11	2.59	0.04	38.3	11.9	45	1.64	52.7	2.35	18.05
H753226		0.16	7.73	1.5	550	0.97	0.43	4.28	0.06	124.5	22.6	40	3.48	14.3	4.96	19.95
H753227		0.30	5.38	1.3	310	0.57	0.46	4.53	0.08	82.2	24.1	137	2.11	2.9	4.80	14.25
H753228		0.08	7.50	1.7	410	0.79	0.28	5.37	0.08	89.8	54.4	246	3.57	17.8	6.76	20.9
H753229		6.77	4.26	1.1	350	0.62	1.61	1.05	<0.02	30.6	6.8	35	0.86	20.6	1.67	9.60
H753230		6.29	2.51	1.4	120	0.32	1.32	0.88	0.03	6.95	9.8	37	0.88	5.4	1.79	5.08
H753231		0.16	8.49	0.9	60	0.24	0.26	9.32	0.06	8.64	51.6	219	<0.05	98.5	8.08	18.00
H753232		2.26	4.82	1.0	90	0.24	0.42	4.06	0.06	4.11	28.6	139	0.14	553	4.48	10.00
H753233		0.11	8.33	0.9	60	0.20	0.06	8.91	0.05	7.77	50.0	219	<0.05	60.1	7.49	18.30
H753234		0.11	7.91	1.0	70	0.26	0.04	7.80	0.10	7.41	48.4	210	0.08	77.2	8.09	16.90
H753235		0.21	6.96	1.5	120	0.25	0.30	7.42	0.09	6.60	39.6	176	0.33	109.5	6.48	14.25
H753236		0.10	8.13	1.1	110	0.24	0.02	7.81	0.09	7.17	49.3	191	<0.05	106.0	8.47	17.10
H753237		0.03	7.20	0.9	530	1.23	0.07	3.33	0.04	46.6	17.7	93	0.81	15.1	3.26	19.75
H753238		0.15	4.27	0.5	370	0.58	0.19	1.87	<0.02	28.4	14.6	140	0.84	40.3	3.05	11.70
H753239		0.04	7.77	0.5	930	1.28	0.10	4.04	0.07	68.4	25.2	141	2.36	48.1	4.77	19.70

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 19-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129587

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.1
H753214		0.10	0.8	0.078	0.78	3.0	24.4	2.33	1960	0.29	1.82	2.8	95.6	230	1.8	26.0
H753215		0.10	1.0	0.081	0.67	3.2	14.0	2.24	1980	0.35	1.91	2.9	104.5	290	1.5	14.6
H753216		0.10	1.2	0.063	0.30	2.7	8.6	3.09	2100	0.26	1.38	2.2	76.0	230	1.2	9.4
H753217		0.07	0.9	0.037	0.63	1.8	18.0	1.25	799	2.94	1.65	1.5	50.4	130	5.0	16.4
H753218		0.15	2.4	0.053	1.21	43.8	26.3	5.06	1110	0.18	1.84	2.7	256	960	3.9	31.6
H753219		0.06	0.7	0.016	0.50	10.1	17.4	1.62	464	0.17	0.59	0.6	82.7	240	2.0	13.5
H753220		0.08	3.2	0.020	1.17	21.1	26.3	1.10	342	0.59	3.52	4.6	36.0	640	4.8	25.3
H753221		0.09	0.3	0.029	2.43	0.9	65.5	3.70	853	0.45	1.61	1.0	164.5	150	5.8	28.6
H753222		<0.05	<0.1	0.009	0.11	<0.5	3.7	0.18	93	0.22	0.11	0.1	7.5	10	1.0	2.5
H753223		<0.05	<0.1	<0.005	0.07	<0.5	2.7	0.24	103	0.62	0.09	0.1	6.4	10	0.7	1.5
H753224		0.17	2.3	0.036	2.85	36.7	59.8	4.16	928	0.20	1.32	2.0	214	870	3.1	69.2
H753225		0.08	2.7	0.018	1.15	18.1	25.6	1.03	369	0.51	3.46	3.6	35.8	540	4.2	25.5
H753226		0.15	2.9	0.034	1.71	62.5	37.5	1.94	539	0.38	2.75	3.3	32.7	1210	8.6	42.9
H753227		0.13	1.9	0.034	0.90	41.1	22.5	2.76	785	0.17	1.80	1.9	110.0	830	4.6	23.4
H753228		0.14	2.8	0.055	1.27	43.1	27.3	4.80	1060	0.20	2.27	3.0	231	970	5.0	33.3
H753229		0.05	1.8	0.007	0.69	15.8	15.2	0.60	205	4.05	2.33	1.9	14.6	390	7.6	15.0
H753230		<0.05	0.4	0.007	0.55	3.6	13.4	0.63	258	1.42	1.03	0.5	34.5	100	6.1	12.9
H753231		0.10	1.1	0.067	0.16	3.5	8.8	2.71	1680	9.02	1.71	2.3	138.5	260	2.4	0.6
H753232		0.07	0.6	0.049	0.33	1.7	14.7	1.43	769	0.78	1.38	1.2	75.5	110	2.4	3.1
H753233		0.10	0.9	0.058	0.15	2.9	9.9	2.61	1540	1.15	1.75	2.3	145.0	270	1.9	0.4
H753234		0.10	1.0	0.062	0.20	2.9	9.1	2.74	1490	0.35	1.72	2.1	131.0	260	1.5	1.5
H753235		0.07	0.9	0.054	0.21	2.6	8.6	2.15	1310	0.36	1.56	1.8	107.0	210	1.6	7.0
H753236		0.11	1.1	0.056	0.14	2.8	9.1	3.59	1460	0.26	1.42	2.1	138.0	270	1.0	0.6
H753237		0.07	2.8	0.020	0.87	21.9	13.4	1.72	507	2.14	3.86	4.0	58.9	670	6.2	13.0
H753238		0.07	1.5	0.020	0.80	15.2	11.7	1.86	449	408	1.72	2.2	74.7	380	4.8	19.8
H753239		0.12	2.8	0.035	1.80	34.9	21.4	2.80	785	4.17	2.94	4.8	91.1	780	8.4	46.6

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 19-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129587

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
H753214		0.002	0.14	0.30	47.6	2	0.7	154.5	0.18	0.67	0.3	0.691	0.23	0.1	320	1.8
H753215		0.002	0.15	0.25	46.7	2	0.7	156.0	0.20	0.10	0.3	0.711	0.12	0.1	320	3.8
H753216		0.002	0.12	0.22	37.2	2	0.5	119.0	0.15	0.08	0.2	0.535	0.05	0.1	243	0.7
H753217		<0.002	0.32	0.13	24.5	2	0.4	74.2	0.10	1.41	0.2	0.372	0.11	0.1	159	8.1
H753218		<0.002	1.03	0.41	20.8	2	0.8	598	0.17	0.32	7.3	0.549	0.15	1.2	136	13.6
H753219		<0.002	0.53	0.14	6.4	1	0.2	120.5	<0.05	13.20	1.8	0.132	0.07	0.3	55	16.6
H753220		<0.002	0.03	0.15	7.6	1	0.4	636	0.26	0.60	4.0	0.224	0.17	1.0	72	21.6
H753221		0.002	0.17	0.27	18.6	1	0.3	224	0.07	0.58	<0.2	0.243	0.34	<0.1	123	159.0
H753222		<0.002	0.12	0.13	0.9	1	<0.2	8.7	<0.05	3.23	<0.2	0.011	<0.02	<0.1	8	2.1
H753223		<0.002	0.10	0.12	0.9	1	<0.2	7.9	<0.05	1.36	<0.2	0.008	<0.02	<0.1	7	2.8
H753224		<0.002	2.18	0.22	18.6	2	0.6	170.0	0.13	2.34	6.4	0.467	0.29	0.9	131	60.6
H753225		<0.002	0.32	0.16	7.7	1	0.4	390	0.21	0.77	3.5	0.202	0.13	0.8	72	67.0
H753226		<0.002	1.86	0.31	13.3	3	0.8	705	0.20	0.81	9.9	0.548	0.19	1.3	115	21.3
H753227		<0.002	1.87	0.30	14.1	2	0.5	464	0.12	6.19	6.7	0.391	0.10	0.9	125	54.5
H753228		<0.002	1.16	0.45	21.3	2	0.8	618	0.19	0.52	7.8	0.573	0.15	1.1	135	10.1
H753229		0.002	0.81	0.22	4.1	2	0.3	280	0.11	18.10	3.1	0.110	0.06	0.8	31	21.9
H753230		<0.002	1.14	0.18	4.6	2	0.2	85.2	<0.05	21.0	0.6	0.068	0.07	0.1	40	54.7
H753231		0.004	0.15	0.47	45.1	2	0.6	161.0	0.14	0.37	0.3	0.529	<0.02	0.1	263	1.5
H753232		<0.002	0.59	0.26	22.6	2	0.3	106.5	0.08	2.14	<0.2	0.294	0.02	<0.1	131	6.1
H753233		<0.002	0.05	0.46	46.0	2	0.5	160.0	0.14	0.09	0.2	0.535	<0.02	0.1	262	0.8
H753234		<0.002	0.06	0.49	41.7	2	0.5	158.5	0.14	0.06	0.2	0.500	0.02	0.1	246	0.7
H753235		<0.002	0.24	0.28	35.1	2	0.4	145.5	0.11	0.66	0.2	0.433	0.06	0.1	206	7.5
H753236		0.002	0.09	0.30	41.5	1	0.5	116.0	0.13	<0.05	0.2	0.495	<0.02	0.1	240	0.5
H753237		<0.002	0.11	0.17	10.7	1	0.6	747	0.23	0.09	3.9	0.287	0.08	1.0	74	8.1
H753238		0.260	0.33	0.12	10.6	1	0.4	297	0.13	0.76	2.7	0.232	0.08	0.7	80	75.6
H753239		0.002	0.12	0.12	16.1	1	0.7	835	0.25	<0.05	5.6	0.369	0.18	1.4	114	14.7

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 19-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129587

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61
	Analyte	Y	Zn	Zr
	Units	ppm	ppm	ppm
	LOR	0.1	2	0.5
H753214		20.5	92	23.4
H753215		22.1	98	26.9
H753216		19.5	100	39.9
H753217		11.1	43	29.3
H753218		13.9	119	85.4
H753219		4.0	39	23.3
H753220		6.5	44	114.0
H753221		8.1	71	7.8
H753222		0.4	4	1.0
H753223		0.5	7	1.0
H753224		11.1	117	81.1
H753225		6.1	41	97.6
H753226		15.2	57	107.5
H753227		10.3	72	67.6
H753228		14.6	119	98.5
H753229		3.7	18	65.7
H753230		1.9	12	15.5
H753231		19.9	89	31.6
H753232		9.6	43	14.9
H753233		19.5	93	29.3
H753234		18.6	97	28.4
H753235		16.2	75	29.8
H753236		18.2	90	34.1
H753237		7.4	44	102.5
H753238		5.9	49	54.7
H753239		11.2	79	101.5

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 19-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09129587

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Mo>400ppm on ICP-MS Cd,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 19-NOV-2009
Account: SUPDIA

CERTIFICATE TB09130428

Project: Thorne Lake

P.O. No.:

This report is for 8 Pulp samples submitted to our lab in Thunder Bay, ON, Canada on 13-NOV-2009.

The following have access to data associated with this certificate:

STEVE VAN HAAFTEN	THOMAS HART	MATT SOOLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS

To: **NORTHERN SUPERIOR RESOURCES INC**
ATTN: THOMAS HART
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 19-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130428

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H754455		0.05	3.63	0.8	220	0.56	0.06	1.18	0.04	29.5	6.1	60	1.60	4.6	1.15	7.24
H754456		0.11	3.20	0.4	390	0.51	0.09	1.59	0.02	13.95	5.3	33	0.85	4.2	1.55	9.48
H754457		0.04	2.00	0.7	80	0.23	0.05	1.29	0.03	14.50	4.1	37	0.74	12.8	0.95	3.95
H754458		3.58	2.40	0.9	110	0.29	1.01	1.88	0.02	16.60	13.0	56	0.87	3.4	1.64	5.16
H754459		0.03	4.18	0.6	220	0.40	0.02	2.22	0.04	19.30	3.4	14	0.31	2.1	1.25	9.22
H754460		0.02	7.88	1.1	370	0.99	0.04	3.37	0.05	48.2	6.5	11	9.37	5.6	2.98	23.6
H754461		0.05	6.97	10.5	700	0.96	0.06	0.86	<0.02	29.6	4.1	15	0.99	20.2	1.33	17.25
H754462		0.06	7.68	0.8	830	1.33	0.38	3.31	0.06	52.7	24.2	198	2.98	230	4.94	18.90

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 19-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130428

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.1
H754455		<0.05	2.1	0.009	0.57	15.1	7.0	0.53	246	0.83	1.95	4.0	18.8	330	3.9	17.2
H754456		0.05	1.4	0.019	1.14	6.9	15.3	0.52	277	3.20	0.78	3.7	7.2	220	2.9	30.9
H754457		<0.05	0.9	<0.005	0.31	7.2	9.0	0.42	182	0.92	0.77	2.1	13.7	170	1.6	10.1
H754458		0.05	0.7	0.008	0.45	8.3	16.5	0.90	304	0.31	0.68	2.0	41.5	140	4.0	12.5
H754459		0.05	2.7	0.010	0.44	9.1	20.3	1.22	526	0.62	1.26	4.7	7.7	220	3.8	7.6
H754460		0.09	2.9	0.027	1.35	21.8	36.1	0.54	472	0.51	3.02	3.9	8.0	900	7.2	27.5
H754461		0.05	3.2	0.007	1.06	16.0	16.2	0.50	128	0.25	4.12	3.7	9.0	330	5.4	27.7
H754462		0.12	2.8	0.053	1.82	25.6	57.0	3.38	897	0.14	2.25	3.4	81.1	990	7.3	39.2

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 19-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130428

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
H754455		<0.002	0.08	0.12	3.2	1	0.2	211	0.30	<0.05	2.7	0.099	0.09	0.5	18	1.9
H754456		<0.002	0.39	0.10	5.4	1	0.5	123.5	0.33	0.13	0.9	0.094	0.12	0.2	52	3.5
H754457		<0.002	0.10	0.06	2.7	1	0.2	51.8	0.16	0.25	1.4	0.059	0.06	0.3	20	4.6
H754458		<0.002	0.54	0.15	5.3	2	0.2	122.0	0.17	16.65	1.2	0.100	0.07	0.2	39	13.6
H754459		<0.002	<0.01	0.67	4.5	1	0.7	209	0.43	0.08	2.2	0.076	0.03	0.5	9	1.5
H754460		<0.002	0.11	0.33	4.5	1	0.6	305	0.19	<0.05	3.6	0.259	0.16	0.7	35	0.6
H754461		<0.002	0.25	0.08	3.4	1	0.3	356	0.32	0.07	5.7	0.122	0.12	1.8	36	3.4
H754462		<0.002	0.97	0.08	21.8	3	0.8	625	0.23	0.28	5.6	0.342	0.23	1.4	140	1.9

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 19-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130428

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61
	Analyte	Y	Zn	Zr
	Units	ppm	ppm	ppm
	LOR	0.1	2	0.5
H754455		4.2	23	75.7
H754456		4.5	22	52.5
H754457		2.3	15	32.0
H754458		3.5	22	23.6
H754459		11.1	31	94.8
H754460		7.3	84	102.0
H754461		3.8	29	120.5
H754462		13.1	81	99.1

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 19-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130428

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 19-NOV-2009
Account: SUPDIA

CERTIFICATE TB09130429

Project: Thorne Lake

P.O. No.:

This report is for 21 Pulp samples submitted to our lab in Thunder Bay, ON, Canada on 13-NOV-2009.

The following have access to data associated with this certificate:

STEVE VAN HAAFTEN	THOMAS HART	MATT SOOLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS

To: **NORTHERN SUPERIOR RESOURCES INC**
ATTN: THOMAS HART
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

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

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 19-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130429

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	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	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	0.05
H474980		3.60	2.49	1.3	180	0.28	1.16	0.77	0.04	44.7	9.9	51	1.23	3.0	1.97	6.59
H474981		4.36	2.45	1.0	180	0.24	1.38	0.87	0.03	34.0	9.1	51	1.28	2.9	1.93	6.15
H474982		0.28	4.16	0.7	220	0.38	0.16	2.66	0.22	5.29	23.5	132	1.27	49.2	3.58	9.03
H474983		0.15	5.68	0.5	280	0.41	0.27	6.97	0.08	5.79	30.4	134	1.82	17.3	5.05	12.75
H474984		0.06	7.72	1.0	90	0.22	0.31	9.36	0.05	8.10	44.2	166	0.77	16.5	7.65	17.15
H474985		0.64	7.26	1.4	190	0.35	0.30	6.63	0.05	7.66	47.9	156	1.88	163.5	7.91	16.75
H474986		0.29	7.59	0.7	140	0.29	0.32	7.53	0.06	7.91	45.7	153	1.38	123.0	7.86	16.70
H474987		0.29	7.32	0.8	310	0.50	0.21	7.98	0.06	7.58	45.1	144	2.70	69.5	7.28	16.65
H474988		0.26	6.45	1.0	290	0.49	0.12	7.42	0.06	6.10	38.0	133	2.59	62.3	6.11	14.90
H474989		0.19	8.11	0.7	150	0.39	0.10	8.73	0.06	8.48	50.2	179	0.40	90.7	8.47	17.70
H474990		0.19	7.10	0.6	270	0.83	0.10	3.46	0.04	74.2	23.9	106	1.96	58.0	4.47	18.30
H474991		0.23	6.19	1.0	250	0.63	2.63	3.74	0.02	49.5	27.6	129	1.97	72.8	5.01	15.25
H474992		0.16	8.18	0.7	90	0.31	0.14	8.56	0.07	8.51	52.1	203	0.45	59.6	6.83	19.15
H474993		0.10	7.83	1.3	130	0.29	0.04	7.86	0.10	10.10	46.9	137	0.47	97.8	8.31	19.10
H474994		0.81	4.32	0.8	240	0.26	0.08	4.96	0.05	6.05	24.9	84	1.94	61.9	4.72	10.45
H474995		0.08	8.27	0.8	140	0.39	0.04	6.84	0.09	9.59	47.3	136	1.31	71.3	8.60	18.45
H474996		0.15	7.55	0.7	420	0.39	0.12	5.63	0.08	10.20	43.3	121	10.95	91.8	7.83	17.80
H474997		0.06	9.58	1.8	120	0.42	0.05	8.68	0.08	10.85	55.6	140	1.37	73.3	7.81	21.0
H474998		0.16	8.72	0.6	400	0.67	0.17	5.14	0.06	8.01	55.5	158	13.05	213	8.22	21.2
H474999		0.13	8.39	1.0	240	0.43	0.11	6.49	0.07	9.90	52.0	136	1.07	139.5	7.47	19.05
H475000		0.18	7.39	1.7	70	0.26	0.14	9.43	0.07	9.87	47.9	115	0.66	177.0	8.31	18.10

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 19-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130429

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	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.1
H474980		0.08	1.6	0.011	0.72	22.1	17.9	0.78	235	0.63	1.02	6.1	27.9	280	8.3	21.5
H474981		0.07	1.2	0.011	0.74	17.2	19.0	0.82	241	0.36	0.96	3.0	28.4	300	6.4	19.7
H474982		0.06	0.4	0.042	0.82	2.4	22.0	1.05	633	0.36	1.13	1.3	62.0	160	5.6	18.8
H474983		0.07	0.4	0.066	1.13	2.3	29.4	1.45	1360	0.83	1.38	1.5	81.6	190	4.6	25.9
H474984		0.11	0.8	0.078	0.42	3.1	22.4	1.90	1840	0.28	0.52	2.3	113.0	270	3.9	7.2
H474985		0.12	0.8	0.055	1.04	3.1	37.0	2.93	1380	1.37	1.34	2.0	111.0	250	3.2	23.3
H474986		0.11	0.6	0.059	0.73	3.1	30.1	2.66	1520	0.55	0.95	2.2	109.5	270	3.9	14.8
H474987		0.11	0.7	0.058	1.50	3.0	43.2	2.75	1470	1.66	1.26	2.0	110.0	260	4.1	34.6
H474988		0.10	0.5	0.043	1.45	2.4	40.7	2.36	1270	1.55	1.35	1.7	96.8	210	3.3	34.0
H474989		0.10	0.9	0.064	0.28	3.5	15.4	2.34	1440	0.38	0.96	2.3	120.5	280	3.7	4.8
H474990		0.11	2.8	0.031	0.81	38.7	42.9	2.53	780	0.12	2.91	4.3	53.3	780	3.0	18.5
H474991		0.10	2.0	0.035	0.74	26.3	32.8	2.16	836	15.20	1.95	3.3	63.6	540	3.8	20.1
H474992		0.09	0.7	0.073	0.27	3.4	15.0	1.55	1460	0.34	1.34	2.4	129.0	280	3.6	3.0
H474993		0.11	1.5	0.077	0.30	4.0	12.9	3.07	1920	0.34	1.52	2.7	87.4	310	2.1	7.5
H474994		0.07	0.6	0.038	0.43	2.3	21.9	1.72	1120	2.44	0.83	1.6	46.1	110	2.2	18.5
H474995		0.11	0.9	0.072	0.38	3.5	17.2	3.02	1340	0.42	1.73	2.8	83.4	260	2.2	9.8
H474996		0.11	1.3	0.069	1.26	3.9	31.2	2.35	1600	0.71	1.85	2.5	74.9	270	2.2	53.6
H474997		0.10	1.7	0.076	0.35	3.9	13.1	3.01	1770	0.38	2.01	3.1	108.5	380	4.0	9.8
H474998		0.12	0.9	0.071	1.32	2.9	41.7	2.36	1380	0.34	2.46	3.2	103.0	360	4.6	37.0
H474999		0.10	0.9	0.063	0.69	3.8	18.5	2.09	1510	0.49	2.15	2.8	88.7	350	3.5	16.6
H475000		0.12	1.3	0.089	0.21	3.7	11.4	1.89	1970	2.89	1.35	2.4	68.5	240	4.2	4.4

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 19-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130429

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
H474980		<0.002	0.92	0.18	5.1	2	0.3	101.5	0.59	6.12	2.8	0.138	0.09	0.5	30	16.0
H474981		<0.002	0.89	0.27	5.2	2	0.2	99.6	0.29	6.98	2.6	0.147	0.09	0.4	32	17.6
H474982		<0.002	0.40	0.14	23.9	2	0.4	113.0	0.08	0.36	0.2	0.298	0.10	0.1	135	5.2
H474983		<0.002	0.29	0.13	30.7	2	0.5	169.0	0.10	0.33	0.2	0.366	0.14	0.1	177	7.3
H474984		<0.002	0.09	0.43	41.3	2	0.6	187.5	0.15	0.05	0.2	0.525	0.05	0.1	238	1.1
H474985		<0.002	1.30	0.21	39.9	2	0.5	156.5	0.13	0.86	0.2	0.483	0.11	0.1	215	5.7
H474986		<0.002	0.24	0.28	39.3	2	0.5	183.0	0.14	0.21	0.2	0.520	0.07	0.1	236	5.0
H474987		<0.002	0.92	0.22	39.5	2	0.5	229	0.13	0.50	0.2	0.475	0.18	0.1	229	10.7
H474988		<0.002	0.86	0.15	33.6	2	0.4	181.5	0.10	0.43	0.2	0.399	0.17	0.1	188	12.8
H474989		<0.002	0.06	0.50	43.2	1	0.5	303	0.14	0.06	0.3	0.532	0.03	0.1	251	0.7
H474990		<0.002	0.33	0.08	18.4	1	0.6	238	0.24	0.30	6.8	0.336	0.10	1.4	129	29.7
H474991		<0.002	0.44	0.13	20.7	2	0.5	228	0.17	2.53	4.6	0.334	0.11	0.9	140	23.7
H474992		<0.002	0.06	0.50	45.8	2	0.6	224	0.16	0.33	0.3	0.557	0.04	0.1	270	1.0
H474993		<0.002	0.04	0.30	47.8	2	0.6	116.0	0.17	0.07	0.3	0.632	0.04	0.1	296	0.7
H474994		<0.002	0.27	0.20	29.9	2	0.4	87.6	0.11	0.42	0.2	0.371	0.09	<0.1	168	1.1
H474995		0.002	0.10	0.23	48.9	2	0.6	139.5	0.19	0.11	0.3	0.676	0.05	0.1	303	1.2
H474996		<0.002	0.47	0.13	45.0	2	0.7	149.5	0.17	0.80	0.3	0.604	0.25	0.1	280	6.9
H474997		<0.002	0.11	0.76	54.4	2	0.7	205	0.21	0.14	0.3	0.765	0.07	0.1	327	46.8
H474998		<0.002	0.52	0.30	49.4	3	0.8	195.0	0.22	0.77	0.3	0.768	0.40	0.1	320	66.3
H474999		0.003	0.32	0.52	44.4	2	0.6	178.5	0.19	0.36	0.3	0.676	0.12	0.1	287	35.6
H475000		<0.002	0.71	0.65	41.0	3	0.9	193.0	0.16	0.36	0.3	0.570	0.03	0.1	255	4.4

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 19-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130429

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61
	Analyte	Y	Zn	Zr
	Units	ppm	ppm	ppm
	LOR	0.1	2	0.5
H474980		4.8	38	61.3
H474981		4.1	31	42.2
H474982		9.5	102	13.9
H474983		13.4	62	18.7
H474984		19.3	67	26.9
H474985		17.3	83	27.1
H474986		18.6	80	21.9
H474987		17.6	78	22.2
H474988		14.0	68	18.0
H474989		20.1	90	29.4
H474990		12.5	74	100.5
H474991		12.1	68	70.6
H474992		20.2	78	20.2
H474993		22.2	92	50.9
H474994		13.8	47	21.8
H474995		22.8	95	27.9
H474996		21.0	85	44.9
H474997		25.8	90	51.8
H474998		21.8	76	28.4
H474999		21.1	78	27.2
H475000		27.4	80	37.6

***** See Appendix Page for comments regarding this certificate *****

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **NORTHERN SUPERIOR RESOURCES INC**
1988 KINGSWAY, UNIT G
SUDBURY ON P3B 4J8

Finalized Date: 19-NOV-2009
Account: SUPDIA

Project: Thorne Lake

CERTIFICATE OF ANALYSIS TB09130429

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