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**Strange Project –
Whitewater Lake
Area**

Drill Hole ST-22-01

**EXPLORATORY
DIAMOND DRILLING
WORK REPORT**

Prepared by:

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Sweeny PGeo.

for:

Metal Energy Corporation

Suite 1805 - 55 University Avenue
Toronto, ON M5J 2H7

August 2022

NTS Sheet 54A04E
Latitude: 48 07 57.0 N
Longitude: -89 54 25.9 W
UTM Datum: NAD 83, Zone 16N

SUMMARY (i)

Metal Energy Corp through San Corp holds 511 unpatented and unsurveyed mining claims in blocks in Devon, Fraleigh, Hardwick, Hartington, Lismore, and Robbins Townships southwest of Thunder Bay. The property covers approximately 8,176 hectares. The area is underlain by Proterozoic rocks of the Mid-Continent Rift and lies just south of the Archean-Proterozoic boundary.

The property is considered highly prospective for nickel-copper deposits similar to the Tamarack and Eagle deposits, located to the south. The area has seen limited previous exploration activity. Magnetic features were identified from the previous airborne survey completed by Pele Mountain Resources in 2010. Metal Energy was targeting potential ultramafic-mafic flows within the Rove Sediments which could potentially host Ni mineralization.

Between January 25 and February 16, 2022 a single hole drill program totaling 774.18m was completed on the property. Drilling was carried out with a unitized Zinex A5 Diamond Drill rig supplied and operated by Cyr Drilling and crew. The hole was drilled NQ size.

Personnel employed by Bayside Geoscience were utilized to assist with core moving and logging, daily drill supervision, sample mark up, cutting and delivery of samples.

Drill core was transported at the end of each shift to the Telstar Motel in Kakabeka Falls where it was picked up and delivered to the Bayside Geoscience Core Facility in Thunder Bay. Casing was left in the hole, capped and marked to be accessible for future borehole geophysical surveys.

Drilling encountered some mafic intrusive rocks and flows (Diabase and Spherulitic Basalt) within the sediments however no significant Ni or Cu mineralization was identified in assays of these rocks.

A second hole targeting a different magnetic anomalous area is planned to be completed at a later date.

As of the writing of this report Metal Energy Corp has completed a single hole drill program on the property out of a planned two-hole initial program. This report deals with the completion of the first diamond drill hole.

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1. Introduction

Metal Energy Corp Inc carried out exploration diamond drilling on a block of 511 unpatented and unsurveyed mining claims held by San Corp. totaling approximately 8,176 hectares in Lismore, Hartington, Devon and Fraleigh Townships, southwest of Thunder Bay. The area falls within the Proterozoic rocks of the Mid-Continent Rift and lies just south of the Archean-Proterozoic boundary. Lithologies identified from existing geological maps consist of flat-lying sediments and diabase sills and possible gabbro.

The property is considered to be highly prospective for nickel-copper deposits similar to the Tamarack and Eagle deposits, located to the south. The area has seen limited previous exploration activity.

To date, Metal Energy Corp has completed a single hole drill program on the property out of a planned two-hole initial program. This report deals with the completion of the first diamond drill hole.

1.1 Property Location and Access

The claim group is in Devon, Fraleigh, Hartington, Hardwick, Lismore and Robbins Townships, approximately 80 km southwest of Thunder Bay (Figure 1). Access to the property is provided by Highways 588 and 593, along with numerous secondary and logging roads.

This drilling program was covered under Exploration Permit PR-20-000075 issued to Alan Aubut of P.O. Box 304, Nipigon, ON, P0T 2J0 and is valid from 2020-09-18 to 2023-09-17 (Figure 2).

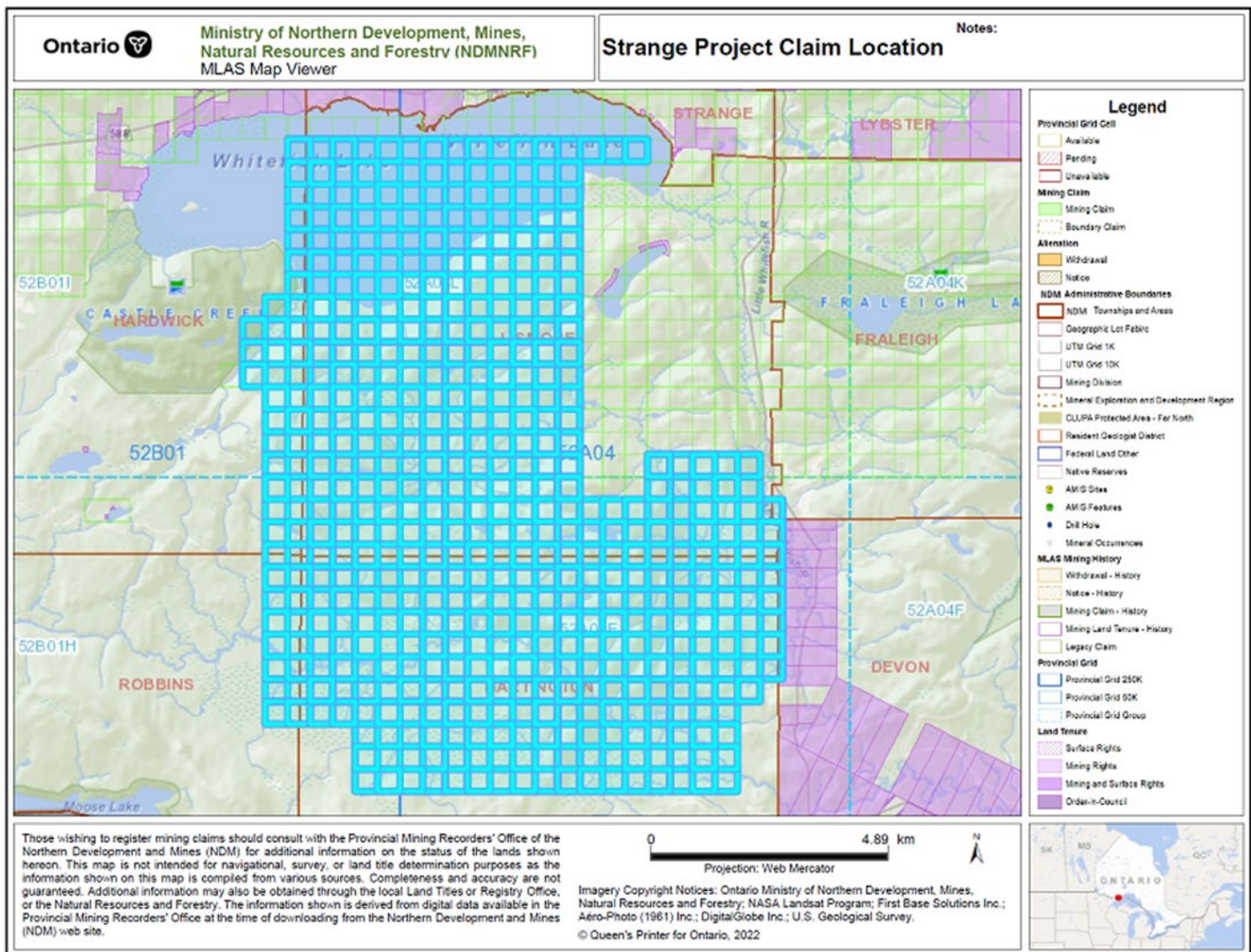


Figure 1 – Property Location Map

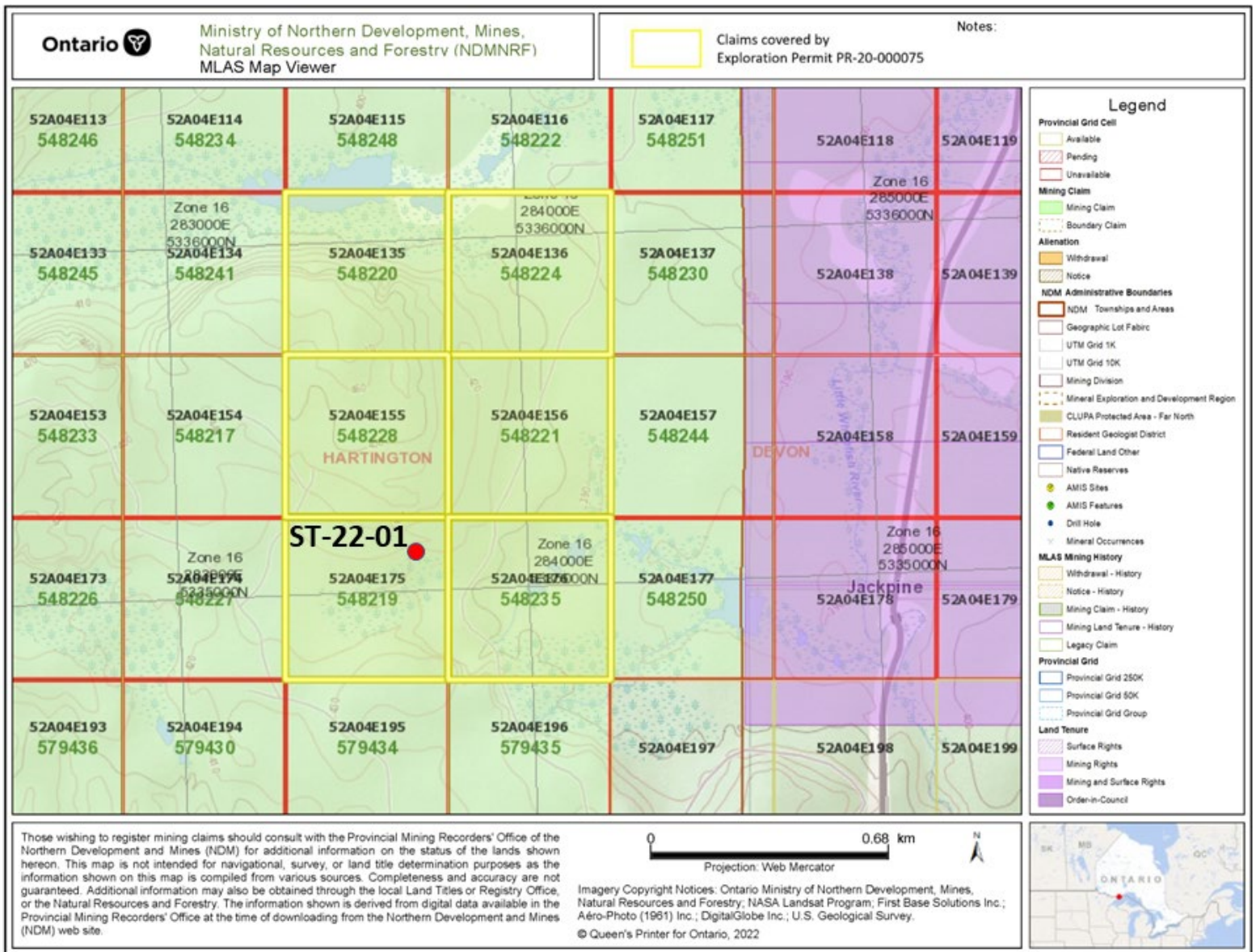


Figure 2 – Exploration Permit Location Map

1.2 Land Tenure

The property consists of 511 Single Cell Mining Claims. Claims were staked between February 2019 and November 2020 (Figure 1). A complete summary of the claim status is provided in Table 1 below.

Table 1 – Full Claim List for Strange Property Holdings

Township / Area	Tenure ID	Anniversary Date	Tenure Status	Tenure Percentage	Work Required	Work Applied	Available Consultation Reserve	Available Exploration Reserve	Total Reserve	Conversion Bank Credit
HARDWICK,LISMORE	621218	2022-11-30	A	100	\$400	0	0	0	0	0
HARDWICK,LISMORE	621213	2022-11-30	A	100	\$400	0	0	0	0	0
HARDWICK,LISMORE	621206	2022-11-30	A	100	\$400	0	0	0	0	0
HARDWICK,LISMORE	621197	2022-11-30	A	100	\$400	0	0	0	0	0
HARDWICK,LISMORE	621196	2022-11-30	A	100	\$400	0	0	0	0	0
HARDWICK,LISMORE	621180	2022-11-30	A	100	\$400	0	0	0	0	0
HARDWICK,LISMORE	621158	2022-11-30	A	100	\$400	0	0	0	0	0

HARTINGTON	621262	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON	621260	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON	621258	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON	621257	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON	621253	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON	621252	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,LISMOR E	548249	2022-04-14	A	100	\$400	0	0	0	0	0
HARTINGTON,LISMOR E	548242	2022-04-14	A	100	\$400	0	0	0	0	0
HARTINGTON,LISMOR E	548240	2022-04-14	A	100	\$400	0	0	0	0	0
HARTINGTON,LISMOR E	548218	2022-04-14	A	100	\$400	0	0	0	0	0
HARTINGTON,LISMOR E	621427	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,LISMOR E	621422	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,LISMOR E	621420	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,LISMOR E	621419	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,LISMOR E	621414	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,LISMOR E	621409	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,LISMOR E	621403	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,LISMOR E	621382	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,LISMOR E	621278	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,LISMOR E	621276	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,LISMOR E	621274	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,LISMOR E	621269	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,LISMOR E	621263	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,LISMOR E	621259	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,LISMOR E	621256	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,LISMOR E	621254	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,ROBBIN S	621515	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,ROBBIN S	621494	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,ROBBIN S	621486	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,ROBBIN S	621478	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,ROBBIN S	621474	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,ROBBIN S	621416	2022-11-30	A	100	\$400	0	0	0	0	0
HARTINGTON,ROBBIN S	621407	2022-11-30	A	100	\$400	0	0	0	0	0
LISMORE	541513	2022-02-07	A	100	\$400	0	0	0	0	0
LISMORE	541512	2022-02-07	A	100	\$400	0	0	0	0	0
LISMORE	541511	2022-02-07	A	100	\$400	0	0	0	0	0
LISMORE	541510	2022-02-07	A	100	\$400	0	0	0	0	0
LISMORE	541509	2022-02-07	A	100	\$400	0	0	0	0	0
LISMORE	541508	2022-02-07	A	100	\$400	0	0	0	0	0
LISMORE	541507	2022-02-07	A	100	\$400	0	0	0	0	0
LISMORE	541506	2022-02-07	A	100	\$400	0	0	0	0	0
LISMORE	541505	2022-02-07	A	100	\$400	0	0	0	0	0
LISMORE	541504	2022-02-07	A	100	\$400	0	0	0	0	0
LISMORE	541503	2022-02-07	A	100	\$400	0	0	0	0	0

1.3 Topography and Vegetation

The property exhibits variable topography that includes rolling hills up to 50 m high, flat outwash plains and numerous cuestas that can have cliff sides up to 100 m high. The cuestas are topped by flat-lying diabase sills.

Vegetation consists of numerous species of pine, poplar and birch. All species have been extensively harvested.

Numerous shallow lakes, ponds and swamps of various sizes occur throughout the property. As well as several creeks and streams cross the property.

1.4 Methodology

1.4.1 Geo-positioning

Garmin ETREX 32X GPS unit was utilized to determine the borehole location. An accuracy of +/- 3 m is usually achieved with these units. The NAD 83 datum, Zone 16N was utilized for all coordinates in this report.

1.5 Previous Work

Previous work on the property was carried out by Pele Mountain Resources.

2009-2010: Pele Mountain Resources staked 681 claims in 49 blocks.

2010: Feb 5-10th Geotech completed flying of a combined VTEM and aeromagnetic survey over the whole claim block.

2010: April - Geophysical modelling (Maxwell) was completed by Geotech and Condor Geophysics and identified some VTEM anomalies. Based upon these results Pele Mountain completed some reconnaissance prospecting.

2010 May-June - Pele Mountain Resources completed three diamond drill holes. These holes did not test the magnetic anomalies but instead focused on electromagnetic conductors. All proved to be due to shallow, thin, intraformational conductive horizons of pyrite and pyrrhotite. This work was described in detail in a report prepared by Dwayne Car (2010) and submitted for Assessment.

2011: Feb-Mar – Pele Mountain Resources completed one diamond drill hole targeting a VTEM response beneath a small unknown lake. The conductor was not fully explained and may be due to sedimentary pyrrhotite intersected near the bottom of the hole. This work was described in detail by Martin Cooper (2012) and submitted to the Ontario Ministry of Northern Development and Mines.

The claims were eventually allowed to lapse.

1.6 Regional Geology

Regional geology consists of Archean and Proterozoic terranes (Figure 3).

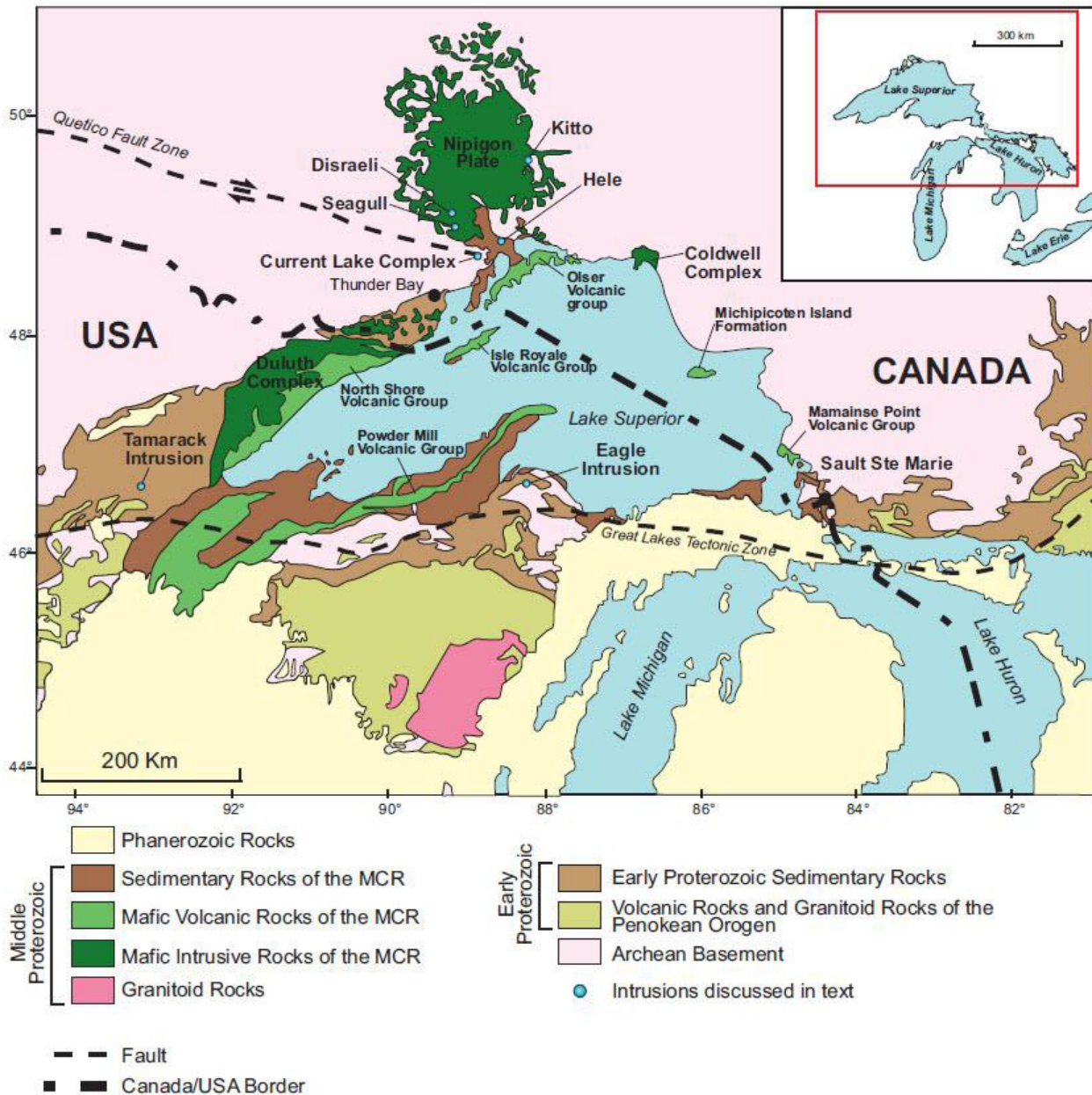


Figure 3- Regional Geology of the Midcontinent Rift (Keays and Lightfoot, 2015).

1.6.1 Archean Wawa Subprovince

The Wawa Subprovince is located within the northern portion of the region. It consists of the Shebandowan Volcanic Belt and plutonic Archean basement.

1.6.1.1 Shebandowan Volcanic Belt

This east-west trending belt hosts the former Shebandowan Nickel Deposit, hosted in ultramafic rocks.

1.6.1.2 Plutonic Terrane

Granitoid plutons form the southern-most portion of the Archean Terrane. Unconformable Proterozoic metasediments lap onto the southern edge of the granitoid terrane.

1.6.2 Paleo-Proterozoic Terrane

Rocks within this terrane are termed the Animikie Group. They consist of minor volcanic and sediments of the Rove Formation.

1.6.2.1 Animikie Group

This group occurs within the Mid-Continent Rift and extends from Thunder Bay into Minnesota and Michigan. Volcanics are sub-ordinate in volume.

The most extensive rock types are sediments of the Rove Formation, comprised of gently dipping to sub- horizontal turbidite greywackes, pyrrhotitic-pyritic-graphitic argillites and shales, rare iron formation and conglomerate.

The group also contains the Gunflint Formation, a ferruginous siliceous sedimentary sequence that has been a significant source of iron in Minnesota.

1.6.3 Mesoproterozoic Lithologies

Rock types consist of sediments, volcanic, mafic to ultramafic intrusions, and Logan Diabase sills.

1.6.3.1 Sibley Group Sediments

These rocks are similar in composition to the Rove Formation. They occur northeast and southeast of the Animikie Group.

1.6.3.2 Volcanic Rocks

Amygdaloidal basalt is the dominant volcanic lithology within the Mesoproterozoic. Extensive exposures are located northeast of Thunder Bay.

1.6.3.3 Mafic to Ultramafic Intrusions

Numerous intrusions ranging from gabbro to peridotite occur throughout the region. Several host sub- economic to economic deposits of nickel-copper and/or PGE's. Some of the better-known deposits include Lac des Iles PGE, Great Lakes Nickel, Tamarack and Eagle.

1.6.3.4 Logan Diabase Sills

These sills are ubiquitous to the region. They are flat-lying and are commonly less than 50 m

thick. They occur at all levels within the host metasediments. In many locations, they form the resistant tops of cuestas.

1.7 PROPERTY GEOLOGY

No detailed examination of bedrock geology was made during this winter drill program. Some outcrops of potential Logan Diabase Sills and Rove Formation Sediments were observed in trail/road cuts accessing the drill site.

1.7.1 Logan Diabase Sills

Flat-lying Logan diabase sills were observed throughout the property. They commonly form the tops of cuestas having vertical cliff sides up to 100 m in height. Thickness of individual sills ranges from less than 10 m to more than 50 metres.

1.7.2 Rove Formation

Flat-lying Rove Formation mudstone, siltstone, sandstone, conglomerate, and ferruginous sediments have been observed at several locations.

1.8 Economic Geology

No economic occurrences or deposits are present on the property. The closest significant nickel-copper deposits hosted by similar rock types occur in Michigan and Minnesota, up to 250 km to the south. The nearest significant PGE deposit is the Lac Des Iles deposit, located 100 km to the northeast.

1.9 Quaternary Geology

The property is extensively covered by glacial deposits. They range from rolling hills up to 50 m high, composed of gravel-rich material to flat sandy outwash plains.

2. DIAMOND DRILL PROGRAM AND RESULTS

A single hole drill program totaling 774.18m was completed between January 25 and February 16, 2022. Drilling was carried out with a unitized Zinex A5 Diamond Drill rig supplied and operated by Cyr Drilling. The hole was drilled NQ size. The rig was transported to offloading sites on a flatbed trailer and moves from offload sites to collar location were facilitated with a John Deer 450 bulldozer.

Personnel employed by Bayside Geoscience were utilized to assist with core moving and logging, daily drill supervision, sample mark up, cutting and delivery of samples.

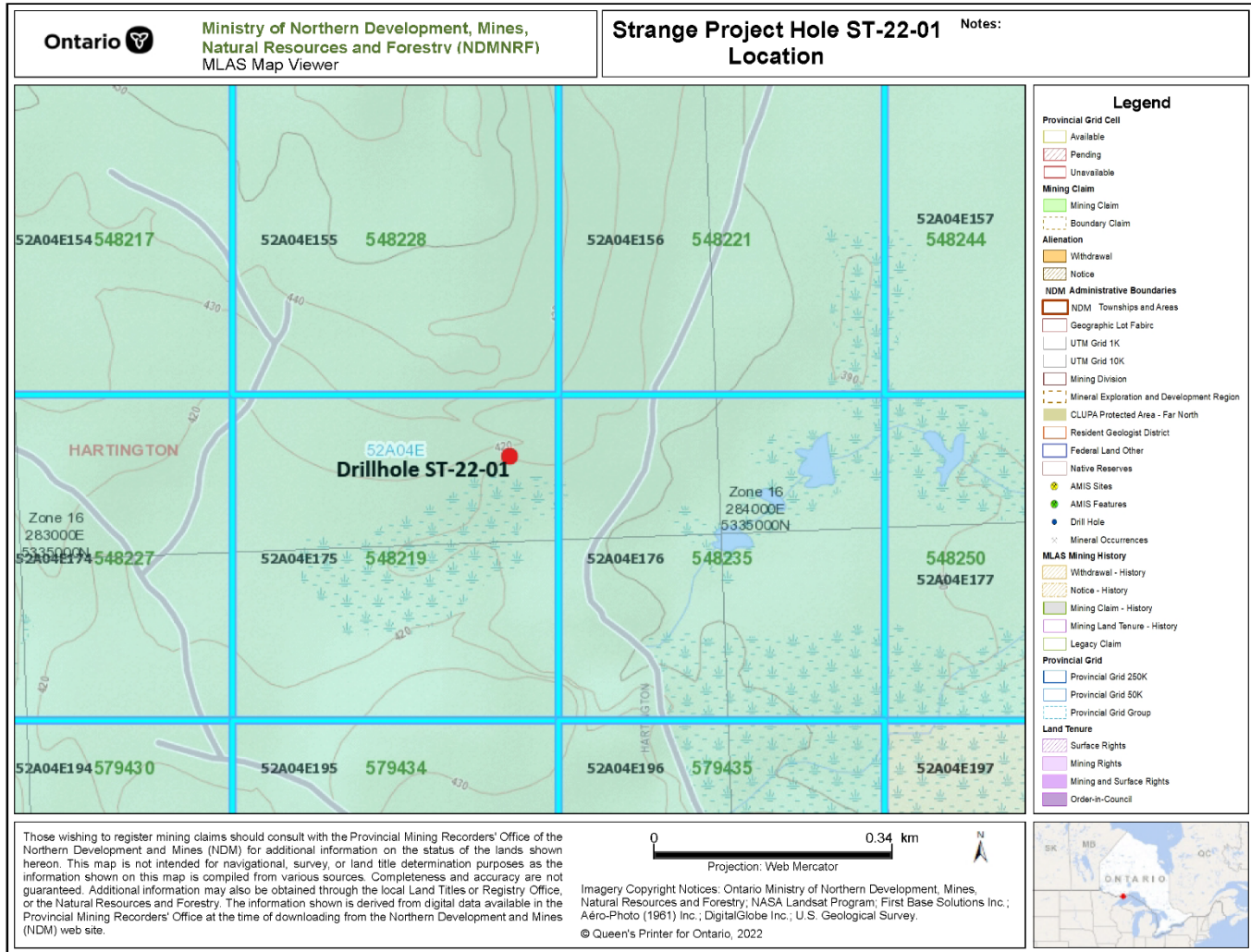
Drill core was transported at the end of each shift to the Telstar Motel in Kakabeka Falls where it was picked up and delivered to the Bayside Geoscience Core Facility in Thunder Bay. Casing was left in the hole, capped and marked to be accessible for future borehole geophysical surveys.

The core has been transferred to the Ministry Drill Core Library in Conmee Twp, Thunder Bay. The borehole location information is provided below in Table 2..

Table 2: Summary table of drill hole details. Coordinates are in UTM Datum NAD83, Zone 16N

Drill Hole Number	Easting	Northing	Elevation (m)	Depth (m)	Collar Azimuth	Collar Dip	Claim @ Collar	Claim @ EOH	Cell ID @ Collar	Cell ID @ EOH	# of Samples Taken	# of Assays Completed
ST-22-01	283702	5335114.7	452	774	360	-90	548219	548219	52A04E175	52A04E175	135	135

Figure 5 Diamond Drill Hole ST-22-01 Collar Location Map



3.0 Drillhole ST-22-01 Description

Drillhole ST-22-01 tested one of these magnetic anomalies with a target depth of between 300-600m where mafic/ultramafic flows could have intruded into sulphidic sediments of the Rove Formation leading to the possible formation of a Nickel Deposit.

Overburden was intersected to a depth of 5.65 metres. Thin to thick-bedded flat-lying typical Rove Formation sediments of siltstone, argillite and sandstone comprise most of the hole to a depth of 129.16 followed by a Logan Diabase Sill from 129.16-165.2m. Additional diabase-gabbro sills of the Logan Group were intersected down to 536.31m.

The hole intersected the Sudbury Ejecta Layer (unconformity) at 534m depth and then drilled into the underlying Gunflint Formation. This included several diabase-gabbro sills and a unit of Spherulitic Basalt (part of the Gunflint) The hole intersected to basal Unconformity with the Archean basement at 745m and was stopped at 774.18m

The borehole log is provided in the attached Appendix A and the drillhole plan is shown in Figure 5 and a section is provided as Figure 6.

4.0 DISCUSSION AND CONCLUSIONS

The Strange Project property is situated in Proterozoic terrane within the Mid-Continent Rift. Rock types consist of diabase sills, sediments and intermediate to mafic intrusions. The Strange Project is the result of the identification of a series of significant magnetic highs restricted to areas underlain by rocks of the Animikie Group southwest of Thunder Bay. It was noted that these magnetic features are associated with the basal sequence belonging to rocks associated with the Mid- continental Rift. Both in combination meet the primary requirements of the exploration model

In recent years, economic deposits of nickel-copper and PGE's have been discovered south and northeast of the property, in similar settings. Other than the Eagle ultramafic body and the one associated with the Tamarack deposit, within the Virginia Formation, the lateral equivalent of the Rove, no other ultramafics have been found within the Animikie to date.

A VTEM survey flow by Pele Mountain Resources in 2010 was used to identify several conductive features that are associated with linear magnetic features. These conductors may reflect sulphide mineralization associated with mafic or ultramafic intrusions into the Rove Sediments which could potentially result in the formation of Ni-Cu-PGE deposits.

No significant Ni-Cu-PGE mineralization was returned from any of the samples sent for assay. Refer to separately attached assay certificates for results.

While no ultramafic units were encountered in this drill hole, potential remains for other areas of the property.

5.0 RECOMMENDATIONS

It is recommended that we complete the second planned drillhole to test the other magnetic anomaly identified from the previous surveys. At this time no additional work is recommended to follow-up on hole ST-22-01.

Additional drilling is recommended to be completed on our second target area.

6.0 REFERENCES

Carr, D., 2010. Strange, Lismore, Devon, Jean, Hartington, Fraleigh, Lybster, Hardwick Townships and Wabindon Lake Work Report. Report submitted to the Ontario Ministry of Northern Development and Mines, Sudbury.

Keays, R.R. and Lightfoot, P.C., 2015. Geochemical Stratigraphy of the Keweenawan Midcontinent Rift Volcanic Rocks with Regional Implications for the Genesis of Associated Ni, Cu, Co, and Platinum Group Element Sulfide Mineralization; *Econ. Geol. Vol. 110, pp. 1235-1267.*

Smyk, M. and Franklin, J., 2007. A synopsis of mineral deposits in the Archean and Proterozoic rocks of the Lake Nipigon region, Thunder Bay District, Ontario. *Can. J. Earth Sci. 44: 1041 – 1053*

CERTIFICATE OF QUALIFIED PERSON

James Michael Sweeny, P.GEO.

I, J. Michael Sweeny, P.Geo., of Niagara on the Lake, Ontario, do hereby certify:

- I am VP Exploration and Development with Metal Energy Corp, with a business address at Suite 1805 - 55 University Avenue, Toronto, ON M5J 2H7.
- This certificate applies to the Assessment Work report entitled “Exploratory Diamond Drill Report, Strange Project, Thunder Bay, Ontario” dated Aug 3rd, 2022.
- I am a graduate of the University of McMaster, (B.Sc. 1984), and Western University (M.Sc. 1989).
- I am a member in good standing of the Association of Professional Engineers and Geoscientists of Ontario, License #0311. My relevant experience is 30+ years of experience in exploration and operations, primarily working in Ni-Cu-PGE sulphide deposits. I am a “Qualified Person” for purposes of National Instrument 43-101.
- I personally visited the property on 2 occasions (Jan 23-28th, 2022 and Feb 16-19th, 2022) to review drilling results and operations.
- I have prepared and reviewed this Assessment Report.
- As of the date of this certificate, to the best of my knowledge, information and belief, this Assessment Report contains all scientific and technical information that is required under Technical Standards for Reporting Assessment Work Under the Provisions of the Mining Act R.S.O 1990 (July 5, 2018).

Signed and dated this
4th day of August, 2022
at Niagara on the
Lake, Ontario. *“Original
document signed by J Michael
Sweeny, P.Geo.”*

J. Michael Sweeny,
P.Geo. VP
Exploration, Metal
Energy Corp.

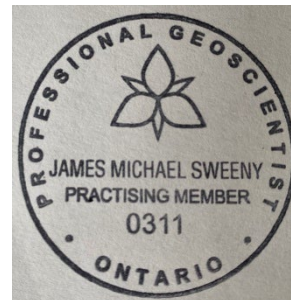
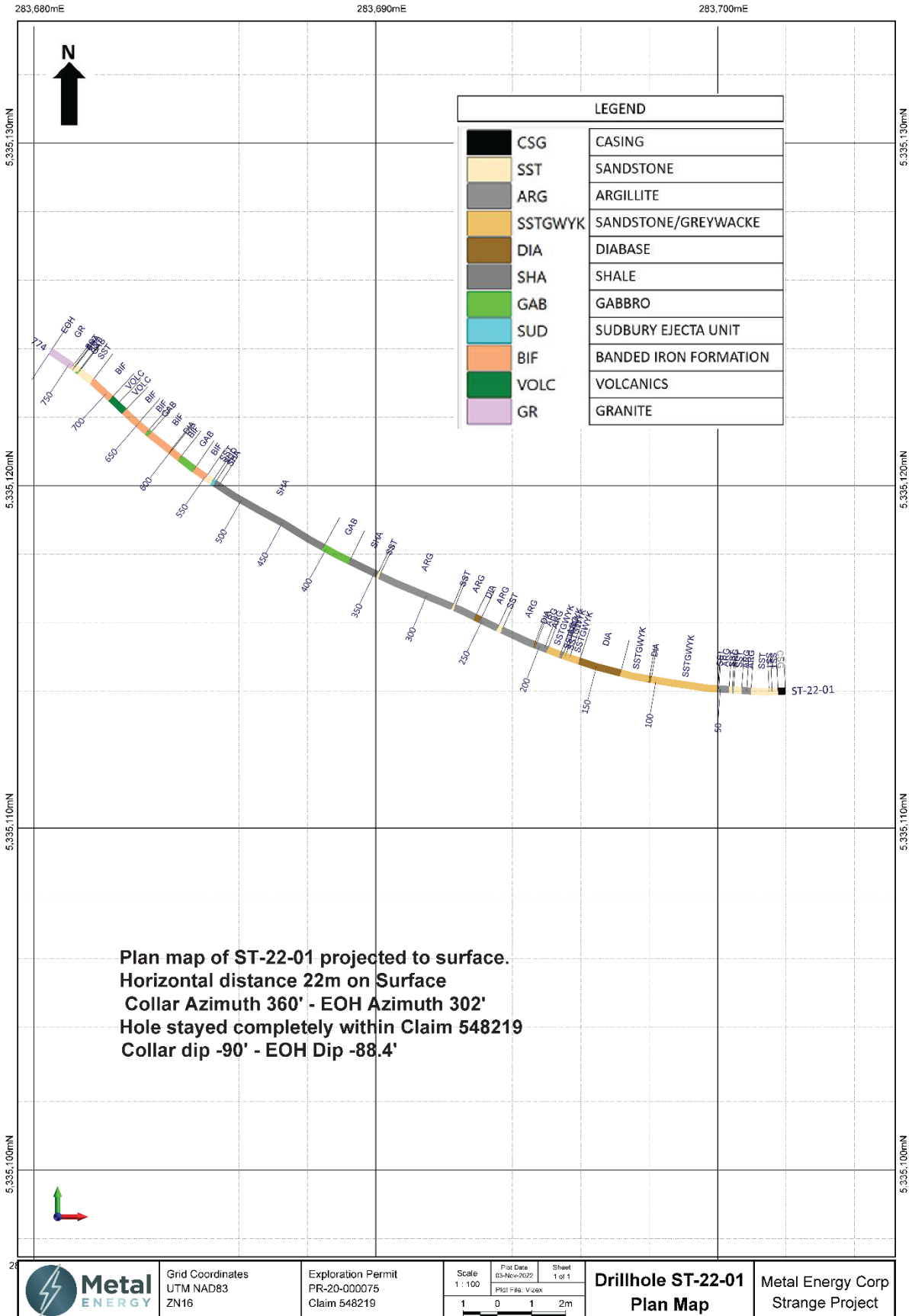


Figure 5 – Diamond Drillhole ST-22-01 Plan Map



Grid Coordinates
UTM NAD83
ZN16

Exploration Permit
PR-20-00075
Claim 548219

Scale
1 : 100
1 0 1 2m

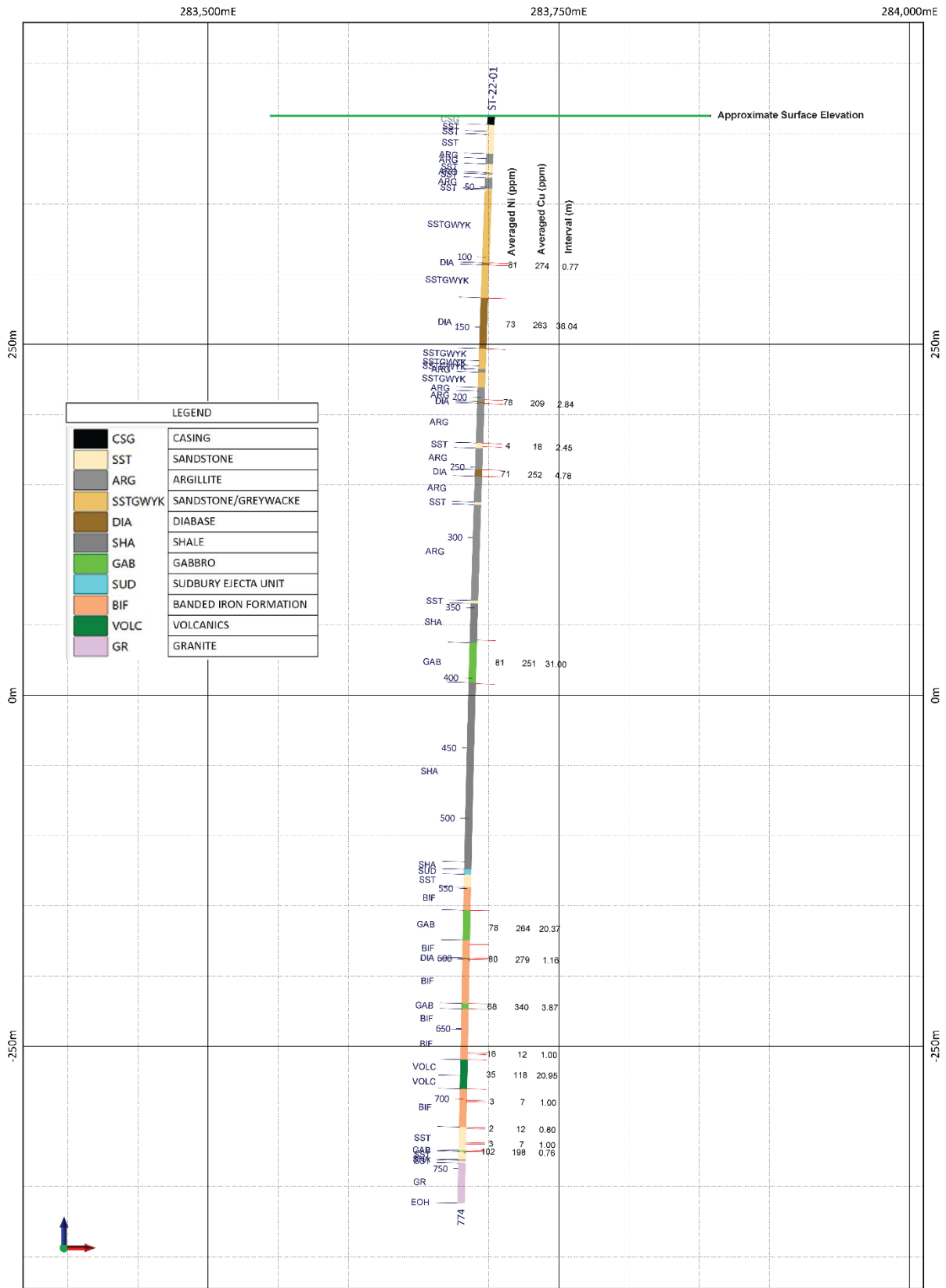
Plot Date
03-Nov-2022
Plot File: V:\zax

Sheet
1 of 1

**Drillhole ST-22-01
Plan Map**

**Metal Energy Corp
Strange Project**

Figure 6 Diamond Drillhole ST-22-01 Section



Grid Coordinates
UTM NAD83
ZN16

Exploration Permit
PR-20-000075
Claim 548219

Scale 1: 2500
Plot Date 02-Nov-2022
Sheet 1 of 1
Plot File: Vizeex
20 0 20 40m

Drillhole ST-22-01
Cross-section
Viewing North

Metal Energy Corp
Strange Project

nE



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 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
 www.alsglobal.com/geochemistry

To: METAL ENERGY CORP
 SUITE 1805 – 55 UNIVERSITY AVENUE
 TORONTO ON M5J 2H7

Page: 1
 Total # Pages: 5 (A – E)
 Plus Appendix Pages
 Finalized Date: 4-APR-2022
 Account: MECHRQGG

CERTIFICATE TB22051541

Project: Strange Project
 P.O. No.: Strange
 This report is for 135 samples of 1/2 Core submitted to our lab in Thunder Bay, ON, Canada on 28-FEB-2022.
 The following have access to data associated with this certificate:

MIKE SWEENEY	JAMES SYKES
--------------	-------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-31	Fine crushing – 70% <2mm
SPL-22Y	Split Sample – Boyd Rotary Splitter
LOG-21	Sample logging – ClientBarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package – ICP-AES	ICP-AES
C-IR07	Total Carbon (IR Spectroscopy)	LECO
S-IR08	Total Sulphur (IR Spectroscopy)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	
ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES
PGM-MS23	Pt, Pd, Au 30g FA ICP-MS	ICP-MS

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.

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

Signature: 
 Saa Traxler, Director, North Vancouver Operations



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To: METAL ENERGY CORP
 SUITE 1805 – 55 UNIVERSITY AVENUE
 TORONTO ON M5J 2H7

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 Total # Pages: 5 (A – E)
 Plus Appendix Pages
 Finalized Date: 4-APR-2022
 Account: MECHRQGG

Project: Strange Project

CERTIFICATE OF ANALYSIS TB22051541

Sample Description	Method Analyte Units LOD	WEI-21	PGM-MS23	PGM-MS23	PGM-MS23	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Recvd Wt. kg	Au ppm	Pt ppm	Pd ppm	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %
E517501		1.97	0.004	0.0028	0.011	48.4	12.50	16.00	6.61	4.51	2.62	1.12	0.006	3.51	0.20	0.40
E517502		1.83	0.004	0.0029	0.011	48.4	12.55	16.05	6.84	4.30	2.73	1.12	0.005	3.50	0.19	0.41
E517503		1.94	0.002	0.0023	0.008	52.2	12.75	15.60	6.10	4.23	3.36	1.36	0.003	3.78	0.19	0.45
E517504		2.54	0.002	0.0024	0.008	50.0	12.05	16.60	7.21	4.56	3.07	1.16	0.004	3.57	0.18	0.44
E517505		2.50	0.003	0.0024	0.008	50.8	12.45	16.50	7.22	4.48	3.08	1.29	0.004	3.73	0.18	0.45
E517506		2.35	0.003	0.0024	0.008	51.2	12.50	16.50	7.01	4.59	3.06	1.39	0.004	3.77	0.18	0.45
E517507		2.48	0.003	0.0024	0.008	51.2	12.60	16.80	7.25	4.30	3.13	1.40	0.004	3.78	0.19	0.44
E517508		2.35	0.003	0.0024	0.008	50.0	12.30	16.40	6.64	4.82	2.91	1.57	0.003	3.74	0.18	0.45
E517509		2.43	0.003	0.0024	0.008	50.6	12.70	16.20	6.98	4.19	2.95	1.38	0.003	3.57	0.18	0.45
E517510		2.57	0.003	0.0024	0.008	49.9	12.25	16.10	7.01	4.17	3.02	1.44	0.003	3.67	0.18	0.44
E517511		2.42	0.003	0.0025	0.008	50.4	12.60	15.90	6.60	4.36	3.09	1.48	0.004	3.78	0.17	0.46
E517512		2.30	0.003	0.0025	0.008	45.4	13.05	17.85	2.26	5.81	2.03	3.41	0.004	3.98	0.15	0.48
E517513		1.85	0.004	0.0023	0.008	47.3	13.25	18.35	2.88	6.06	2.70	1.60	0.004	3.82	0.17	0.45
E517514		2.17	0.003	0.0025	0.008	46.5	13.55	17.90	2.86	5.83	2.61	2.75	0.004	4.25	0.16	0.49
E517515		2.32	0.003	0.0024	0.008	50.1	13.45	15.85	6.25	4.54	3.01	1.38	0.003	3.79	0.18	0.45
E517516		2.66	0.004	0.0026	0.009	51.4	12.55	16.90	7.20	4.28	3.10	1.50	0.003	3.78	0.19	0.48
E517517		2.36	0.003	0.0024	0.008	49.4	12.55	16.20	7.09	4.18	2.99	1.48	0.003	3.68	0.18	0.43
E517518		2.56	0.003	0.0026	0.008	49.5	12.45	16.10	7.00	4.03	3.00	1.50	0.002	3.64	0.19	0.45
E517519		2.74	0.003	0.0024	0.008	49.6	12.50	16.05	7.00	4.19	2.99	1.48	0.002	3.69	0.19	0.45
E517520		2.07	0.003	0.0026	0.009	48.5	12.40	16.15	6.96	4.74	2.82	1.35	0.003	3.85	0.19	0.42
E517521		2.36	0.003	0.0025	0.008	46.6	10.80	16.45	6.22	5.36	2.14	2.39	<0.002	3.36	0.18	0.42
E517522		1.50	0.002	0.0020	0.007	46.9	11.15	16.25	6.30	5.60	2.38	2.46	0.002	3.74	0.19	0.38
E517523		2.23	0.002	0.0020	0.007	48.9	12.40	16.10	6.92	5.01	2.73	1.65	0.003	4.03	0.20	0.43
E517524		2.76	0.003	0.0023	0.008	47.5	12.10	15.80	6.57	5.26	2.53	2.06	0.003	3.94	0.19	0.41
E517525		2.16	0.002	0.0019	0.007	45.2	11.40	16.35	6.90	5.76	2.14	2.30	0.003	3.25	0.17	0.34
E517526		2.23	0.003	0.0023	0.008	49.4	13.30	16.25	7.17	4.96	2.99	1.28	0.005	3.80	0.19	0.39
E517527		2.50	0.002	0.0022	0.007	49.9	13.45	16.40	7.31	4.85	3.05	1.38	0.005	3.70	0.18	0.37
E517528		2.25	0.003	0.0022	0.008	50.1	13.60	15.85	7.28	4.86	3.06	1.36	0.005	3.60	0.18	0.37
E517529		2.35	0.003	0.0021	0.007	49.6	13.55	15.65	7.23	4.61	3.11	1.36	0.005	3.54	0.18	0.38
E517530		2.78	0.002	0.0031	0.008	47.5	12.65	15.70	6.63	5.45	2.56	1.96	0.004	3.42	0.17	0.38
E517531		2.55	0.003	0.0022	0.008	47.8	12.85	15.35	6.99	5.16	2.72	1.76	0.004	3.49	0.18	0.40
E517532		2.42	0.003	0.0023	0.008	50.8	13.35	15.90	7.06	4.45	3.07	1.48	0.004	3.62	0.18	0.41
E517533		2.28	0.003	0.0024	0.008	50.3	13.25	15.95	6.54	4.95	3.06	1.41	0.004	3.73	0.18	0.44
E517534		2.16	0.003	0.0023	0.008	49.9	13.10	15.30	6.43	4.83	3.02	1.52	0.003	3.72	0.18	0.43
E517535		2.61	0.003	0.0024	0.008	49.8	13.05	15.70	6.71	4.52	3.06	1.60	0.003	3.71	0.18	0.44
E517536		2.35	0.003	0.0024	0.008	49.3	13.05	15.60	6.36	4.45	3.03	1.65	0.003	3.76	0.18	0.43
E517537		2.19	0.003	0.0025	0.009	46.1	14.10	16.40	1.58	5.54	1.36	4.99	0.003	4.19	0.16	0.49
E517538		1.36	0.003	0.0025	0.009	47.8	14.55	15.35	1.22	5.69	0.60	6.38	0.004	4.17	0.13	0.50
E517539		1.23	0.002	0.0027	0.009	44.2	15.00	15.95	1.71	6.60	1.28	5.05	0.004	4.47	0.10	0.54
E517540		1.61	0.009	0.0017	0.003	55.3	17.65	11.05	0.39	4.13	0.95	4.79	0.024	0.96	0.05	0.12



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 Total # Pages: 5 (A – E)
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 Finalized Date: 4-APR-2022
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Project: Strange Project

CERTIFICATE OF ANALYSIS TB22051541

Sample Description	Method Analyte Units LOD	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		SrO %	BaO %	LOI %	Total %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm
E517501		0.05	0.03	2.84	98.80	0.38	0.28	248	64.4	40	4.28	7.35	3.91	2.61	25.5	8.16
E517502		0.05	0.03	1.93	98.11	0.19	0.14	247	63.5	40	4.61	7.08	3.72	2.75	25.7	8.09
E517503		0.06	0.07	1.50	101.65	0.06	0.19	488	67.2	20	1.96	7.23	3.63	2.85	24.1	8.75
E517504		0.05	0.05	2.18	101.12	0.28	0.30	387	68.4	30	2.80	7.47	3.83	2.90	24.7	8.80
E517505		0.05	0.06	1.17	101.46	0.08	0.22	427	71.1	30	3.37	7.90	3.96	2.86	25.5	9.00
E517506		0.06	0.06	0.95	101.72	0.03	0.07	474	71.4	30	3.28	7.77	4.10	2.91	26.2	9.44
E517507		0.06	0.06	0.52	101.73	0.03	0.04	448	70.7	20	3.34	7.39	3.81	2.98	26.2	9.49
E517508		0.06	0.07	1.25	100.39	0.05	0.04	543	69.1	20	2.54	7.50	3.94	2.96	25.3	9.15
E517509		0.05	0.07	0.66	99.98	0.04	0.05	479	67.8	20	2.44	7.01	3.71	2.71	25.2	9.00
E517510		0.06	0.06	0.29	98.59	0.03	0.05	474	70.0	20	2.57	7.49	3.88	2.97	25.6	8.88
E517511		0.06	0.06	0.81	99.77	0.03	0.05	476	72.4	30	2.82	7.48	3.84	2.92	26.2	9.22
E517512		0.01	0.11	3.85	98.39	0.03	0.10	824	76.9	20	1.70	8.26	4.32	2.52	25.4	9.82
E517513		0.03	0.06	3.81	100.48	0.04	0.20	440	71.5	30	2.63	6.69	3.59	2.46	29.1	8.44
E517514		0.03	0.09	3.84	100.86	0.03	0.19	664	73.9	20	1.66	8.24	4.30	2.61	23.5	10.30
E517515		0.06	0.06	1.48	100.60	0.03	0.15	462	74.7	20	2.64	7.80	4.20	3.03	27.3	9.57
E517516		0.06	0.06	0.37	101.87	0.03	0.05	433	72.4	20	2.83	7.48	4.03	2.98	26.5	9.59
E517517		0.06	0.05	0.09	98.38	0.03	0.04	449	81.5	20	2.52	7.01	3.57	3.10	24.2	9.44
E517518		0.06	0.06	0.13	98.11	0.03	0.05	529	85.0	20	2.71	7.42	3.77	3.07	24.0	9.33
E517519		0.06	0.07	0.33	98.60	0.03	0.04	659	84.3	20	2.45	7.47	3.69	2.95	23.7	9.65
E517520		0.06	0.07	1.12	98.63	0.04	0.04	658	76.8	20	2.32	6.80	3.48	2.94	23.4	9.15
E517521		0.04	0.07	4.02	98.05	0.33	0.06	693	79.4	10	3.16	7.34	3.73	2.92	22.1	9.22
E517522		0.04	0.09	3.63	99.11	0.30	0.07	821	74.0	20	2.71	6.78	3.43	2.62	21.2	9.05
E517523		0.05	0.08	1.80	100.30	0.11	0.11	712	77.1	20	2.64	6.87	3.60	2.86	23.3	9.45
E517524		0.05	0.09	2.32	98.82	0.12	0.07	812	75.9	30	2.51	7.03	3.52	2.76	23.0	9.13
E517525		0.04	0.07	4.83	98.75	0.51	0.03	638	62.9	20	2.84	5.61	2.71	2.27	20.0	7.29
E517526		0.06	0.07	0.76	100.63	0.02	0.04	616	73.4	40	2.46	6.52	3.24	2.81	24.1	8.27
E517527		0.07	0.05	-0.16	100.56	0.01	0.03	459	69.2	40	2.14	6.10	3.10	2.61	23.1	8.08
E517528		0.06	0.07	0.32	100.72	0.01	0.03	607	69.0	40	2.28	5.91	3.11	2.67	23.1	8.11
E517529		0.06	0.07	0.21	99.56	0.01	0.04	604	71.2	40	2.29	6.41	3.22	2.81	23.5	8.17
E517530		0.05	0.07	2.75	99.29	0.21	0.05	670	70.3	30	2.13	6.16	3.02	2.61	22.6	8.08
E517531		0.05	0.07	2.65	99.47	0.26	0.07	662	72.1	30	2.20	6.35	3.22	2.80	23.0	8.69
E517532		0.06	0.07	0.30	100.75	0.02	0.05	646	76.2	30	2.54	6.64	3.43	2.76	23.7	8.79
E517533		0.06	0.07	1.06	101.00	0.01	0.04	620	79.4	30	2.37	6.98	3.46	2.85	24.2	9.23
E517534		0.06	0.09	1.27	99.85	0.02	0.05	869	81.0	30	2.65	7.20	3.68	3.03	24.2	9.46
E517535		0.06	0.09	0.77	99.69	0.02	0.05	884	83.8	30	2.60	7.17	3.70	3.04	24.7	9.97
E517536		0.06	0.08	0.89	98.84	0.02	0.05	797	82.0	30	2.61	7.05	3.55	3.01	25.3	9.49
E517537		0.03	0.18	3.73	98.85	0.02	0.10	1630	85.5	30	2.26	7.16	3.68	2.69	24.2	9.78
E517538		0.01	0.22	3.95	100.57	<0.01	0.07	2200	71.2	30	2.30	7.50	4.11	2.08	24.0	8.60
E517539		0.01	0.17	4.65	99.73	0.02	0.22	1570	96.4	30	1.39	7.34	3.58	2.21	23.4	9.89
E517540		0.01	0.11	5.28	100.81	0.39	2.06	966	68.6	170	7.01	4.87	2.90	1.61	23.1	5.59



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CERTIFICATE OF ANALYSIS TB22051541

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Ge	Hf	Ho	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		5	0.1	0.01	0.1	0.01	0.1	0.02	0.2	0.03	1	0.1	0.1	0.01	0.05	
E517501		<5	7.0	1.47	32.5	0.47	25.0	40.2	9.38	34.8	8.82	2	412	1.7	1.31	4.12
E517502		<5	6.5	1.38	32.3	0.43	25.0	39.4	9.13	35.6	8.86	2	423	1.6	1.29	3.80
E517503		<5	6.8	1.32	33.6	0.42	25.9	41.5	9.66	42.4	9.23	2	441	1.8	1.30	3.75
E517504		<5	6.9	1.37	34.6	0.41	26.4	42.8	9.92	40.9	9.48	3	446	1.7	1.26	3.98
E517505		<5	6.8	1.42	35.9	0.45	27.5	42.8	10.25	44.0	9.83	2	483	1.8	1.26	4.13
E517506		<5	7.2	1.45	36.4	0.45	28.4	43.4	10.55	45.3	10.45	3	503	1.9	1.45	4.19
E517507		<5	7.2	1.45	35.3	0.43	28.0	44.0	10.35	44.4	10.10	2	497	1.9	1.35	3.99
E517508		<5	7.0	1.33	34.8	0.44	27.4	42.5	10.05	47.8	9.57	2	483	1.8	1.29	3.94
E517509		<5	6.8	1.39	34.5	0.44	26.8	42.2	9.65	40.9	9.23	2	478	1.8	1.34	3.92
E517510		<5	7.1	1.40	35.3	0.43	27.7	43.1	10.10	43.8	10.00	2	489	1.8	1.40	3.97
E517511		<5	7.4	1.43	36.4	0.45	27.7	45.1	10.45	45.4	10.30	2	500	1.9	1.43	4.04
E517512		<5	7.4	1.56	38.8	0.51	29.5	47.1	11.20	90.7	10.75	3	146.5	2.0	1.51	4.11
E517513		<5	7.2	1.28	37.2	0.44	28.4	41.1	10.05	47.3	9.07	3	296	1.9	1.30	4.17
E517514		<5	7.5	1.69	36.8	0.47	29.6	46.8	10.65	72.0	10.50	3	202	1.9	1.54	4.25
E517515		<5	7.5	1.49	37.9	0.49	28.9	45.6	10.65	43.8	9.78	2	495	1.9	1.47	4.19
E517516		<5	7.4	1.45	36.3	0.45	28.5	46.2	10.25	46.4	10.20	2	528	1.9	1.37	4.08
E517517		<5	7.1	1.36	34.5	0.46	27.7	42.9	10.60	45.0	10.30	2	576	1.8	1.37	3.90
E517518		<5	7.2	1.44	36.1	0.45	28.4	44.7	10.80	44.5	11.20	2	545	1.8	1.37	4.05
E517519		<5	7.2	1.49	35.8	0.47	27.7	45.0	10.80	43.6	10.35	2	529	1.8	1.36	4.02
E517520		<5	6.5	1.37	33.1	0.42	26.4	40.8	10.10	39.2	9.92	2	495	1.7	1.26	3.70
E517521		<5	6.7	1.42	33.6	0.41	26.8	42.2	10.20	71.7	9.69	2	315	1.7	1.35	3.83
E517522		<5	6.6	1.31	31.4	0.45	25.9	38.8	9.56	71.8	9.23	2	324	1.7	1.27	3.69
E517523		<5	6.8	1.39	32.9	0.45	26.5	40.7	10.00	48.4	9.64	2	457	1.8	1.29	3.81
E517524		<5	6.7	1.38	32.1	0.45	26.4	40.5	9.95	60.8	9.72	2	417	1.7	1.23	3.72
E517525		<5	5.4	1.09	26.9	0.34	21.2	33.2	8.14	67.1	7.76	2	316	1.4	1.00	3.06
E517526		<5	6.3	1.29	31.1	0.40	25.1	38.9	9.45	39.2	9.37	2	551	1.6	1.21	3.49
E517527		<5	6.1	1.17	29.3	0.37	23.9	37.0	9.02	40.1	8.70	2	588	1.6	1.10	3.33
E517528		<5	5.9	1.18	29.5	0.39	23.7	36.9	8.79	40.5	8.68	2	565	1.5	1.09	3.42
E517529		<5	6.0	1.20	30.1	0.42	23.9	37.5	9.35	40.6	9.17	2	571	1.6	1.17	3.55
E517530		<5	6.1	1.18	29.2	0.36	23.7	36.9	9.06	56.5	9.02	2	435	1.6	1.13	3.34
E517531		<5	6.2	1.28	30.5	0.41	24.8	38.4	9.24	51.4	9.38	2	450	1.5	1.20	3.55
E517532		<5	6.6	1.32	32.6	0.44	26.0	40.0	9.83	45.1	9.64	2	537	1.7	1.26	3.73
E517533		<5	7.1	1.37	33.5	0.44	27.4	41.6	10.25	42.0	9.70	2	542	1.8	1.26	3.92
E517534		<5	6.9	1.37	34.2	0.44	27.4	42.9	10.50	46.5	10.55	2	555	1.8	1.33	3.85
E517535		<5	7.0	1.45	35.7	0.44	27.6	44.0	10.80	49.5	10.45	2	568	1.9	1.36	4.01
E517536		<5	7.2	1.38	35.2	0.46	28.3	43.5	10.60	50.5	10.30	2	578	1.8	1.32	3.94
E517537		<5	7.5	1.44	36.2	0.46	31.2	44.2	10.95	120.0	10.50	3	201	1.9	1.32	4.29
E517538		<5	7.9	1.48	28.9	0.55	31.1	38.9	9.31	156.5	9.36	3	116.0	2.0	1.29	4.41
E517539		<5	8.6	1.45	41.5	0.43	32.9	49.2	12.20	121.5	10.90	3	74.6	2.1	1.38	4.80
E517540		<5	3.8	1.02	34.7	0.44	11.6	31.5	8.29	189.0	6.72	2	56.3	0.8	0.83	7.92



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CERTIFICATE OF ANALYSIS TB22051541

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	
		Tm	U	V	W	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.05	5	1	0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01
E517501		0.46	1.16	420	1	34.0	3.15	263	1.9	0.05	0.015	0.059	0.001	0.18	<0.2	<0.01
E517502		0.50	1.16	403	1	34.0	3.29	261	1.3	0.05	0.008	0.048	0.001	0.13	<0.2	<0.01
E517503		0.44	1.22	362	1	32.8	2.91	264	1.6	0.06	0.013	0.022	0.001	0.28	0.4	0.01
E517504		0.47	1.22	378	1	33.3	2.83	272	3.0	0.05	0.071	0.034	<0.001	0.43	0.6	<0.01
E517505		0.49	1.38	388	1	35.1	3.06	282	1.7	0.05	0.019	0.027	<0.001	0.29	0.3	<0.01
E517506		0.51	1.32	420	1	35.0	3.00	285	1.9	0.05	0.014	0.026	<0.001	0.14	0.2	<0.01
E517507		0.53	1.30	391	1	35.1	2.83	280	2.0	0.05	0.010	0.023	0.001	0.11	0.2	<0.01
E517508		0.49	1.28	388	1	34.4	3.03	277	2.0	0.05	0.011	0.033	0.001	0.12	0.2	<0.01
E517509		0.48	1.32	389	1	34.1	2.98	272	1.8	0.05	0.009	0.030	<0.001	0.11	<0.2	<0.01
E517510		0.46	1.26	382	2	34.7	3.13	281	1.8	0.05	0.007	0.026	<0.001	0.10	0.2	<0.01
E517511		0.49	1.36	389	1	34.7	3.07	285	1.9	0.05	0.010	0.034	<0.001	0.12	0.2	0.01
E517512		0.51	1.36	445	1	36.2	3.46	295	4.1	0.05	0.028	0.080	<0.001	0.27	0.4	0.01
E517513		0.47	1.46	392	1	32.1	2.82	285	5.3	0.05	0.029	0.082	<0.001	0.55	0.4	0.01
E517514		0.55	1.42	407	1	35.6	3.55	297	2.1	0.05	0.018	0.079	0.001	0.29	0.5	0.01
E517515		0.50	1.32	444	1	35.7	3.12	292	1.8	0.05	0.011	0.043	<0.001	0.17	0.2	0.01
E517516		0.51	1.31	417	1	36.2	3.18	284	1.7	0.05	0.006	0.027	<0.001	0.11	0.3	<0.01
E517517		0.52	1.23	428	1	35.5	2.85	280	1.8	0.05	0.006	0.026	0.001	0.11	<0.2	0.01
E517518		0.50	1.24	403	1	36.6	2.95	289	1.9	0.05	0.008	0.028	<0.001	0.12	0.2	0.01
E517519		0.49	1.21	411	1	36.2	3.00	287	1.8	0.05	0.006	0.029	<0.001	0.11	0.2	0.01
E517520		0.51	1.09	462	1	34.5	2.85	263	1.7	0.04	0.010	0.033	0.001	0.13	0.3	0.01
E517521		0.50	1.17	365	1	35.8	2.95	274	2.0	0.04	0.014	0.038	<0.001	0.26	0.3	0.01
E517522		0.48	1.17	451	1	32.8	2.75	258	2.1	0.03	0.014	0.038	<0.001	0.34	0.2	0.01
E517523		0.49	1.18	487	1	33.8	2.95	266	1.9	0.04	0.011	0.033	<0.001	0.34	0.3	<0.01
E517524		0.50	1.14	471	1	33.9	2.83	264	1.6	0.04	0.010	0.036	<0.001	0.24	<0.2	0.01
E517525		0.39	0.91	368	1	27.4	2.17	215	2.0	0.03	0.007	0.033	<0.001	0.26	0.2	0.01
E517526		0.48	1.09	453	1	31.9	2.67	252	1.5	0.04	0.009	0.027	<0.001	0.13	0.3	0.01
E517527		0.43	1.10	426	1	30.6	2.52	240	1.5	0.04	0.008	0.024	<0.001	0.09	<0.2	<0.01
E517528		0.40	1.03	420	1	30.3	2.62	237	1.5	0.04	0.013	0.026	<0.001	0.11	0.2	0.01
E517529		0.46	1.08	417	1	31.2	2.52	246	1.7	0.04	0.010	0.025	<0.001	0.11	0.3	0.01
E517530		0.44	1.01	393	1	31.2	2.40	244	1.4	0.03	0.009	0.034	<0.001	0.13	0.2	0.01
E517531		0.45	1.08	399	1	32.4	2.54	248	1.5	0.04	0.008	0.034	<0.001	0.15	0.2	0.01
E517532		0.48	1.23	418	1	33.7	2.66	264	1.8	0.05	0.010	0.029	0.001	0.11	0.2	0.01
E517533		0.50	1.19	430	1	34.6	2.84	277	1.9	0.05	0.010	0.037	<0.001	0.12	0.2	0.01
E517534		0.52	1.22	429	1	35.0	2.84	277	1.8	0.05	0.013	0.038	<0.001	0.12	0.2	0.01
E517535		0.55	1.23	431	1	36.2	2.89	284	1.8	0.05	0.014	0.031	<0.001	0.12	0.2	<0.01
E517536		0.52	1.16	427	1	34.9	2.98	283	1.9	0.05	0.014	0.038	0.001	0.11	0.2	0.01
E517537		0.52	1.32	447	1	34.4	3.10	300	1.9	0.05	0.053	0.096	<0.001	0.09	0.4	0.01
E517538		0.59	1.31	469	2	34.6	3.53	315	1.6	0.05	0.054	0.103	0.001	0.09	0.3	0.01
E517539		0.48	1.55	507	2	35.1	2.86	354	1.9	0.06	0.084	0.132	0.001	0.29	0.3	0.01
E517540		0.45	5.98	180	1	26.4	2.66	142	22.5	1.18	0.153	0.041	0.002	2.68	0.7	0.08



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Sample Description	Method Analyte Units LOD	ME-MS42	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	
		Tl	Ag	Cd	Co	Cu	Li	Mo	Ni	Pb	Sc	Zn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.5	0.5	1	1	10	1	1	2	1	2
E517501		0.37	<0.5	<0.5	53	272	40	2	80	8	26	163
E517502		0.31	<0.5	<0.5	53	275	20	2	81	8	27	158
E517503		0.15	<0.5	<0.5	49	267	40	3	69	8	26	96
E517504		0.23	<0.5	0.5	54	245	30	2	72	5	25	279
E517505		0.24	<0.5	<0.5	54	275	30	3	74	8	27	158
E517506		0.24	<0.5	<0.5	53	276	20	2	74	6	27	159
E517507		0.21	<0.5	<0.5	52	276	20	2	71	5	26	158
E517508		0.21	<0.5	0.5	50	267	30	3	67	7	26	158
E517509		0.19	<0.5	<0.5	51	277	20	2	69	7	27	160
E517510		0.19	<0.5	<0.5	51	271	20	2	70	7	26	157
E517511		0.27	<0.5	<0.5	52	276	20	2	68	5	27	161
E517512		0.15	<0.5	<0.5	52	276	70	2	72	4	28	116
E517513		0.24	<0.5	<0.5	50	276	70	2	70	14	27	203
E517514		0.15	<0.5	<0.5	56	292	60	3	76	6	29	120
E517515		0.24	<0.5	<0.5	54	285	30	2	72	7	28	156
E517516		0.22	<0.5	<0.5	53	287	20	2	68	9	27	164
E517517		0.15	<0.5	<0.5	53	280	20	2	71	7	27	160
E517518		0.15	<0.5	<0.5	50	280	20	2	63	7	26	156
E517519		0.17	<0.5	<0.5	50	271	20	2	61	7	26	155
E517520		0.18	<0.5	<0.5	50	262	20	2	63	8	27	152
E517521		0.08	<0.5	0.5	42	252	40	2	38	10	25	167
E517522		0.09	<0.5	<0.5	44	215	40	2	54	7	27	184
E517523		0.16	<0.5	<0.5	50	249	30	2	68	7	28	163
E517524		0.14	<0.5	<0.5	51	248	30	2	69	7	27	162
E517525		0.10	<0.5	<0.5	45	207	40	2	74	8	22	143
E517526		0.29	<0.5	<0.5	54	240	20	2	88	6	25	146
E517527		0.16	<0.5	<0.5	56	235	30	2	96	7	24	147
E517528		0.31	<0.5	<0.5	54	232	20	2	95	6	23	144
E517529		0.31	<0.5	<0.5	52	235	20	2	90	5	24	146
E517530		0.17	<0.5	<0.5	50	236	40	2	81	5	23	134
E517531		0.22	<0.5	<0.5	51	243	40	2	77	5	24	148
E517532		0.25	<0.5	<0.5	52	261	30	2	80	8	26	159
E517533		0.23	<0.5	<0.5	52	260	30	2	78	5	25	154
E517534		0.36	<0.5	<0.5	52	264	40	2	73	5	25	154
E517535		0.28	<0.5	<0.5	50	264	30	2	72	6	25	159
E517536		0.37	<0.5	<0.5	51	270	40	2	72	7	26	160
E517537		0.38	<0.5	<0.5	54	290	80	2	78	2	28	152
E517538		0.29	<0.5	<0.5	56	288	80	2	80	7	29	149
E517539		0.31	<0.5	<0.5	63	332	110	1	86	6	31	182
E517540		0.68	<0.5	<0.5	28	128	100	6	93	23	22	169



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Sample Description	Method Analyte Units LOD	WEI-21	PGM-MS23	PGM-MS23	PGM-MS23	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Recvd Wt. kg	Au ppm	Pt ppm	Pd ppm	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %
E517541		2.16	0.002	0.0022	0.008	48.5	13.85	15.15	3.61	5.64	3.01	1.29	0.004	3.86	0.09	0.44
E517542		1.83	0.003	0.0022	0.007	43.8	13.15	15.45	5.32	6.16	2.39	1.59	0.003	3.61	0.14	0.43
E517543		2.40	0.001	<0.0005	<0.001	54.1	13.45	10.75	5.24	2.92	4.01	0.88	<0.002	2.23	0.10	0.59
E517544		1.10	0.001	<0.0005	<0.001	48.0	11.50	10.70	11.45	1.96	4.52	0.06	<0.002	2.05	0.12	0.51
E517545		2.20	<0.001	<0.0005	<0.001	53.8	13.30	11.80	6.40	2.67	3.08	1.74	<0.002	2.43	0.15	0.59
E517546		2.33	0.004	0.0027	0.009	50.2	13.00	16.50	7.34	4.00	2.99	1.17	0.004	3.62	0.18	0.42
E517547		2.37	0.004	0.0028	0.011	50.0	13.05	16.70	7.06	3.99	2.90	1.10	0.004	3.70	0.19	0.42
E517548		2.31	0.003	0.0026	0.010	49.0	12.20	16.25	7.31	4.40	2.64	0.74	0.006	3.42	0.17	0.36
E517549		2.59	0.004	0.0025	0.010	49.8	13.05	16.65	7.14	4.37	2.81	1.12	0.006	3.53	0.19	0.41
E517550		1.82	0.004	0.0025	0.009	50.4	12.95	16.70	7.42	4.25	2.93	1.16	0.005	3.57	0.19	0.41
E517551		2.37	0.006	0.0032	0.005	51.3	13.50	10.80	3.85	3.65	1.78	2.75	0.016	0.57	0.05	0.10
E517552		2.23	0.005	0.0029	0.005	56.4	14.95	11.30	2.16	2.89	2.32	2.76	0.014	1.12	0.05	0.16
E517553		2.38	0.004	0.0027	0.010	49.4	13.00	16.70	7.04	4.08	3.12	1.07	0.005	3.54	0.19	0.41
E517554		2.44	0.004	0.0026	0.011	49.1	12.35	16.85	6.71	4.13	3.05	1.22	0.005	3.51	0.19	0.38
E517555		2.29	0.004	0.0027	0.011	49.4	12.80	16.75	6.92	3.97	3.11	1.17	0.005	3.62	0.19	0.41
E517556		2.29	0.005	0.0029	0.011	50.1	12.35	17.15	7.01	3.72	3.18	1.27	0.002	3.77	0.20	0.44
E517557		1.81	0.005	0.0029	0.011	47.9	11.45	17.50	7.23	3.48	3.32	0.91	<0.002	3.60	0.19	0.43
E517558		2.49	0.005	0.0033	0.012	50.9	12.00	17.35	7.23	3.48	3.24	1.35	<0.002	3.88	0.21	0.50
E517559		2.48	0.006	0.0037	0.015	51.2	12.05	17.10	6.74	2.98	3.20	1.41	<0.002	3.60	0.22	0.57
E517560		2.17	0.005	0.0032	0.013	51.0	12.10	16.90	7.25	3.09	3.13	1.36	<0.002	3.50	0.23	0.55
E517561		2.56	0.005	0.0031	0.013	51.2	12.15	16.85	7.33	3.46	3.17	1.19	<0.002	3.76	0.23	0.50
E517562		2.37	0.004	0.0027	0.011	47.9	11.85	17.50	5.59	3.74	3.31	0.62	<0.002	4.52	0.23	0.40
E517563		1.87	0.004	0.0025	0.010	47.6	11.55	17.80	5.98	4.21	3.08	0.57	<0.002	4.38	0.24	0.38
E517564		2.37	0.003	0.0021	0.008	49.9	14.25	15.55	5.71	3.75	3.54	0.73	0.004	3.49	0.17	0.32
E517565		2.34	0.005	0.0021	0.008	46.2	14.70	16.35	7.06	3.89	3.18	0.81	0.011	3.53	0.18	0.26
E517566		2.40	0.005	0.0025	0.011	47.0	14.05	16.35	7.18	4.26	3.06	1.04	0.008	3.56	0.17	0.25
E517567		2.40	0.004	0.0025	0.009	48.5	13.75	16.55	7.06	4.11	3.14	1.08	0.009	3.44	0.18	0.33
E517568		2.16	0.004	0.0023	0.009	48.8	13.90	16.00	7.25	4.17	3.14	0.99	0.011	3.33	0.18	0.36
E517569		2.48	0.004	0.0023	0.009	49.4	13.85	16.05	7.24	4.49	3.16	0.97	0.010	3.24	0.18	0.35
E517570		2.40	0.004	0.0024	0.008	49.2	14.05	15.95	7.21	4.42	3.24	1.05	0.008	3.18	0.18	0.35
E517571		2.51	0.004	0.0024	0.009	50.1	13.95	16.10	7.31	4.45	3.15	1.08	0.007	3.22	0.18	0.36
E517572		2.49	0.004	0.0024	0.009	49.7	13.85	16.15	7.29	4.50	3.12	1.04	0.005	3.19	0.18	0.36
E517573		2.34	0.004	0.0025	0.009	50.0	14.05	16.25	7.39	4.59	3.19	1.06	0.005	3.24	0.18	0.37
E517574		2.46	0.004	0.0024	0.010	49.7	13.80	16.15	7.31	4.48	3.14	0.99	0.005	3.27	0.18	0.37
E517575		2.41	0.004	0.0025	0.010	48.8	13.55	16.15	7.20	4.30	3.01	1.00	0.005	3.32	0.19	0.37
E517576		2.46	0.004	0.0026	0.010	49.9	13.60	16.50	7.21	4.24	3.15	1.14	0.005	3.42	0.19	0.38
E517577		2.45	0.004	0.0025	0.010	50.0	13.35	16.45	7.11	4.11	3.16	1.14	0.005	3.49	0.19	0.39
E517578		2.27	0.004	0.0027	0.010	50.5	13.30	16.85	7.20	4.15	3.07	1.23	0.005	3.58	0.19	0.40
E517579		2.49	0.005	0.0029	0.011	49.9	13.10	17.20	7.15	4.33	3.04	1.18	0.005	3.63	0.20	0.40
E517580		3.39	0.004	0.0027	0.011	50.2	13.15	17.00	7.27	4.23	3.04	1.04	0.005	3.61	0.20	0.40



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 SUITE 1805 – 55 UNIVERSITY AVENUE
 TORONTO ON M5J 2H7

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CERTIFICATE OF ANALYSIS TB22051541

Sample Description	Method Analyte Units LOD	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		SrO %	BaO %	LOI %	Total %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm
E517541		0.01	0.06	5.32	100.83	0.46	0.35	492	103.5	30	1.12	6.69	3.54	3.08	24.5	9.60
E517542		0.01	0.05	7.42	99.52	<0.01	<0.01	499	119.0	20	0.88	7.31	3.40	3.29	24.6	11.40
E517543		0.03	0.05	5.46	99.81	1.00	0.35	448	135.0	10	1.35	7.13	3.50	3.55	23.2	11.00
E517544		0.03	0.01	8.11	99.02	2.27	1.32	54.8	123.0	<10	0.25	6.70	2.92	3.31	19.8	10.60
E517545		0.07	0.08	4.81	100.92	0.97	0.38	661	131.0	<10	4.48	7.02	3.19	3.48	22.0	10.45
E517546		0.05	0.04	1.06	100.57	0.22	0.14	329	77.2	30	4.05	7.07	3.72	2.89	24.4	9.00
E517547		0.05	0.04	1.88	101.08	0.29	0.08	338	77.5	30	4.05	6.98	3.69	2.79	24.2	9.14
E517548		0.03	0.03	4.66	101.22	0.81	0.22	269	64.4	40	2.81	6.04	3.23	2.32	22.2	8.06
E517549		0.05	0.04	1.66	100.83	0.29	0.14	323	74.5	40	4.20	6.90	3.54	2.69	23.9	8.79
E517550		0.05	0.03	1.22	101.29	0.21	0.06	316	77.2	40	4.41	7.26	3.92	2.79	24.1	9.44
E517551		0.02	0.11	10.05	98.55	4.53	4.76	892	65.8	120	7.49	5.55	3.40	1.22	18.2	5.62
E517552		0.02	0.05	5.65	99.84	2.58	3.68	434	73.0	110	7.87	5.75	3.57	1.60	20.5	6.46
E517553		0.06	0.04	0.77	99.43	0.09	0.08	352	75.9	40	3.23	7.23	3.77	2.73	23.9	8.59
E517554		0.06	0.05	0.80	98.41	0.08	0.06	405	76.1	40	3.05	7.03	3.78	2.78	23.9	8.50
E517555		0.06	0.04	0.99	99.44	0.10	0.06	380	79.2	40	2.98	7.44	3.95	2.90	25.2	9.01
E517556		0.05	0.07	1.24	100.55	0.09	0.09	594	85.4	10	2.27	8.05	4.14	3.03	24.8	9.53
E517557		0.03	0.04	3.20	99.28	0.44	0.83	392	83.9	<10	1.30	7.91	4.00	2.92	23.8	9.38
E517558		0.05	0.05	0.78	101.02	0.06	0.07	397	94.6	<10	3.31	8.83	4.57	3.24	24.7	10.50
E517559		0.05	0.05	1.74	100.91	0.21	0.17	407	106.0	<10	3.81	9.85	5.16	3.72	25.7	12.30
E517560		0.05	0.04	1.38	100.58	0.18	0.32	382	101.5	<10	3.69	9.28	5.11	3.45	25.6	11.35
E517561		0.05	0.04	1.94	101.87	0.28	0.27	360	92.0	<10	3.06	8.55	4.53	3.14	24.4	10.55
E517562		0.04	0.02	3.64	99.36	0.48	0.92	209	76.3	10	0.93	7.55	3.98	2.70	23.9	9.01
E517563		0.03	0.02	3.58	99.42	0.43	0.72	161.5	70.6	<10	1.25	6.98	3.68	2.45	23.1	8.37
E517564		0.05	0.02	2.57	100.05	0.31	0.86	215	61.7	30	1.78	5.76	2.98	2.00	24.8	6.95
E517565		0.07	0.03	2.85	99.12	0.37	1.26	244	50.4	70	2.28	4.97	2.55	2.12	24.6	5.69
E517566		0.07	0.03	1.47	98.50	0.21	0.54	271	48.7	60	2.63	4.86	2.78	2.11	23.7	5.90
E517567		0.06	0.03	1.11	99.35	0.13	0.16	294	65.5	70	3.01	6.34	3.37	2.54	24.6	7.51
E517568		0.06	0.03	1.52	99.74	0.21	0.21	270	67.5	80	3.08	6.44	3.30	2.56	24.4	7.92
E517569		0.06	0.03	1.97	101.00	0.28	0.09	261	67.0	80	2.87	6.36	3.28	2.54	23.4	7.51
E517570		0.06	0.03	0.86	99.79	0.10	0.06	288	68.7	60	3.30	6.36	3.36	2.58	24.4	7.63
E517571		0.06	0.03	0.89	100.89	0.06	0.04	300	69.2	50	2.69	6.34	3.54	2.53	24.2	7.65
E517572		0.06	0.03	0.82	100.30	0.05	0.05	297	69.1	40	2.42	6.29	3.33	2.53	23.9	7.66
E517573		0.06	0.03	0.85	101.27	0.08	0.05	296	67.1	30	2.86	6.41	3.29	2.55	23.6	7.57
E517574		0.06	0.03	1.17	100.66	0.12	0.06	280	68.5	40	3.29	6.87	3.39	2.59	24.0	8.00
E517575		0.06	0.03	1.56	99.55	0.20	0.10	273	71.6	30	3.66	6.69	3.65	2.59	23.7	7.87
E517576		0.06	0.04	0.96	100.80	0.09	0.05	334	73.9	40	3.95	7.21	3.50	2.75	24.8	8.23
E517577		0.06	0.04	0.94	100.44	0.09	0.06	335	74.8	40	3.89	7.11	3.61	2.73	23.7	8.23
E517578		0.06	0.04	0.89	101.47	0.07	0.05	360	76.5	40	3.59	7.26	3.72	2.70	24.6	8.62
E517579		0.06	0.04	0.89	101.13	0.08	0.05	350	76.8	40	3.83	7.35	3.70	2.82	24.4	8.77
E517580		0.05	0.04	0.92	101.16	0.08	0.12	315	78.2	40	3.28	7.36	4.00	2.80	24.1	8.95



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CERTIFICATE OF ANALYSIS TB22051541

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Ge	Hf	Ho	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		5	0.1	0.01	0.1	0.01	0.1	0.02	0.2	0.03	1	0.1	0.1	0.01	0.05	
E517541		<5	6.9	1.37	50.5	0.46	26.7	49.9	12.55	34.3	10.80	2	101.0	1.8	1.31	4.31
E517542		<5	6.9	1.43	58.2	0.43	26.5	59.1	14.85	43.7	13.00	2	76.8	1.7	1.44	4.08
E517543		<5	8.7	1.36	59.0	0.39	38.7	63.9	16.50	21.4	13.35	2	218	2.5	1.39	6.33
E517544		<5	7.4	1.29	54.7	0.35	34.6	59.7	15.15	1.7	12.40	1	269	2.2	1.33	5.43
E517545		<5	8.4	1.29	57.5	0.36	37.8	62.3	16.05	48.5	12.65	2	610	2.5	1.37	5.82
E517546		<5	6.7	1.39	33.4	0.49	25.9	41.1	9.99	40.6	9.60	2	483	1.6	1.28	3.95
E517547		<5	6.7	1.46	32.7	0.46	25.6	40.7	9.92	39.3	9.55	2	449	1.6	1.24	3.89
E517548		<5	5.8	1.18	27.3	0.40	22.4	33.7	8.21	27.9	8.17	2	329	1.5	1.09	3.38
E517549		<5	6.6	1.38	31.5	0.42	25.0	38.4	9.60	42.3	9.28	2	469	1.6	1.28	3.70
E517550		<5	6.9	1.40	32.6	0.47	25.6	40.2	9.96	43.5	9.82	2	485	1.7	1.31	3.87
E517551		<5	3.7	1.17	40.0	0.61	10.0	30.3	8.08	117.5	6.92	3	128.5	0.6	0.93	8.71
E517552		<5	5.0	1.24	35.6	0.56	13.6	34.2	9.10	114.0	7.62	1	177.5	0.9	1.01	8.87
E517553		<5	6.6	1.42	31.9	0.47	25.9	39.6	9.52	36.4	9.60	2	480	1.7	1.32	4.15
E517554		<5	6.8	1.39	31.8	0.47	25.7	39.1	9.72	41.8	9.78	2	502	1.7	1.30	4.19
E517555		<5	7.1	1.47	33.6	0.50	27.2	41.0	10.05	38.9	10.05	2	501	1.7	1.37	4.27
E517556		<5	7.5	1.59	36.1	0.50	29.1	43.2	10.80	36.8	10.70	2	465	1.9	1.46	4.52
E517557		<5	7.3	1.57	36.4	0.50	28.4	43.1	10.80	23.0	10.25	2	254	1.9	1.43	4.29
E517558		<5	8.1	1.72	40.7	0.58	31.9	48.4	12.10	40.0	12.00	2	450	2.0	1.62	5.28
E517559		<5	9.4	1.98	45.2	0.63	35.7	55.0	13.40	42.7	13.45	3	446	2.3	1.80	5.97
E517560		<5	8.7	1.87	42.5	0.60	33.7	52.0	13.00	39.9	12.95	3	451	2.2	1.71	5.38
E517561		<5	7.9	1.73	39.2	0.56	31.3	47.4	11.60	34.2	11.40	3	440	2.0	1.59	5.13
E517562		<5	7.1	1.54	32.1	0.49	28.3	40.1	9.79	16.0	10.20	2	338	1.9	1.34	4.26
E517563		<5	6.8	1.43	29.5	0.46	26.5	36.8	9.01	16.4	8.92	2	305	1.7	1.25	4.09
E517564		<5	5.6	1.15	26.1	0.40	21.1	31.7	7.94	21.5	8.06	2	448	1.4	1.06	3.58
E517565		<5	4.6	0.97	21.5	0.32	17.8	26.2	6.50	25.4	6.57	1	555	1.1	0.90	2.70
E517566		<5	4.6	1.03	20.8	0.31	17.5	25.9	6.36	34.7	6.16	1	570	1.2	0.89	2.59
E517567		<5	6.0	1.22	27.7	0.41	22.5	34.2	8.38	35.4	7.95	2	560	1.4	1.08	3.49
E517568		<5	6.0	1.30	28.9	0.45	23.5	35.4	8.64	32.4	8.43	2	542	1.5	1.18	3.60
E517569		<5	5.9	1.33	28.2	0.41	22.7	34.6	8.38	31.4	8.58	2	542	1.5	1.13	3.57
E517570		<5	6.1	1.25	29.4	0.42	23.1	34.9	8.80	33.9	8.51	2	553	1.4	1.15	3.79
E517571		<5	6.1	1.27	29.1	0.43	23.6	34.9	8.88	32.5	8.90	2	533	1.5	1.28	3.74
E517572		<5	6.1	1.30	29.5	0.40	23.2	34.6	8.91	31.7	8.34	2	526	1.5	1.14	3.70
E517573		<5	6.1	1.27	28.5	0.42	23.3	34.8	8.55	32.9	8.66	2	536	1.5	1.16	3.52
E517574		<5	6.3	1.32	29.2	0.44	23.7	35.1	8.68	33.5	8.69	2	532	1.5	1.20	3.72
E517575		<5	6.3	1.34	30.1	0.42	24.0	37.3	9.02	34.3	9.17	2	512	1.5	1.23	3.74
E517576		<5	6.6	1.44	31.5	0.42	25.1	38.6	9.50	37.1	9.51	2	531	1.6	1.34	3.96
E517577		<5	6.7	1.46	31.5	0.45	25.4	39.5	9.57	37.5	9.81	2	518	1.7	1.24	4.28
E517578		<5	6.9	1.43	32.6	0.47	26.2	39.1	9.81	38.6	9.78	4	512	1.7	1.33	4.16
E517579		<5	7.0	1.51	32.8	0.47	26.3	39.8	9.94	39.3	9.49	2	495	1.7	1.35	4.06
E517580		<5	7.0	1.50	33.1	0.47	26.7	40.1	9.97	34.8	10.20	2	485	1.7	1.38	4.23



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Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	
		Tm	U	V	W	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.05	5	1	0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01
E517541		0.52	1.39	422	2	34.7	2.85	275	3.4	0.14	0.167	0.111	0.002	0.44	0.4	0.02
E517542		0.51	1.18	420	1	35.2	2.82	276	2.5	0.05	0.078	0.094	0.001	0.33	0.3	0.02
E517543		0.47	1.77	134	1	35.4	2.67	380	4.4	0.05	0.126	0.083	0.001	0.47	<0.2	0.01
E517544		0.41	1.37	133	1	32.4	2.40	317	0.6	0.05	0.072	0.057	<0.001	0.38	0.6	0.01
E517545		0.44	1.49	149	1	32.4	2.57	369	2.1	0.05	0.081	0.079	0.001	0.49	0.2	0.01
E517546		0.48	1.14	433	1	36.0	2.97	273	1.8	0.05	0.015	0.041	<0.001	0.15	0.3	<0.01
E517547		0.52	1.09	432	1	36.2	2.86	271	1.8	0.05	0.022	0.047	0.001	0.14	0.4	<0.01
E517548		0.44	0.95	420	1	30.3	2.74	231	5.0	0.04	0.056	0.070	0.001	0.25	0.4	0.01
E517549		0.48	1.16	424	1	34.8	2.90	262	2.2	0.05	0.046	0.054	0.001	0.27	0.4	<0.01
E517550		0.53	1.21	435	1	36.0	3.27	273	1.8	0.05	0.013	0.040	0.001	0.13	0.4	0.01
E517551		0.53	12.40	427	4	33.1	3.55	145	87.5	0.60	0.462	0.171	0.038	6.70	2.7	0.15
E517552		0.55	10.95	304	2	32.7	3.54	190	18.7	0.49	0.381	0.100	0.029	6.30	1.9	0.11
E517553		0.52	1.16	453	1	35.4	3.20	265	13.5	0.05	0.044	0.027	0.001	0.22	0.4	0.01
E517554		0.53	1.14	455	1	35.6	2.95	270	8.0	0.04	0.042	0.029	<0.001	0.18	0.3	<0.01
E517555		0.55	1.21	475	1	36.9	3.01	282	2.4	0.04	0.040	0.029	<0.001	0.10	0.4	<0.01
E517556		0.58	1.26	443	1	39.9	3.35	301	10.1	0.05	0.066	0.027	<0.001	0.09	0.5	<0.01
E517557		0.57	1.20	391	1	38.5	3.31	292	31.4	0.03	0.146	0.033	0.001	0.20	0.9	0.01
E517558		0.64	1.38	379	1	43.7	3.77	327	3.2	0.05	0.057	0.029	0.001	0.10	0.4	<0.01
E517559		0.73	1.67	259	1	49.2	4.19	388	22.4	0.04	0.036	0.044	0.001	0.15	0.6	<0.01
E517560		0.66	1.49	297	1	47.0	4.12	366	23.8	0.05	0.024	0.041	0.001	0.19	0.4	0.01
E517561		0.65	1.40	350	1	43.2	3.68	328	18.6	0.03	0.050	0.039	0.001	0.24	0.4	0.01
E517562		0.55	1.20	536	1	37.5	3.38	282	92.5	0.03	0.027	0.039	0.001	0.43	0.6	0.02
E517563		0.52	1.12	670	1	34.8	3.10	270	89.7	0.03	0.025	0.039	0.001	0.29	0.5	0.02
E517564		0.44	1.04	562	1	29.1	2.56	226	54.3	0.03	0.036	0.038	0.001	0.43	0.5	0.01
E517565		0.34	0.77	676	<1	24.3	2.03	181	61.6	0.03	0.052	0.035	<0.001	0.52	0.5	0.01
E517566		0.36	0.73	593	<1	24.4	2.11	177	14.8	0.02	0.024	0.035	0.001	0.30	0.4	0.01
E517567		0.44	0.96	513	1	30.6	2.69	232	4.2	0.02	0.020	0.033	0.001	0.25	0.3	<0.01
E517568		0.47	1.03	481	1	31.7	2.73	240	3.2	0.03	0.031	0.032	0.001	0.31	0.4	<0.01
E517569		0.47	1.02	452	1	31.7	2.85	239	5.5	0.03	0.023	0.032	0.001	0.32	0.5	0.01
E517570		0.44	1.06	434	1	31.7	2.82	239	1.9	0.04	0.014	0.030	<0.001	0.11	0.3	<0.01
E517571		0.47	1.00	413	1	32.3	2.88	243	1.6	0.04	0.016	0.028	0.001	0.08	0.3	<0.01
E517572		0.47	1.02	419	1	32.0	2.71	243	1.8	0.05	0.019	0.030	0.001	0.08	0.3	<0.01
E517573		0.44	1.02	415	1	32.0	3.02	239	1.9	0.04	0.019	0.030	0.001	0.08	0.4	<0.01
E517574		0.46	1.04	423	1	32.2	2.75	241	3.4	0.04	0.022	0.031	<0.001	0.17	0.4	<0.01
E517575		0.49	1.08	432	1	32.9	2.76	247	5.1	0.03	0.037	0.030	0.001	0.23	0.4	<0.01
E517576		0.49	1.12	442	1	34.7	2.88	263	2.1	0.04	0.022	0.030	0.001	0.11	0.4	0.01
E517577		0.51	2.52	443	1	35.3	3.01	267	2.1	0.04	0.024	0.029	<0.001	0.11	0.4	<0.01
E517578		0.52	1.21	454	1	35.4	2.95	269	2.2	0.05	0.018	0.030	0.001	0.09	0.4	0.01
E517579		0.54	1.16	461	1	35.9	3.03	274	2.7	0.05	0.019	0.030	0.001	0.10	0.5	<0.01
E517580		0.53	1.20	466	1	36.6	3.30	279	2.3	0.05	0.016	0.029	0.001	0.10	0.5	<0.01



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Sample Description	Method Analyte Units LOD	ME-MS42	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	
		TI	Ag	Cd	Co	Cu	Li	Mo	Ni	Pb	Sc	Zn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.5	0.5	1	1	10	1	1	2	1	2
E517541		0.13	<0.5	0.7	47	247	90	2	69	8	26	330
E517542		0.13	<0.5	<0.5	48	255	90	2	72	7	25	160
E517543		0.07	<0.5	<0.5	26	15	80	3	7	9	15	154
E517544		0.04	<0.5	<0.5	33	26	60	2	3	5	13	85
E517545		0.28	<0.5	<0.5	31	17	60	2	2	6	15	142
E517546		0.31	<0.5	<0.5	48	250	20	2	64	7	25	149
E517547		0.29	<0.5	<0.5	48	265	20	2	60	5	26	158
E517548		0.20	<0.5	<0.5	50	236	40	2	76	6	23	153
E517549		0.37	<0.5	<0.5	52	253	20	2	81	5	25	165
E517550		0.37	<0.5	<0.5	51	252	20	2	75	8	25	154
E517551		2.64	0.8	3.0	24	256	90	38	203	49	18	593
E517552		2.33	0.7	2.5	30	238	80	31	153	50	20	474
E517553		0.25	<0.5	<0.5	51	262	20	2	75	6	26	155
E517554		0.18	<0.5	<0.5	52	261	20	2	75	5	25	154
E517555		0.14	<0.5	<0.5	49	260	20	2	64	5	25	155
E517556		0.09	<0.5	<0.5	46	274	30	2	39	7	26	172
E517557		0.06	<0.5	<0.5	46	277	40	2	34	20	26	264
E517558		0.12	<0.5	<0.5	45	312	30	2	26	7	28	163
E517559		0.14	<0.5	<0.5	43	357	30	3	15	5	27	103
E517560		0.17	<0.5	<0.5	43	338	30	2	16	4	27	95
E517561		0.13	<0.5	<0.5	42	305	30	2	22	3	28	135
E517562		0.06	<0.5	<0.5	50	238	60	2	41	6	31	63
E517563		0.09	<0.5	<0.5	54	221	60	2	58	4	32	61
E517564		0.14	<0.5	<0.5	47	177	40	1	60	5	23	91
E517565		0.37	<0.5	<0.5	56	198	30	1	102	3	21	108
E517566		0.33	<0.5	<0.5	57	210	20	1	91	2	24	150
E517567		0.24	<0.5	<0.5	55	242	20	2	90	3	24	151
E517568		0.28	<0.5	<0.5	53	229	20	2	97	5	22	144
E517569		0.21	<0.5	<0.5	55	221	20	2	111	6	23	145
E517570		0.19	<0.5	<0.5	55	226	20	1	105	7	22	143
E517571		0.16	<0.5	<0.5	53	232	20	2	102	6	23	145
E517572		0.16	<0.5	<0.5	53	225	20	2	109	5	22	141
E517573		0.18	<0.5	<0.5	54	227	20	2	112	6	23	144
E517574		0.22	<0.5	<0.5	52	233	20	2	105	6	23	149
E517575		0.28	<0.5	<0.5	53	244	20	2	94	5	24	157
E517576		0.21	<0.5	<0.5	53	247	20	2	85	6	24	152
E517577		0.23	<0.5	<0.5	49	239	20	1	79	4	23	147
E517578		0.20	<0.5	<0.5	52	259	20	2	79	8	25	155
E517579		0.23	<0.5	<0.5	55	262	20	3	84	7	26	159
E517580		0.23	<0.5	<0.5	54	263	20	2	83	9	26	146



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Sample Description	Method Analyte Units LOD	WEI-21	PGM-MS23	PGM-MS23	PGM-MS23	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Recvd Wt. kg	Au ppm	Pt ppm	Pd ppm	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %
E517581		1.49	0.004	0.0024	0.006	55.6	14.55	12.70	3.87	3.37	2.57	2.38	0.012	1.94	0.10	0.24
E517582		0.84	0.004	0.0026	0.010	49.8	13.00	16.95	7.50	4.05	3.12	0.99	0.004	3.56	0.22	0.41
E517583		2.36	0.004	0.0028	0.010	50.3	13.20	16.95	7.35	4.14	3.11	1.00	0.005	3.60	0.19	0.41
E517584		2.73	0.004	0.0027	0.010	49.9	13.05	16.65	7.28	4.07	3.10	1.02	0.005	3.55	0.19	0.41
E517585		2.30	0.004	0.0027	0.010	49.9	13.20	16.80	7.27	4.10	3.15	1.09	0.005	3.61	0.19	0.41
E517586		2.28	0.004	0.0028	0.011	50.1	12.50	16.65	7.29	4.17	3.12	1.06	0.005	3.51	0.18	0.41
E517587		2.57	0.004	0.0028	0.010	50.3	12.50	16.60	7.56	4.15	3.05	1.04	0.005	3.51	0.18	0.42
E517588		2.29	0.004	0.0026	0.011	50.2	12.45	16.80	7.32	4.19	3.09	1.10	0.005	3.54	0.19	0.41
E517589		4.66	0.004	0.0027	0.011	50.6	12.55	16.65	7.18	4.18	3.23	1.12	0.005	3.53	0.19	0.41
E517590		2.41	0.004	0.0026	0.010	50.6	12.60	16.60	7.16	4.18	3.25	1.11	0.006	3.53	0.19	0.40
E517591		2.44	0.004	0.0027	0.010	50.2	12.60	16.55	7.13	4.23	3.23	1.11	0.006	3.48	0.19	0.40
E517592		2.42	0.004	0.0026	0.010	50.5	12.75	16.60	7.21	4.28	3.25	1.10	0.006	3.54	0.19	0.38
E517593		2.43	0.004	0.0028	0.011	49.7	13.35	17.65	7.18	4.23	3.44	1.18	0.005	3.66	0.20	0.40
E517594		2.40	0.004	0.0029	0.010	51.3	12.70	16.85	7.13	4.24	3.33	1.18	0.005	3.53	0.19	0.41
E517595		2.42	0.004	0.0027	0.011	51.3	12.70	16.75	7.15	4.23	3.31	1.22	0.005	3.54	0.19	0.41
E517596		2.48	0.004	0.0026	0.010	50.8	12.65	16.70	6.94	4.19	3.29	1.26	0.006	3.53	0.19	0.41
E517597		2.28	0.005	0.0028	0.011	50.2	12.55	16.55	6.76	4.16	3.28	1.28	0.005	3.49	0.18	0.41
E517598		2.64	0.004	0.0028	0.011	49.8	12.45	16.40	6.77	4.12	3.24	1.26	0.005	3.45	0.18	0.40
E517599		2.55	0.004	0.0028	0.010	50.7	12.55	16.65	6.86	4.21	3.27	1.20	0.005	3.48	0.19	0.41
E517600		2.45	0.004	0.0025	0.010	49.4	12.35	16.25	6.57	4.20	3.10	1.11	0.005	3.38	0.18	0.41
E517601		2.46	0.004	0.0027	0.010	49.8	12.35	16.70	6.59	4.40	3.09	1.10	0.006	3.43	0.19	0.40
E517602		2.31	0.004	0.0025	0.009	47.8	11.90	17.50	7.11	4.44	2.69	0.80	0.005	3.31	0.27	0.39
E517603		2.73	0.004	0.0027	0.010	49.6	12.40	16.40	6.80	4.17	3.01	0.91	0.005	3.45	0.20	0.39
E517604		2.39	0.006	0.0059	0.017	49.7	12.60	17.50	7.38	3.94	2.87	1.26	0.005	3.82	0.20	0.44
E517605		2.48	0.006	0.0057	0.017	48.8	12.55	17.15	7.17	3.96	2.79	1.21	0.006	3.74	0.19	0.42
E517606		2.55	0.006	0.0059	0.017	49.4	12.25	16.90	6.87	3.90	2.89	1.23	0.006	3.71	0.19	0.45
E517607		2.20	0.006	0.0057	0.017	48.8	11.65	18.05	6.23	3.78	2.70	1.13	0.005	3.51	0.17	0.44
E517608		2.67	<0.001	<0.0005	<0.001	42.8	12.70	17.30	6.09	6.25	0.28	5.96	0.002	1.51	0.63	0.14
E517609		2.29	<0.001	<0.0005	<0.001	46.6	12.40	15.05	6.04	4.56	1.16	5.12	0.002	1.43	0.47	0.16
E517610		1.86	0.001	<0.0005	<0.001	50.6	12.95	12.75	4.86	4.84	2.22	3.61	0.002	1.48	0.38	0.17
E517611		2.09	0.001	<0.0005	<0.001	51.6	12.75	14.20	3.56	5.56	2.16	4.00	0.003	1.46	0.33	0.18
E517612		2.29	<0.001	<0.0005	<0.001	52.0	12.20	13.85	4.62	5.25	2.18	3.70	0.002	1.38	0.30	0.17
E517613		2.21	0.001	<0.0005	<0.001	51.7	12.40	14.20	5.56	5.21	2.12	3.67	0.003	1.42	0.27	0.18
E517614		2.30	<0.001	<0.0005	<0.001	51.7	12.30	14.00	6.42	5.09	2.13	3.46	0.002	1.40	0.25	0.17
E517615		2.36	0.001	<0.0005	<0.001	51.8	12.35	14.10	6.15	5.12	2.20	3.30	0.003	1.40	0.24	0.17
E517616		2.15	0.001	<0.0005	<0.001	51.3	12.30	13.80	7.66	4.80	2.34	2.28	0.003	1.39	0.24	0.16
E517617		2.31	0.002	<0.0005	<0.001	50.5	12.25	14.15	7.33	5.04	2.21	2.55	0.002	1.40	0.23	0.17
E517618		2.27	0.001	<0.0005	<0.001	52.1	12.50	14.15	6.82	4.97	2.44	2.57	0.003	1.42	0.22	0.18
E517619		0.80	0.001	<0.0005	<0.001	53.2	12.65	11.85	6.25	4.12	2.67	2.89	0.002	1.43	0.19	0.18
E517620		1.36	0.001	<0.0005	<0.001	50.0	12.75	14.75	7.01	5.26	2.58	2.97	0.003	1.44	0.26	0.17



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Sample Description	Method Analyte Units LOD	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		SrO %	BaO %	LOI %	Total %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm
E517581		0.04	0.06	3.39	100.82	1.29	2.28	486	78.4	80	5.18	6.07	3.56	1.86	22.5	7.27
E517582		0.05	0.03	0.66	100.34	0.09	0.05	282	77.8	30	2.43	7.37	3.90	2.74	24.2	8.49
E517583		0.06	0.03	0.96	101.31	0.09	0.05	307	78.7	40	2.84	7.45	3.79	2.85	25.5	8.60
E517584		0.06	0.04	1.39	100.72	0.15	0.04	326	77.1	30	2.52	7.31	3.68	2.83	24.5	8.67
E517585		0.06	0.04	0.66	100.49	0.08	0.03	321	76.2	30	3.10	7.04	3.83	2.68	23.9	8.29
E517586		0.05	0.03	0.79	99.87	0.09	0.03	249	74.6	40	3.80	7.97	3.96	2.89	25.6	9.35
E517587		0.06	0.03	1.08	100.49	0.19	0.03	240	74.7	40	3.98	7.64	3.97	2.92	25.9	9.85
E517588		0.05	0.03	0.59	99.97	0.09	0.03	253	74.3	40	3.89	7.78	3.83	2.79	26.5	9.59
E517589		0.06	0.04	0.69	100.44	0.07	0.03	269	73.8	40	3.74	7.49	3.95	2.92	26.1	9.59
E517590		0.06	0.04	0.58	100.31	0.05	0.03	265	73.3	40	3.95	7.39	4.04	2.87	25.5	9.45
E517591		0.05	0.03	0.53	99.74	0.05	0.03	259	71.3	40	3.85	7.35	3.87	2.82	25.4	9.40
E517592		0.06	0.03	0.66	100.56	0.06	0.03	257	71.1	40	3.72	7.31	3.93	2.98	25.8	9.03
E517593		0.06	0.04	0.65	101.75	0.07	0.03	283	72.5	40	3.70	7.77	3.95	2.89	25.9	9.65
E517594		0.05	0.04	0.44	101.40	0.04	0.03	268	73.6	40	3.64	7.62	3.99	2.82	26.2	9.43
E517595		0.06	0.04	0.38	101.29	0.04	0.02	275	74.6	40	3.45	7.72	4.17	2.85	26.4	9.49
E517596		0.06	0.04	0.42	100.49	0.05	0.03	275	73.5	40	3.60	7.92	4.07	2.81	26.0	9.93
E517597		0.06	0.04	0.52	99.49	0.05	0.03	286	73.6	40	3.15	7.68	3.97	2.84	26.0	9.45
E517598		0.05	0.04	0.53	98.70	0.04	0.03	281	73.9	40	3.20	7.49	3.94	2.89	25.8	9.45
E517599		0.05	0.04	0.62	100.24	0.06	0.03	265	74.3	40	3.44	7.79	3.97	2.72	26.1	9.70
E517600		0.05	0.04	1.15	98.20	0.07	0.05	269	75.7	40	2.55	7.36	3.92	2.88	25.8	9.11
E517601		0.05	0.03	1.00	99.14	0.07	0.04	250	72.4	40	2.81	7.35	3.81	2.89	25.2	9.16
E517602		0.05	0.02	3.10	99.39	0.48	0.03	182.0	72.2	30	2.90	7.25	3.70	2.86	25.1	9.28
E517603		0.05	0.03	1.73	99.15	0.25	0.05	221	75.2	30	8.11	7.61	4.02	2.81	26.2	9.25
E517604		0.05	0.04	0.91	100.72	0.20	0.05	259	71.9	50	4.64	7.89	4.10	2.67	25.6	10.15
E517605		0.05	0.04	1.42	99.50	0.28	0.04	264	73.6	30	4.19	8.15	4.50	2.77	25.3	9.71
E517606		0.04	0.04	1.33	99.21	0.30	0.04	275	74.8	40	4.76	8.42	4.33	2.91	27.1	10.50
E517607		0.04	0.03	1.90	98.44	0.32	0.05	261	75.8	40	6.88	8.41	4.41	2.96	26.0	10.30
E517608		0.02	0.30	7.93	101.91	0.91	0.02	2280	39.1	20	2.29	4.93	3.03	1.44	23.0	4.98
E517609		0.02	0.16	6.44	99.61	0.87	0.10	1280	43.1	20	3.08	5.70	3.24	1.52	20.3	5.67
E517610		0.04	0.05	5.55	99.50	0.56	0.02	362	45.5	20	2.35	5.51	3.44	1.47	20.8	5.88
E517611		0.03	0.04	3.80	99.67	0.10	0.02	339	44.9	20	2.42	6.13	3.40	1.56	21.1	5.72
E517612		0.04	0.04	3.50	99.23	0.19	0.07	319	40.9	20	2.32	5.28	3.13	1.38	20.1	5.08
E517613		0.04	0.05	2.86	99.68	0.16	0.06	354	42.1	20	2.19	5.17	3.27	1.46	20.1	5.58
E517614		0.04	0.04	3.12	100.12	0.28	0.07	340	42.2	20	1.85	5.37	3.15	1.44	20.5	5.29
E517615		0.04	0.04	2.53	99.44	0.19	0.06	338	41.8	20	1.95	5.55	3.06	1.45	21.1	5.57
E517616		0.04	0.03	1.87	98.21	0.18	0.10	269	42.8	20	1.97	5.04	3.26	1.54	19.4	5.47
E517617		0.05	0.04	2.08	98.00	0.20	0.06	298	41.4	20	1.92	5.20	3.10	1.33	20.1	5.14
E517618		0.06	0.04	1.74	99.21	0.07	0.05	320	41.7	20	1.78	5.36	3.22	1.58	20.2	5.23
E517619		0.04	0.06	3.27	98.80	0.37	0.07	473	45.5	20	1.96	5.77	3.52	1.66	19.1	5.74
E517620		0.03	0.04	4.66	101.92	0.52	0.05	342	47.8	20	3.43	5.54	3.34	1.58	19.8	5.53



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Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Ge	Hf	Ho	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		5	0.1	0.01	0.1	0.01	0.1	0.02	0.2	0.03	1	0.1	0.1	0.01	0.05	
E517581		<5	6.1	1.29	35.7	0.53	18.7	36.8	9.76	89.7	8.33	1	362	1.3	1.08	7.69
E517582		<5	6.8	1.41	35.2	0.49	25.9	40.8	10.00	34.0	9.65	2	466	1.7	1.32	4.14
E517583		<5	7.4	1.48	33.3	0.48	26.8	40.9	9.99	35.3	9.57	2	503	1.8	1.38	4.24
E517584		<5	6.8	1.45	32.7	0.47	26.3	40.1	9.90	33.6	9.73	2	497	1.7	1.34	4.13
E517585		<5	6.8	1.43	32.0	0.47	25.5	39.3	9.77	37.5	9.87	2	498	1.7	1.28	4.07
E517586		<5	6.7	1.45	32.2	0.47	25.6	43.4	9.99	36.6	9.40	2	477	1.7	1.35	4.32
E517587		<5	6.5	1.45	32.2	0.47	25.4	44.1	10.00	37.1	9.81	2	503	1.6	1.28	4.19
E517588		<5	6.3	1.42	32.4	0.47	25.7	43.0	9.94	38.0	9.91	2	483	1.6	1.31	4.22
E517589		<5	6.7	1.45	32.2	0.41	25.3	42.8	9.77	36.9	9.58	2	496	1.6	1.31	4.08
E517590		<5	6.8	1.38	32.5	0.46	25.8	42.9	9.85	37.3	9.57	2	502	1.6	1.24	4.20
E517591		<5	6.3	1.34	31.3	0.43	24.0	40.3	9.67	36.8	9.06	2	494	1.6	1.22	4.02
E517592		<5	6.4	1.39	31.3	0.42	25.0	41.1	9.62	36.0	9.46	2	498	1.6	1.22	3.99
E517593		<5	7.2	1.44	32.0	0.49	25.1	42.0	9.84	38.5	9.49	2	506	1.6	1.26	4.07
E517594		<5	7.1	1.49	32.6	0.46	25.3	43.1	9.64	38.0	10.00	3	479	1.6	1.31	4.29
E517595		<5	6.7	1.58	33.0	0.44	25.5	43.0	10.05	38.9	9.80	2	490	1.7	1.40	4.24
E517596		<5	6.2	1.46	32.4	0.46	25.3	42.5	9.74	41.1	9.42	2	490	1.6	1.34	4.21
E517597		<5	6.7	1.44	32.2	0.46	24.8	43.5	9.87	42.0	9.54	2	476	1.6	1.34	4.24
E517598		<5	6.4	1.50	34.4	0.47	24.7	42.7	10.05	42.3	9.15	2	465	1.6	1.32	4.25
E517599		<5	6.5	1.43	32.9	0.47	25.4	41.3	10.00	39.7	9.72	2	465	1.5	1.37	4.09
E517600		<5	6.6	1.45	33.6	0.42	25.7	43.0	9.99	38.9	9.84	2	440	1.7	1.31	4.16
E517601		<5	6.3	1.36	31.8	0.49	24.8	42.3	9.67	37.3	8.95	2	445	1.6	1.26	4.06
E517602		<5	6.4	1.36	32.1	0.44	24.3	41.4	9.69	28.0	9.18	2	417	1.5	1.24	3.97
E517603		<5	6.7	1.48	35.6	0.45	25.2	43.9	10.05	41.4	9.97	2	463	1.6	1.31	4.17
E517604		<5	6.8	1.52	31.4	0.49	24.6	42.1	9.72	37.9	9.97	2	337	1.5	1.32	4.19
E517605		<5	6.7	1.62	32.0	0.51	24.7	42.5	9.83	37.6	9.83	3	324	1.6	1.36	4.35
E517606		<5	7.1	1.58	33.2	0.50	26.0	43.1	9.99	39.4	10.05	2	347	1.7	1.39	4.53
E517607		<5	7.2	1.61	33.1	0.56	25.4	43.4	10.20	41.9	9.85	2	347	1.6	1.41	4.53
E517608		6	3.2	0.99	17.4	0.44	15.8	20.1	4.78	141.5	4.87	1	117.0	0.9	0.80	4.72
E517609		6	3.3	1.14	21.6	0.44	16.1	21.3	5.30	171.0	5.16	1	191.5	0.9	0.80	4.89
E517610		5	3.6	1.15	23.1	0.45	16.2	23.0	5.52	145.5	4.92	2	295	0.9	0.88	5.07
E517611		<5	3.6	1.10	24.3	0.45	16.5	23.8	5.55	163.0	5.06	1	278	0.9	0.90	5.10
E517612		<5	3.0	1.00	20.5	0.41	15.1	20.6	5.15	150.0	4.54	1	296	0.9	0.82	4.49
E517613		<5	3.4	1.14	21.3	0.46	15.8	21.0	5.29	155.5	5.11	1	301	0.9	0.86	4.88
E517614		<5	3.5	1.03	21.9	0.41	15.4	21.3	5.26	147.0	4.71	1	319	0.9	0.82	4.65
E517615		<5	3.4	1.14	21.1	0.42	15.6	21.3	5.15	148.0	5.09	1	351	0.9	0.80	4.81
E517616		<5	3.4	1.05	22.2	0.47	15.5	21.3	5.26	109.0	4.85	1	348	0.9	0.84	4.69
E517617		<5	3.4	1.01	22.0	0.46	15.0	21.0	5.10	119.5	4.70	1	359	0.8	0.82	4.61
E517618		<5	3.2	1.08	20.6	0.43	15.5	22.1	5.22	120.0	4.73	1	417	0.9	0.81	4.89
E517619		<5	3.6	1.17	22.7	0.45	15.9	23.0	5.62	117.0	5.34	1	305	0.9	0.87	4.94
E517620		<5	3.6	1.14	22.5	0.48	15.7	22.2	5.67	129.0	5.44	1	252	1.0	0.93	4.56



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		Tm	U	V	W	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.05	5	1	0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01
E517581		0.51	6.61	336	2	33.2	3.50	231	15.0	0.29	0.084	0.069	0.017	2.73	0.9	0.04
E517582		0.53	1.20	516	1	36.8	3.19	271	2.0	0.04	0.032	0.031	0.001	0.11	0.3	<0.01
E517583		0.57	1.18	466	1	37.1	3.30	282	1.4	0.05	0.032	0.026	0.001	0.08	0.2	0.01
E517584		0.52	1.17	449	1	36.0	3.14	271	2.1	0.05	0.032	0.031	0.001	0.12	0.2	<0.01
E517585		0.51	1.14	450	1	35.5	3.23	270	1.7	0.05	0.016	0.029	0.001	0.10	0.3	<0.01
E517586		0.53	1.19	394	3	36.8	3.51	263	3.1	0.04	0.015	0.030	0.001	0.09	<0.2	<0.01
E517587		0.52	1.26	410	2	36.7	3.35	264	8.9	0.05	0.011	0.030	<0.001	0.11	0.2	<0.01
E517588		0.48	1.22	402	1	36.4	3.47	266	1.5	0.04	0.011	0.024	<0.001	0.09	0.2	<0.01
E517589		0.52	1.18	397	1	35.2	3.33	260	1.6	0.05	0.016	0.024	0.001	0.08	0.2	<0.01
E517590		0.52	1.24	405	1	36.1	3.26	261	1.7	0.04	0.009	0.024	<0.001	0.08	0.3	<0.01
E517591		0.46	1.38	398	1	34.8	3.26	254	1.4	0.04	0.005	0.023	<0.001	0.07	0.2	<0.01
E517592		0.53	1.17	419	1	35.0	3.25	257	1.5	0.04	0.013	0.025	0.001	0.07	<0.2	<0.01
E517593		0.50	1.24	401	1	36.0	3.47	290	1.5	0.05	0.018	0.026	<0.001	0.08	<0.2	0.01
E517594		0.49	1.30	399	1	36.3	3.29	266	1.5	0.04	0.012	0.027	<0.001	0.09	<0.2	<0.01
E517595		0.52	1.20	403	1	36.7	3.37	270	1.4	0.04	0.015	0.026	0.001	0.08	0.2	<0.01
E517596		0.49	1.16	399	1	36.3	3.30	264	1.4	0.04	0.017	0.026	<0.001	0.08	<0.2	<0.01
E517597		0.51	1.23	397	1	36.3	3.07	263	1.3	0.04	0.031	0.025	<0.001	0.08	<0.2	<0.01
E517598		0.54	1.23	437	1	36.5	3.32	263	1.4	0.05	0.035	0.029	<0.001	0.08	0.2	<0.01
E517599		0.51	1.34	394	1	36.1	3.42	264	1.6	0.05	0.036	0.027	0.001	0.07	<0.2	<0.01
E517600		0.51	1.18	405	1	35.8	3.24	256	2.8	0.05	0.047	0.029	0.001	0.08	0.3	<0.01
E517601		0.47	1.20	393	1	35.0	3.30	255	2.0	0.05	0.030	0.026	0.001	0.07	<0.2	<0.01
E517602		0.52	1.16	406	1	36.0	3.34	254	29.5	0.04	0.031	0.036	<0.001	0.10	0.2	0.01
E517603		0.51	1.28	442	1	36.9	3.23	262	14.1	0.05	0.049	0.053	0.001	0.07	0.2	<0.01
E517604		0.55	1.22	384	1	38.7	3.45	270	1.3	0.05	0.031	0.045	0.001	0.07	<0.2	<0.01
E517605		0.61	1.22	361	1	39.8	3.63	277	1.3	0.05	0.038	0.045	0.001	0.06	<0.2	<0.01
E517606		0.55	1.22	387	1	40.3	3.86	285	3.6	0.05	0.039	0.049	0.001	0.06	0.2	<0.01
E517607		0.61	1.31	371	1	40.4	3.99	283	6.1	0.04	0.058	0.051	<0.001	0.06	<0.2	<0.01
E517608		0.40	0.74	298	1	26.2	3.03	128	10.9	0.02	0.110	0.075	0.001	<0.05	<0.2	0.01
E517609		0.46	0.83	347	1	28.5	3.11	132	11.7	0.02	0.114	0.074	0.001	<0.05	0.3	<0.01
E517610		0.44	0.98	366	1	28.8	3.10	135	39.7	0.02	0.021	0.086	0.001	<0.05	0.2	<0.01
E517611		0.46	1.00	386	2	29.2	2.85	136	43.3	0.02	0.008	0.052	0.001	<0.05	0.2	<0.01
E517612		0.48	0.93	330	1	27.1	2.88	128	47.6	0.02	0.009	0.040	0.001	<0.05	0.4	0.01
E517613		0.45	0.99	343	1	27.8	3.18	132	32.4	0.02	0.011	0.033	0.001	<0.05	0.2	0.01
E517614		0.44	1.02	353	1	27.9	3.11	130	25.6	0.02	0.012	0.026	0.001	<0.05	0.2	<0.01
E517615		0.48	0.92	349	1	27.9	3.10	131	27.3	0.02	0.017	0.026	0.001	<0.05	0.3	<0.01
E517616		0.46	0.99	348	1	27.5	2.79	128	23.3	0.02	0.050	0.019	0.001	<0.05	0.3	<0.01
E517617		0.41	0.89	353	1	27.3	2.86	126	18.6	0.02	0.015	0.016	0.001	<0.05	0.2	<0.01
E517618		0.45	0.95	337	1	27.5	3.02	129	14.3	0.02	0.014	0.019	0.001	<0.05	0.2	<0.01
E517619		0.48	1.06	364	1	30.6	2.98	134	22.8	0.02	0.036	0.039	0.001	<0.05	0.4	0.01
E517620		0.45	0.98	386	1	30.1	3.03	130	8.5	0.02	0.015	0.033	0.001	<0.05	0.3	<0.01



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		Tl	Ag	Cd	Co	Cu	Li	Mo	Ni	Pb	Sc	Zn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.5	0.5	1	1	10	1	1	2	1	2
E517581		1.21	<0.5	1.0	36	225	50	16	111	29	22	245
E517582		0.16	<0.5	<0.5	50	256	20	2	72	6	25	152
E517583		0.12	<0.5	<0.5	51	257	20	2	74	6	25	154
E517584		0.10	<0.5	<0.5	50	261	30	2	70	4	25	148
E517585		0.13	<0.5	<0.5	52	262	20	2	75	5	26	153
E517586		0.14	<0.5	<0.5	50	258	20	2	76	6	25	152
E517587		0.17	<0.5	<0.5	50	244	20	2	74	9	25	144
E517588		0.17	<0.5	<0.5	52	257	20	3	74	4	25	151
E517589		0.16	<0.5	<0.5	52	258	30	2	77	7	25	152
E517590		0.16	<0.5	<0.5	55	272	30	2	79	8	26	159
E517591		0.15	<0.5	<0.5	57	272	20	2	84	9	27	160
E517592		0.14	<0.5	<0.5	54	260	20	2	82	7	26	155
E517593		0.17	<0.5	<0.5	54	281	30	2	82	6	27	163
E517594		0.15	<0.5	<0.5	55	280	20	2	82	8	27	164
E517595		0.15	<0.5	<0.5	53	273	20	2	78	9	26	159
E517596		0.14	<0.5	<0.5	54	277	30	2	78	6	27	160
E517597		0.13	<0.5	<0.5	53	270	30	2	78	5	26	161
E517598		0.15	<0.5	<0.5	53	274	30	2	78	6	26	157
E517599		0.15	<0.5	<0.5	53	273	30	2	79	7	26	156
E517600		0.15	<0.5	<0.5	54	266	30	2	79	6	26	158
E517601		0.14	<0.5	<0.5	58	271	30	2	91	9	26	164
E517602		0.13	<0.5	<0.5	51	217	40	2	76	6	26	113
E517603		0.27	<0.5	<0.5	55	279	20	2	80	6	27	157
E517604		0.13	<0.5	<0.5	51	355	20	2	65	6	28	167
E517605		0.12	<0.5	<0.5	53	343	20	2	75	7	27	166
E517606		0.13	<0.5	<0.5	50	329	20	3	67	7	26	158
E517607		0.15	<0.5	<0.5	48	333	30	2	66	6	26	157
E517608		0.03	<0.5	<0.5	63	116	110	<1	30	4	38	144
E517609		0.06	<0.5	<0.5	76	114	100	1	35	15	40	121
E517610		0.06	<0.5	<0.5	50	126	90	2	40	10	41	123
E517611		0.04	<0.5	<0.5	49	121	80	1	36	8	40	125
E517612		0.04	<0.5	<0.5	49	124	80	1	36	10	39	120
E517613		0.05	<0.5	<0.5	50	122	70	1	37	4	39	118
E517614		0.05	<0.5	<0.5	48	121	70	1	39	7	39	118
E517615		0.05	<0.5	<0.5	49	122	70	1	36	9	37	120
E517616		0.07	<0.5	0.8	47	126	50	1	36	9	39	119
E517617		0.04	<0.5	<0.5	47	120	50	1	37	7	38	119
E517618		0.04	<0.5	<0.5	48	122	50	1	36	7	39	118
E517619		0.07	<0.5	0.5	54	127	50	1	41	7	40	118
E517620		0.04	<0.5	<0.5	47	127	60	1	32	9	38	114



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	PGM-MS23 Au ppm	PGM-MS23 Pt ppm	PGM-MS23 Pd ppm	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %
E517621		2.29	<0.001	<0.0005	<0.001	49.2	12.95	14.55	7.29	5.35	2.42	3.59	0.003	1.45	0.24	0.17
E517622		2.25	<0.001	<0.0005	<0.001	50.0	12.60	14.50	7.05	5.28	2.34	3.19	0.003	1.48	0.26	0.16
E517623		2.23	<0.001	<0.0005	<0.001	49.6	12.95	14.30	6.91	5.34	2.72	2.48	0.003	1.48	0.24	0.17
E517624		1.97	<0.001	<0.0005	<0.001	47.4	11.65	13.45	8.07	4.83	3.14	1.94	0.003	1.36	0.30	0.17
E517625		2.25	<0.001	<0.0005	<0.001	50.8	12.25	13.70	6.07	5.32	3.57	1.76	0.003	1.42	0.24	0.17
E517626		1.98	0.001	<0.0005	<0.001	60.7	6.85	10.20	7.66	3.92	1.35	0.86	0.003	0.81	0.27	0.07
E517627		1.78	<0.001	<0.0005	<0.001	48.2	9.40	12.15	9.89	5.28	2.12	1.18	0.002	1.09	0.35	0.14
E517628		1.96	<0.001	<0.0005	<0.001	46.3	13.45	15.00	5.15	7.14	3.20	1.29	0.002	1.58	0.27	0.19
E517629		1.61	<0.001	<0.0005	<0.001	41.2	12.95	21.2	3.77	9.26	1.98	0.86	0.003	1.53	0.32	0.17
E517630		1.65	0.004	0.0046	0.014	50.6	13.95	15.45	9.43	5.87	2.29	0.37	0.012	1.72	0.19	0.17
E517631		2.33	<0.001	<0.0005	<0.001	53.9	0.25	38.2	4.35	1.30	0.07	0.03	0.005	0.01	0.24	0.07
E517632		2.42	<0.001	<0.0005	<0.001	44.4	5.46	43.4	0.95	2.56	0.18	0.88	0.005	0.37	0.28	0.09
E517633		2.44	<0.001	<0.0005	<0.001	45.3	0.90	38.5	4.79	2.17	0.09	0.04	0.004	0.09	0.81	0.07
E517634		1.80	<0.001	<0.0005	<0.001	33.6	0.09	50.2	7.70	1.30	0.14	<0.01	<0.002	<0.01	0.35	0.01
E517635		2.34	<0.001	<0.0005	<0.001	34.5	0.25	42.2	1.41	2.89	0.14	0.01	0.002	0.03	1.05	0.05



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Sample Description	Method Analyte Units LOD	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		SrO	BaO	LOI	Total	C	S	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd
		%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.02	0.1	0.05
E517621		0.04	0.06	3.38	100.69	0.35	0.04	572	43.9	20	2.37	5.24	3.16	1.45	20.7	4.96
E517622		0.03	0.05	3.42	100.36	0.37	0.05	430	44.7	20	2.74	5.24	3.12	1.55	20.3	5.12
E517623		0.03	0.04	3.65	99.91	0.33	0.05	389	45.2	20	2.36	5.36	3.12	1.50	20.5	4.99
E517624		0.02	0.02	7.78	100.13	1.17	0.04	225	43.7	20	2.54	5.19	3.10	1.38	19.8	4.80
E517625		0.03	0.03	4.98	100.34	0.48	0.05	233	42.6	20	2.25	5.22	3.21	1.44	18.2	5.00
E517626		0.02	0.01	8.06	100.78	1.14	0.09	94.9	25.8	20	2.61	2.82	1.74	1.26	16.4	2.75
E517627		0.02	0.01	10.40	100.23	1.68	0.07	109.5	40.5	10	1.40	4.90	2.97	1.32	19.6	4.67
E517628		0.03	0.02	7.13	100.75	0.43	0.03	189.0	45.2	20	2.62	5.46	3.54	1.57	20.5	5.24
E517629		0.02	0.02	8.14	101.42	0.15	0.05	146.5	42.5	20	4.75	5.06	3.11	1.40	20.8	4.87
E517630		0.03	0.02	1.67	101.77	0.15	0.04	143.5	30.0	90	9.07	5.13	2.79	1.44	22.9	5.16
E517631		0.01	<0.01	2.76	101.20	0.94	<0.01	16.8	6.7	30	1.00	0.42	0.28	0.11	1.6	0.41
E517632		0.01	0.01	3.29	101.89	0.18	<0.01	83.9	33.0	30	4.87	1.54	0.90	0.41	8.6	1.68
E517633		0.01	<0.01	7.33	100.10	1.81	0.01	11.5	11.7	20	1.98	0.83	0.50	0.25	2.4	0.91
E517634		0.01	<0.01	8.57	101.97	1.69	<0.01	14.4	28.1	10	0.94	1.96	1.28	0.45	2.0	1.92
E517635		0.01	<0.01	18.00	100.54	5.10	0.47	9.8	4.8	10	1.78	0.49	0.36	0.15	1.3	0.50



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Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Ge	Hf	Ho	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		5	0.1	0.01	0.1	0.01	0.1	0.02	0.2	0.03	1	0.1	0.1	0.01	0.05	
E517621		<5	3.5	1.05	21.0	0.42	16.0	20.3	5.25	162.5	5.04	1	425	0.9	0.88	4.67
E517622		<5	3.6	1.05	21.3	0.47	16.8	20.7	5.33	141.0	5.15	1	334	1.0	0.88	4.77
E517623		<5	3.7	1.04	21.4	0.43	16.5	21.0	5.40	110.0	5.27	1	326	0.9	0.86	4.75
E517624		<5	3.2	1.09	22.4	0.41	15.4	19.7	5.11	86.6	4.66	1	216	0.9	0.82	4.52
E517625		<5	3.4	1.03	19.9	0.45	15.8	20.2	5.24	78.2	4.74	1	237	0.9	0.82	4.66
E517626		<5	1.9	0.57	13.4	0.23	8.9	11.5	2.96	43.5	2.83	1	176.0	0.5	0.47	2.46
E517627		<5	2.6	1.01	20.7	0.37	11.7	18.1	4.65	52.7	4.56	1	215	0.7	0.82	3.36
E517628		<5	3.7	1.10	22.1	0.48	17.0	21.2	5.42	55.9	5.02	1	262	1.0	0.91	5.06
E517629		<5	3.6	1.03	20.1	0.41	16.8	19.8	5.00	40.7	4.66	1	208	0.9	0.81	4.79
E517630		<5	3.4	0.98	12.8	0.37	6.9	17.3	4.00	18.4	4.81	1	256	0.4	0.84	1.98
E517631		8	0.1	0.10	2.2	0.04	1.6	2.0	0.49	3.2	0.40	<1	92.5	<0.1	0.07	0.19
E517632		<5	1.4	0.28	11.4	0.14	7.9	9.1	2.47	38.0	1.84	1	65.6	0.3	0.26	4.04
E517633		9	0.4	0.17	5.3	0.06	2.2	4.3	1.19	4.2	0.94	<1	73.2	0.1	0.13	0.47
E517634		9	0.1	0.42	12.3	0.16	2.2	8.9	2.32	1.1	1.80	<1	99.3	<0.1	0.33	0.09
E517635		7	0.1	0.12	2.2	0.03	1.0	2.2	0.52	2.5	0.39	<1	74.8	<0.1	0.09	0.18



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Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	
		Tm	U	V	W	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.05	5	1	0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01
E517621		0.43	0.98	405	1	27.9	2.80	133	13.6	0.02	0.007	0.022	0.001	<0.05	0.2	<0.01
E517622		0.46	1.00	418	1	28.6	3.12	138	11.1	0.02	0.013	0.027	0.001	<0.05	0.3	<0.01
E517623		0.45	0.96	420	1	28.5	2.80	138	6.8	0.02	0.009	0.029	0.001	<0.05	0.2	0.01
E517624		0.43	0.97	396	1	28.4	2.87	127	10.9	0.02	0.014	0.047	0.001	<0.05	0.3	<0.01
E517625		0.44	0.97	405	1	28.0	2.98	131	5.9	0.02	0.008	0.040	0.001	<0.05	<0.2	0.01
E517626		0.23	0.50	217	<1	15.2	1.42	73	8.1	0.01	0.014	0.038	<0.001	<0.05	0.4	<0.01
E517627		0.42	0.87	271	3	27.0	2.59	97	11.2	0.01	0.022	0.043	0.001	<0.05	0.5	<0.01
E517628		0.49	1.16	431	1	29.9	3.32	141	5.3	0.01	0.047	0.070	0.001	<0.05	0.3	0.01
E517629		0.44	1.06	403	1	27.1	2.89	135	7.8	0.02	0.102	0.076	0.001	<0.05	0.2	0.01
E517630		0.38	0.52	415	<1	26.3	2.47	125	0.5	0.03	0.048	0.036	0.001	<0.05	0.2	0.01
E517631		0.04	0.07	13	2	3.2	0.22	6	26.6	0.01	0.006	<0.005	<0.001	<0.05	<0.2	0.01
E517632		0.13	0.64	72	5	7.5	0.89	63	11.4	0.08	0.037	0.027	<0.001	0.12	<0.2	0.02
E517633		0.07	0.10	26	1	4.9	0.40	15	7.7	0.01	0.035	0.008	<0.001	<0.05	0.3	0.03
E517634		0.18	0.11	25	3	10.6	1.18	10	7.0	0.04	0.205	0.008	<0.001	0.06	0.2	0.10
E517635		0.05	0.25	17	1	3.9	0.32	6	15.1	0.03	0.163	0.009	0.001	0.06	0.4	0.05

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



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	Method Analyte Units LOD	ME-MS42 Tl ppm 0.02	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5	ME-4ACD81 Co ppm 1	ME-4ACD81 Cu ppm 1	ME-4ACD81 Li ppm 10	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1	ME-4ACD81 Pb ppm 2	ME-4ACD81 Sc ppm 1	ME-4ACD81 Zn ppm 2
E517621		0.04	<0.5	<0.5	49	124	60	1	36	<2	39	120
E517622		0.04	<0.5	<0.5	48	125	60	1	36	7	39	118
E517623		0.04	<0.5	<0.5	46	133	60	1	37	7	41	116
E517624		0.04	<0.5	<0.5	46	113	60	1	35	4	36	105
E517625		0.05	<0.5	<0.5	40	121	60	2	35	5	37	103
E517626		0.03	<0.5	<0.5	31	82	50	2	21	13	21	85
E517627		0.03	<0.5	<0.5	40	92	70	1	23	16	26	102
E517628		0.06	<0.5	<0.5	48	120	110	1	37	5	40	119
E517629		0.09	<0.5	<0.5	54	110	200	1	38	5	38	117
E517630		0.10	<0.5	<0.5	55	198	20	1	102	2	32	119
E517631		<0.02	<0.5	0.6	6	4	10	5	1	8	1	8
E517632		0.02	<0.5	<0.5	32	12	40	1	16	5	9	33
E517633		<0.02	<0.5	<0.5	10	7	20	2	3	<2	2	10
E517634		<0.02	<0.5	0.5	9	12	<10	2	2	<2	1	4
E517635		0.11	<0.5	<0.5	8	7	10	1	3	5	1	5



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CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-31	CRU-QC	LOG-21
	PUL-QC	SPL-22Y	WEI-21
			PUL-31

Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	C-IR07	ME-4ACD81	ME-ICP06
	ME-MS81	OA-GRA05	PGM-MS23
	TOT-ICP06		ME-MS42
			S-IR08