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A *New* look at the Geology, Geochemistry and Geophysics of portions of Thomas, Bond and Sheraton Townships

for

2628860 Ontario Ltd.

By

December 17, 2021, J.R. Boissoneault, P. Eng.

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Overview

The following report outlines the reprocessing and modelling of all available public and private geoscience data to generate new exploration targets in relatively unexplored regions within the Abitibi Greenstone Belt. This work has identified new structural zones that have the potential to host economic deposits of gold and base metals. The models are based on extensive databases of geological, geophysical, geochemical, diamond drilling, overburden drilling

Location and Access

2628860 Ontario Ltd.'s property is located about 50 kilometers east of the center of the city of Timmins along highway 101, and about 25 km southeast of Goldcorp's Hoyle Pond mine and immediately to the south-east of Moose Lake. It lies across the boundaries between Thomas, Bond, and Sheraton townships. The location of the 2628860 Ontario Ltd. property is presented in Figure 1.

The western part of the property may be reached by turning south of Highway 101 onto the Gibson Lake Road and travelling south for about ten kilometers to a turnoff north of Gibson Lake. This road leads east for some distance but the final access to the western boundary requires Argo or ATV travel

From this road, access to most parts of the property is difficult because it is hampered by thick growths of black spruce and by cedar swamps which also limit outcrop exposure.

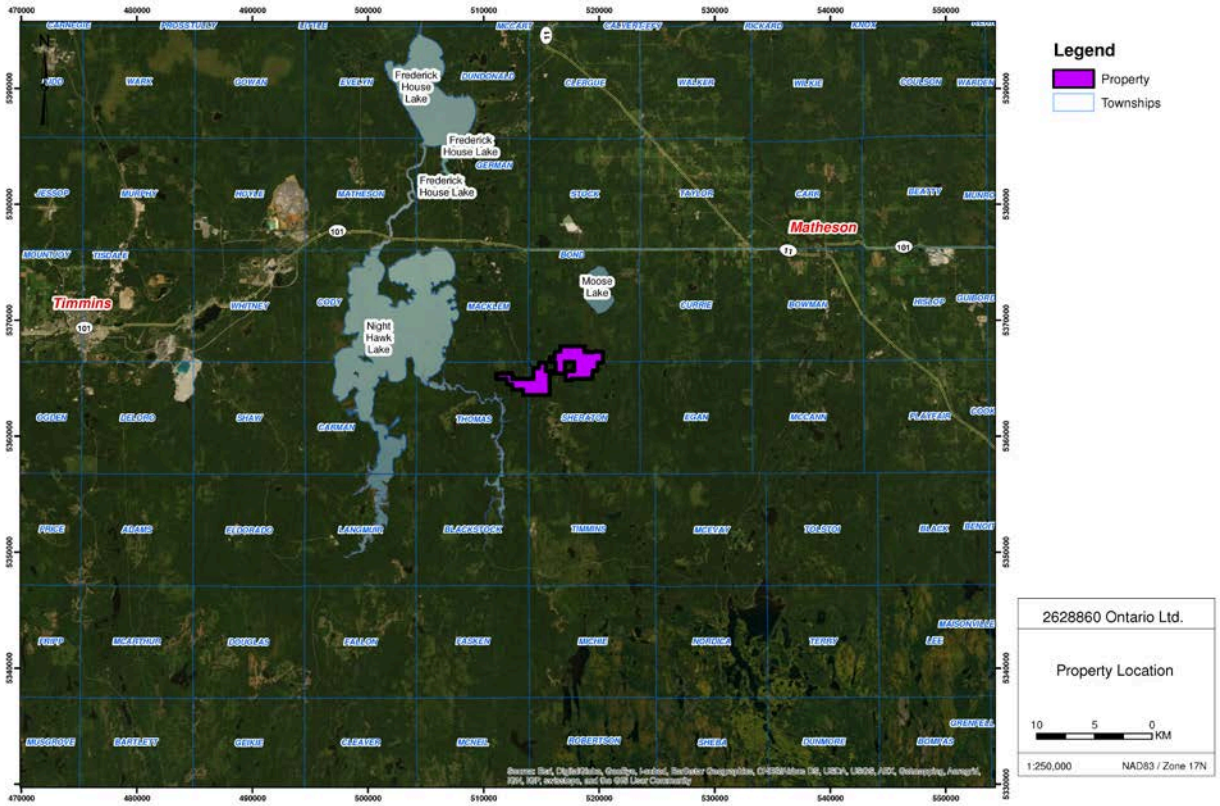


Figure 1: Location Map, 2628860 Ontario Ltd. Properties

Claim Status

The status of the individual cells is displayed in Figure 2 and Appendix 2.

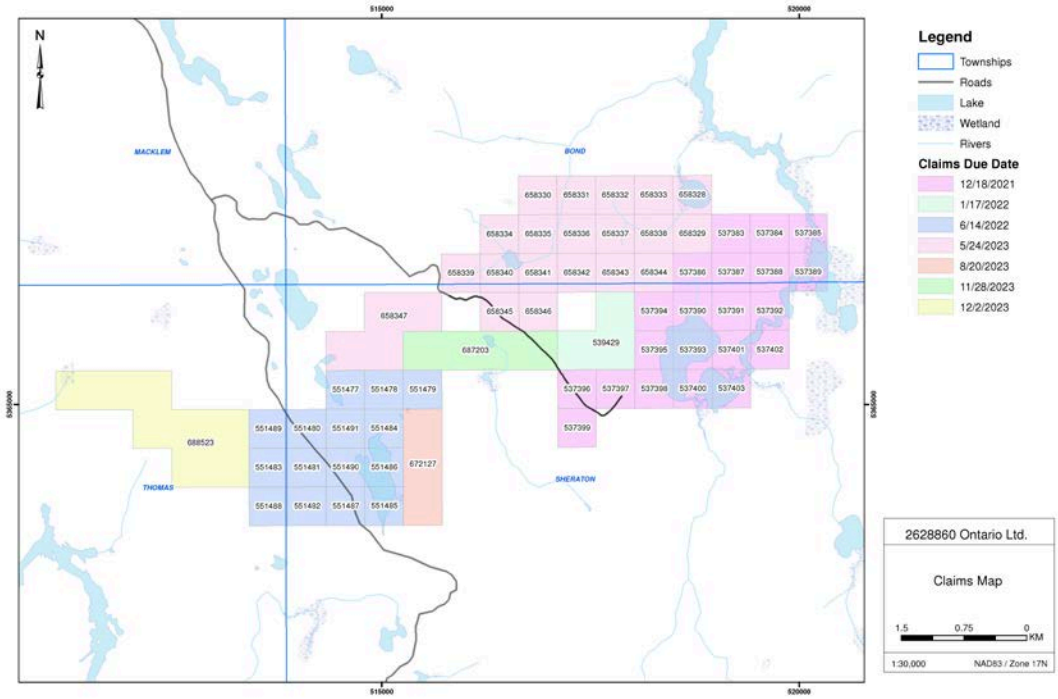


Figure 2: Claims Map

Regional Geology

The property is situated in the Abitibi Greenstone belt of which stretches in an east-west direction across northeastern Ontario and eastern Quebec. These Archean rocks are divided into stratigraphic assemblages which include metavolcanics, synvolcanic intrusions, metasediments, calc-alkaline rocks, and Proterozoic dykes. The dominant structural feature is the Porcupine-Destor fault zone which crosses the region a few kilometers to the north of the property. Regional east-west deformation zones commonly occur at assemblage boundaries and these rocks have been metamorphosed to the greenschist and upper greenschist grade.

Most of the gold deposits in the area are clustered around the major fault zone, generally in splays that extend from this structure. Over eighty million ounces have been produced from quartz-carbonate shear and extensional veins and stockworks generally in mafic volcanic rocks. Gold also occurs in disseminated or massive sulfides in altered volcanic rocks of various compositions. A map of the regional geology is presented in Figure 3.

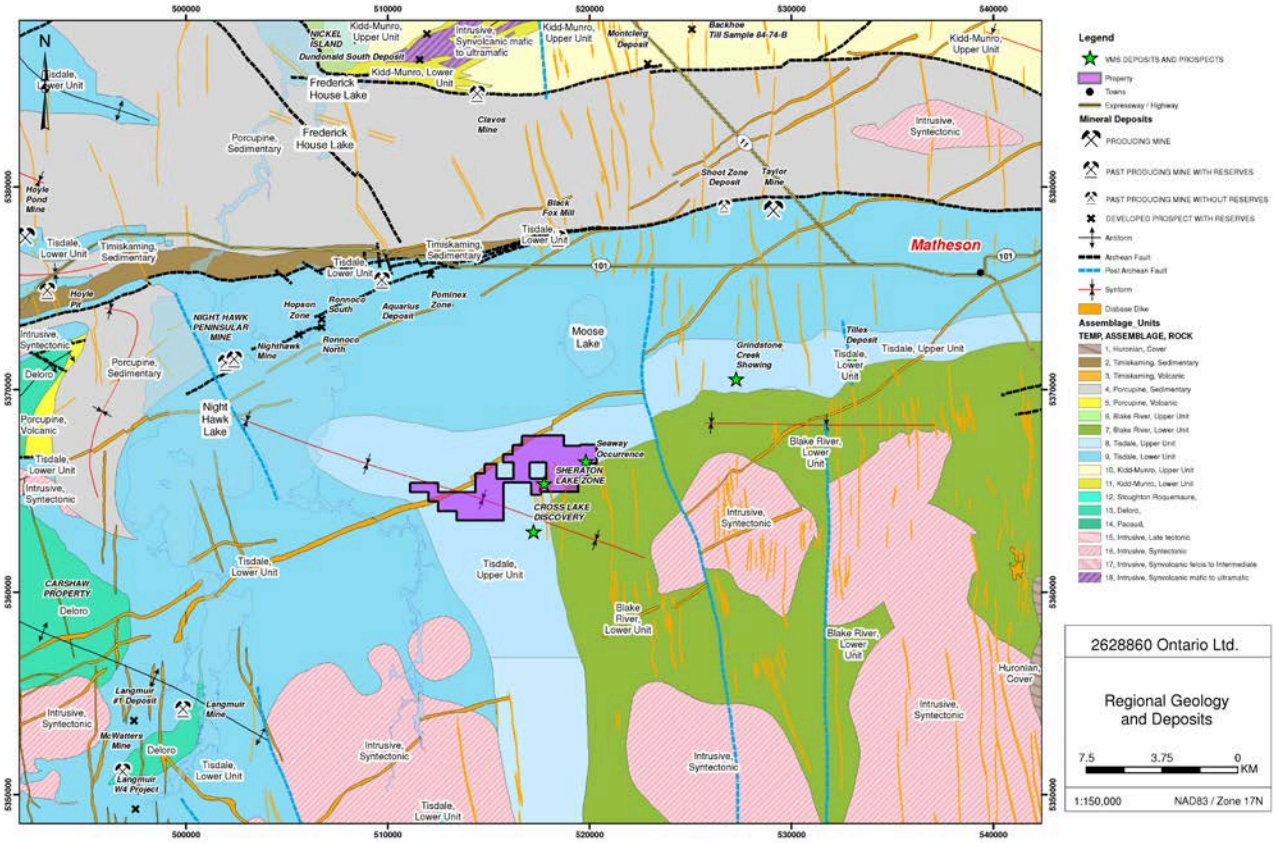


Figure 3: Regional Geology

Exploration History

1910 – The western part of the property (Macklem-Thomas Townships) was first staked due to the presence of wide quartz veins with reported sulphide mineralization.

The first reported work in the eastern part of the property (Currie Township) was by Laird (1931) who mapped the area at a scale of l" to l mile as part of a larger area. In this work, Laird noticed a large number of dark feldspar porphyry dykes in Currie Township which generally strike east-west, and which predate the younger north-south diabase dykes. Laird also described a small pocket of high-grade gold within a 2-foot-wide quartz vein in a fault zone at the northern boundary of Currie Township. Laird related this mineralization to a nearby 15-foot-wide feldspar porphyry dyke.

1938 – Porcupine McNabb Gold Mines performed exploration on what is now the north and central part of 2628860 Ontario Ltd.'s property. The program consisted of stripping, mapping, and sampling outcrops, diamond drilling, sinking 3 shallow pits or shafts and taking a bulk sample. The outcrop sampling and diamond drilling reported irregular gold values and the bulk sampling returned very low gold values.

1938 – Erie Canadian Mines Ltd. reported on a visible gold showing on what is now the central and southern portion of the current property. The report was minor amount of fine gold in quartz filled joints within a 40m wide northwest trending steeply southwest dipping quartz porphyry dyke. Historic assays up to 6.82 g/t Au were reported however the highest assay from six samples collected by Erie personnel was 0.62 g/t Au.

In 1966, Selco optioned the property from Unigold Resources. Five diamond drill holes were put down and intersected what appears to be an interface between volcanic flow units. The volcanics are described as being felsic to intermediate in composition and interbedded with greywacke and graphitic slate units. Feldspar porphyry and diabase dikes cut the metavolcanics and metasediments. Silicification carbonatization sulfurization are commonly mentioned. Sulphides are pyrite, chalcopyrite, sphalerite, marcasite, and galena. Drill hole 10 returned 0.1% Zn and 0.7% Pb over 5.5 feet. No gold values were reported. These drill holes were shallow and no depths below about 300 feet vertically were ascertained. The exact collar locations are unknown.

In 1969, Consolidated Manitoba Mines drilled two short diamond drill holes totalling 254m to test a magnetic high anomaly. The holes intersected mafic and ultramafic volcanics with some sericite alteration and minor quartz veining. Quartz feldspar intrusive and diabase dykes. Results from the drilling are unknown.

In 1971 Cominco Limited flew an airborne magnetic survey over the area. Subsequent electromagnetic work revealed a conductor, and one diamond drill hole was drilled in it. The drill log reveals that a pyrite horizon was the conductor and formed along the contact with felsic metavolcanic tuffs and argillites and greywackes. No assays were reported, and no further work was recorded.

The property was included in a 40-township airborne magnetic and electromagnetic survey conducted by the Ontario Geological Survey and published in 1984 (OGS 1984 a and b.)

In 1984 Noranda had Aerodat Limited conduct an airborne geophysical survey with their system over western Bond and part of Sheraton Townships. Numerous conductors were delineated. Noranda, in a joint venture option deal with Gowest Resources, drilled 23 RC drill holes totalling 900.38 metres to test the basal till for gold. Numerous elevated values were recorded including several in excess of 1 g/t Au.

In 1983 and 1984, Westmin Resources conducted the most extensive study east of the property. Ground magnetics and Max-Min HLEM surveys were carried out over a cut grid totalling 85.4-line kilometres. Mapping and prospecting followed but were hampered by the lack of outcrop exposure. The Aquarius gold deposit located a few kilometers to the north had been discovered by Asarco using RC drilling to test for trends of gold distribution in basal tills. Westmin employed this exploration technique and completed 41 RC holes totalling 1735m.

1981 – Dome Exploration Ltd. carried out ground magnetic and Max-Min electromagnetic surveys over much of 2628860 Ontario Ltd.'s property. The magnetic survey delineated several N – S trending diabase dykes (Matachewan). The Max-Min survey did not delineate any conductors.

In 1997, Golden Knight Resources conducted a geophysical survey covering part of the property. This survey consisted of line cutting and a Max-Min EM survey. The survey detected wide zone of conductors. Some of these anomalies were interpreted to be highly conductive and relatively deep (40 - 50 m), this

zone has a maximum width of 150 m. and a total strike length of 0.5 km. Several other weaker conductors were detected, and the possibility exists for undetected, deep conductors.

Golden Knight Resources followed up with drilling 7 diamond drill holes totalling 1,780 metres. Elevated gold values were intersected in one of the holes (B-97-4) including 8.94 g/t Au over 0.65m in a quartz carbonate vein associated with a fault structure and 17.14 g/t Au over 0.50m in a quartz carbonate tourmaline vein. Elevated copper and zinc values were intersected in another hole (B-97-7). A sheared quartz feldspar porphyry associated with a fault structure returned 0.17% Zn over 8m and 0.18% Cu over 2m.

Golden Knight Resources realized that while they were successful in intersecting gold in one drill hole, the extensive overburden made the Max-Min EM survey a less than ideal method for detecting potential drill targets. They concluded that a ground IP survey for detecting disseminated sulphide mineralization that may be favorable for gold mineralization would be better suited for the property.

2010 – SGX Resources Inc. conducted a program of line cutting, magnetic and VLF-EM and IP surveys west of the property.

2011 – SGX Resources Inc. followed up the 2010 geophysical work with a limited diamond drill program of 4 holes totaling 404 metres. One hole, NH-11-02, intersected a single spec of visible gold hosted in a quartz ankerite stringer at 70.30m depth. The sampled returned a surprisingly disappointing assay value of .17 g/t Au). Another sample taken from an ankerite-sericite altered felsic to intermediate fragmental returned 1.48 g/t Au over 1m (65.90 – 66.90m).

Current Work

Each data source underwent a rigorous vetting process to validate the data.

Data types	Data sources	Reprocessing and Modelling
Bedrock geology	OGS Publications Assessment reports	Field mapping to update geological map;
Surficial geology	OGS Publications	To identify directions of glacial transport;
Diamond drill holes	Assessment reports	Corrected collar locations; georegistered maps from reports to update collar locations; ground truth collar locations in the field; entered logs into Corelog; added lithology and assays in Corelog; identified fault zones in logs to aid structural interpretation.
Overburden drill holes	Assessment reports	Corrected collar locations; georegistered maps from reports to update collar locations; entered logs into Corelog; added assays in Corelog; generated overburden depth surface to aid interpretation of

		glacial transport; gold grain morphology assessment to aid interpretation of gold grain transport.
Geophysical surveys	OGS Publications Assessment reports	Reprocessing original source data for selected areas (IP, Mag and VLF); structural interpretation from magnetics; Identified association with EM conductors and known VMS deposits; Updated contact between Upper Tisdale and Lower Blake River Group;
Geochemical surveys	OGS Publications Assessment reports	Geochemical data sources from OGS surveys, numerous assessment reports and from recent sampling; calculated de-surveyed sample coordinates from drill holes; generated geochemical contoured maps of selected major and trace elements; element ratio plots; ternary diagrams;

Table 1 Data sources for new interpretation

Property Geology

Due to thick and extensive overburden cover, very few outcrops occur on the property. The geology described is based upon archival diamond drilling and RC drilling data as well as interpretation of geophysical data. It is the result of extensive archival research and data validation

The northern part of the property is underlain by intermediate to felsic tuffs and flows, which are mainly calc-alkalic, with some feldspar porphyries or crystal tuffs. Dioritic and gabbroic rocks have intruded these in several places, as well as quartz-feldspar porphyries. These formations belong to and are typical of the Upper Tisdale assemblage. The Tisdale assemblage hosts most of the gold deposits in the area.

The southern part of the property is underlain by mafic to intermediate tholeiitic volcanics with some komatiitic units. Minor lenses of Timiskaming greywacke and carbonaceous argillite, and chlorite schist were intersected in drill holes, as well as at least one thick section of graphite. Several feldspar or quartz-feldspar porphyry intrusives occurs on this portion of the property. These formations belong to, and are typical of, the Lower Blake River assemblage, the contact with the Upper Tisdale (2,704 Ma) crossing the property at its approximate center.

Late (Proterozoic) north to northwest trending diabase dikes cut through most of the lithological units.

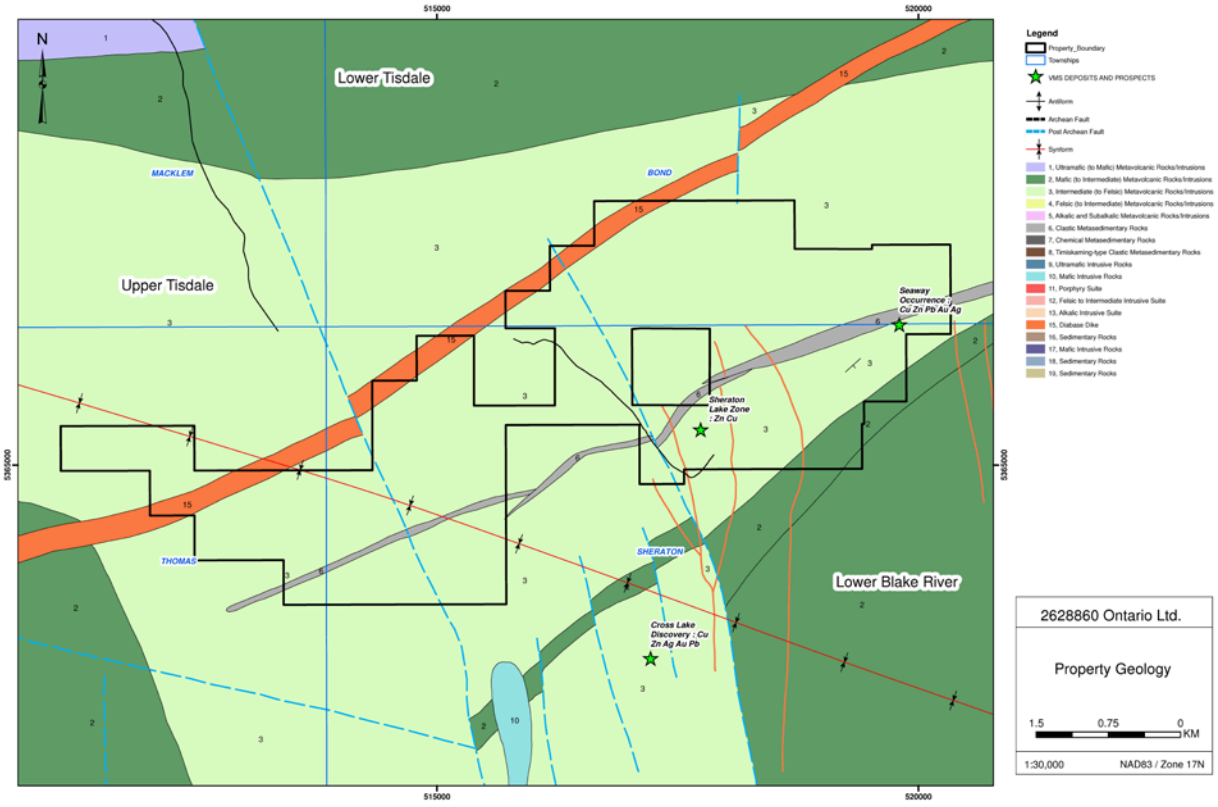


Figure 4:Property Geology

Overburden Drilling:

Several companies covered the area in widely spaced drilling/sampling programs in the 1980's and 90's. Collar locations were digitized from georegistered maps in assessment reports and compared to coordinates entered on logs. Selected information including depth of overburden, any significant assays reported, the size and morphology of the gold grains was entered into a commercial logging software package called Corelog. Collar coordinates were converted to UTM NAD83 Zone 17 and plotted on updated air photo mosaics from recent aerial surveys. Where possible, these collar coordinates were then verified in the field with handheld Garmin GPS's. An overburden depth table can be found in Appendix 3.

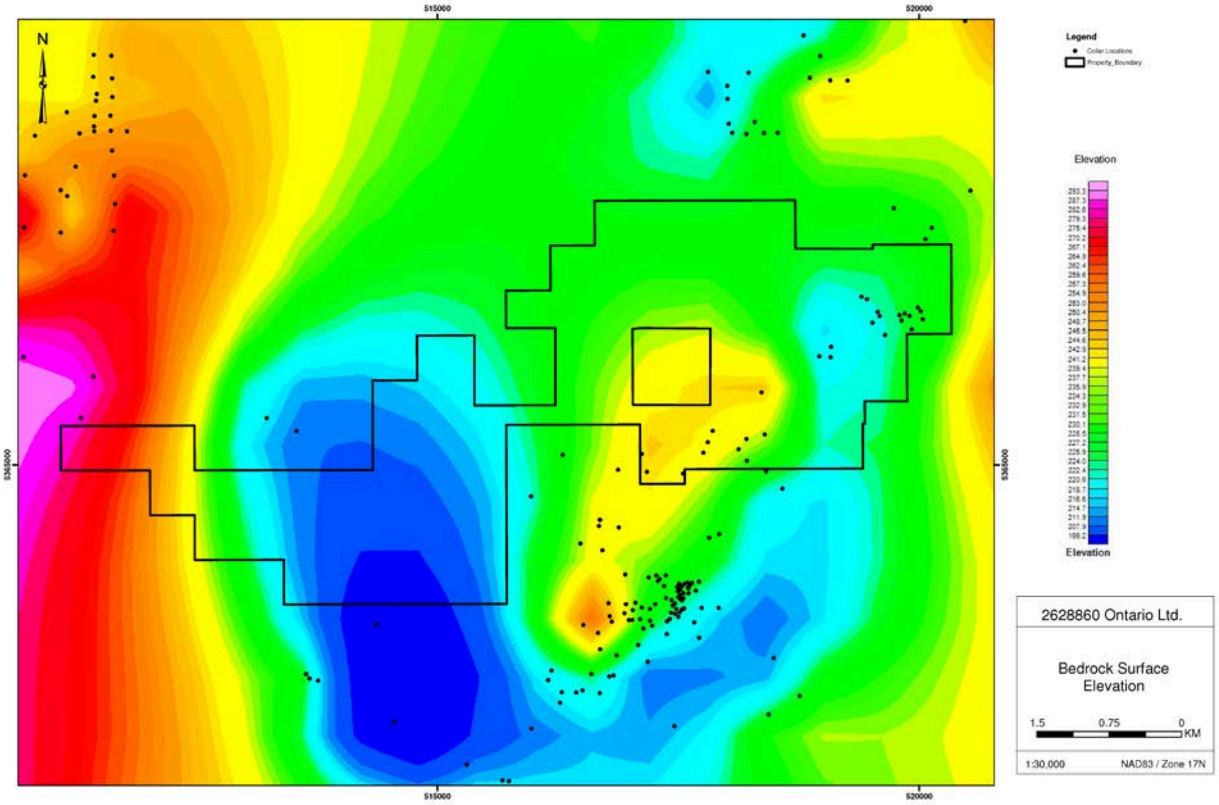


Figure 5: Bedrock Surface Elevation

Diamond Drilling:

Several companies explored the area in the 1980's and 90's looking for gold and VMS deposits. Collar locations were digitized from georegistered maps in assessment reports and compared to coordinates entered on logs. Logs were summarized and entered into Corelog including, Company, Year, Azimuth, Dip, Length, downhole surveys (if available), depth of overburden, lithology, alteration and if any significant assays were reported. All faults and shear zones reported in the logs were also recorded in Corelog and plotted on plan and section maps. Collar coordinates were converted to UTM NAD83 Zone 17 and plotted on updated air photo mosaics from recent aerial surveys. Where possible, these collar coordinates were then verified in the field with handheld Garmin GPS's.

Figure 6: Historical diamond drilling on the Property

Geochemistry:

Geochemical data was obtained from a variety of sources including OGS surveys, numerous private company assessment reports and from recent sampling. Samples were identified in the database as either Volcanic or Intrusive. Diabase dikes and sedimentary rocks were excluded from contouring and rock classifications

Samples were further identified from the Geological assemblage of Lower Tisdale, Upper Tisdale, or Lower Blake River.

Elevation of all surface samples was generated from DEM using the 3D Analyst extension in ArcGIS.

Diamond drill hole information was exported from Corelog using the de-surveying option to generate an XYZ of the mid point of the sample.

Major (CaO, K2O, Na2O, Fe2O3, P2O5) and selected incompatible trace elements (Nb, La, Y, Th, Yb and Zr) were contoured as shown in Figures 8-18 for Volcanic Rocks and for Intrusive Rocks shown in Appendix 4. Samples used in this study are located on Figure 8 for Volcanic rocks and Figure 26 for Intrusives. Sample tables can be found in Appendix 5 & 6

Volcanic and Intrusive rocks were plotted on various discrimination and classification diagrams to aid in the geological interpretation.

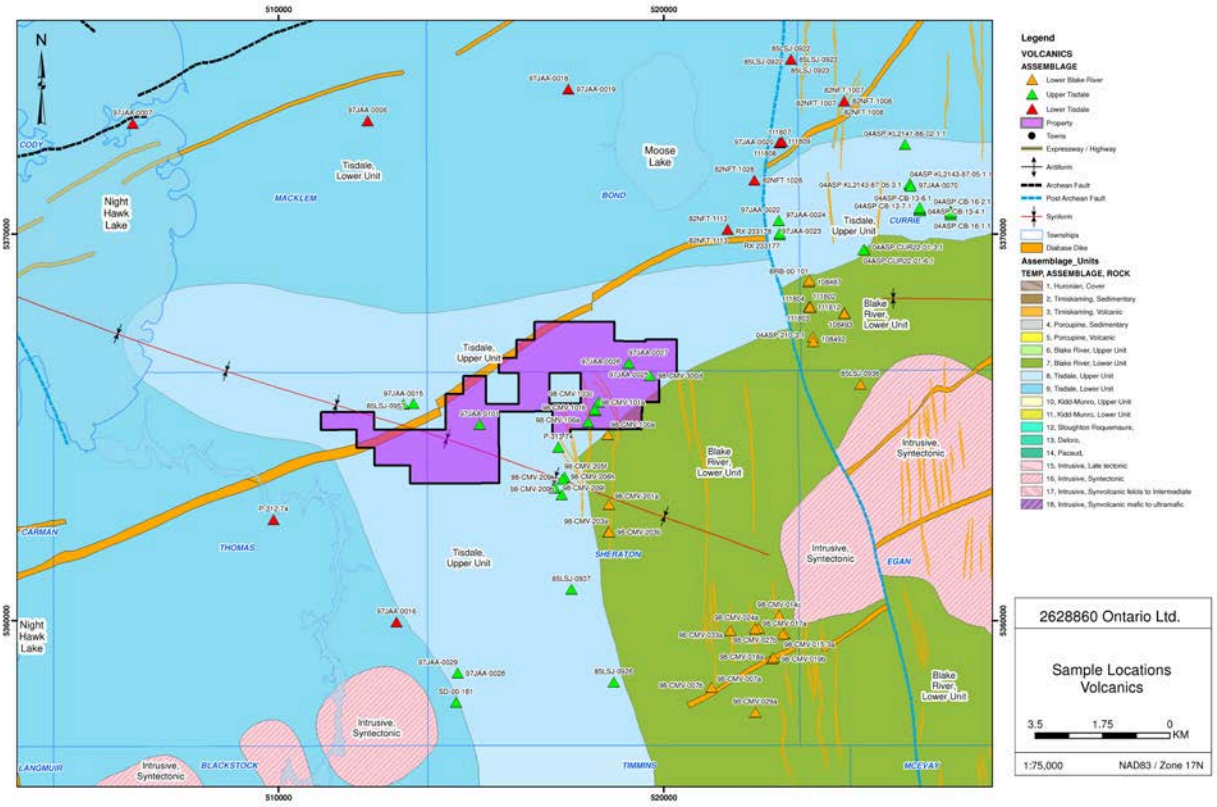


Figure 7: Sample locations- Volcanic Rocks

Volcanic Rocks Geochemical Colour-Contoured Maps (Major Elements)

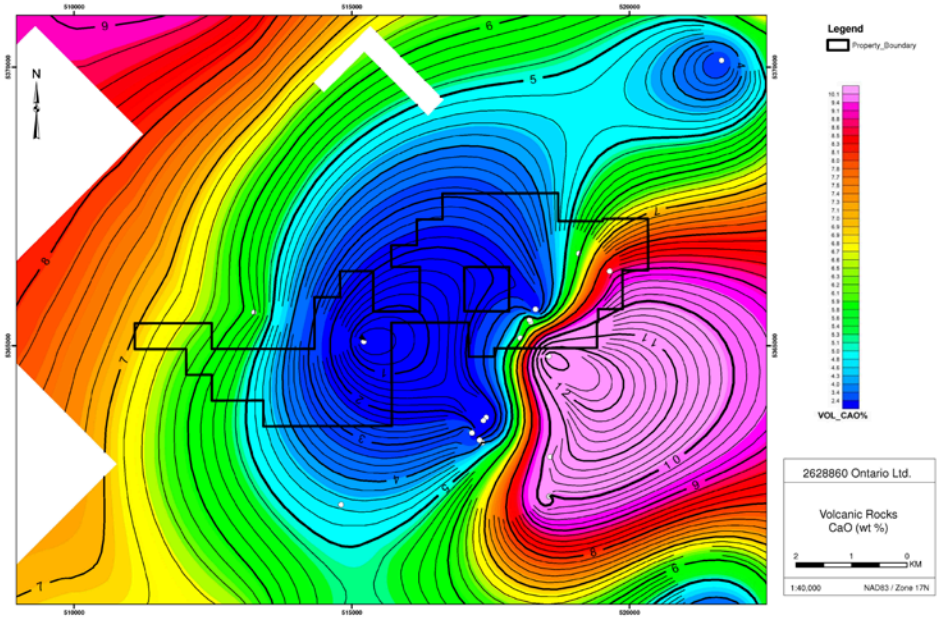


Figure 8: Geochemical colour-contoured grid maps: CaO wt% in Volcanic Rocks

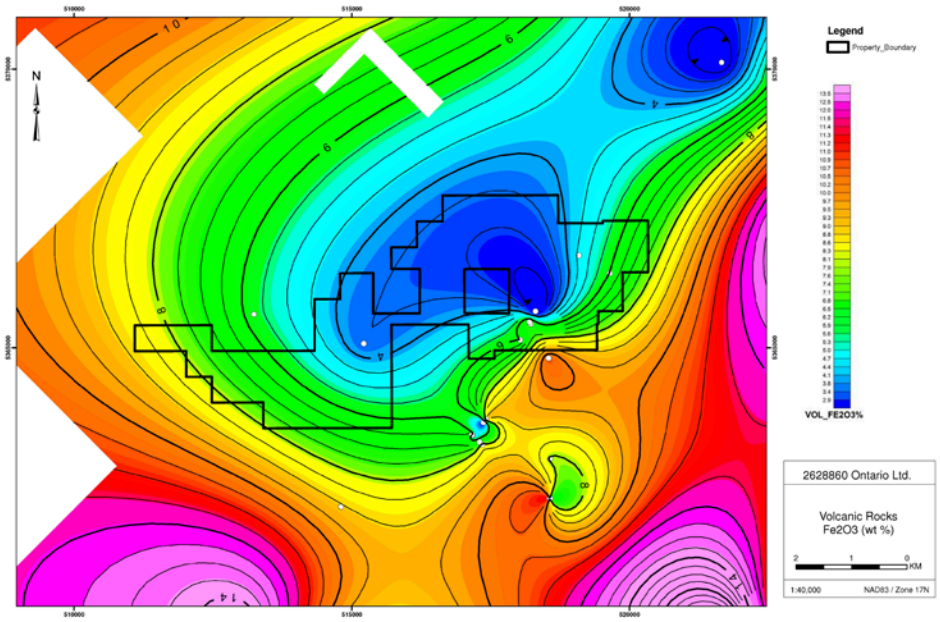


Figure 9: Geochemical colour-contoured grid maps: Fe2O3 wt% in Volcanic Rocks

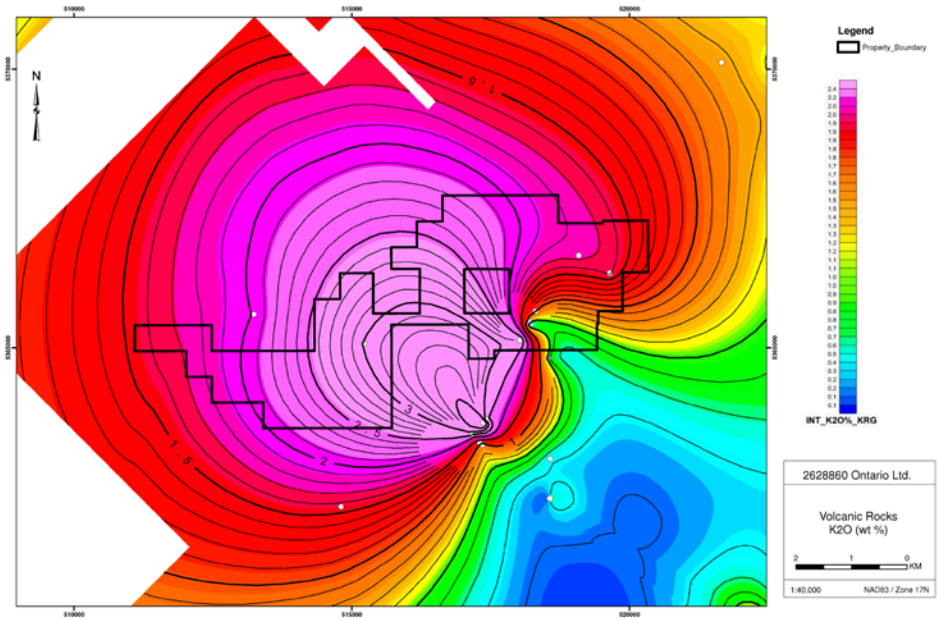


Figure 10: Geochemical colour-contoured grid maps: K2O wt% in Volcanic Rocks

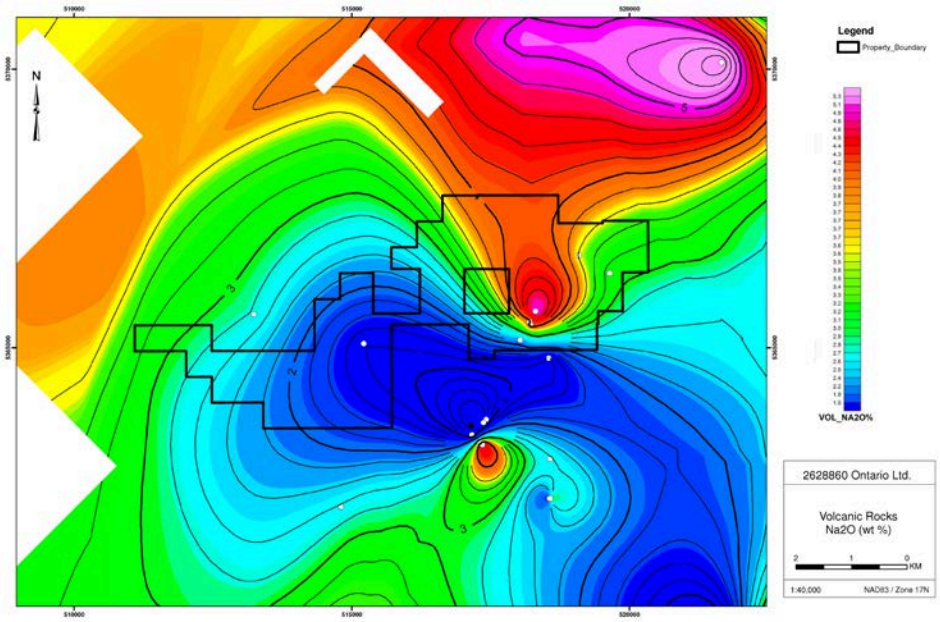


Figure 11: Geochemical colour-contoured grid maps: Na2O wt% in Volcanic Rocks

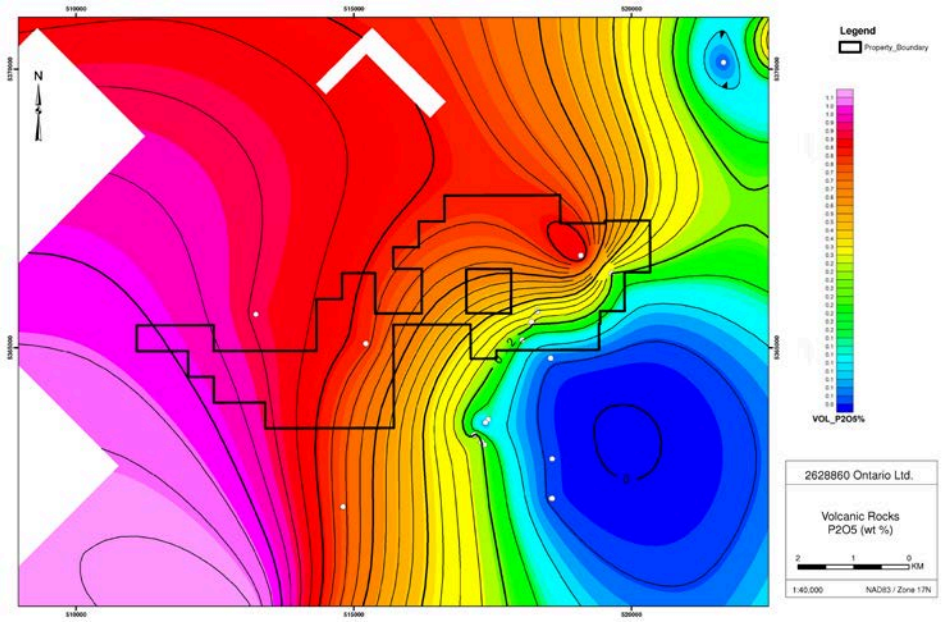


Figure 12: Geochemical colour-contoured grid maps: P2O5 wt% in Volcanic Rocks

Volcanic Rocks Geochemical Colour-Contoured Maps (Trace Elements)

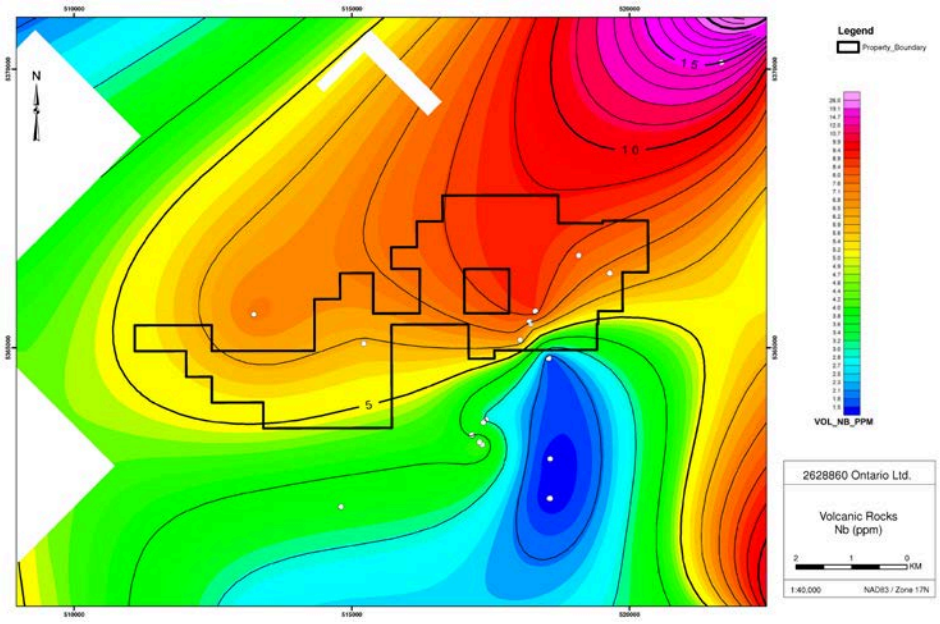


Figure 13: Geochemical colour-contoured grid maps: Nb ppm in Volcanic Rocks

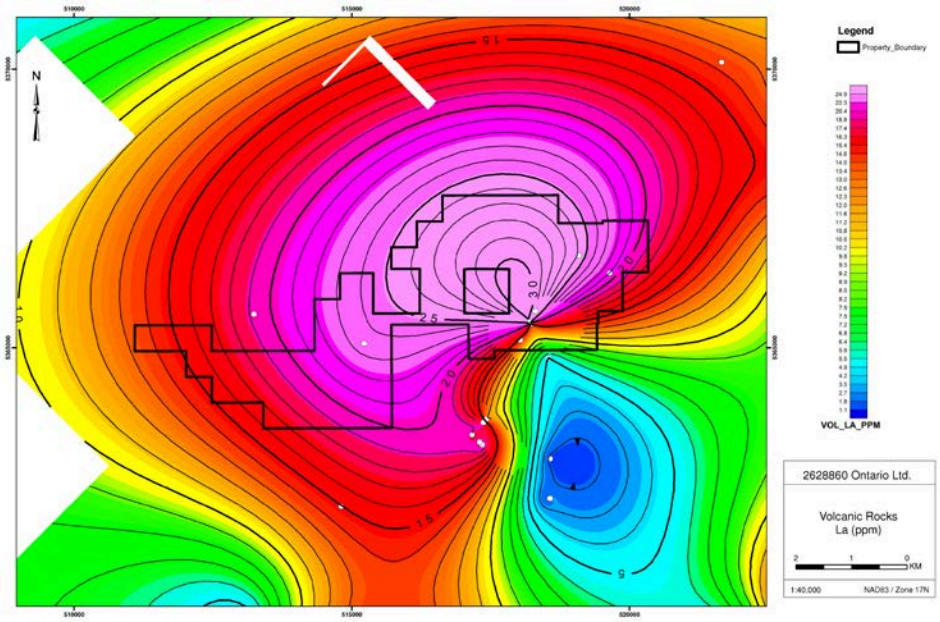


Figure 14: Geochemical colour-contoured grid maps: La ppm in Volcanic Rocks

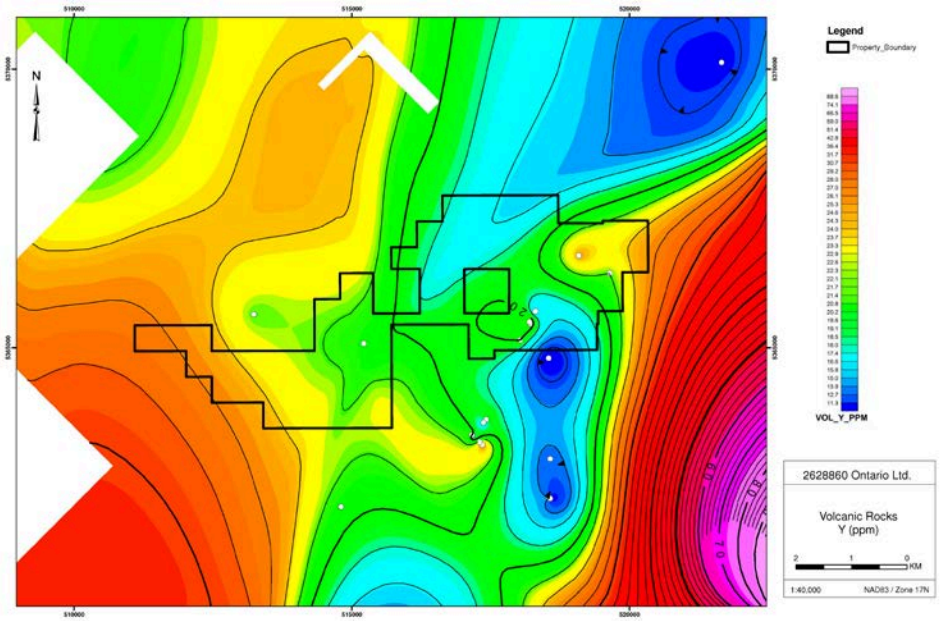


Figure 15: Geochemical colour-contoured grid maps: Y ppm in Volcanic Rocks

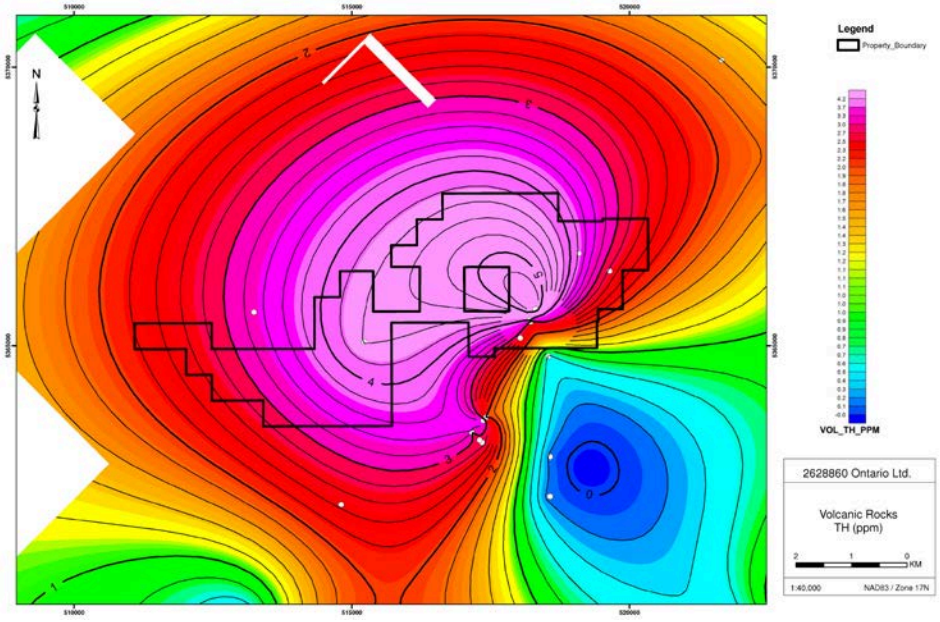


Figure 16: Geochemical colour-contoured grid maps: Th ppm in Volcanic Rocks

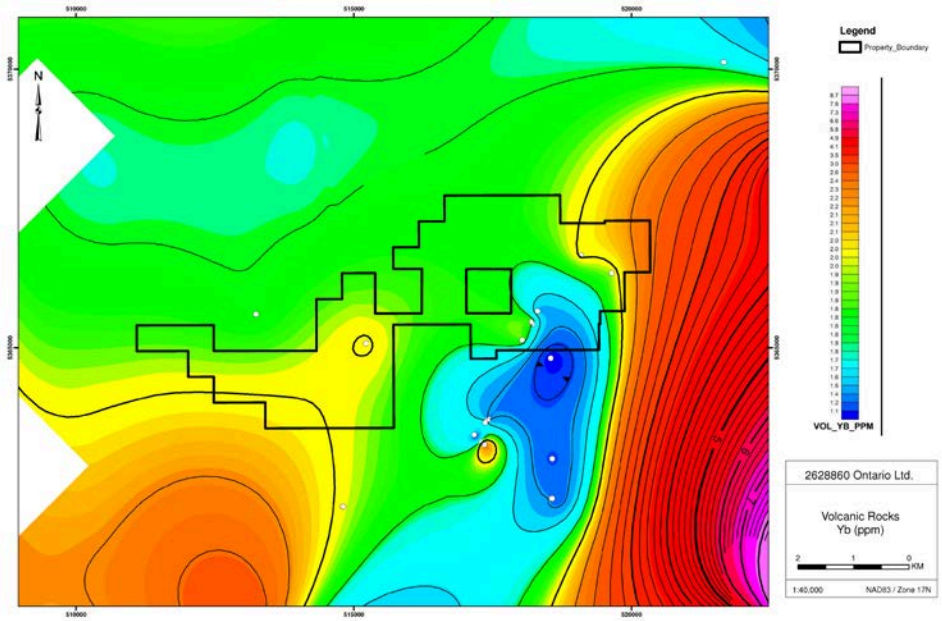


Figure 17: Geochemical colour-contoured grid maps: Yb ppm in Volcanic Rocks

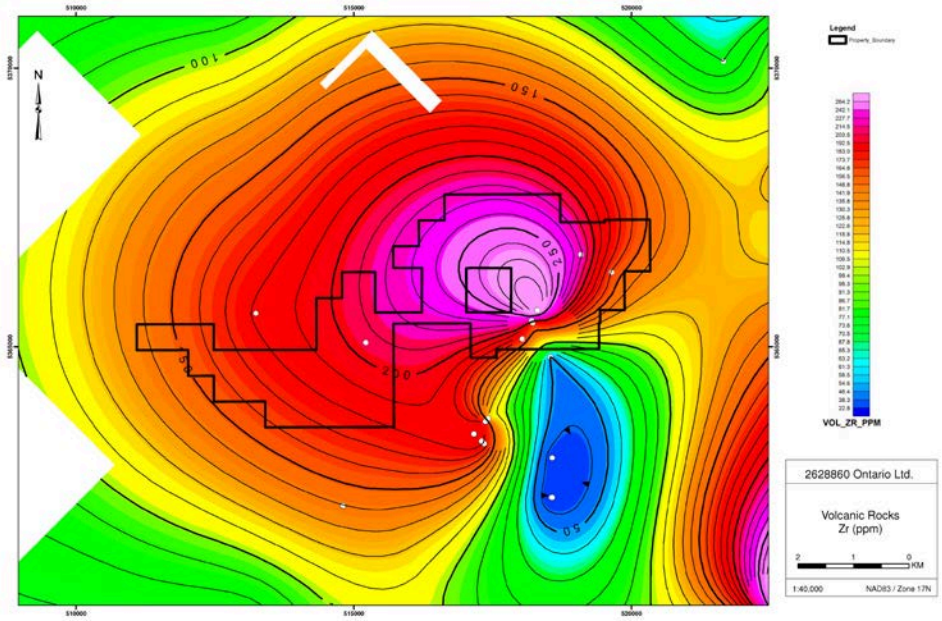


Figure 18:Geochemical colour-contoured grid maps: Zr ppm in Volcanic Rocks

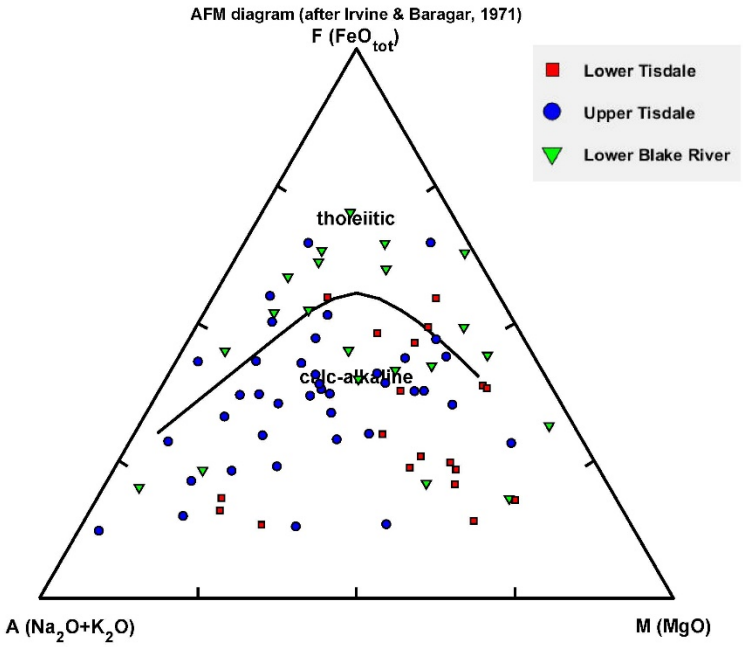


Figure 19: AFM Diagram (Irvine and Baragar 1971) Volcanic Rocks.

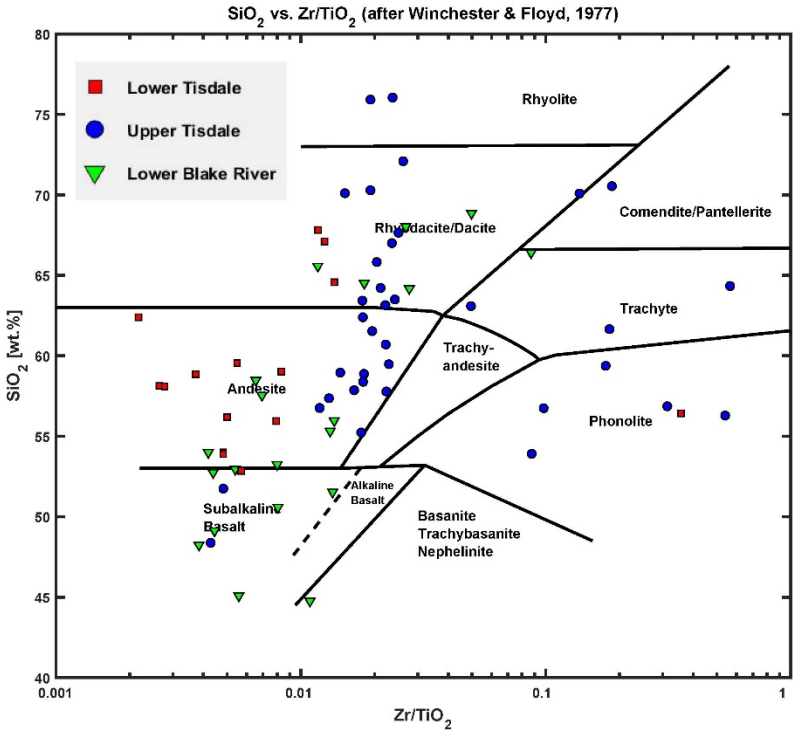


Figure 20: SiO2 vs Zr/TiO2 (after Winchester & Floyd, 1977)

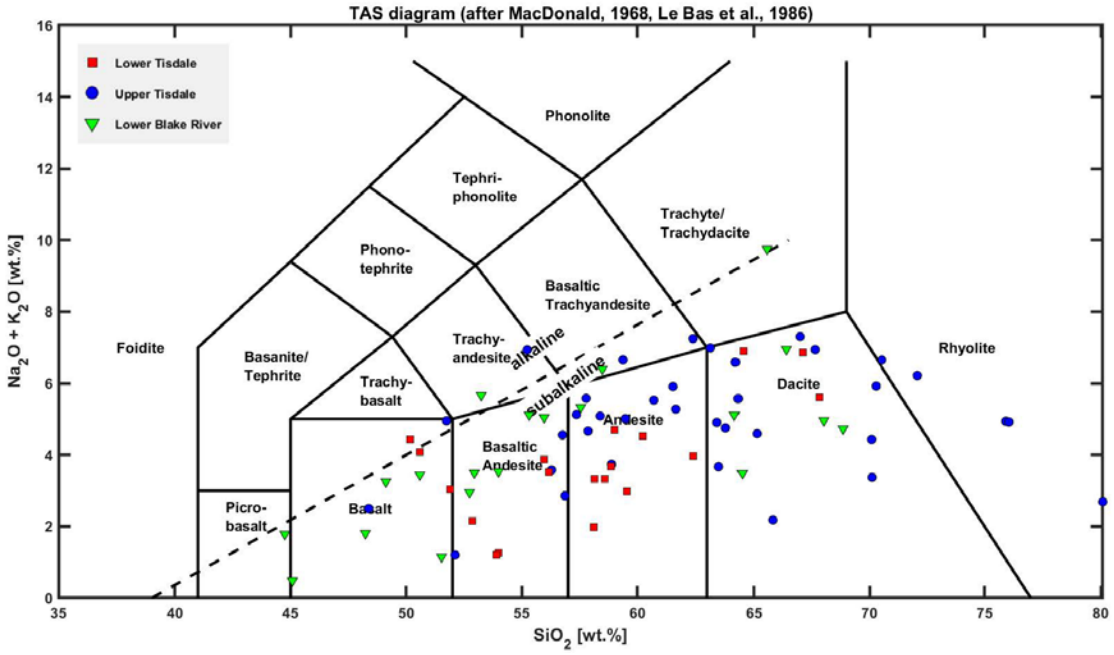


Figure 21: Total Alkali Silica diagram for volcanic rocks (after MacDonald, 1968, Le Bas et al., 1986)

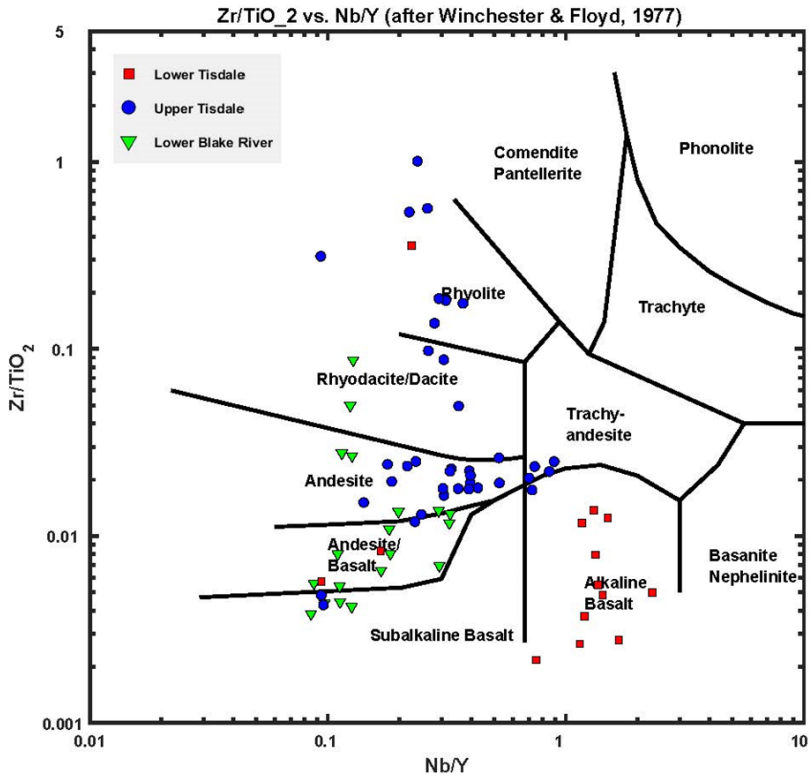


Figure 22: Zr/TiO2 vs. Nb/Y (after Winchester & Floyd, 1977)

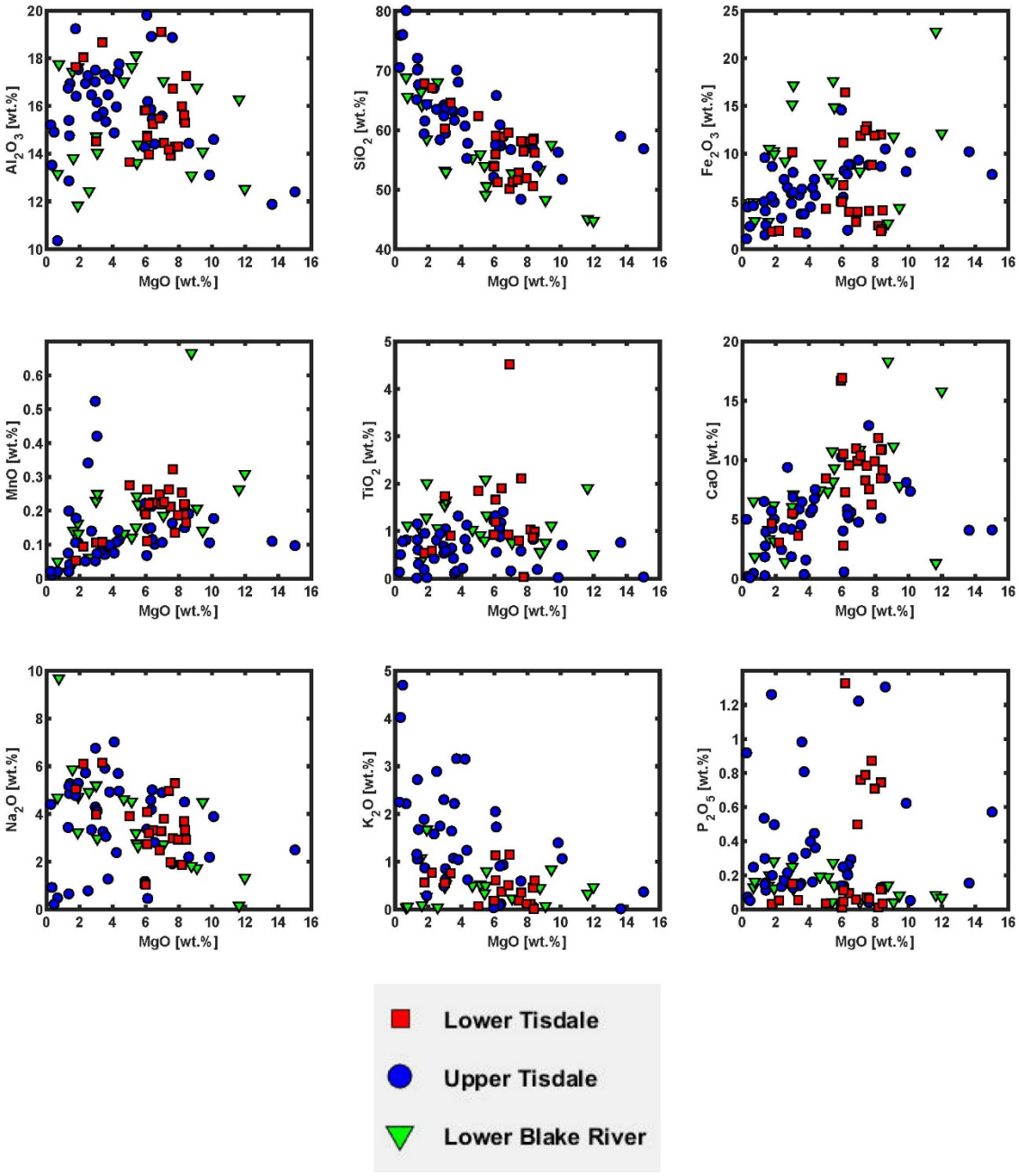


Figure 23: Fenner-type variation diagrams of selected major (wt.%) versus MgO (wt.%).

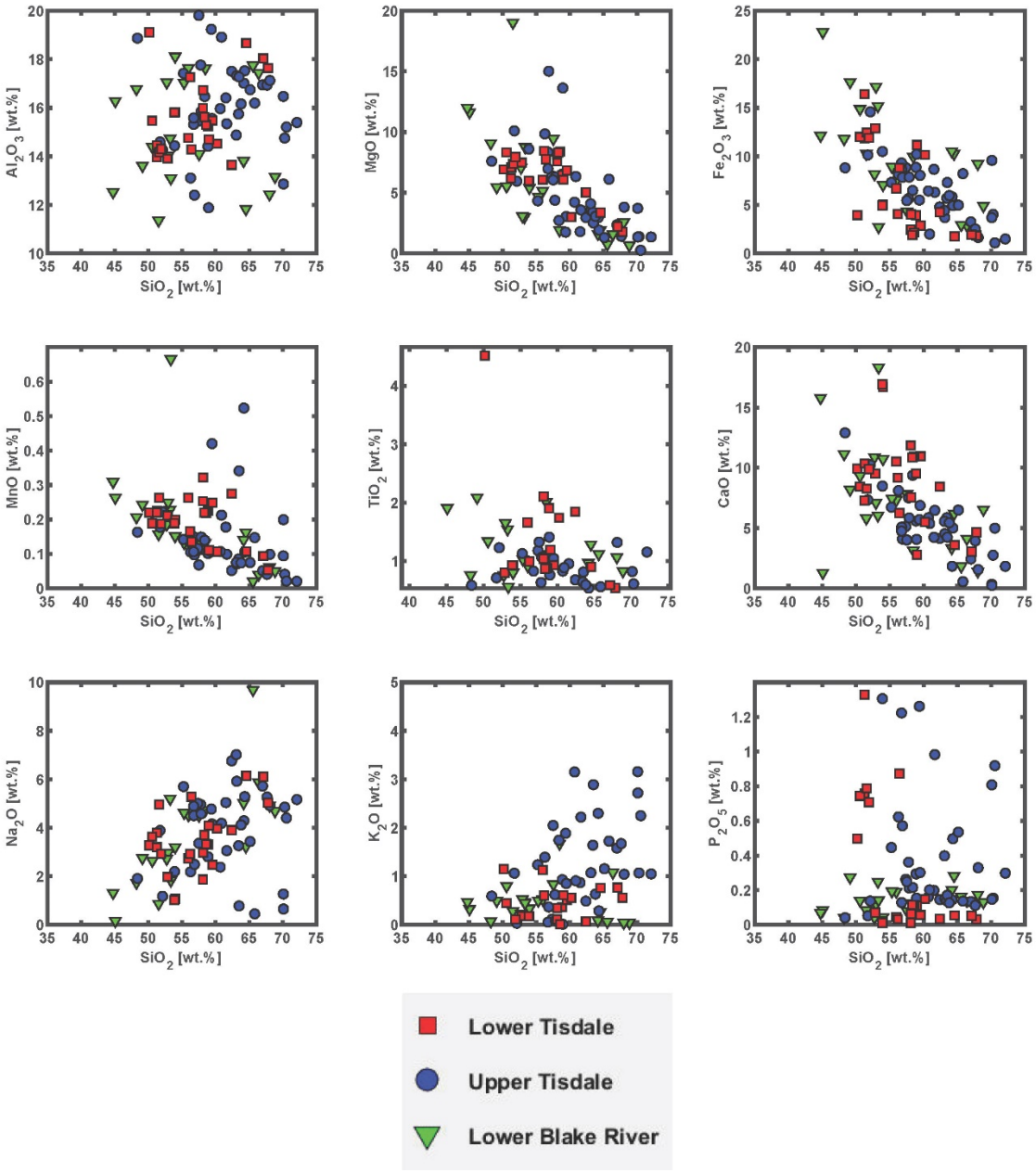


Figure 24: Harker-type variation diagrams of selected major (wt.%) versus SiO2 (wt.%).

Intrusive Rocks - Discrimination and Classification

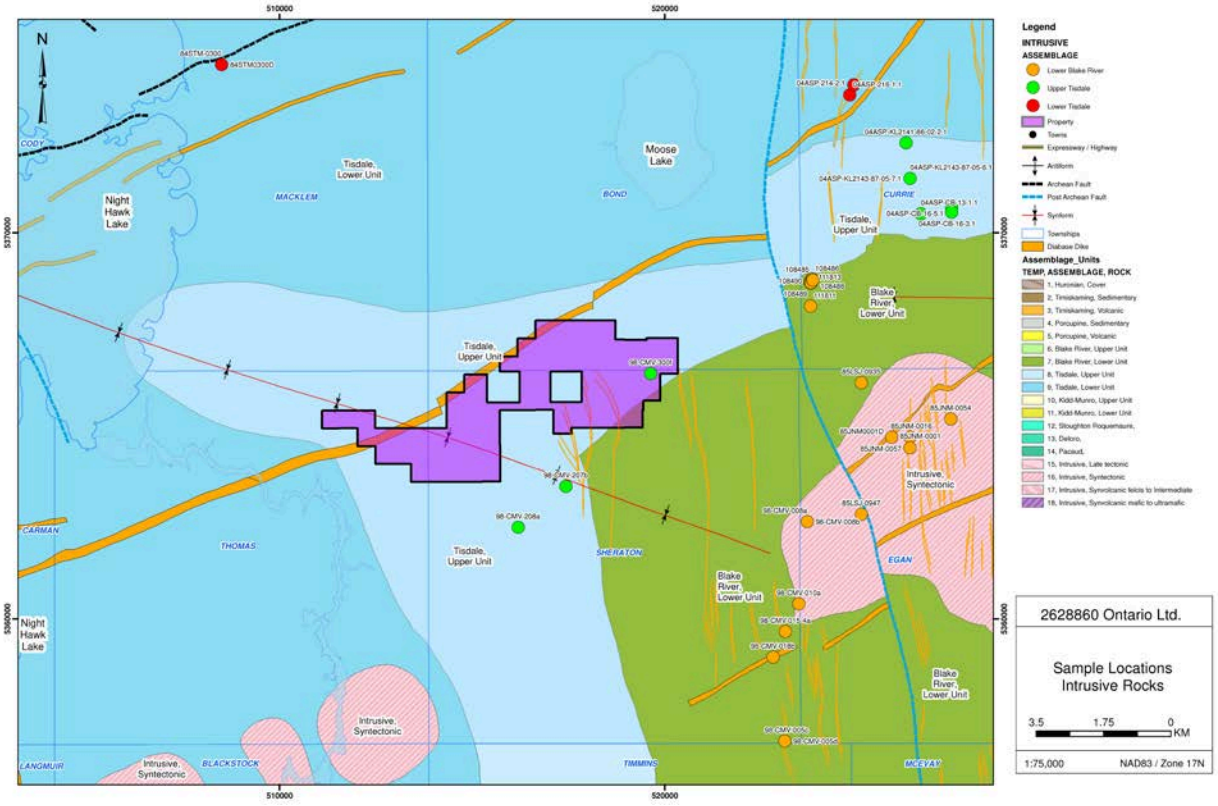


Figure 25: Sample Locations – Intrusive Rocks

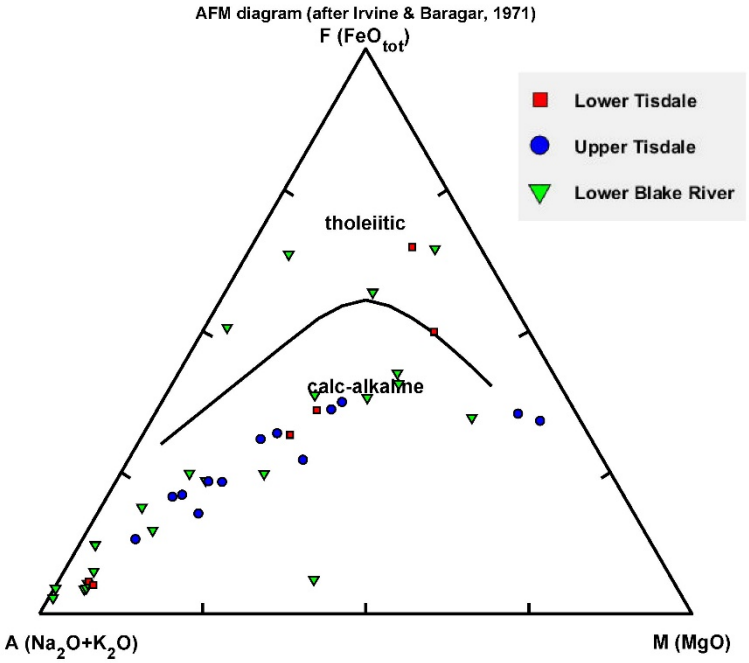


Figure 26: AFM Diagram (Irvine and Baragar 1971) Intrusive Rocks.

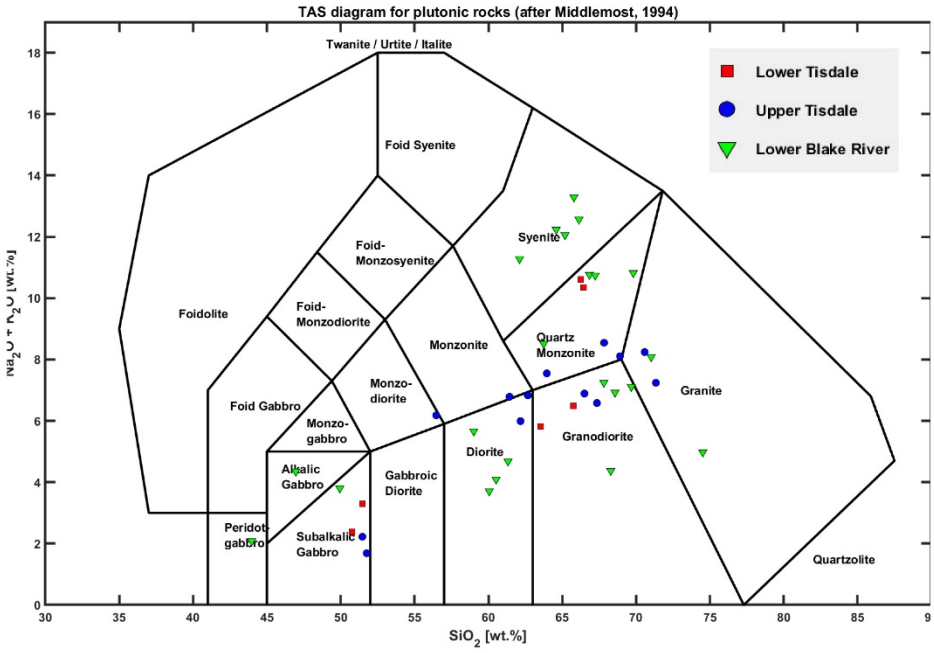


Figure 27: Total Alkali Silica diagram for plutonic rocks (after Middlemost, 1994).

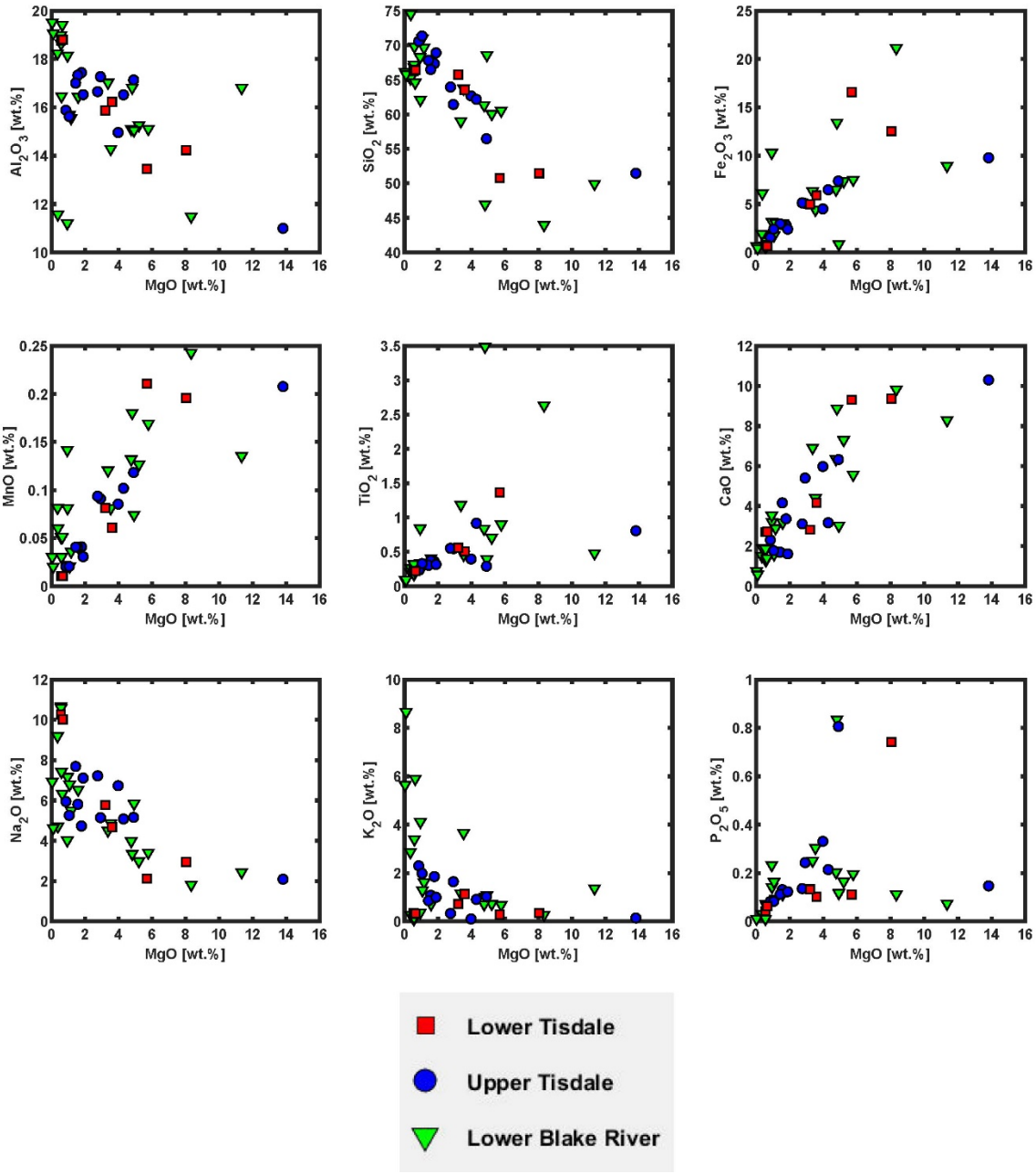


Figure 28: Fenner-type variation diagrams of selected major (wt.%) versus MgO (wt.%).

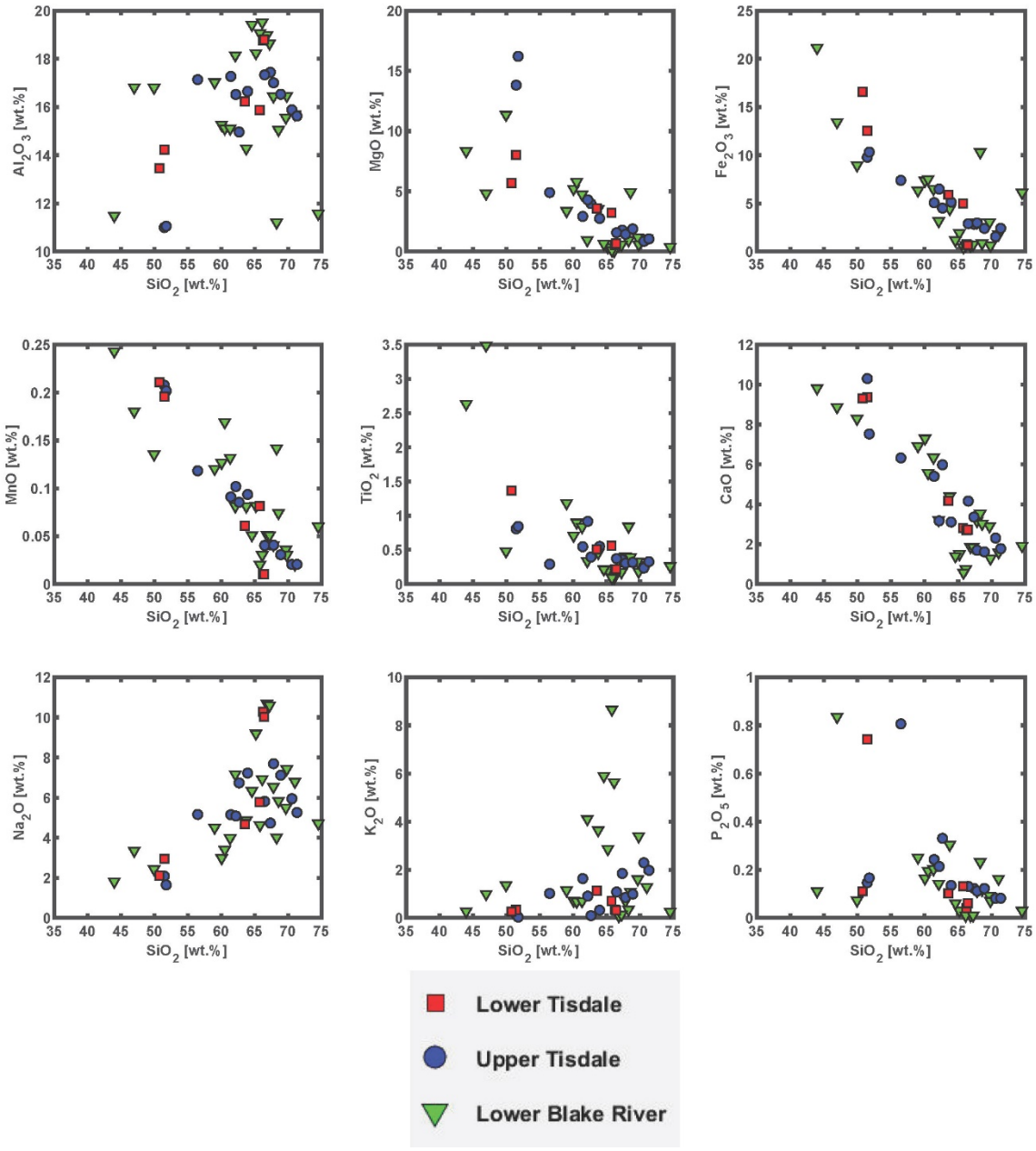


Figure 29: Harker-type variation diagrams of selected major (wt.%) versus SiO2 (wt.%).

Geophysics: Airborne Magnetics 1st Vertical Derivative

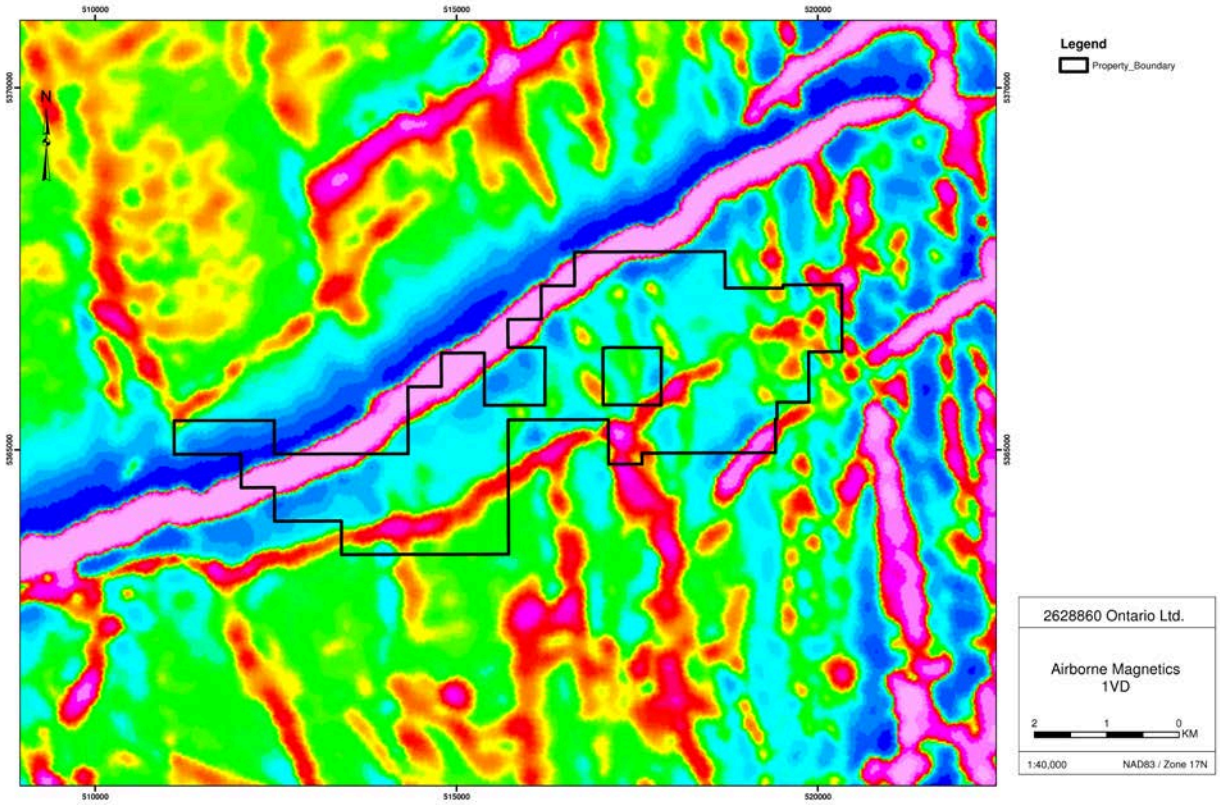


Figure 30: Airborne Magnetics: 1VD

Geophysics: Airborne EM – AdTau

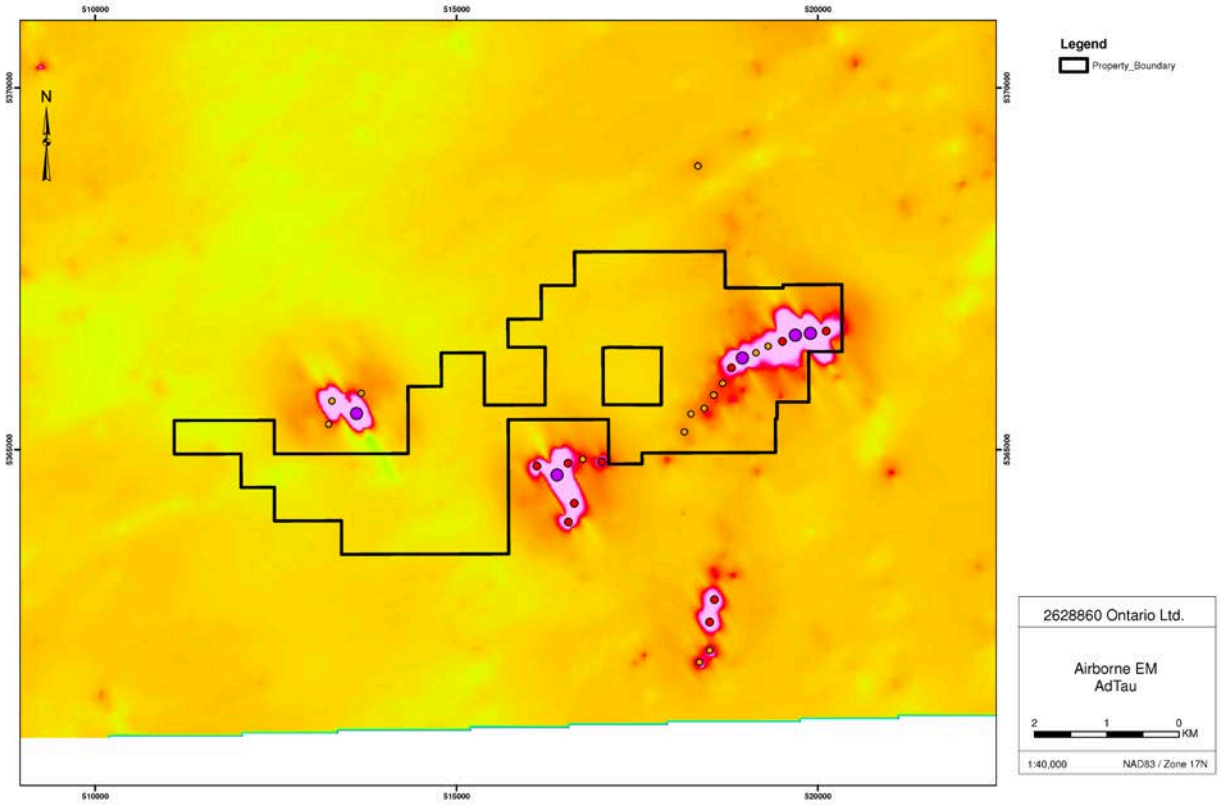


Figure 31: Airborne EM - AdTau

Geophysics: Airborne Gravity

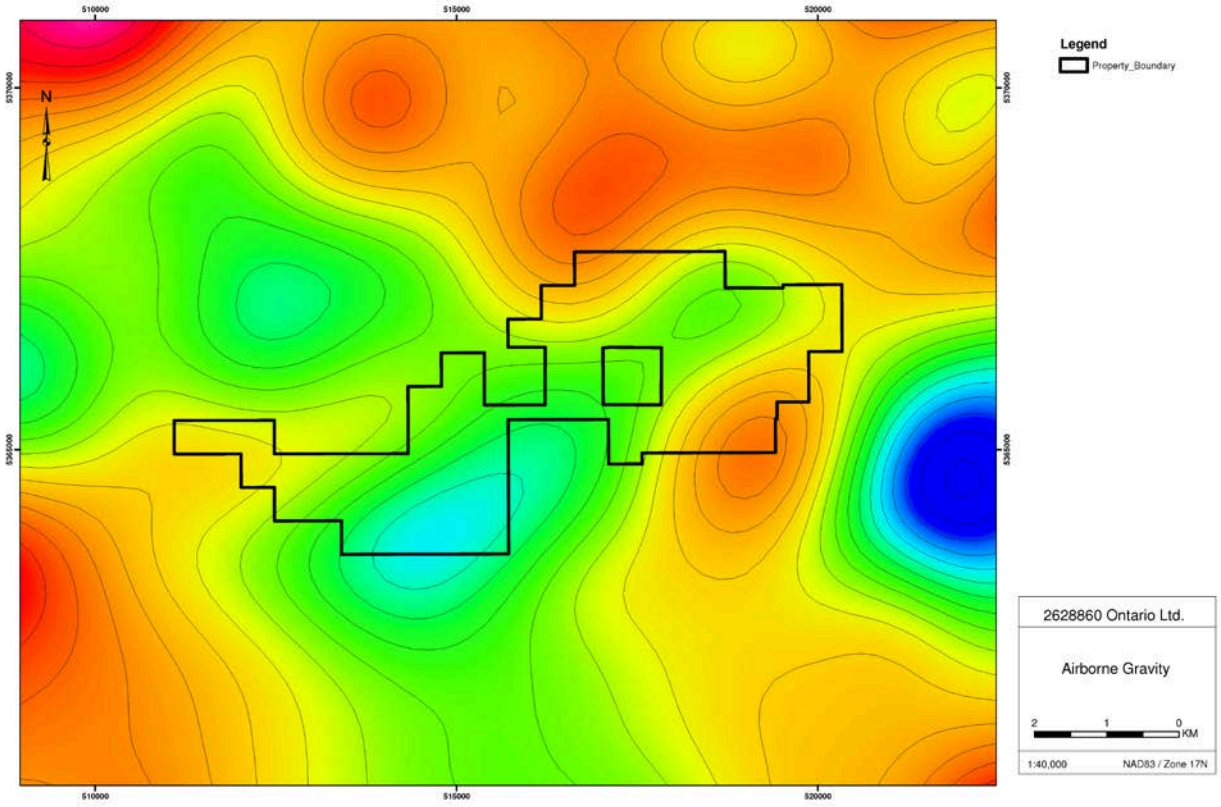


Figure 32 Airborne Gravity

Products

The following is a list of Exploration Products from this study that were used in generating a new exploration model for the Property.

Geology	**Updated Geology Map**
Drilling	DDH Location Map DDH Table OVH Location Map OVB Table De-surveyed DDH bedrock contact (XYZ) Collar elevations from DEM Calculated Bedrock elevations Overburden Surface 2D and 3D Drill logs entered into Corelog Drill logs hyperlinked in ArcGIS
Geochemistry	Geochem Sample location map Geochemical sample table

	Separated by type and location Volcanic vs Intrusive Separate by Assemblage Lower Tisdale-Upper Tisdale-Upper Blake River De-surveyed sample's locations (XYZ) Gridded geochemical elements (Major and Trace elements) X-Y plots Geochemical classifications
Geophysics	Sources included OGS and private company surveys in assessment reports Georegistered company surveys Airborne Magnetics: 1VD Airborne EM - AdTau Airborne Gravity New Structural Interpretation
Sections	East-West and North-South sections across selected target areas

Table 2: List of Exploration Products from Current Work

Conclusions

Data validation was critical in building a new geological model of the area. Locations of historic drill holes were corrected to their proper UTM locations. De-surveyed core sample locations (actual XYZ coordinates) were used to help revise the geological information of the property. The data validation was also used to calculate the elevation of the bedrock surface and production of a gridded bedrock surface map

Analysis of geochemical data and producing geochemical coloured contour grid maps outlined the lithological contacts between the Blake River and Upper Tisdale Assemblages as well as defining the contact between the Upper and Lower Tisdale Assemblages.

Interpretation of existing airborne magnetic data, airborne EM with airborne Gravity, along with 3D magnetic inversion models helped in the creation of the new geological understanding of the property. The interpretation outlined the new structural trend that lies south of the Destor Porcupine Fault Zone. The geophysical interpretation also identified fold structures in the southwestern portion of the property.

In addition, recently published research by Haugaard et al., 2021. at MERC as part of the Metals Earth initiative has identified the presence of a deep-rooted extensional fault system where the corridor may be acting as a regional-scale conduit for gold-bearing hydrothermal fluids from a ductile source region in the lower crust to the depositional site in the brittle upper crust. The transect through the Matheson region is in a similar geological setting as the 2628860 Ontario Ltd. property. Near the contact between the Upper and Lower Tisdale Assemblages in close proximity to the Lower Blake River Group.

The new model generated by the validation and interpretation of data, identifies a structural zone that warrant further exploration.

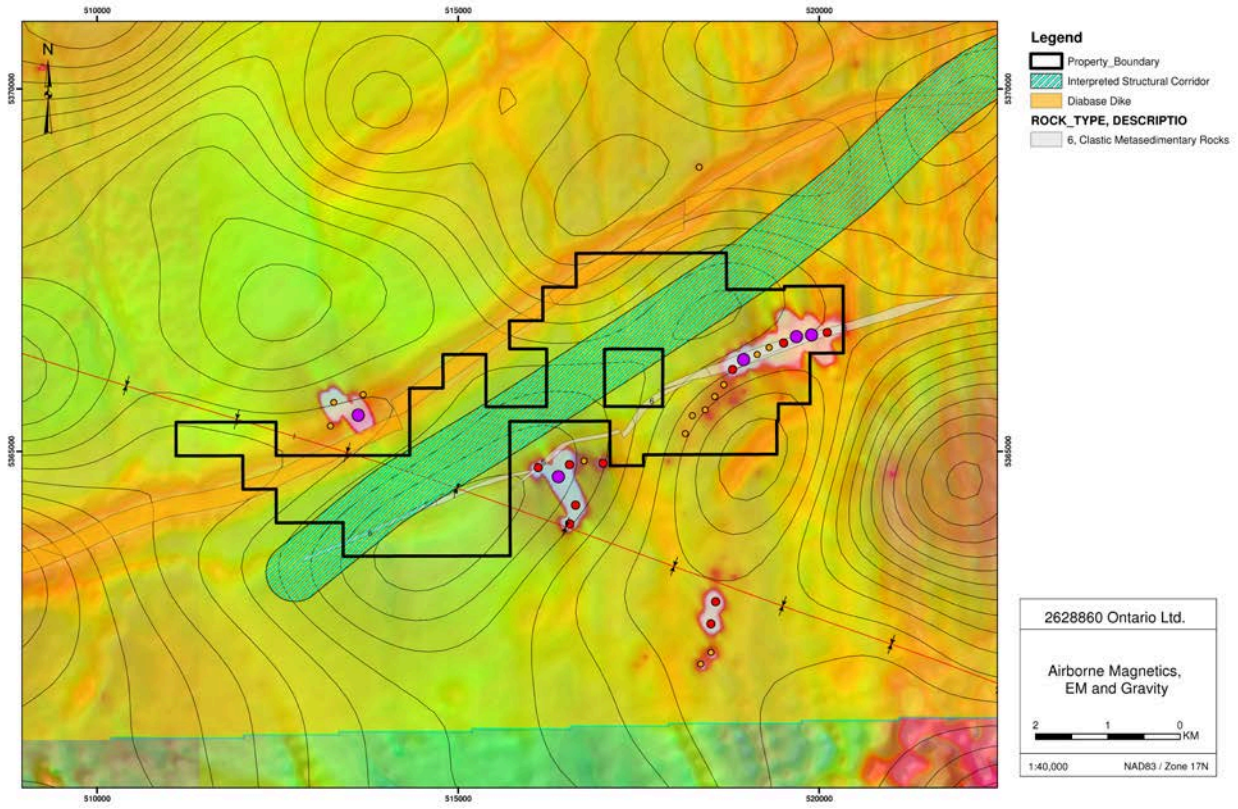


Figure 33: Relationship between Magnetics, EM and Gravity and the postulation of a New Structural Zone.

Recommendations

1. Ground geophysics consisting of deep penetrating DCIP to identify resistivity and chargeability geophysical anomalies related to the interpreted deep structural break.
2. Outcrop stripping to aid in refining the geological model.
3. Additional sampling of any outcrops and available drill core to aid in refining the geochemical model.
4. Diamond drilling in areas with coincident geophysical anomalies and mineralized zones from previous diamond drilling.

Certificate of Qualifications

CERTFICATE of QUALIFICATIONS

I, John R. Boissoneault, of 670 Spruce Street North, Timmins Ontario do certify that:

(1) I have reviewed the report entitled *"A New look at the Geology, Geochemistry and Geophysics of the Thomas, Bond and Sheraton Townships for 2628860 Ontario Ltd."*

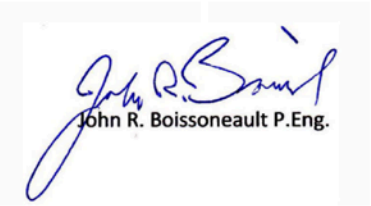
(2) I have a B.Sc. in Geological Sciences from McGill University (1960).

(3) I am a registered Professional Engineer in the Province of Ontario and I have been for more than thirty years.

(4) I have been involved in several aspects of mineral exploration, particularly in northern Ontario and northwestern Quebec for more than thirty years.

(1) I have disclosed all relevant data pertaining to the reprocessing and modelling of all available public and private geoscience data to generate a new interpretation and new exploration targets for the Sheraton property of 2628860 Ontario Ltd.

Dated this 15th of December 2021.



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Appendix 1- Cost Breakdown 2628860 Ontario Ltd.

Cost Breakdown - 2628860 Ontario Ltd.

Work Subtype	Data Sets	Tasks	From Date	To Date	Days	Cost/Unit	Actual Cost
Remote Sensing Imagery	Imagery	Plan drone surveys, fly drone surveys, process imagery and generate photo mosaics in Pix4D Mapper, georegister photo mosaics in ArcGIS.	8/27/2021	8/29/2021	3	400	1200
Data Reprocessing	Diamond drilling	Entering diamond drill logs from assessment reports into Corelog for use in modelling software; Amine, ArcGIS and Geosoft Oasis Montaj;	9/4/2021	9/6/2021	3	400	1200
Data Reprocessing	Reports/Maps	Georegistering maps from assessment reports for digitizing of collar locations, outcrops, geological contacts, sample locations, geophysical anomalies;	9/11/2021	9/12/2021	2	400	800
Data Reprocessing	Geochemistry	Converting geochemical datasets from reports into a digital format for gridding and classification;	9/18/2021	9/19/2021	2	400	800
Data Reprocessing	Reports/Maps	Georegistering maps from assessment reports for digitizing of collar locations, outcrops, geological contacts, sample locations, geophysical anomalies;	9/25/2021	9/26/2021	2	400	800
Data Reprocessing	Geochemistry	Converting geochemical datasets from reports into a digital format for gridding and classification;	10/2/2021	10/3/2021	2	400	800
Data Modelling	Diamond drilling	Cutting sections across the property using Amine/Corelog to aid geological interpretations;	10/9/2021	10/11/2021	3	400	1200
Data Reprocessing	Drilling	Create a depth of overburden database from drill hole logs and dip of hole;	10/16/2021	10/17/2021	2	400	800
Data Reprocessing	Reports/Maps	Georegistering maps from assessment reports for digitizing of collar locations, outcrops, geological contacts, sample locations, geophysical anomalies;	10/21/2021	10/24/2021	4	400	1600
Data Modelling	Drilling	Generate a bedrock surface map by gridding corrected depth of overburden elevations using ArcGIS and Geosoft Oasis Montaj; generate map products;	10/30/2021	10/31/2021	2	400	800
Data Modelling	Geochemistry	Gridding major and trace elements using ArcGIS and Geosoft Oasis Montaj; generate maps;	11/6/2021	11/7/2021	2	400	800
Data Modelling	Geochemistry	Preliminary geochemical statistics and correlation matrices; generate classification diagrams to aid interpretation using FastGAPP running under MATLAB; generate plots;	11/13/2021	11/14/2021	2	400	800
Data Modelling	Geochemistry	Classify samples into Upper and Lower Tisdale and Lower Blake River based on rock descriptions and an updated geological interpretation;	11/20/2021	11/21/2021	2	400	800
Data Modelling	Geochemistry	Identifying geochemical patterns for to aid in interpretation and follow-up exploration;	11/27/2021	11/28/2021	2	400	800
Data Modelling	Geochemistry	Generate additional geochemical classification diagrams to aid interpretation using FastGAPP running under MATLAB; generate geochem plots;	12/4/2021	12/5/2021	2	400	800
Data Modelling	Diamond drilling	Generate updated compilation maps from the re-interpretation of the geology, geochemistry and geophysics;	12/11/2021	12/12/2021	2	400	800
Report/Map	Report and maps	Writing and compiling report, generate maps and images for report.	12/16/2021	12/17/2021	2	400	800
				Totals	39	400	15600

Appendix 2- Client Report 2628860 Ontario Ltd.

Registered Holder	Township / Area	Tenure ID	Tenure Type	# Cells	Anniversary Date	Tenure Status	Work Required
(100) 2628860 Ontario Ltd.	BOND	537385	Single Cell Mining Claim	1	2021-12-18	Active	400
(100) 2628860 Ontario Ltd.	BOND	537384	Single Cell Mining Claim	1	2021-12-18	Active	400
(100) 2628860 Ontario Ltd.	BOND	537383	Single Cell Mining Claim	1	2021-12-18	Active	400
(100) 2628860 Ontario Ltd.	BOND,SHERATON	537389	Single Cell Mining Claim	1	2021-12-18	Active	400
(100) 2628860 Ontario Ltd.	BOND,SHERATON	537388	Single Cell Mining Claim	1	2021-12-18	Active	400
(100) 2628860 Ontario Ltd.	BOND,SHERATON	537387	Single Cell Mining Claim	1	2021-12-18	Active	400
(100) 2628860 Ontario Ltd.	BOND,SHERATON	537386	Single Cell Mining Claim	1	2021-12-18	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	537403	Single Cell Mining Claim	1	2021-12-18	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	537402	Single Cell Mining Claim	1	2021-12-18	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	537401	Single Cell Mining Claim	1	2021-12-18	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	537400	Single Cell Mining Claim	1	2021-12-18	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	537399	Single Cell Mining Claim	1	2021-12-18	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	537398	Single Cell Mining Claim	1	2021-12-18	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	537397	Single Cell Mining Claim	1	2021-12-18	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	537396	Single Cell Mining Claim	1	2021-12-18	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	537395	Single Cell Mining Claim	1	2021-12-18	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	537394	Single Cell Mining Claim	1	2021-12-18	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	537393	Single Cell Mining Claim	1	2021-12-18	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	537392	Single Cell Mining Claim	1	2021-12-18	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	537391	Single Cell Mining Claim	1	2021-12-18	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	537390	Single Cell Mining Claim	1	2021-12-18	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	539429	Multi-cell Mining Claim	3	2022-01-17	Active	1200
(100) 2628860 Ontario Ltd.	SHERATON	551491	Single Cell Mining Claim	1	2022-06-14	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	551490	Single Cell Mining Claim	1	2022-06-14	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	551487	Single Cell Mining Claim	1	2022-06-14	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	551486	Single Cell Mining Claim	1	2022-06-14	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	551485	Single Cell Mining Claim	1	2022-06-14	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	551484	Single Cell Mining Claim	1	2022-06-14	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	551482	Single Cell Mining Claim	1	2022-06-14	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	551481	Single Cell Mining Claim	1	2022-06-14	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	551480	Single Cell Mining Claim	1	2022-06-14	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	551479	Single Cell Mining Claim	1	2022-06-14	Active	400
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(100) 2628860 Ontario Ltd.	SHERATON	551477	Single Cell Mining Claim	1	2022-06-14	Active	400
(100) 2628860 Ontario Ltd.	SHERATON,THOMAS	551489	Single Cell Mining Claim	1	2022-06-14	Active	400
(100) 2628860 Ontario Ltd.	SHERATON,THOMAS	551488	Single Cell Mining Claim	1	2022-06-14	Active	400
(100) 2628860 Ontario Ltd.	SHERATON,THOMAS	551483	Single Cell Mining Claim	1	2022-06-14	Active	400
(100) 2628860 Ontario Ltd.	BOND	658338	Single Cell Mining Claim	1	2023-05-24	Active	400
(100) 2628860 Ontario Ltd.	BOND	658337	Single Cell Mining Claim	1	2023-05-24	Active	400
(100) 2628860 Ontario Ltd.	BOND	658336	Single Cell Mining Claim	1	2023-05-24	Active	400
(100) 2628860 Ontario Ltd.	BOND	658335	Single Cell Mining Claim	1	2023-05-24	Active	400
(100) 2628860 Ontario Ltd.	BOND	658334	Single Cell Mining Claim	1	2023-05-24	Active	400

Registered Holder	Township / Area	Tenure ID	Tenure Type	# Cells	Anniversary Date	Tenure Status	Work Required
(100) 2628860 Ontario Ltd.	BOND	658333	Single Cell Mining Claim	1	2023-05-24	Active	400
(100) 2628860 Ontario Ltd.	BOND	658332	Single Cell Mining Claim	1	2023-05-24	Active	400
(100) 2628860 Ontario Ltd.	BOND	658331	Single Cell Mining Claim	1	2023-05-24	Active	400
(100) 2628860 Ontario Ltd.	BOND	658330	Single Cell Mining Claim	1	2023-05-24	Active	400
(100) 2628860 Ontario Ltd.	BOND	658329	Single Cell Mining Claim	1	2023-05-24	Active	400
(100) 2628860 Ontario Ltd.	BOND	658328	Single Cell Mining Claim	1	2023-05-24	Active	400
(100) 2628860 Ontario Ltd.	BOND,SHERATON	658344	Single Cell Mining Claim	1	2023-05-24	Active	400
(100) 2628860 Ontario Ltd.	BOND,SHERATON	658343	Single Cell Mining Claim	1	2023-05-24	Active	400
(100) 2628860 Ontario Ltd.	BOND,SHERATON	658342	Single Cell Mining Claim	1	2023-05-24	Active	400
(100) 2628860 Ontario Ltd.	BOND,SHERATON	658341	Single Cell Mining Claim	1	2023-05-24	Active	400
(100) 2628860 Ontario Ltd.	BOND,SHERATON	658340	Single Cell Mining Claim	1	2023-05-24	Active	400
(100) 2628860 Ontario Ltd.	BOND,SHERATON	658339	Single Cell Mining Claim	1	2023-05-24	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	658347	Multi-cell Mining Claim	4	2023-05-24	Active	1600
(100) 2628860 Ontario Ltd.	SHERATON	658346	Single Cell Mining Claim	1	2023-05-24	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	658345	Single Cell Mining Claim	1	2023-05-24	Active	400
(100) 2628860 Ontario Ltd.	SHERATON	672127	Multi-cell Mining Claim	3	2023-08-20	Active	1200
(100) 2628860 Ontario Ltd.	SHERATON	687203	Multi-cell Mining Claim	4	2023-11-28	Active	1600
(100) 2628860 Ontario Ltd.	THOMAS	688523	Multi-cell Mining Claim	8	2023-12-02	Active	3200

Appendix 3-Table Overburden Depth

DRILL HOLES USED FOR BEDROCK SURFACE

COMPANY_HO	FID	TWP_AREA	TYPE	COMPANY_NA	RGP_DISTRI	NTS	AZIMUTH	DIP	LENGTH	OVERBURDEN	YEAR_DRILL	X	Y	Z	BEDROCK_EL
177-8	0	MACKLEM	DIAMOND DRILL HOLE	DOME EXPL LTD	TIMMINS	42A07NW	187	-45	232.32	36.59	1983	509575	5367507	296	259
177-16	1	MACKLEM	DIAMOND DRILL HOLE	DOME EXPL LTD	TIMMINS	42A07NW	320	-45	92.68	5.49	1983	509328	5367408	291	286
QT86-122	2	MACKLEM	REVERSE CIRCULATION (SONIC)	KIDD CREEK MINES LTD	TIMMINS	42A07NW	0	-90	43.9	40.4	1986	511779	5368453	297	257
QT86-123	3	MACKLEM	REVERSE CIRCULATION (SONIC)	KIDD CREEK MINES LTD	TIMMINS	42A07NW	0	-90	67.1	65.5	1986	511611	5368456	297	232
QT86-124	4	MACKLEM	REVERSE CIRCULATION (SONIC)	KIDD CREEK MINES LTD	TIMMINS	42A07NW	0	-90	37.8	35.8	1986	511623	5368252	297	261
QT86-125	5	MACKLEM	REVERSE CIRCULATION (SONIC)	KIDD CREEK MINES LTD	TIMMINS	42A07NW	0	-90	38.1	36.4	1986	511644	5367992	296	260
QT86-126	6	MACKLEM	REVERSE CIRCULATION (SONIC)	KIDD CREEK MINES LTD	TIMMINS	42A07NW	0	-90	22.5	19.5	1986	511655	5367700	296	277
QT86-127	7	MACKLEM	REVERSE CIRCULATION (SONIC)	KIDD CREEK MINES LTD	TIMMINS	42A07NW	0	-90	23.9	22.4	1986	511639	5367421	295	273
QT86-128	8	MACKLEM	REVERSE CIRCULATION (SONIC)	KIDD CREEK MINES LTD	TIMMINS	42A07NW	0	-90	59.7	58.2	1986	511605	5368614	297	239
QT86-129	9	MACKLEM	REVERSE CIRCULATION (SONIC)	KIDD CREEK MINES LTD	TIMMINS	42A07NW	0	-90	50.9	49.2	1986	511627	5368805	297	248
QT86-130	10	MACKLEM	REVERSE CIRCULATION (SONIC)	KIDD CREEK MINES LTD	TIMMINS	42A07NW	0	-90	51.8	50.6	1986	511623	5369000	296	245
QT86-131	11	MACKLEM	REVERSE CIRCULATION (SONIC)	KIDD CREEK MINES LTD	TIMMINS	42A07NW	0	-90	43.9	42.5	1986	511617	5369233	296	254
QT86-132	12	MACKLEM	REVERSE CIRCULATION (SONIC)	KIDD CREEK MINES LTD	TIMMINS	42A07NW	0	-90	56.2	54.9	1986	511434	5369243	296	241
QT86-133	13	MACKLEM	REVERSE CIRCULATION (SONIC)	KIDD CREEK MINES LTD	TIMMINS	42A07NW	0	-90	42.7	41.1	1986	511429	5369015	295	254
QT86-134	14	MACKLEM	REVERSE CIRCULATION (SONIC)	KIDD CREEK MINES LTD	TIMMINS	42A07NW	0	-90	36.4	34.4	1986	511464	5368836	296	262
QT86-135	15	MACKLEM	REVERSE CIRCULATION (SONIC)	KIDD CREEK MINES LTD	TIMMINS	42A07NW	0	-90	56.1	54.1	1986	511156	5368649	295	241
QT86-136	16	MACKLEM	REVERSE CIRCULATION (SONIC)	KIDD CREEK MINES LTD	TIMMINS	42A07NW	0	-90	65.8	64.6	1986	511443	5368609	296	231
QT86-137	17	MACKLEM	REVERSE CIRCULATION (SONIC)	KIDD CREEK MINES LTD	TIMMINS	42A07NW	0	-90	39	37.4	1986	511438	5368453	297	260
MC-25-1	18	MACKLEM	DIAMOND DRILL HOLE	KIDD CREEK MINES LTD	TIMMINS	42A07NW	25	-50	384	35	1986	511285	5368428	296	261
MC-25-2	19	MACKLEM	DIAMOND DRILL HOLE	KIDD CREEK MINES LTD	TIMMINS	42A07NW	205	-50	300	47.3	1986	511457	5368768	296	249
MC-25-03	20	MACKLEM	DIAMOND DRILL HOLE	KIDD CREEK MINES LTD	TIMMINS	42A07NW	25	-50	251	85	1986	511436	5368501	296	211
SH-3B	21	SHERATON	DIAMOND DRILL HOLE	LAC MINERALS LTD	TIMMINS	42A07NW	0	-90	209.45	66.31	1986	515299	5361309	289	223
SH-5-A	22	SHERATON	DIAMOND DRILL HOLE	LAC MINERALS LTD	TIMMINS	42A07NW	0	-90	190.85	54.88	1985	516147	5362773	291	236
SH-TR-1	23	SHERATON	DIAMOND DRILL HOLE	LAC MINERALS LTD	TIMMINS	42A07NW	360	-65	300.91	119.51	1986	514553	5362341	290	170
RA-2	24	SHERATON	DIAMOND DRILL HOLE	COMINCO LTD	TIMMINS	42A07NW	360	-50	74.39	0	1986	516677	5364368	271	271
R-1	25	SHERATON	DIAMOND DRILL HOLE	COMINCO LTD	TIMMINS	42A07NW	360	-53	153.96	57.32	1971	516882	5364353	272	215
9	26	SHERATON	DIAMOND DRILL HOLE	MOREAU WOODARD & CO LTD	TIMMINS	42A07NW	330	-50	108.84	41.16	1967	516876	5364949	279	238
TH-83-1	27	THOMAS	DIAMOND DRILL HOLE	NORANDA EXPL LTD	TIMMINS	42A07NW	180	-57	361.59	91.46	1983	513229	5365485	298	207
T-76-8	28	THOMAS	DIAMOND DRILL HOLE	NORANDA EXPL CO LTD	TIMMINS	42A07NW	360	-55	375	89.94	1976	513539	5365348	299	209
65-1	29	THOMAS	DIAMOND DRILL HOLE	MARKAY MINING CORPORATION LTD	TIMMINS	42A07NW	270	-45	185.37	9.76	1965	511302	5365483	291	281
65-2	30	THOMAS	DIAMOND DRILL HOLE	MARKAY MINING CORPORATION LTD	TIMMINS	42A07NW	180	-45	94.51	1.83	1965	511428	5365912	291	289
310-1	31	THOMAS	DIAMOND DRILL HOLE	PLACER DOME INC	TIMMINS	42A07NW	225	-45	114.6	3.05	1988	510331	5361306	286	283
R-2	32	SHERATON	DIAMOND DRILL HOLE	COMINCO LTD	TIMMINS	42A07NW	360	-50	74.39	0	1974	516689	5364430	272	272
R-2A	33	SHERATON	DIAMOND DRILL HOLE	COMINCO LTD	TIMMINS	42A07NW	360	-65	168.6	51.83	1974	516684	5364430	272	220
B-84-14	34	BOND	REVERSE CIRCULATION (SONIC)	NORANDA EXPL CO LTD	TIMMINS	42A07NE	0	-90	31.4	30.18	1984	518838	5369650	257	227
B-84-15	35	BOND	REVERSE CIRCULATION (SONIC)	NORANDA EXPL CO LTD	TIMMINS	42A07NE	0	-90	30.49	29.57	1984	518648	5369673	256	226
B-84-16	36	BOND	REVERSE CIRCULATION (SONIC)	NORANDA EXPL CO LTD	TIMMINS	42A07NW	0	-90	57.32	56.71	1984	518231	5369630	258	201
B-84-17	37	BOND	REVERSE CIRCULATION (SONIC)	NORANDA EXPL CO LTD	TIMMINS	42A07NW	0	-90	49.39	48.48	1984	517846	5369663	270	222
B-84-18	38	BOND	REVERSE CIRCULATION (SONIC)	NORANDA EXPL CO LTD	TIMMINS	42A07NW	0	-90	43.6	42.68	1984	517435	5369651	271	228
B-84-19	39	BOND	REVERSE CIRCULATION (SONIC)	NORANDA EXPL CO LTD	TIMMINS	42A07NW	0	-90	41.16	39.94	1984	517052	5369666	270	230
B-84-20	40	BOND	REVERSE CIRCULATION (SONIC)	NORANDA EXPL CO LTD	TIMMINS	42A07NW	0	-90	32.62	31.71	1984	516682	5369630	267	235
B-84-21	41	BOND	REVERSE CIRCULATION (SONIC)	NORANDA EXPL CO LTD	TIMMINS	42A07NW	0	-90	51.52	50.61	1984	516260	5369657	280	229
72-1	42	BOND	DIAMOND DRILL HOLE	SEAWAY COPPER MINES LTD	TIMMINS	42A07NE	350	-50	260.82	41.16	1972	519898	5366542	259	218
72-3	43	BOND	DIAMOND DRILL HOLE	SEAWAY COPPER MINES LTD	TIMMINS	42A07NE	350	-50	184.76	46.34	1972	519817	5366495	261	215
72-4	44	BOND	DIAMOND DRILL HOLE	SEAWAY COPPER MINES LTD	TIMMINS	42A07NE	350	-50	214.02	39.63	1972	520036	5366506	259	219
72-5	45	BOND	DIAMOND DRILL HOLE	SEAWAY COPPER MINES LTD	TIMMINS	42A07NE	360	-50	182.93	57.93	1972	519589	5366539	265	207

DRILL HOLES USED FOR BEDROCK SURFACE

COMPANY_HO	FID	TWP_AREA	TYPE	COMPANY_NA	RGP_DISTRI	NTS	AZIMUTH	DIP	LENGTH	OVERBURDEN	YEAR_DRILL	X	Y	Z	BEDROCK_EL
72-7	46	BOND	DIAMOND DRILL HOLE	SEAWAY COPPER MINES LTD	TIMMINS	42A07NE	68	-50	160.06	16.77	1972	520064	5367335	257	240
1	47	BOND	DIAMOND DRILL HOLE	CONSOLIDATED MANITOBA MINES LTD	TIMMINS	42A07NE	360	-45	245.12	3.66	1969	520676	5369758	266	262
2	48	BOND	DIAMOND DRILL HOLE	CONSOLIDATED MANITOBA MINES LTD	TIMMINS	42A07NE	360	-45	132.32	29.88	1969	520474	5369593	271	241
4	49	BOND	DIAMOND DRILL HOLE	MOREAW WOODARD & CO	TIMMINS	42A07NE	360	-45	171.34	18.29	1966	521113	5366456	268	250
1	50	BOND	DIAMOND DRILL HOLE	MOREAU WOODARD & CO	TIMMINS	42A07NE	332	-50	223.17	32.93	1966	519848	5366568	260	227
2	51	BOND	DIAMOND DRILL HOLE	MOREAU WOODARD & CO	TIMMINS	42A07NE	360	-50	168.9	34.15	1966	520017	5366589	260	226
3	52	BOND	DIAMOND DRILL HOLE	MOREAU WOODARD & CO	TIMMINS	42A07NE	152	-50	120.73	34.15	1966	519985	5366628	260	226
10	53	BOND	DIAMOND DRILL HOLE	MOREAU WOODARD & CO	TIMMINS	42A07NE	330	-50	152.44	34.76	1966	519796	5366549	262	227
UB-87-02	54	SHERATON	DIAMOND DRILL HOLE	UNIGOLD RESC LTD	TIMMINS	42A07NE	330	-60	483	51.9	1987	519644	5366343	265	213
UB-87-3	55	SHERATON	DIAMOND DRILL HOLE	UNIGOLD RESC LTD	TIMMINS	42A07NE	330	-65	222	58.7	1987	519084	5366223	262	203
UB-87-5	56	SHERATON	DIAMOND DRILL HOLE	UNIGOLD RESC LTD	TIMMINS	42A07NE	330	-60	180	33.5	1987	519080	5366114	262	229
UB-87-6	57	SHERATON	DIAMOND DRILL HOLE	UNIGOLD RESC LTD	TIMMINS	42A07NE	330	-65	291	65.1	1987	518962	5366122	261	196
UB-87-1	58	BOND	DIAMOND DRILL HOLE	UNIGOLD RESC LTD	TIMMINS	42A07NE	327	0	40	0	1987	519514	5366471	265	265
72-2	59	SHERATON	DIAMOND DRILL HOLE	SEAWAY COPPER MINES LTD	TIMMINS	42A07NE	350	-50	208.84	46.04	1972	519921	5366402	259	213
72-6	60	SHERATON	DIAMOND DRILL HOLE	SEAWAY COPPER MINES LTD	TIMMINS	42A07NE	360	-60	175.61	19.82	1972	520800	5365870	274	254
3	61	BOND	DIAMOND DRILL HOLE	CONS MANITOBA MINES LTD	TIMMINS	42A07NE	360	-45	121.95	13.41	1969	518864	5369003	254	241
1-A	62	MACKLEM	REVERSE CIRCULATION (SONIC)	HILTON RESC CORP	TIMMINS	42A07NW	0	-90	10.37	0	1986	510713	5367458	295	295
1-B	63	MACKLEM	REVERSE CIRCULATION (SONIC)	HILTON RESC CORP	TIMMINS	42A07NW	0	-90	11.59	10.37	1986	510713	5367457	295	285
2	64	MACKLEM	REVERSE CIRCULATION (SONIC)	HILTON RESC CORP	TIMMINS	42A07NW	0	-90	7.32	6.25	1986	510634	5367475	295	289
3	65	MACKLEM	REVERSE CIRCULATION (SONIC)	HILTON RESC CORP	TIMMINS	42A07NW	0	-90	14.63	13.11	1986	510436	5367453	296	283
4	66	MACKLEM	REVERSE CIRCULATION (SONIC)	HILTON RESC CORP	TIMMINS	42A07NW	0	-90	7.93	6.71	1986	510503	5367554	295	288
5	67	MACKLEM	REVERSE CIRCULATION (SONIC)	HILTON RESC CORP	TIMMINS	42A07NW	0	-90	10.37	8.54	1986	510621	5367558	295	286
6	68	MACKLEM	REVERSE CIRCULATION (SONIC)	HILTON RESC CORP	TIMMINS	42A07NW	0	-90	53.05	50.91	1986	510720	5367994	294	243
7	69	MACKLEM	REVERSE CIRCULATION (SONIC)	HILTON RESC CORP	TIMMINS	42A07NW	0	-90	47.56	47.26	1986	510578	5368023	294	247
8	70	MACKLEM	REVERSE CIRCULATION (SONIC)	HILTON RESC CORP	TIMMINS	42A07NW	0	-90	45.12	43.9	1986	510416	5368105	293	249
9	71	MACKLEM	REVERSE CIRCULATION (SONIC)	HILTON RESC CORP	TIMMINS	42A07NW	0	-90	34.76	33.23	1986	510355	5368174	293	260
MAC-85-1	72	MACKLEM	DIAMOND DRILL HOLE	UNITED KINGDOM ENERGY INC	TIMMINS	42A07NW	45	-50	346.65	76.83	1985	511089	5367842	295	218
MAC-85-2	73	MACKLEM	DIAMOND DRILL HOLE	UNITED KINGDOM ENERGY INC	TIMMINS	42A07NW	45	-52	407.32	59.76	1985	511159	5367781	295	235
MAC-85-3	74	MACKLEM	DIAMOND DRILL HOLE	UNITED KINGDOM ENERGY INC	TIMMINS	42A07NW	65	-50	277.13	39.63	1985	511244	5368087	296	256
BO-82-20	75	BOND	REVERSE CIRCULATION (SONIC)	WESTMIN RESC LTD	TIMMINS	42A07NW	0	-90	42.37	39.7	1982	518009	5368786	262	222
B-82-01	76	BOND	DIAMOND DRILL HOLE	WESTMIN RESOURCES LTD	TIMMINS	42A07NW	360	-50	330	75	1982	518023	5368530	261	186
UB-87-1-2	77	BOND	DIAMOND DRILL HOLE	UNIGOLD RESOURCES LTD	TIMMINS	42A07NE	330	-70	261	42.1	1987	519569	5366583	264	222
UB-87-4	78	BOND	DIAMOND DRILL HOLE	UNIGOLD RESOURCES LTD	TIMMINS	42A07NE	330	-60	166	50.1	1987	519457	5366713	262	212
BO-82-12	79	BOND	REVERSE CIRCULATION (SONIC)	WESTMIN RESC LTD	TIMMINS	42A07NW	0	-90	48.78	48.78	1982	518205	5368425	268	219
BO-82-15	80	BOND	REVERSE CIRCULATION (SONIC)	WESTMIN RESC LTD	TIMMINS	42A07NW	0	-90	45.73	42.68	1982	518293	5368548	272	229
BO-82-16	81	BOND	REVERSE CIRCULATION (SONIC)	WESTMIN RESC LTD	TIMMINS	42A07NW	0	-90	44.21	42.38	1982	518058	5368438	264	222
BO-82-17	82	BOND	REVERSE CIRCULATION (SONIC)	WESTMIN RESC LTD	TIMMINS	42A07NW	0	-90	73.17	72	1982	517807	5369066	271	199
BO-82-18	83	BOND	REVERSE CIRCULATION (SONIC)	WESTMIN RESC LTD	TIMMINS	42A07NW	0	-90	43.29	42	1982	518228	5369059	260	218
BO-82-19	84	BOND	REVERSE CIRCULATION (SONIC)	WESTMIN RESC LTD	TIMMINS	42A07NW	0	-90	39.02	37.6	1982	518009	5368922	268	230
2	85	SHERATON	DIAMOND DRILL HOLE	R JARVI	TIMMINS	42A07NE	90	-50	129.27	37.5	1967	521363	5361848	281	244
CLS-93-1	86	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	90	-50	190	60	1993	518489	5363000	262	202
CLS 93-4	87	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	90	-50	134	66	1994	517458	5362298	278	212
CLS 93-3	88	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	90	-50	193.12	33	0	518438	5362418	265	232
CLS 93-2	89	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NE	90	-50	185.2	26	1993	518757	5362610	261	235
B-97-8	90	BOND	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NE	7	-46	237	28.7	1997	519401	5366739	262	233
CLS-97-1	91	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	135	-50	344	48.1	1997	517353	5363747	272	224

DRILL HOLES USED FOR BEDROCK SURFACE

COMPANY_HO	FID	TWP_AREA	TYPE	COMPANY_NA	RGP_DISTRI	NTS	AZIMUTH	DIP	LENGTH	OVERBURDEN	YEAR_DRILL	X	Y	Z	BEDROCK_EL
CLS-97-2	92	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	90	-50	107	51.6	1997	517742	5363520	271	219
CLS-97-3	93	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	270	-50	296	39	1997	517919	5363520	266	227
SKG-97-6	94	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT LTD	TIMMINS	42A07NW	145	-45	461	12.6	1997	518363	5365751	261	248
SKG-97-7	95	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NW	338	-45	311	15	1997	518207	5365268	264	249
SKG-97-8	96	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NW	342	-56	332	51	1997	516788	5363435	282	231
SKG-97-9	97	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NW	339	-50	326	57	1997	516941	5363465	283	226
SKG-97-10	98	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NW	151	-50	449	51	1997	516774	5363569	280	229
SKG-97-11	99	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NW	330	-50	302	57	1997	516949	5363866	275	218
SKG-97-12	100	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NW	339	-44	326	11.65	1997	518125	5365161	264	252
SKG-97-13	101	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NW	335	-44	374	20.7	1997	518210	5365042	262	241
SKG-97-14	102	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NW	335	-46	224	34	1997	517548	5364911	275	241
SKG-97-15	103	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NW	336	-42	200	32.45	1997	517758	5365126	269	237
SKG-97-16	104	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NW	151	-53	296	42.8	1997	516957	5363558	281	238
B-97-1	105	BOND	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NE	360	-52	239	45	1997	518934	5370006	257	212
B-97-1A	106	BOND	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NE	180	-50	116	44.6	1997	518934	5370006	257	212
B-97-2	107	BOND	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NE	360	-52	311	51	1997	518799	5369442	257	206
B-97-3	108	BOND	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NE	360	-50	263	42	1997	520131	5367452	260	218
B-97-4	109	BOND	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NE	180	-50	224	40.7	1997	518971	5369231	257	216
B-97-5	110	BOND	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NE	360	-48	281	12	1997	519074	5368976	260	248
B-97-6	111	BOND	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NE	360	-50	83	3.6	1997	519255	5368978	260	256
B-97-7	112	BOND	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NE	357	-48	263	30.55	1997	520530	5367838	266	235
M97-1	113	MACKLEM	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC INC	TIMMINS	42A07NW	185	-51	206	48	1997	510542	5367057	294	246
M97-2	114	MACKLEM	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NW	180	-52	224	42	1997	511090	5367405	295	253
CLS-97-6	115	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NW	295	0	377	0	1997	516664	5363261	289	289
CLS-97-7	116	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NW	295	0	476	0	1997	516986	5363393	282	282
CLS-97-8	117	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NW	295	0	374	0	1997	516808	5363378	283	283
CLS-97-14	118	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NW	295	0	203	0	1997	516512	5363344	289	289
SK-97-1	119	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NE	325	-46	332	48.9	1997	518579	5364753	262	213
SKG-97-2	120	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NW	338	-47	302	17	1997	517856	5365352	269	252
SKG-97-3	121	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NW	337	-48	350	36.6	1997	518396	5365314	259	222
SKG-97-4	122	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NW	148	-50	200	39	1997	518408	5364933	261	222
SKG-97-5	123	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC LTD	TIMMINS	42A07NW	340	-44	404	32	1997	517805	5365234	269	237
CLS97-21	124	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-55	392	42	1997	517521	5363612	272	230
CLS97-22	125	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	135	-50	551	41.4	1997	517193	5363835	273	232
CLS97-23	126	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	425	57	1997	517466	5363459	276	219
CLS97-24	127	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	329	46.8	1997	517520	5363655	271	224
CLS97-25	128	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	335	45	1997	517442	5363547	273	228
CLS97-26	129	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	126	55	1997	517716	5363212	272	217
CLS97-26A	130	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-58	496	60	1997	517716	5363212	272	212
CLS97-27	131	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	330	-50	542	59.5	1997	517084	5363138	285	226
CLS97-28	132	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	704	75	1997	517183	5362961	284	209
CLS97-29	133	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	419	53.4	1997	517478	5363511	274	221
CLS97-30	134	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	479.3	52	1997	517499	5363427	276	224
CLS97-31	135	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	461	56	1997	517410	5363406	277	221
CLS97-32	136	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	497	53	1997	517384	5363381	278	225
CLS97-33	137	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-60	512	48	1997	517559	5363516	274	226

DRILL HOLES USED FOR BEDROCK SURFACE

COMPANY_HO	FID	TWP_AREA	TYPE	COMPANY_NA	RGP_DISTRI	NTS	AZIMUTH	DIP	LENGTH	OVERBURDEN	YEAR_DRILL	X	Y	Z	BEDROCK_EL
CLS97-34	138	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	320	47	1997	517499	5363634	271	224
CLS97-35	139	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	395	43.5	1997	517553	5363621	272	229
CLS98-36	140	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	330	-60	629	64	1998	516782	5362812	291	227
CLS98-37	141	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	312	-50	452	51	1998	517556	5363512	274	223
CLS98-38	142	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	506	57	1998	517513	5363475	275	218
CLS98-39	143	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	653	62	1998	517380	5363250	280	218
CLS98-40	144	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	257	46	1998	517562	5363767	266	220
CLS98-41	145	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	92	33	1998	517598	5363731	266	233
CLS98-41A	146	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	65	33	1998	517598	5363731	266	233
CLS98-41B	147	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	275	33.3	1998	517605	5363724	266	233
CLS98-42	148	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	254	33.8	1998	517536	5363744	266	232
CLS98-43	149	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	194	44	1998	517594	5363784	267	223
CLS98-44	150	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	299	47.2	1998	517680	5363700	268	221
CLS98-45	151	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	359	39	1998	517643	5363781	267	228
CLS98-46	152	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	302	45	1998	517607	5363671	270	225
CLS98-47	153	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	230	40	1998	517621	5363756	266	226
CLS98-48	154	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-56	494	48	1998	517536	5363504	274	226
CLS98-49	155	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	149	33	1998	517508	5363772	266	233
CLS98-50	156	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-45	209	45	1998	517519	5363709	269	224
CLS98-51	157	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-45	191	36	1998	517490	5363737	268	232
CLS98-52	158	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-45	197	48	1998	517496	5363693	270	222
CLS97-13	159	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	320	-50	275	33	1997	517820	5364246	275	242
CLS97-4	160	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	322	-47	350	45.5	1997	517552	5363673	270	225
CLS97-5	161	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	320	-48	305.35	54	1997	517261	5363559	278	224
CLS97-6	162	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	333	-50	377	62.2	1997	516598	5362836	292	230
CLS97-7	163	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	330	-50	476	65	1997	516858	5363029	289	224
CLS97-8	164	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	330	-50	374	63	1997	516689	5363091	290	227
CLS97-9	165	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	356	42	1997	517713	5363793	269	227
CLS97-10	166	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	313	-50	686	58.8	1997	517665	5363371	273	214
CLS97-11	167	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	290	52.6	1997	517206	5363511	280	227
CLS97-12	168	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	352	42	1997	517429	5363602	272	230
CLS97-14	169	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	330	-56	203	66	1997	516184	5362872	291	225
CLS97-15	170	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	330	-50	227	59	1997	517103	5363405	281	222
CLS97-16	171	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	140	-50	437	37	1997	517307	5363819	270	233
CLS97-17	172	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-65	493	39	1997	517465	5363567	272	233
CLS97-18	173	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	135	-50	479	43	1997	517270	5363856	270	227
CLS97-19	174	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	135	-50	374	32	1997	517371	5363854	267	235
CLS97-20	175	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	135	-50	443	44.5	1997	517286	5363798	271	227
MAP-00-1	176	THOMAS	DIAMOND DRILL HOLE	MAPLE MINERALS INC	TIMMINS	42A07NW	330	-50	104.6	48	2000	513671	5362792	284	236
MAP-00-2	177	THOMAS	DIAMOND DRILL HOLE	MAPLE MINERALS INC	TIMMINS	42A07NW	160	-50	176	68	2000	513636	5362836	286	218
MAP-00-3	178	THOMAS	DIAMOND DRILL HOLE	MAPLE MINERALS INC	TIMMINS	42A07NW	180	-50	142	63	2000	513761	5362768	285	222
MAP-00-4	179	SHERATON	DIAMOND DRILL HOLE	MAPLE MINERALS INC	TIMMINS	42A07NW	320	-55	77	57	2000	514472	5361452	291	234
MAP-00-5	180	SHERATON	DIAMOND DRILL HOLE	MAPLE MINERALS INC	TIMMINS	42A07NW	160	-50	230	81	2000	514355	5361558	291	210
SHER52-02	181	SHERATON	DIAMOND DRILL HOLE	FALCONBRIDGE LTD	TIMMINS	42A07NW	330	-55	215.01	57	2002	515971	5364676	278	221
SHER52-01	182	SHERATON	DIAMOND DRILL HOLE	FALCONBRIDGE LTD	TIMMINS	42A07NW	330	-55	227.01	40	2002	516483	5364184	274	234
SHER52-03	183	SHERATON	DIAMOND DRILL HOLE	FALCONBRIDGE LTD	TIMMINS	42A07NW	328	-50	240	32	2003	516711	5364117	270	238

DRILL HOLES USED FOR BEDROCK SURFACE

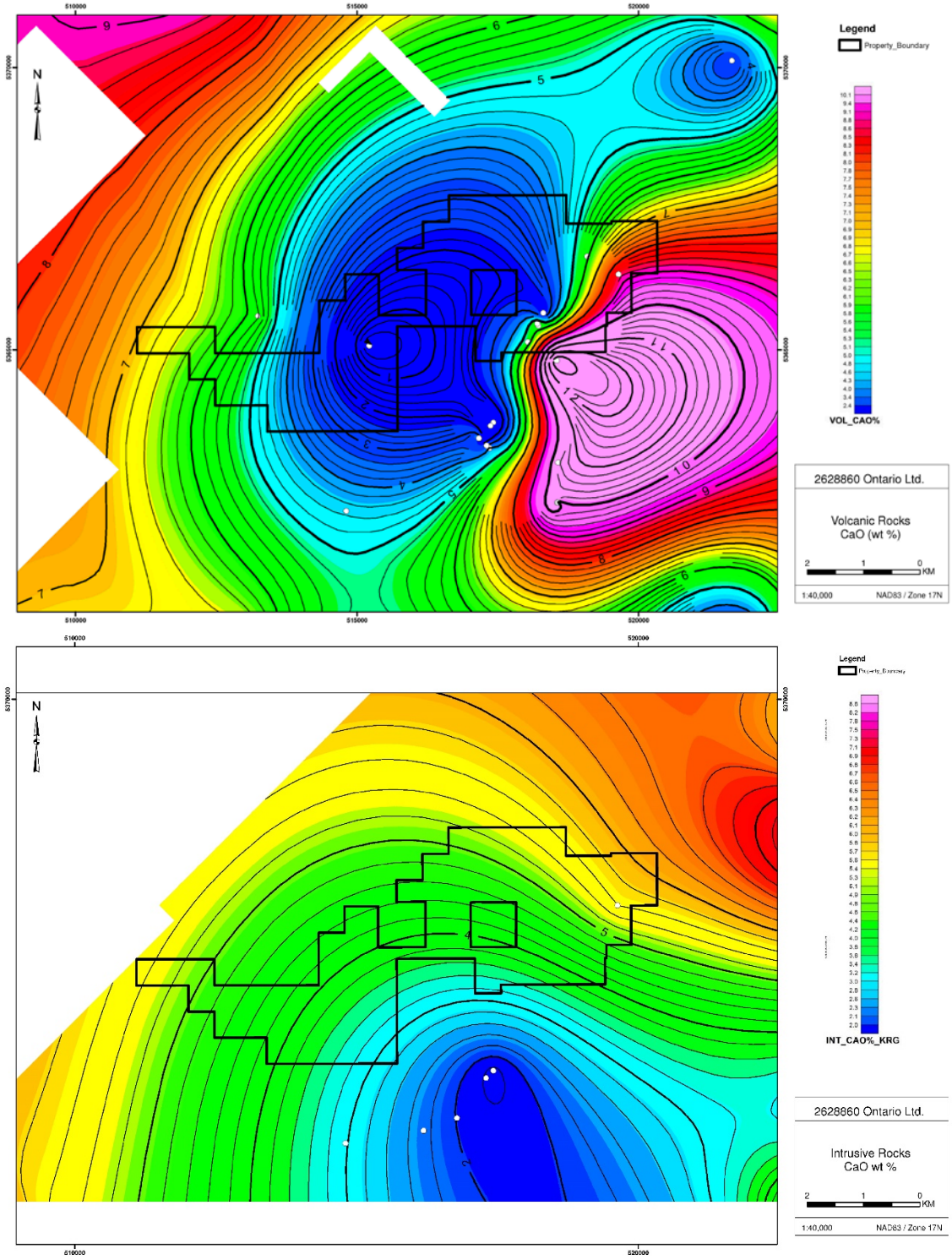
COMPANY_HO	FID	TWP_AREA	TYPE	COMPANY_NA	RGP_DISTRI	NTS	AZIMUTH	DIP	LENGTH	OVERBURDEN	YEAR_DRILL	X	Y	Z	BEDROCK_EL
ML-1-97	184	MACKLEM	DIAMOND DRILL HOLE	LEADER MINING INTL INC	TIMMINS	42A07NW	360	-50	359	55	1997	510633	5368477	293	238
ML-2-97	185	MACKLEM	DIAMOND DRILL HOLE	LEADER MINING INTL INC	TIMMINS	42A07NW	360	-50	392	51	1997	510531	5368396	293	242
ML-3-97	186	MACKLEM	DIAMOND DRILL HOLE	LEADER MINING INTL INC	TIMMINS	42A07NW	45	-50	378.25	61	1997	510823	5368407	294	233
B98-9	187	BOND	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC INC	TIMMINS	42A07NE	330	-50	221	32	1998	519736	5367655	260	228
SK97-17	188	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC INC	TIMMINS	42A07NW	337	-51	326	75	1997	517028	5363498	280	205
SK97-18	189	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC INC	TIMMINS	42A07NW	328	-51	230	61	1997	517055	5363575	279	218
SK97-19	190	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC INC	TIMMINS	42A07NW	329	-52	416	71	1997	517023	5363396	282	211
SK97-20	191	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC INC	TIMMINS	42A07NW	334	-50	320	69	1997	517122	5363524	279	210
SK98-21	192	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC INC	TIMMINS	42A07NW	150	-50	434	111.5	1998	514369	5363352	295	184
SK98-22	193	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC INC	TIMMINS	42A07NW	360	-50	257	45	1998	516299	5365104	274	229
SK98-23	194	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC INC	TIMMINS	42A07NW	360	-50	254	36.5	1998	517121	5365114	287	251
SK98-24	195	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC INC	TIMMINS	42A07NW	330	-50	563	58.3	1998	517137	5363307	282	224
SK98-25	196	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC INC	TIMMINS	42A07NW	330	-50	452	66	1998	515306	5361898	290	224
SK98-26	197	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC INC	TIMMINS	42A07NW	330	-50	245	75	1998	515233	5361587	290	215
SK98-27	198	SHERATON	DIAMOND DRILL HOLE	GOLDEN KNIGHT RESC INC	TIMMINS	42A07NW	330	-50	323	75	1998	515323	5361394	289	214
CLS98-54	199	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	280	-50	737	73	1998	515674	5361735	289	216
CLS97-27	200	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	330	-50	542	59.5	1997	517205	5363386	280	221
CLS98-53	201	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-50	503	54	1998	517540	5363599	272	218
CLS98-54	202	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	280	-50	737	73	1998	515742	5361729	289	216
CLS98-55	203	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	330	-50	374	70	1998	516441	5362647	287	217
CLS98-56	204	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	330	-50	385	64	1998	516506	5362667	289	225
CLS98-57	205	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	330	-50	641	59.8	1998	516829	5362821	290	230
CLS98-58	206	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	330	-50	485	95	1998	516274	5362540	288	193
CLS98-59	207	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	315	-65	840	54	1998	517423	5363469	275	221
CLS98-60	208	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	330	-60	391	68.5	1998	516291	5362649	290	222
CLS98-61	209	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	330	-50	188	81	1998	515976	5362269	290	209
CLS98-62	210	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	360	-50	558	81	1998	516685	5362637	288	207
CLS98-63	211	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	360	-70	701	55	1998	517374	5363621	273	218
CLS98-64	212	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	360	-70	879.2	63	1998	517229	5363336	281	218
CLS98-65	213	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	330	-50	200	39.1	1998	517177	5364927	284	245
CLS98-66	214	SHERATON	DIAMOND DRILL HOLE	CROSS LAKE MINERALS LTD	TIMMINS	42A07NW	330	-50	212	33	1998	517924	5364284	273	240
BO-82-13	215						0	-90	39.63	36.59	0	518390	5368434	271	234
BO-82-14	216						0	-90	38.41	36.28	0	518532	5368437	268	232
177-17	217						320	-60	187.5	3.05	0	509181	5367197	297	294
177-13	218						320	-50	65.24	2.44	0	508961	5366971	298	296
177-9	219						320	-50	133.23	7.93	0	509072	5366936	300	294
NH-11-04	220						345	-50	104	3	0	509145	5367164	300	298
177-10	221						320	-45	86.59	6.71	0	509078	5367073	300	295
177-11	222						320	-45	92.68	2.44	0	508993	5366980	299	297
177-12	223						320	-45	77.44	2.44	0	508924	5366912	297	295
177-14	224						320	-45	114.02	8.54	0	509140	5367080	300	294
177-15	225						320	-45	61.89	4.27	0	509173	5367144	300	297
177-2	226						320	-45	96.65	3.66	0	509036	5367097	299	296
177-4	227						230	-45	115.85	3.05	0	510706	5366115	293	291
177-5	228						230	-45	117.38	3.66	0	509859	5366818	298	295
177-6	229						7	-45	270.43	6.1	0	509424	5366868	300	296

DRILL HOLES USED FOR BEDROCK SURFACE

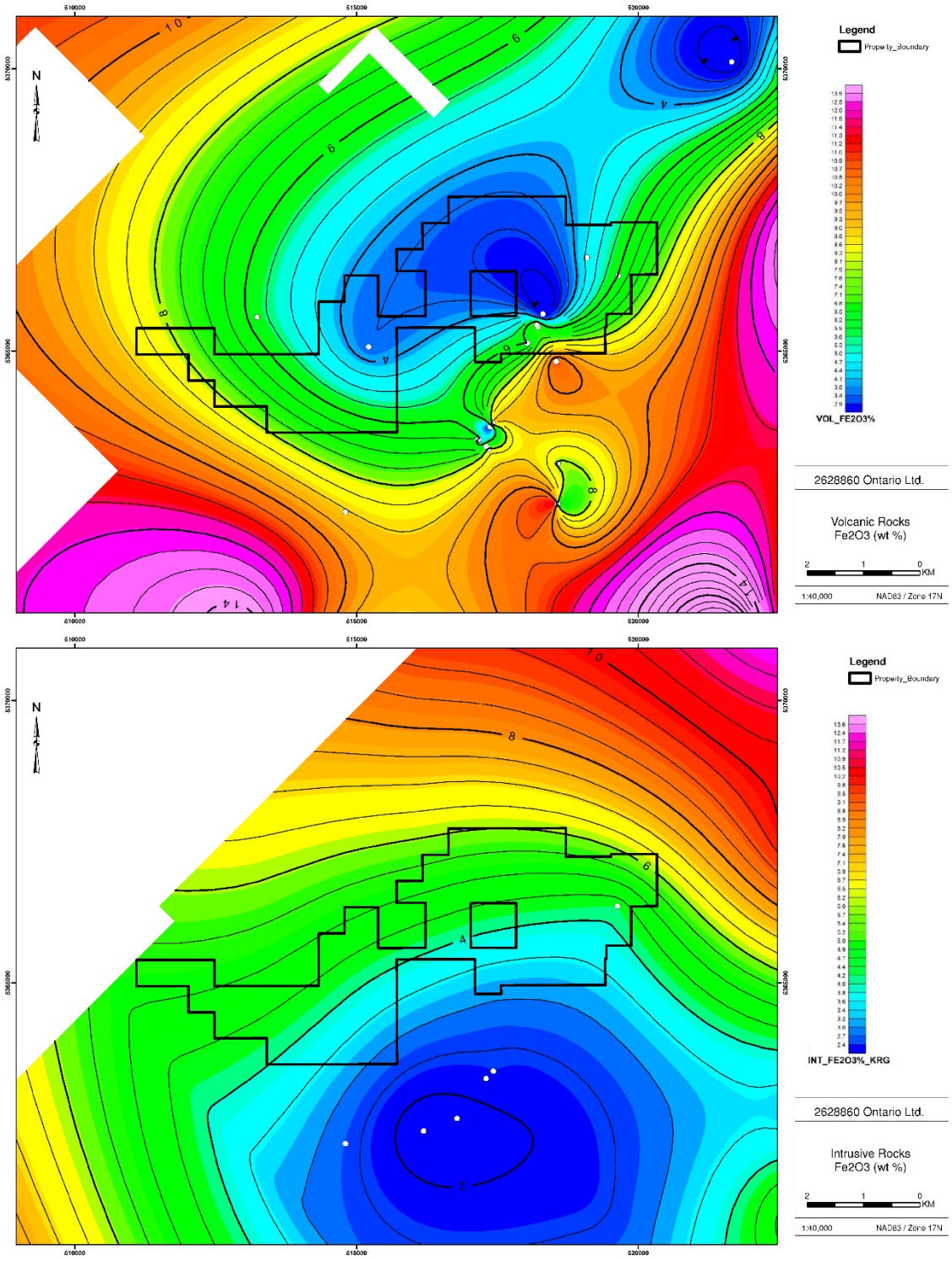
COMPANY_HO	FID	TWP_AREA	TYPE	COMPANY_NA	RGP_DISTRI	NTS	AZIMUTH	DIP	LENGTH	OVERBURDEN	YEAR_DRILL	X	Y	Z	BEDROCK_EL
177-7	230						187	-45	178.35	6.71	0	509447	5366935	300	295
65-3	231						45	-45	173.63	1.83	0	510223	5366233	293	292
NH-11-01	232						330	-45	101	0	0	509852	5366637	298	298
NH-11-02	233						30	-45	98	1.5	0	509850	5366224	295	294
NH-11-03	234						360	-45	101	5	0	509440	5366900	299	295

Appendix 4- Geochemical colour contoured grid maps

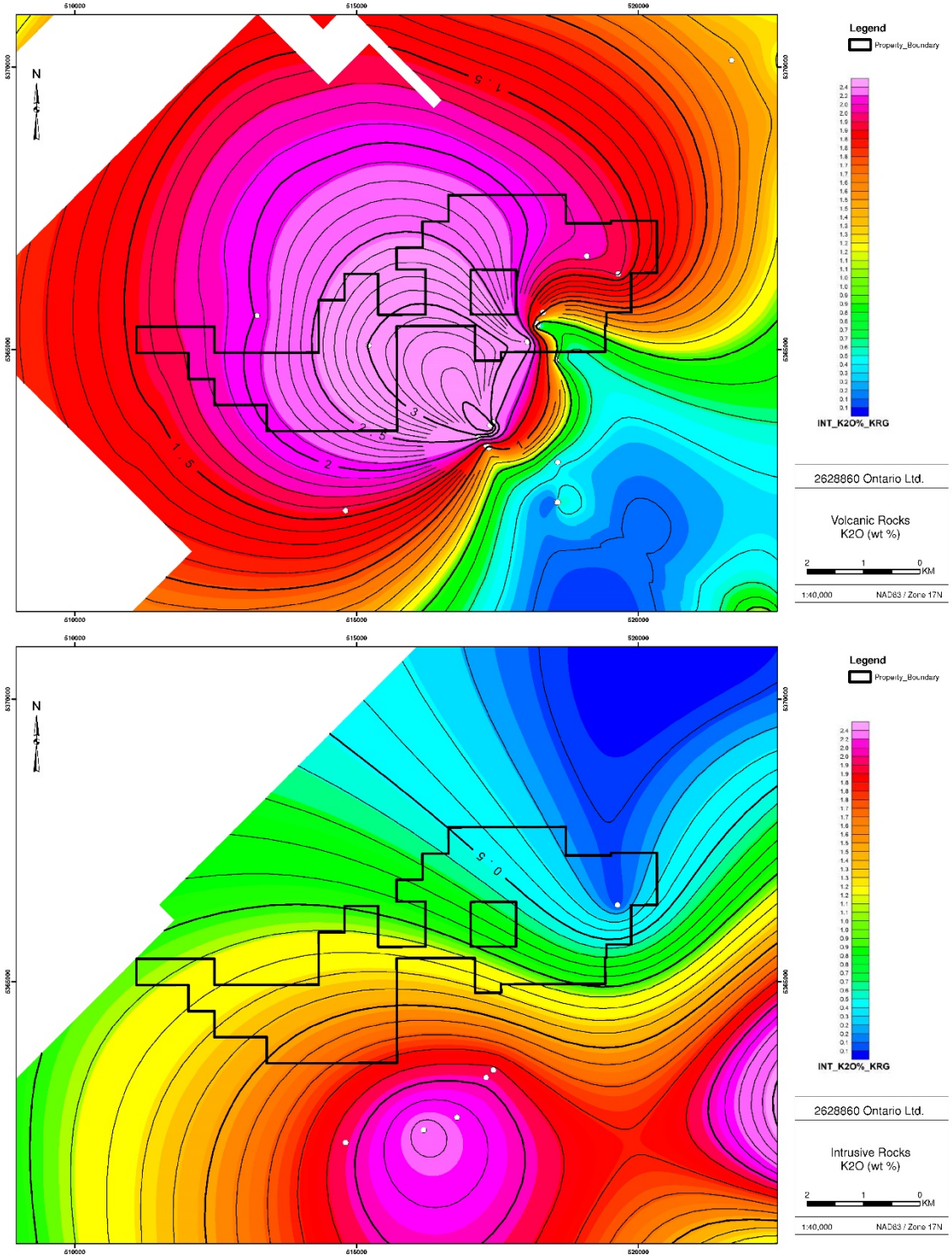
Appendix 4: Geochemical colour-contoured grid maps



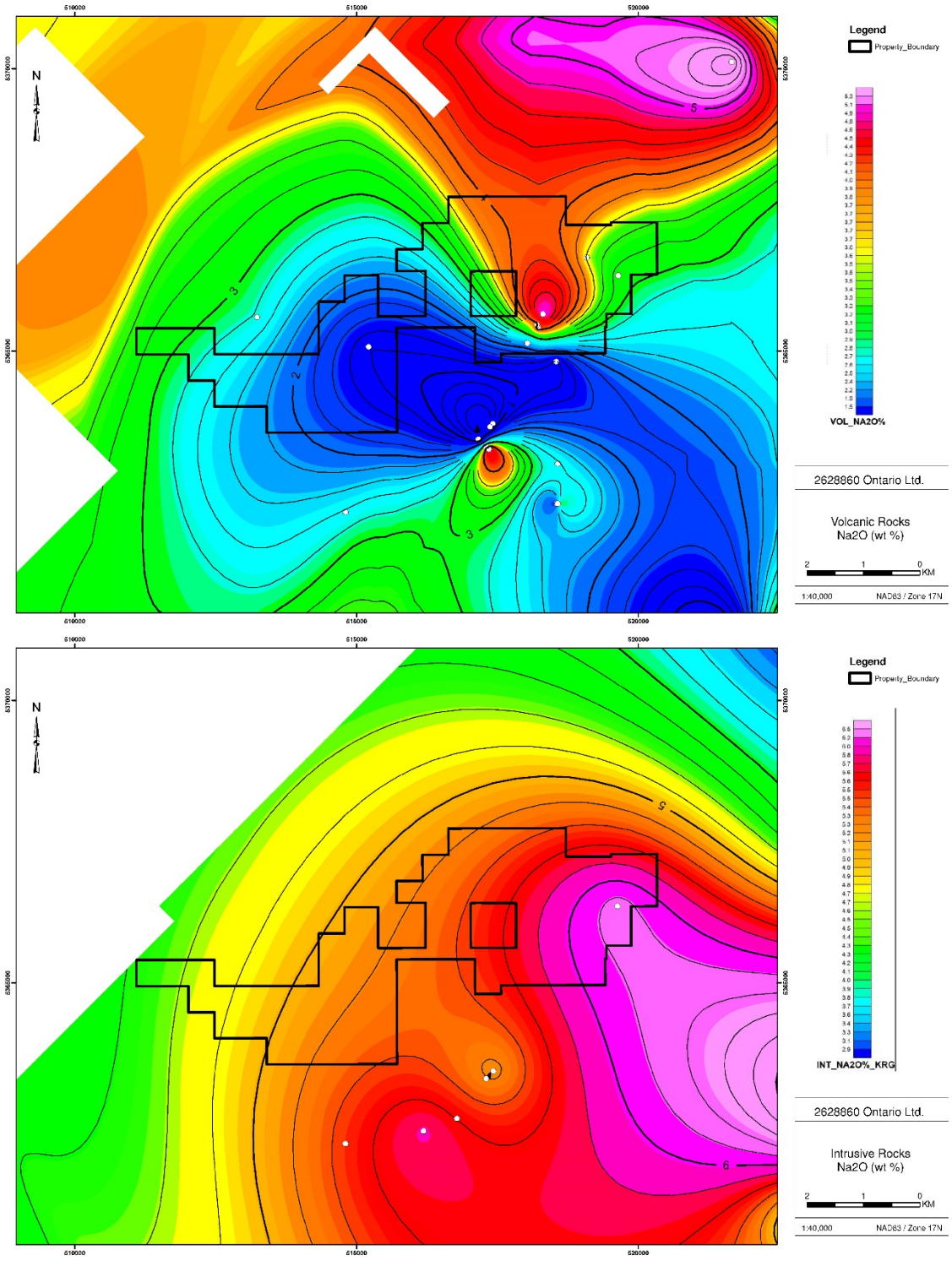
Geochemical colour-contoured grid maps: CaO wt% in Volcanic Rocks (top) and Intrusive Rocks (lower).



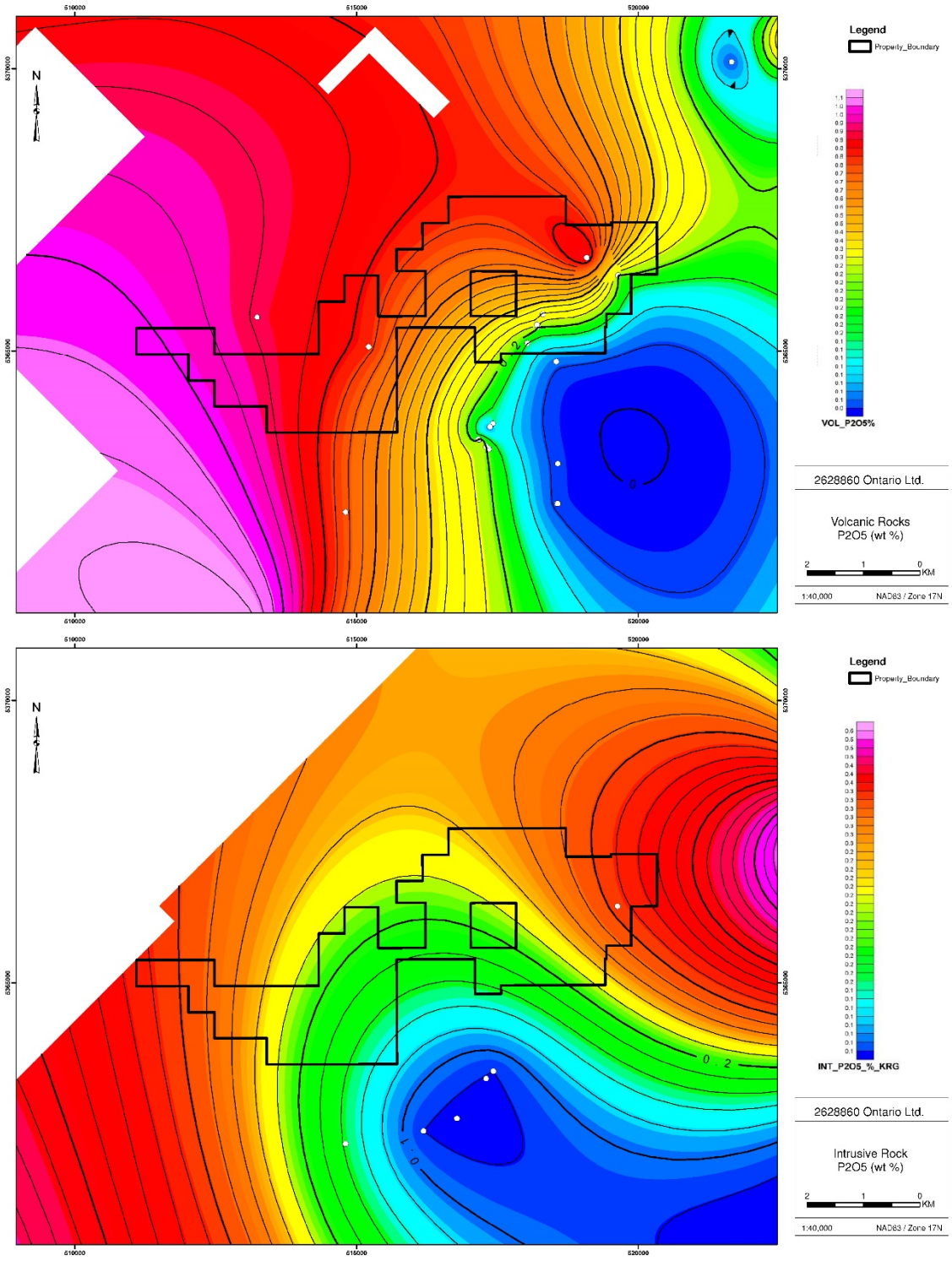
Geochemical colour-contoured grid maps: Fe2O3 wt% in Volcanic Rocks (top) and Intrusive Rocks (lower).



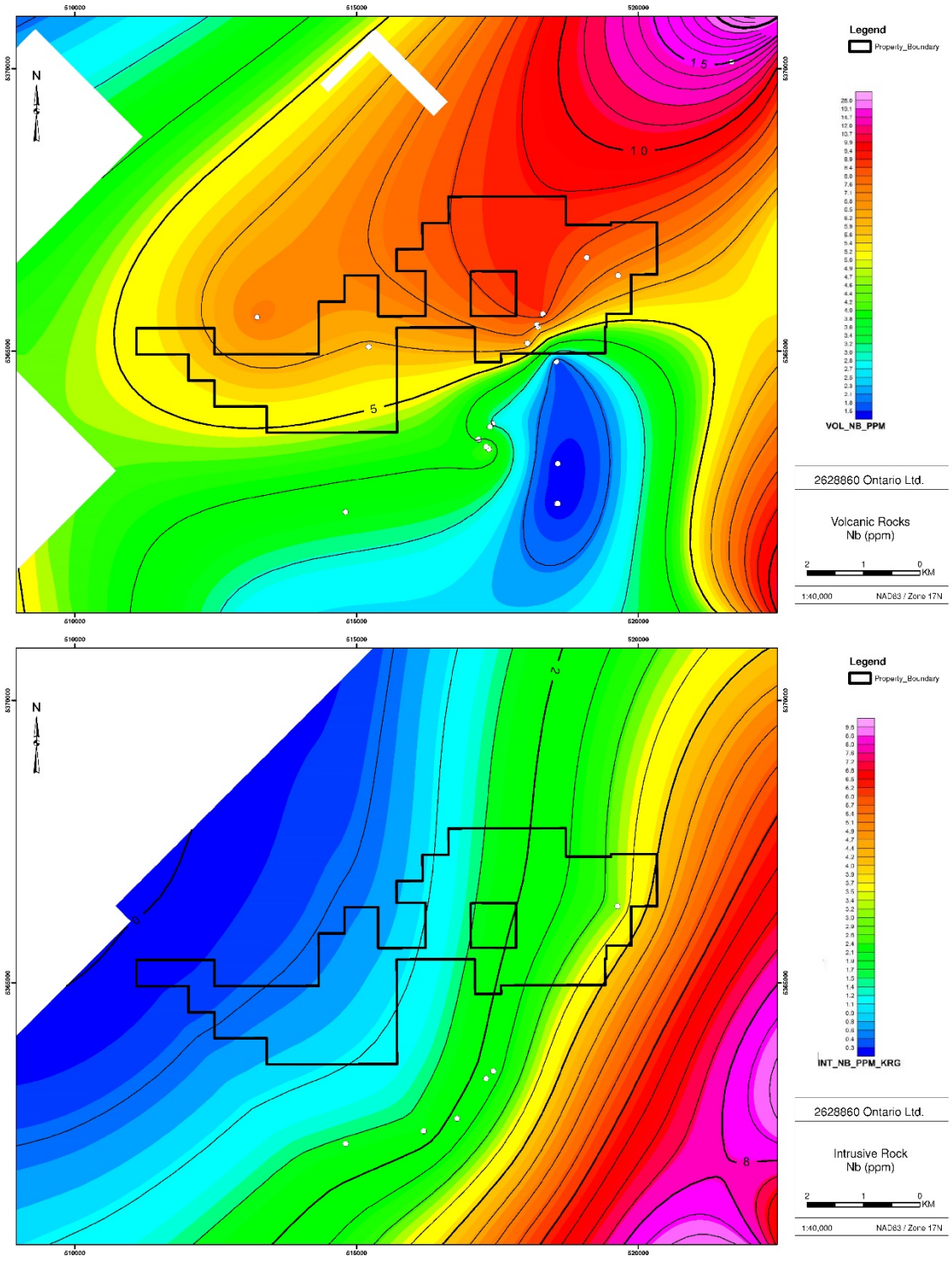
Geochemical colour-contoured grid maps: K2O wt% in Volcanic Rocks (top) and Intrusive Rocks (lower).



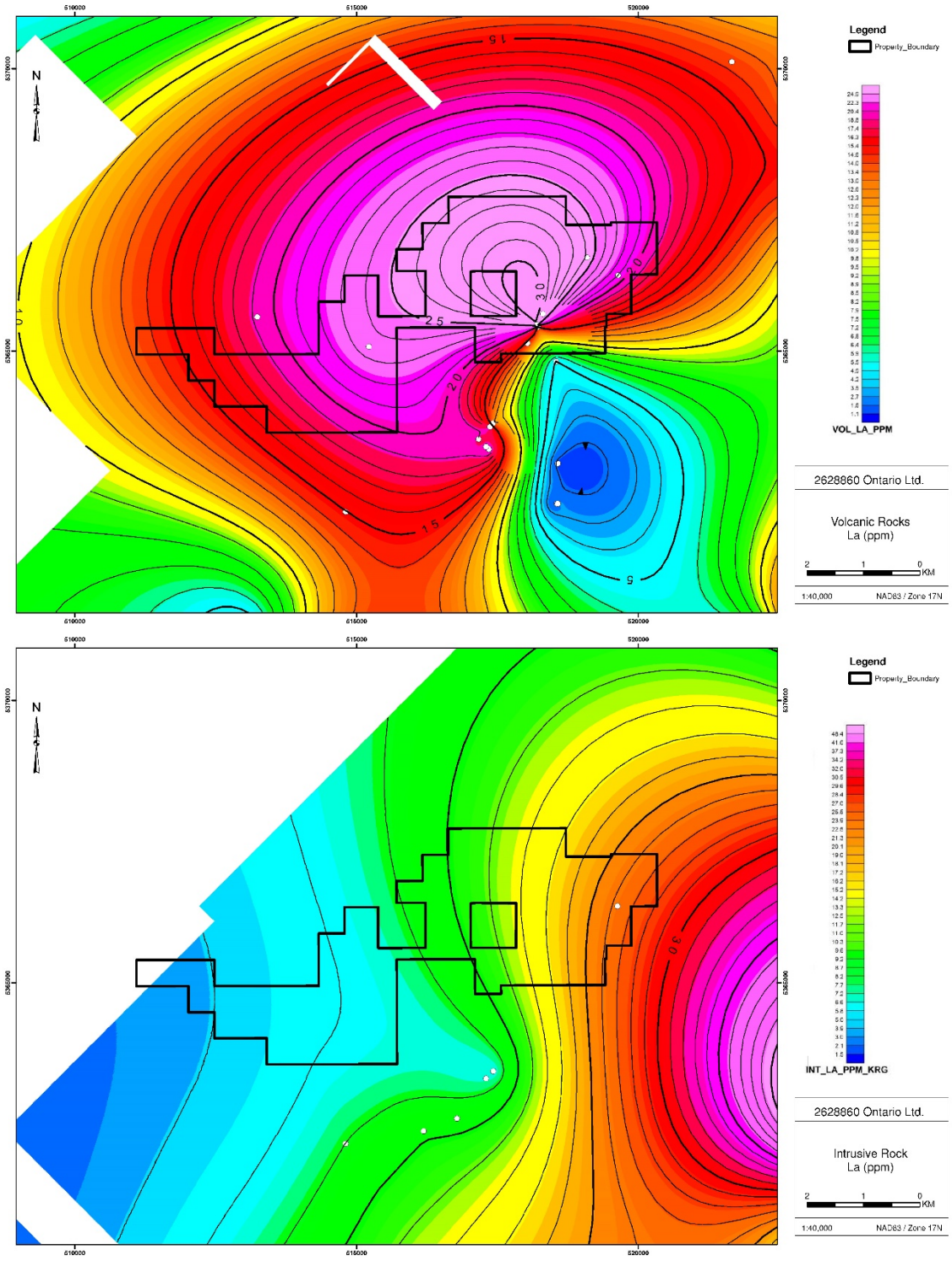
Geochemical colour-contoured grid maps: Na2O wt% in Volcanic Rocks (top) and Intrusive Rocks (lower).



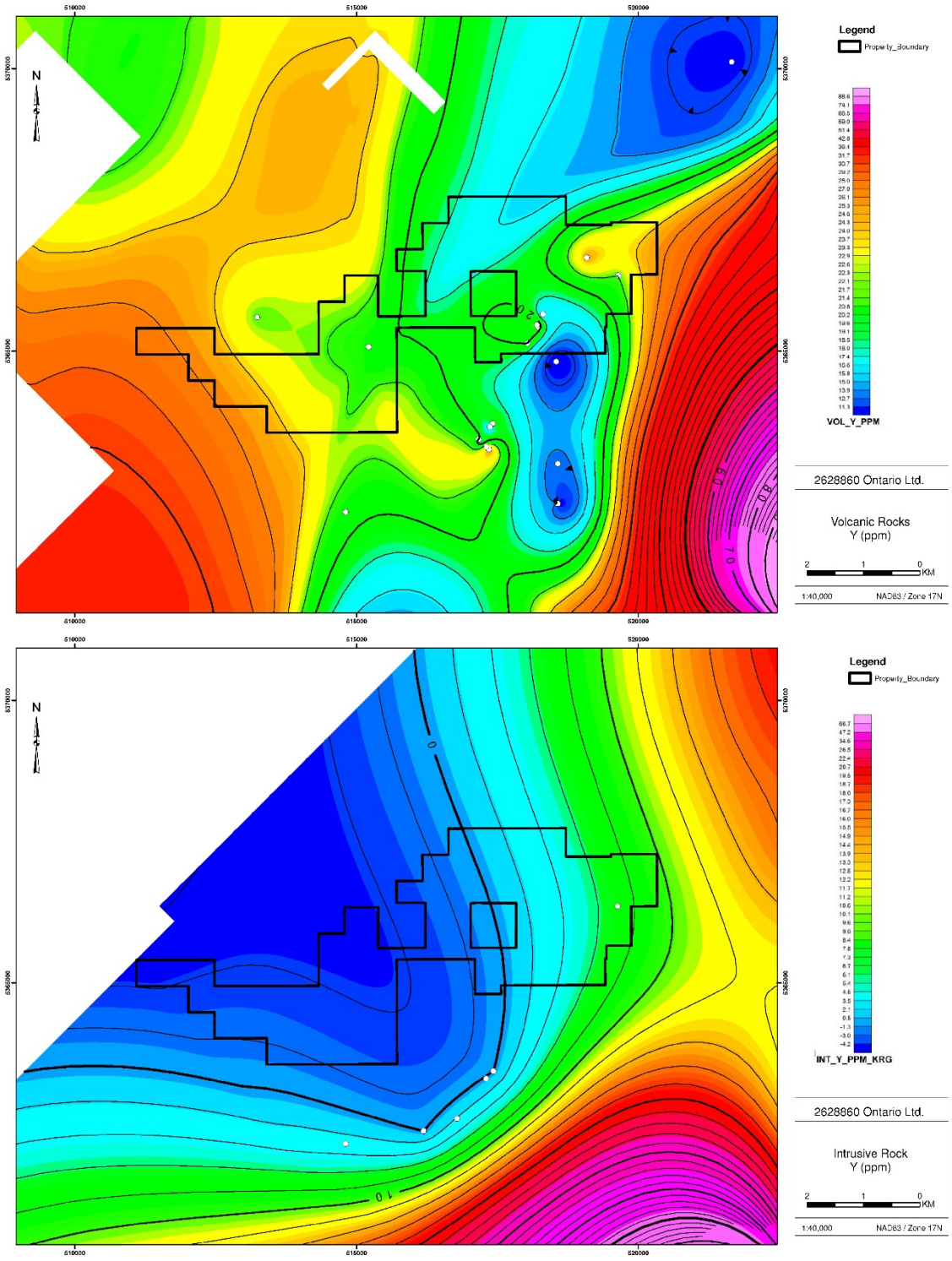
Geochemical colour-contoured grid maps: P2O5 wt% in Volcanic Rocks (top) and Intrusive Rocks (lower).



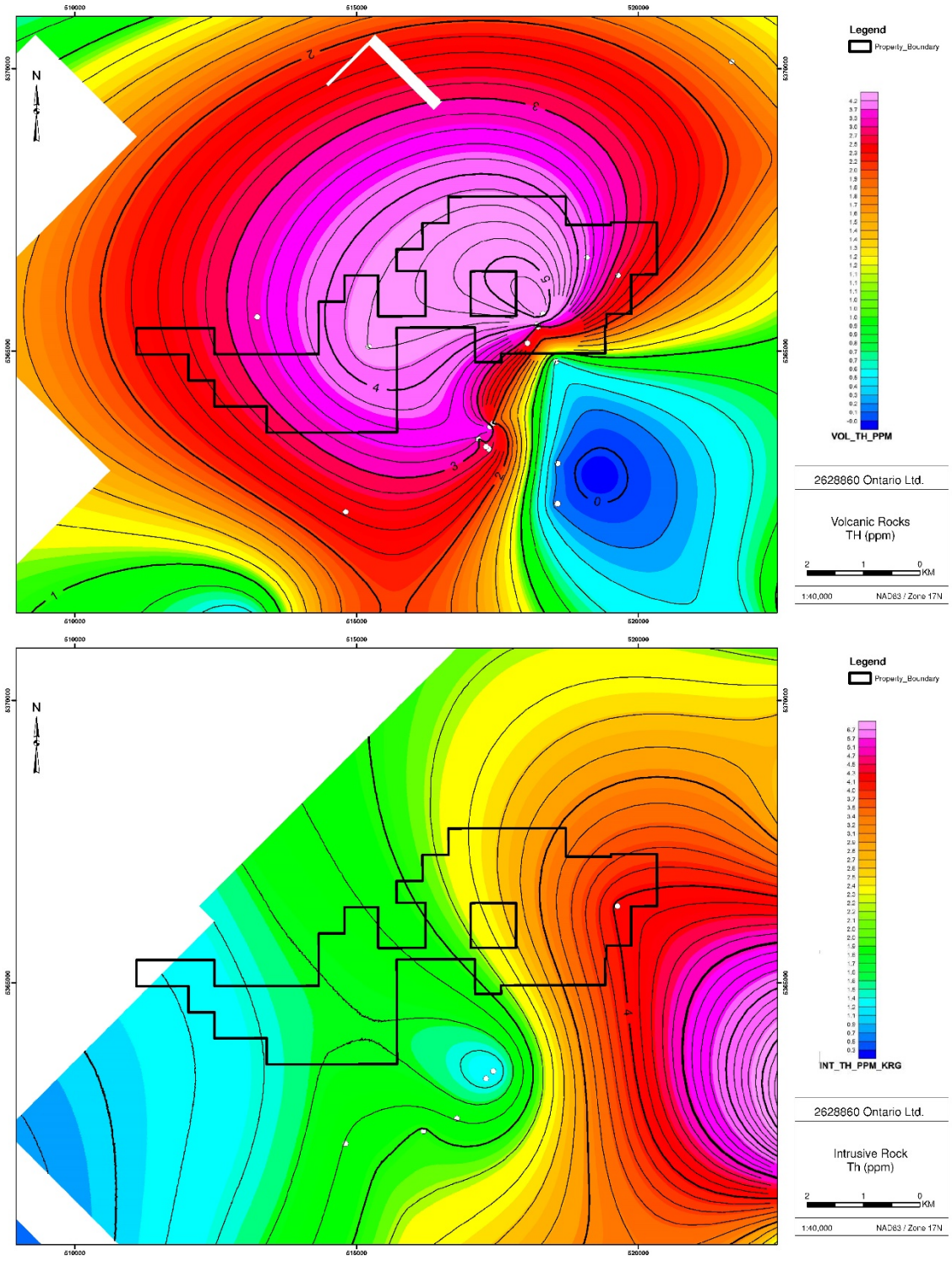
Geochemical colour-contoured grid maps: Nb ppm in Volcanic Rocks (top) and Intrusive Rocks (lower).



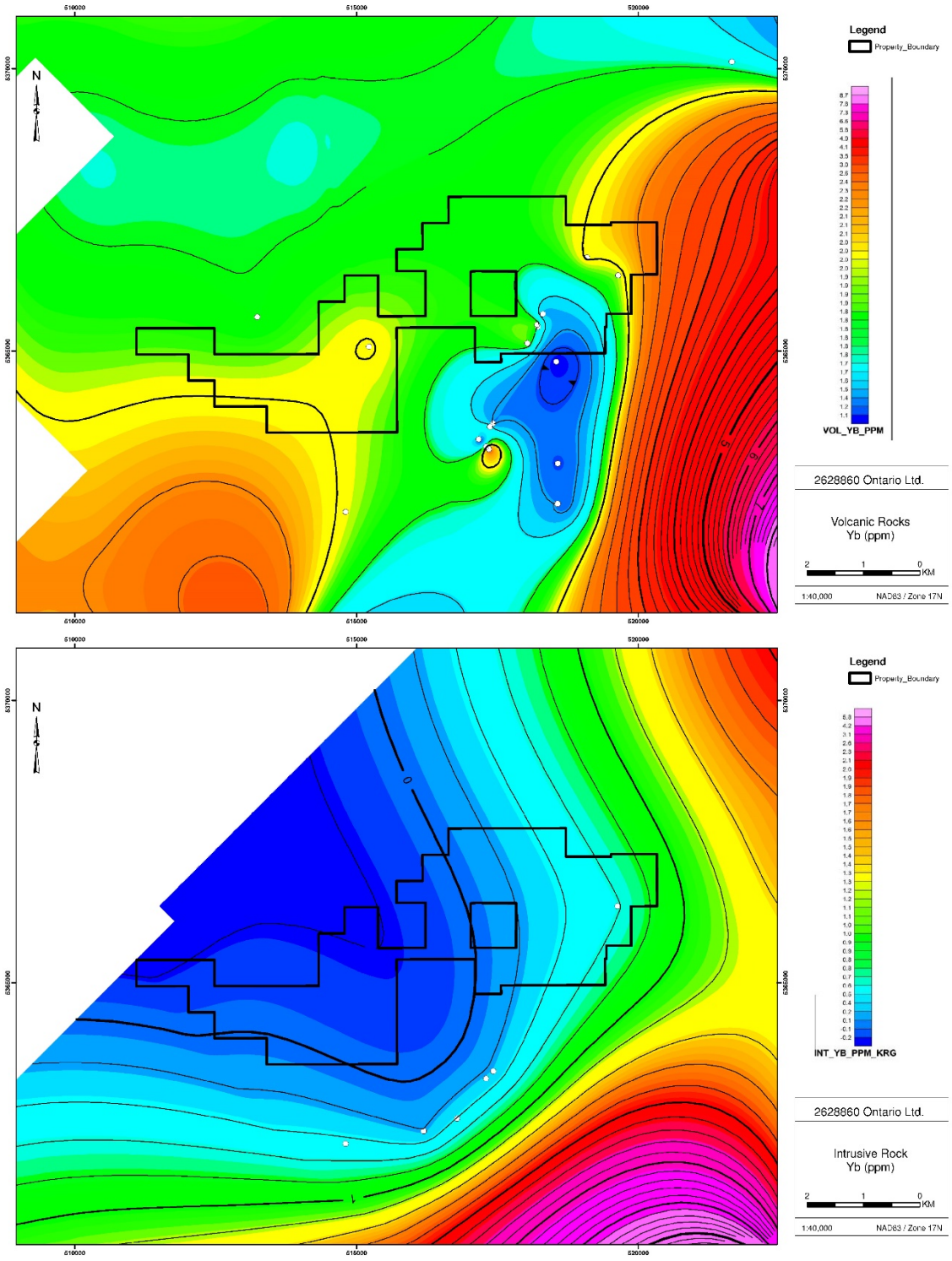
Geochemical colour-contoured grid maps: La ppm in Volcanic Rocks (top) and Intrusive Rocks (lower).



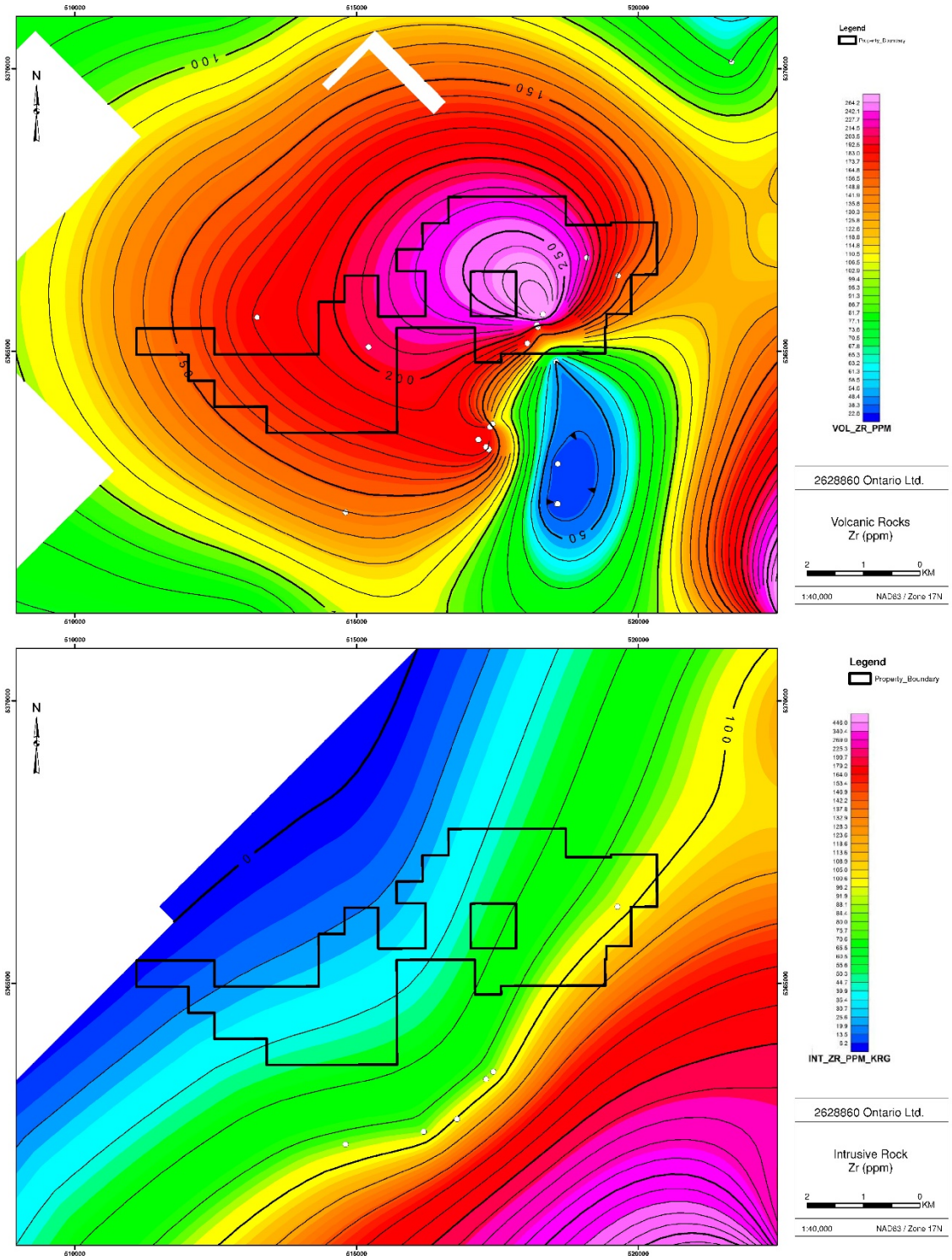
Geochemical colour-contoured grid maps: Y ppm in Volcanic Rocks (top) and Intrusive Rocks (lower).



Geochemical colour-contoured grid maps: Th ppm in Volcanic Rocks (top) and Intrusive Rocks (lower).



Geochemical colour-contoured grid maps: Yb ppm in Volcanic Rocks (top) and Intrusive Rocks (lower).



Geochemical colour-contoured grid maps: Zr ppm in Volcanic Rocks (top) and Intrusive Rocks (lower).

Appendix 5- Sample Tables Volcanics

Sample	Comment1	Comment2	Comment3	Comment4	Comment5	SiO_2 [wt.%]	TiO_2 [wt.%]	Al_2O_3 [wt.%]	Fe_2O_3 [wt.%]	MnO [wt.%]	MgO [wt.%]	CaO [wt.%]	Na_2O [wt.%]
VOL_001	z_04ASP-202-1.1	Volcanic	Andesite	Upper Tisdale		54.46	1.11	17.18	7.21	0.14	4.27	6.64	5.62
VOL_003	z_04ASP-219-2.1	Volcanic	Andesite - porphyritic	Lower Blake River		55.56	0.91	17.51	7.47	0.12	5.11	7.28	4.49
VOL_004	z_04ASP-KL0068-T-26-10.1	Volcanic	Andesite - porphyritic	Upper Tisdale		55.91	0.61	17.19	5.46	0.11	4.24	7.27	4.80
VOL_005	z_04ASP-205-1.1	Volcanic	Andesite - schistose	Upper Tisdale		58.13	1.39	14.23	8.75	0.10	6.45	5.52	2.77
VOL_006	z_04ASP-KL2143-87-05-1.1	Volcanic	Andesite - tuff	Upper Tisdale		54.52	1.12	14.68	8.42	0.11	6.07	4.88	4.76
VOL_007	z_04ASP-223-6.1	Volcanic	Basalt	Lower Tisdale		52.44	0.79	13.80	12.80	0.21	7.43	9.45	1.96
VOL_008	z_04ASP-CUR22-01-3.1	Volcanic	Basalt	Upper Tisdale		49.63	0.68	14.00	9.73	0.17	9.69	7.05	3.73
VOL_009	z_82NFT-1007	Volcanic	BASALT	Lower Tisdale		54.40	1.61	11.90	3.71	0.24	4.38	7.35	3.40
VOL_010	z_82NFT-1008	Volcanic	BASALT	Lower Tisdale		60.20	0.84	17.40	1.64	0.10	3.13	3.35	5.73
VOL_011	z_82NFT-1028	Volcanic	BASALT	Lower Tisdale		51.10	0.90	15.70	3.70	0.15	7.68	8.34	2.66
VOL_012	z_82NFT-1050	Volcanic	BASALT	Lower Tisdale		49.80	1.61	12.90	3.31	0.19	5.44	8.07	2.80
VOL_013	z_82NFT-1051	Volcanic	BASALT	Lower Tisdale		64.20	0.51	16.70	1.73	0.05	1.67	4.41	4.77
VOL_014	z_82NFT-1053	Volcanic	BASALT	Lower Tisdale		52.70	0.82	13.70	2.53	0.22	6.05	9.7	2.19
VOL_015	z_82NFT-1086	Volcanic	BASALT	Lower Tisdale		46.90	1.70	13.50	3.23	0.26	6.15	6.09	2.40
VOL_016	z_82NFT-1102	Volcanic	BASALT	Lower Tisdale		48.80	0.83	14.30	4.55	0.18	5.35	15.1	0.98
VOL_017	z_82NFT-1102D	Volcanic	BASALT	Lower Tisdale		48.40	0.83	14.20	4.44	0.17	5.38	15.2	0.92
VOL_018	z_82NFT-1113	Volcanic	BASALT	Lower Tisdale		64.00	0.56	17.20	1.83	0.09	2.11	2.9	5.82
VOL_020	z_04ASP-210-3.1	Volcanic	Basalt - massive	Lower Blake River		48.51	2.06	13.44	17.43	0.24	5.39	8.09	2.72
VOL_021	z_04ASP-CUR22-01-6.1	Volcanic	Basalt - porphyritic	Upper Tisdale		47.42	0.57	18.50	8.64	0.16	7.45	12.65	1.87
VOL_022	z_04ASP-KL2141-86-02-1.1	Volcanic	Basalt - tuff	Upper Tisdale		52.94	0.77	14.29	8.09	0.14	7.78	4.74	4.20
VOL_023	z_82NFT-1022	Volcanic	BASALT-T	Lower Tisdale		50.50	0.90	13.90	2.14	0.22	7.11	10.3	1.62
VOL_024	z_82NFT-1023	Volcanic	BASALT-T	Lower Tisdale		43.30	3.90	16.50	3.40	0.19	5.98	8.58	2.83
VOL_025	z_82NFT-1024	Volcanic	BASALT-T	Lower Tisdale		48.90	1.45	12.90	5.86	0.23	5.31	9.19	2.39
VOL_026	z_85LSJ-0922	Volcanic	BASALT-TM	Lower Tisdale		50.90	0.76	13.30	1.86	0.19	7.28	9.51	2.89
VOL_027	z_85LSJ-0923	Volcanic	BASALT-TM	Lower Tisdale		50.40	0.75	13.50	1.62	0.19	7.19	9.38	3.20
VOL_030	z_04ASP-211-1.1	Volcanic	Dacite - tuff	Lower Blake River		66.60	0.37	17.49	2.88	0.04	1.57	4.13	5.89
VOL_031	z_04ASP-CB-13-5.1	Volcanic	Felsic - crystal tuff	Upper Tisdale		60.01	0.65	16.84	4.60	0.05	2.84	3.99	6.50
VOL_032	z_04ASP-CB-16-1.1	Volcanic	Felsic - crystal tuff	Upper Tisdale		65.23	0.41	16.50	3.16	0.05	2.29	2.37	5.57
VOL_033	z_04ASP-CB-16-4.1	Volcanic	Felsic - crystal tuff	Upper Tisdale		66.26	0.30	16.59	2.47	0.04	1.38	3.86	5.16
VOL_034	z_04ASP-KL0064-T-22-1.1	Volcanic	Felsic - flow	Upper Tisdale		62.42	0.42	17.13	3.65	0.07	3.48	4.48	5.85
VOL_035	z_04ASP-CB-13-4.1	Volcanic	Felsic - tuff	Upper Tisdale		68.36	0.59	14.35	3.90	0.04	1.34	2.68	4.72
VOL_036	z_04ASP-CB-13-6.1	Volcanic	Felsic - tuff	Upper Tisdale		73.78	0.49	13.14	4.30	0.01	0.31	0.18	0.89
VOL_037	z_04ASP-CB-13-7.1	Volcanic	Felsic - tuff	Upper Tisdale		62.55	0.53	15.39	7.81	0.14	5.81	0.53	0.43
VOL_038	z_04ASP-CB-16-2.1	Volcanic	Felsic - tuff	Upper Tisdale		62.57	0.52	16.58	5.67	0.51	2.87	1.79	4.18
VOL_039	z_04ASP-KL2143-87-05-3.1	Volcanic	Felsic - tuff	Upper Tisdale		59.50	0.60	14.77	5.33	0.08	3.20	5.5	3.06
VOL_040	z_97JAA-0015	Volcanic	FELSIC LAPILLI TUFF	Upper Tisdale		55.84	0.10	13.90	5.70	0.09	3.24	5.86	2.77
VOL_041	z_97JAA-0025	Volcanic	FELSIC SCHIST	Upper Tisdale		53.29	0.02	12.41	7.69	0.10	9.33	7.68	2.07
VOL_043	z_108492	Volcanic	Felsic Volcanic	Lower Blake River									
VOL_044	z_111801	Volcanic	Felsic Volcanic	Lower Blake River									
VOL_045	z_111802	Volcanic	Felsic Volcanic	Lower Blake River									
VOL_046	z_111803	Volcanic	Felsic Volcanic	Lower Blake River									
VOL_047	z_111804	Volcanic	Felsic Volcanic	Lower Blake River									
VOL_048	z_111807	Volcanic	Felsic Volcanic	Lower Tisdale									
VOL_049	z_111808	Volcanic	Felsic Volcanic	Lower Tisdale									
VOL_050	z_111809	Volcanic	Felsic Volcanic	Lower Tisdale									
VOL_051	z_98-CMV-103c	Volcanic	FELSIC VOLCANIC	Upper Tisdale		70.05	1.12	14.96	1.44	0.02	1.31	1.78	5.02

Sample	Comment1	Comment2	Comment3	Comment4	Comment5	SiO_2 [wt.%]	TiO_2 [wt.%]	Al_2O_3 [wt.%]	Fe_2O_3 [wt.%]	MnO [wt.%]	MgO [wt.%]	CaO [wt.%]	Na_2O [wt.%]
VOL_052	z_98-CMV-209k	Volcanic	FELSIC VOLCANIC	Upper Tisdale		77.72	0.79	10.05	4.42	0.02	0.64	0.43	0.46
VOL_055	z_97JAA-0020	Volcanic	INTERMEDIATE - MAFIC METAVOL	Lower Tisdale		54.29	0.03	13.75	8.47	0.13	7.47	6.02	5.08
VOL_056	z_97JAA-0022	Volcanic	INTERMEDIATE - MAFIC METAVOL	Upper Tisdale		60.85	0.02	16.58	4.65	0.10	1.81	4.74	5.00
VOL_057	z_BRB-00-101	Volcanic	INTERMEDIATE - MAFIC VOLCANIC	Lower Blake River		50.72	1.34	14.43	14.92	0.22	5.54	9.35	2.65
VOL_058	z_97JAA-0024	Volcanic	INTERMEDIATE FLOW	Upper Tisdale		60.87	0.01	15.65	4.65	0.07	1.22	6.07	3.21
VOL_059	z_97JAA-0027	Volcanic	INTERMEDIATE FLOW	Upper Tisdale		56.01	0.18	18.15	5.18	0.10	1.65	5.38	4.50
VOL_060	z_97JAA-0101	Volcanic	INTERMEDIATE LAPILLI TUFF	Upper Tisdale		66.80	0.15	15.70	3.51	0.09	3.54	0.33	1.21
VOL_061	z_97JAA-0029	Volcanic	INTERMEDIATE METAVOLCANIC	Upper Tisdale		52.73	0.03	11.50	7.26	0.09	13.93	3.8	2.31
VOL_062	z_97JAA-0026	Volcanic	INTERMEDIATE SCHIST	Upper Tisdale		66.79	0.13	14.40	1.02	0.02	0.24	4.73	4.17
VOL_063	z_97JAA-0028	Volcanic	INTERMEDIATE TUFF	Upper Tisdale		58.61	0.20	13.82	4.11	0.07	3.80	5.17	6.52
VOL_064	z_97JAA-0070	Volcanic	INTERMEDIATE TUFF	Upper Tisdale		53.35	0.15	14.65	8.77	0.10	6.57	4.47	4.60
VOL_068	z_108487	Volcanic	Intermediate Volcanic	Lower Blake River									
VOL_069	z_111812	Volcanic	Intermediate Volcanic	Lower Blake River		64.03	1.27	11.74	10.20	0.16	1.87	6.15	3.20
VOL_070	z_98-CMV-101a	Volcanic	INTERMEDIATE VOLCANIC	Upper Tisdale		54.33	1.00	14.89	7.38	0.14	5.92	5.49	4.30
VOL_071	z_98-CMV-101b	Volcanic	INTERMEDIATE VOLCANIC	Upper Tisdale		55.18	0.97	14.44	7.46	0.39	2.82	6.38	3.86
VOL_072	z_98-CMV-106a	Volcanic	INTERMEDIATE VOLCANIC	Upper Tisdale		56.64	0.77	14.90	6.00	0.10	3.94	5.47	2.22
VOL_073	z_98-CMV-205f	Volcanic	INTERMEDIATE VOLCANIC	Upper Tisdale		66.78	0.78	12.25	9.13	0.19	1.28	0.23	0.62
VOL_074	z_98-CMV-206h	Volcanic	INTERMEDIATE VOLCANIC	Upper Tisdale		73.93	0.76	14.49	2.32	0.00	0.44	0.07	0.21
VOL_075	z_98-CMV-209b	Volcanic	INTERMEDIATE VOLCANIC	Upper Tisdale		58.83	0.91	15.69	8.28	0.17	1.71	4.05	4.82
VOL_076	z_98-CMV-209l	Volcanic	INTERMEDIATE VOLCANIC	Upper Tisdale		59.54	0.76	16.20	6.85	0.32	2.35	3.98	0.73
VOL_077	z_98-CMV-300d	Volcanic	INTERMEDIATE VOLCANIC	Upper Tisdale		54.21	0.88	15.29	6.02	0.13	2.52	8.71	3.10
VOL_078	z_97JAA-0006	Volcanic	MAFIC FLOW	Lower Tisdale		49.94		14.08	11.58	0.22	6.92	10.09	3.70
VOL_079	z_97JAA-0007	Volcanic	MAFIC FLOW	Lower Tisdale		48.24		14.75	11.44	0.18	7.95	8.05	3.47
VOL_080	z_97JAA-0016	Volcanic	MAFIC FLOW	Lower Tisdale		46.68		12.73	14.96	0.20	5.64	6.64	2.91
VOL_081	z_97JAA-0018	Volcanic	MAFIC FLOW	Lower Tisdale		49.07		13.48	11.85	0.25	7.03	7.87	4.72
VOL_082	z_97JAA-0019	Volcanic	MAFIC FLOW	Lower Tisdale		49.84		13.73	11.42	0.18	7.63	9.5	2.81
VOL_083	z_97JAA-0023	Volcanic	MAFIC FLOW	Upper Tisdale		47.90	0.17	12.83	9.33	0.17	7.64	7.54	1.95
VOL_086	z_108493	Volcanic	Mafic Volcanic	Lower Blake River									
VOL_087	z_98-CMV-007a	Volcanic	MAFIC VOLCANIC	Lower Blake River		49.20	0.46	10.84	9.80	0.15	18.17	5.55	0.83
VOL_088	z_98-CMV-007b	Volcanic	MAFIC VOLCANIC	Lower Blake River		63.62	0.96	13.69	10.43	0.14	1.60	3.31	4.98
VOL_089	z_98-CMV-014c	Volcanic	MAFIC VOLCANIC	Lower Blake River		68.46	0.82	13.08	4.87	0.05	0.66	6.5	4.66
VOL_090	z_98-CMV-015-3a	Volcanic	MAFIC VOLCANIC	Lower Blake River		53.49	1.55	14.80	15.25	0.23	3.01	6.07	5.22
VOL_091	z_98-CMV-017a	Volcanic	MAFIC VOLCANIC	Lower Blake River		64.43	1.10	17.44	2.89	0.02	0.73	1.81	9.52
VOL_092	z_98-CMV-018a	Volcanic	MAFIC VOLCANIC	Lower Blake River		54.49	1.01	16.78	8.79	0.13	4.60	7.34	4.55
VOL_093	z_98-CMV-019b	Volcanic	MAFIC VOLCANIC	Lower Blake River		57.23	1.11	14.01	4.31	0.14	9.39	7.77	4.47
VOL_094	z_98-CMV-024a	Volcanic	MAFIC VOLCANIC	Lower Blake River		53.00	1.65	14.05	17.20	0.25	3.07	7.11	2.97
VOL_095	z_98-CMV-027b	Volcanic	MAFIC VOLCANIC	Lower Blake River		57.32	1.97	17.28	9.77	0.13	1.87	3.09	4.63
VOL_096	z_98-CMV-029a	Volcanic	MAFIC VOLCANIC	Lower Blake River		66.52	1.04	12.16	9.02	0.06	2.51	1.37	4.81
VOL_097	z_98-CMV-033a	Volcanic	MAFIC VOLCANIC	Lower Blake River		42.81	1.81	15.46	21.65	0.25	11.05	1.23	0.15
VOL_098	z_98-CMV-100a	Volcanic	MAFIC VOLCANIC	Lower Blake River		39.09	0.45	10.94	10.60	0.27	10.47	13.8	1.15
VOL_099	z_98-CMV-201a	Volcanic	MAFIC VOLCANIC	Lower Blake River		51.12	0.73	16.53	7.91	0.18	6.85	10.55	2.64
VOL_100	z_98-CMV-203a	Volcanic	MAFIC VOLCANIC	Lower Blake River		46.69	0.73	16.24	11.41	0.20	8.80	10.79	1.68
VOL_101	z_98-CMV-203b	Volcanic	MAFIC VOLCANIC	Lower Blake River		49.95	0.74	16.76	6.53	0.14	5.00	9.93	2.96
VOL_102	z_RX 233177	Volcanic	MAFIC VOLCANIC	Upper Tisdale		60.40	0.56	15.30	5.64	0.07	2.89	5.15	3.90
VOL_103	z_RX 233178	Volcanic	MAFIC VOLCANIC	Upper Tisdale		49.30	1.16	13.50	13.80	0.21	5.63	9.7	1.11
VOL_112	z_85LSJ-0958	Volcanic	MUD	Lower Tisdale		56.40	1.63	13.60	9.50	0.10	2.81	5.16	3.72

Sample	Comment1	Comment2	Comment3	Comment4	Comment5	SiO_2 [wt.%]	TiO_2 [wt.%]	Al_2O_3 [wt.%]	Fe_2O_3 [wt.%]	MnO [wt.%]	MgO [wt.%]	CaO [wt.%]	Na_2O [wt.%]
VOL_121	z_85NFT-0052	Volcanic	TUFF/CHERT	Lower Tisdale		53.40	1.08	13.30	10.10	0.10	5.50	2.53	3.70
VOL_125	82NFT-1007	Volcanic	BASALT	Lower Tisdale		54.40	1.61	11.90	3.71	0.24	4.38	7.35	3.40
VOL_126	82NFT-1008	Volcanic	BASALT	Lower Tisdale		60.20	0.84	17.40	1.64	0.10	3.13	3.35	5.73
VOL_127	82NFT-1028	Volcanic	BASALT	Lower Tisdale		51.10	0.90	15.70	3.70	0.15	7.68	8.34	2.66
VOL_128	82NFT-1113	Volcanic	BASALT	Lower Tisdale		64.00	0.56	17.20	1.83	0.09	2.11	2.9	5.82
VOL_129	85LSJ-0922	Volcanic	BASALT-TM	Lower Tisdale		50.90	0.76	13.30	1.86	0.19	7.28	9.51	2.89
VOL_130	85LSJ-0923	Volcanic	BASALT-TM	Lower Tisdale		50.40	0.75	13.50	1.62	0.19	7.19	9.38	3.20
VOL_131	85LSJ-0926	Volcanic	DACITE-C	Upper Tisdale		50.80	1.17	17.50	4.81	0.06	5.35	3.55	2.97
VOL_132	85LSJ-0936	Volcanic	ANDESITE-C	Lower Blake River		48.90	0.51	12.00	2.49	0.61	8.03	16.8	1.67
VOL_133	85LSJ-0937	Volcanic	ANDESITE-C	Upper Tisdale		54.40	0.79	16.90	1.77	0.19	5.66	4.81	3.74
VOL_134	85LSJ-0957	Volcanic	ANDESITE-C	Upper Tisdale		62.00	1.20	15.60	1.49	0.09	3.47	1.42	4.48
VOL_135	P-312-74	Volcanic	TUFF-M	Lower Tisdale		45.20	0.60	8.91	7.62	0.17	5.49	13.9	1.94
VOL_136	P-313-74	Volcanic	TUFF-M	Upper Tisdale		53.60	0.69	10.80	9.29	0.10	12.40	3.7	0.00

Sample	K_2O [wt.%]	P_2O_5 [wt.%]	SO_3 [wt.%]	Cl [wt.%]	F [wt.%]	H_2O [wt.%]	CO_2 [wt.%]	LOI [wt.%]	Total [wt.%]	Ag [ppm]	As [ppm]	Au [ppm]	B [ppm]	Ba [ppm]	Be [ppm]	Bi [ppm]	Cd [ppm]	Co [ppm]	Cr [ppm]	Cs [ppm]	Cu [ppm]	Ga [ppm]
VOL_001	1.22	0.44						2.08	100.38					1390				11	80	0.57	219	
VOL_003	0.52	0.19						1.35	100.52					115				18	105	0.64	53	
VOL_004	0.6	0.35						3.72	100.28					690				19	65	0.79	90	
VOL_005	0.92	0.29						1.66	100.25					340				14	244	1.08	81	
VOL_006	0.11	0.25						5.34	100.28					34				25	131	0.11	39	
VOL_007	0.18	0.07						1.23	100.36					34				42	97	0.17	115	
VOL_008	1.02	0.05						3.95	99.75					572				43	321	0.52	57	
VOL_009	0.06	0.03	0.05					0.5	100.37			0		50				46	40		70	
VOL_010	0.71	0.05	0.02					1.7	99.88			0		250				19	36		12	
VOL_011	0.55	0.03	0.02					2.2	99.13			0		200				39	337		62	
VOL_012	0.31	0.08	0.3					1.3	99.13			0		100				36	47		68	
VOL_013	0.53	0.03	0.02					2.2	100.06			0		110				10	17		10	
VOL_014	0.45	0.05	0.02					1.3	99.35			0		130				35	82		46	
VOL_015	0.28	0.05	0.04					3.1	99.29			0		120				52	75		112	
VOL_016	0.16	0.02	0.03					1.7	100.16			0		70				32	109		94	
VOL_017	0.16	0.01	0.04					1.7	99.77			0		80				34	103		93	
VOL_018	0.73	0.05	0.02					1.5	100.02			0		200				13	22		12	
VOL_020	0.49	0.27						0.81	99.47					99				24	93	0.5	78	
VOL_021	0.58	0.04						2.47	100.42					136				41	462	0.54	65	
VOL_022	0.05	0.12						6.96	100.1					440				24	223	0.1	167	
VOL_023	0.1	0.01	0.02					0.7	99.2			0		70				49	77		104	
VOL_024	0.99	0.43	0.02					0.4	99.05			0		660				53	26		34	
VOL_025	0.99	0.04	0.14					1.3	99.2			0		250				54	72		168	
VOL_026	0.01	0.1	0.32					2.4	99.3			0.01		0				43	93		115	
VOL_027	0	0.1	0.17					2.6	99.2			0		0				42	90		118	
VOL_030	1.08	0.14						0.35	99.82					151				0	8	0.23	0	
VOL_031	0.47	0.14						4.33	100.43					175				14	76	0.29	17	
VOL_032	1.54	0.13						2.9	100.14					431				9	29	0.84	11	
VOL_033	1.64	0.11						2.57	100.36					556				7	21	0.79	4	
VOL_034	1.06	0.15						1.67	100.4					463				15	119	1.47	40	
VOL_035	1.04	0.15						2.74	99.92					214				11	55	0.89	15	
VOL_036	3.91	0.07						3.22	100.29					497				10	40	0.85	30	
VOL_037	1.64	0.13						4.83	99.8					120				9	52	0.69	0	
VOL_038	2.24	0.14						3.31	100.37					343				10	38	1.01	42	
VOL_039	1.54	0.13						6.54	100.26					229				18	154	1.1	0	
VOL_040	2.01	0.89	4.25				5.08	5.41	95.81					454				22	148	4.53	64	
VOL_041	1.32	0.59					1.3	4.32	98.82					231				32	515	1.3	30	
VOL_043										0.05		21.7		79.5			0.05	3.2	9		8.4	3
VOL_044										0.05		0.25		28.7			0.05	15.5	15		20.1	19
VOL_045										0.05		0.25		17			0.05	9	20		33.4	16
VOL_046										0.05		0.25		13.8			0.05	11.8	16		22.9	15
VOL_047										0.05		0.25		22.1			0.05	14.1	12		20.1	17
VOL_048										0.05		0.25		64.6			0.05	16	246		30.8	10
VOL_049										0.05		0.25		26.3			0.05	24	162		25.3	14
VOL_050										0.05		0.25		74.6			0.1	10.8	145		25.2	14
VOL_051	1.02	0.29						2.13	99.140003					267	1.5			7	79	0.62	114	

Sample	K_2O [wt.%]	P_2O_5 [wt.%]	SO_3 [wt.%]	Cl [wt.%]	F [wt.%]	H_2O [wt.%]	CO_2 [wt.%]	LOI [wt.%]	Total [wt.%]	Ag [ppm]	As [ppm]	Au [ppm]	B [ppm]	Ba [ppm]	Be [ppm]	Bi [ppm]	Cd [ppm]	Co [ppm]	Cr [ppm]	Cs [ppm]	Cu [ppm]	Ga [ppm]
VOL_052	2.15	0.24						3.43	100.35					270	1.5			37	108	1.56	99	
VOL_055		0.84					0.25	2.52	98.46					80				27	305	0.18	72	
VOL_056	0.27	0.47					1.86	4.1	98.59					215				10	23	0.73	8	
VOL_057	0.8	0.14						0.66	100.77					235				46.46	64	1.39	139.28	18.13
VOL_058	1.08	0.5					3.01	5.65	98.98					263				12	57	1.94		
VOL_059	1.78	1.19	0.04				2.01	4.39	98.51					423				33	282	3.18	110	
VOL_060	3.01	0.77	0.46				0.22	3.69	98.8					524				16	207	2.56	128	
VOL_061	0.34	0.53					2.6	7.59	100.11					53				39	924	0.66	51	
VOL_062	2.13	0.87	0.02				3.04	4.46	98.96					424				10	207	2.01	102	
VOL_063		0.37	0.4				3.24	5.17	97.37					1030				14	161	0.21	29	
VOL_064		1.15	0.42				1.97	5.13	98.75					106				28	118	0.28	632	
VOL_068										0.05		0.25		76.2			0.05	19	96		47.2	8
VOL_069	0.26	0.28						0.92	100.1			1		49				24	26	0.5		
VOL_070	0.08	0.2						5.88	99.610002					53	1.5			39	487	0.12	57	
VOL_071	0.79	0.28						6.78	99.35					249	1.5			28	394	0.56	103	
VOL_072	2.94	0.15						6.62	99.749999					570	1.5			22	214	1.68	55	
VOL_073	2.59	0.14						4.55	98.539999					540	1.5			22	197	1.76	19	
VOL_074	4.57	0.05						2.92	99.76					1222	1.5			26	109	2.68	1514	
VOL_075	0.83	0.19						4.48	99.960002					114	1.5			26	128	1.28	77	
VOL_076	2.71	0.16						6.22	99.820001					440	1.5			16	109	2.6	153	
VOL_077	1.62	0.2						5.8	98.479999					370	1.5			23	244	1.61	62	
VOL_078		0.74	0.01				0.23	2.25	99.33					109				42	215	0.09	120	
VOL_079	0.43	0.71					0.18	3.46	98.63					217				37	320	0.08	90	
VOL_080		1.21	0.1				4.42	7.95	98.81					92				42	63	0.3	114	
VOL_081		0.75	0.1				1.16	3.85	98.49					65				41	127	0.14	110	
VOL_082	0.11	0.68	0.02				0.28	3.18	99.04					87				40	145	0.18	191	
VOL_083		1.16	0.01				5.4	10.18	98.85					51				30	561	0.14	137	
VOL_086										0.05		0.25		14			0.05	3.7	29		11.3	14
VOL_087	0.27	0.08						4.61	99.960002					76	1.5			62		2.52		
VOL_088	0.09	0.2						1.26	100.28					80	1.5			20	157	0.57	13	
VOL_089	0.04	0.13						0.63	99.899999					22	1.5			9	147	0.03	20	
VOL_090	0.47	0.25						0.5	100.84					105	1.5			33	133	0.27	105	
VOL_091	0.06	0.16						1.02	99.180001					29	1.5			12	231	0.05	61	
VOL_092	0.49	0.19						1.5	99.870003					196	1.5			26	194	0.27	27	
VOL_093	0.83	0.08						1.22	100.56					157	1.5			9	128	0.53		
VOL_094	0.53	0.12						0.56	100.51					172	3			54	152	0.58	102	
VOL_095	1.64	0.12						1.65	99.470001					485	4			48	180	3.73	127	
VOL_096	0.04	0.17						2.27	99.969997					21	1.5			19	123	0.06		
VOL_097	0.31	0.08						6.12	100.92					136	3			42	156	1.2	147	
VOL_098	0.41	0.06						12.85	100.09					102	1.5			44		0.26	58	
VOL_099	0.22	0.04						2.85	99.62					154	1.5			55	410	0.32	124	
VOL_100	0.07	0.04						3.41	100.06					48	1.5			55	368	0.1	145	
VOL_101	0.31	0.04						6.86	99.220002					87	1.5			61	403	0.3	132	
VOL_102	0.6	0.12						3.9	98.6					187								
VOL_103	0.03	0.13						3.45	98.1					25								
VOL_112	0.52	0.14	0.01					4	99.1			0		0				31	147		36	

Sample	K_2O [wt.%]	P_2O_5 [wt.%]	SO_3 [wt.%]	Cl [wt.%]	F [wt.%]	H_2O [wt.%]	CO_2 [wt.%]	LOI [wt.%]	Total [wt.%]	Ag [ppm]	As [ppm]	Au [ppm]	B [ppm]	Ba [ppm]	Be [ppm]	Bi [ppm]	Cd [ppm]	Co [ppm]	Cr [ppm]	Cs [ppm]	Cu [ppm]	Ga [ppm]
VOL_121	0.55	0.1	0.01					8.8	100.8			0.01		0				38	345		126	
VOL_125	0.06	0.03	0.05				0.16	0.5	100.37	0	0	0	0	50	1			46	40		70	0
VOL_126	0.71	0.05	0.02				0.16	1.7	99.88	0	0	0	0	250	1			19	36		12	0
VOL_127	0.55	0.03	0.02				0.33	2.2	99.13	0	0	0	0	200	1			39	337		62	0
VOL_128	0.73	0.05	0.02				0.2	1.5	100.02	0	0	0	0	200	1			13	22		12	0
VOL_129	0.01	0.1	0.32				0.12	2.4	99.3	1	1	0.005	0	0	1			43	93		115	0
VOL_130	0	0.1	0.17				0.16	2.6	99.2	1	0.5	0.001	0	0	1			42	90		118	0
VOL_131	1.81	0.22	3.45				2.45	7.4	100	1	6.5	0.013	0	0	1			28	224		24	0
VOL_132	0.41	0.13	0.01				0.54	1.5	98.8	1	0.5	0.001	0	0	2			29	374		18	0
VOL_133	0.81	0.18	0.1				0.18	2.2	99	1	2	0.001	0	0	1			29	194		55	0
VOL_134	0.95	0.3	0.13				0.11	2.6	98.9	1	18	0.001	0	0	1			16	174		12	0
VOL_135	0.07	0.13	0				12.6	15.8	99.83	0.5	0.5	0.005	10	30	0			45	1260		20	10
VOL_136	0.01	0.14	0.02				5.07	9.6	100.33	0.5	0.5	0.005	15	30	0			45	790		9	15

Sample	Ge [ppm]	Hf [ppm]	Hg [ppm]	In [ppm]	Li [ppm]	Mo [ppm]	Nb [ppm]	Ni [ppm]	Pb [ppm]	Rb [ppm]	Re [ppm]	Sb [ppm]	Sc [ppm]	Se [ppm]	Sn [ppm]	Sr [ppm]	Ta [ppm]		Th [ppm]	Tl [ppm]	U [ppm]	V [ppm]	W [ppm]
VOL_001		4.5					13.8	38		28.14						690.9	0.83		7.61		2.26	139.8	4
VOL_003		3.1					5.6	91		18.16						303.9	0.36		1.55		0.38	170.4	0
VOL_004		3.2					5	41		17.57						798.2	0.24		5.5		1.99	146.8	0
VOL_005		6.3					11.6	125		26.7						290.8	0.65		3.57		0.88	170.8	0
VOL_006		3.7					5.3	79		1.14						436.5	0.28		2.59		0.5	149.3	0
VOL_007		1.3					1.7	93		2.03						86.5	0		0.19		0.05	257.7	0
VOL_008		0.9					1.2	168		22.19						119.7	0		0.12		0.04	231.6	2
VOL_009						10	30	41	10	10		0				160						355	
VOL_010						10	17	26	10	20		0				160						120	
VOL_011						10	30	97	10	20		0				240						220	
VOL_012						10	30	37	10	10		0				150						380	
VOL_013						10	7	13	10	10		0				220						75	
VOL_014						10	30	58	10	10		0				100						325	
VOL_015						10	40	63	10	10		0				15						440	
VOL_016						10	30	48	10	10		0				155						325	
VOL_017						10	30	50	10	10		0				155						320	
VOL_018						10	15	12	10	20		0				305						80	
VOL_020		2.5					3.6	77		13.77						118.9	0.23		0.33		0.1	320	4
VOL_021		0.7					0.9	139		18.03						211.2	0		0.08		0.05	213.6	0
VOL_022		2.4					3.7	83		0.15						230.1	0.21		1.13		0.27	163.8	0
VOL_023						10	35	60	21	10		0				125						350	
VOL_024						10	50	47	10	10		0				890						315	
VOL_025						10	40	55	10	10		0				110						405	
VOL_026						10	0	63	10	0		0.1				125						260	
VOL_027						10	0	60	37	0		0.1				55						255	
VOL_030		9					12.8	12		4.29						126.2	0.77		1.48		0.4	0.9	3
VOL_031		3.1					4.1	55		8.04						178.3	0.26		1.04		0.35	95.9	0
VOL_032		2.5					3.3	35		38.81						248.4	0.19		1.53		0.59	71.4	3
VOL_033		2					3.1	24		49.08						463.9	0.18		1.76		0.66	50	0
VOL_034		2.4					3.8	96		38.36						317.2	0.19		1.87		0.63	79.1	0
VOL_035		2.9					4.2	40		24.2						249.1	0.26		0.96		0.43	71.3	2
VOL_036		2.4					3.4	37		77.1						46.9	0.21		0.76		0.24	73.7	0
VOL_037		2.8					3.8	44		29.54						48.5	0.24		0.63		0.22	55.1	0
VOL_038		2.8					4.2	33		35.12						110.4	0.26		0.91		0.26	79.3	15
VOL_039		2.8					4.5	95		36.16						153.6	0.27		0.97		0.25	75.6	0
VOL_040		4.7					6.89	107		76			14			282	0.4		3.3		0.78	131	
VOL_041		1.53					3.52	251		40			17			277	0.19		1.57		0.38	125	
VOL_043						0.4		3.3	3.4			0.05				57			0.9	0.05		7	0.2
VOL_044						0.9		7.1	1.4			0.05				78			1.2	0.05		101	0.2
VOL_045						0.8		3.9	1.2			0.1				165			0.7	0.05		71	0.2
VOL_046						0.9		4.8	1.2			0.05				91			1	0.05		79	0.3
VOL_047						0.8		6.2	1.2			0.05				66			1.2	0.05		91	0.2
VOL_048						0.4		92.3	1			0.2				105			0.6	0.05		80	0.2
VOL_049						0.3		123	1.2			0.1				93			0.9	0.05		84	0.1
VOL_050						0.3		49	1.8			0.2				82			0.4	0.05		116	0.2
VOL_051		7.4				16	8.36	47		32			11			216	0.7		5.35		1.1	130	20

Sample	Ge [ppm]	Hf [ppm]	Hg [ppm]	In [ppm]	Li [ppm]	Mo [ppm]	Nb [ppm]	Ni [ppm]	Pb [ppm]	Rb [ppm]	Re [ppm]	Sb [ppm]	Sc [ppm]	Se [ppm]	Sn [ppm]	Sr [ppm]	Ta [ppm]		Th [ppm]	Tl [ppm]	U [ppm]	V [ppm]	W [ppm]
VOL_052		4.71				58	3.98	56		61			9			121	0.43		2.92		0.79	81	20
VOL_055		2.01					4.5	104		7			24			182	0.26		0.98		0.25	182	
VOL_056		1.62					3.67	18		20			7			346	0.2		0.81		0.21	62	
VOL_057		3.3			11.08		5.64	54.77	5.08	29			38.75		1.07	140	0.68		2.43		0.6	289.89	0.27
VOL_058		1.45					3.33	30		27			10			440	0.2		1.22		0.33	82	
VOL_059		7.63					12.2	98		83			17			238	0.7		5.2		1.25	169	
VOL_060		5.98					5.89	57		94			25			125	1.03		4.41		0.98	136	
VOL_061		2.3					1.12	450		8			15			221	0.07		1.26		0.26	102	
VOL_062		4.84					7.32	71		86			10			178	0.48		4.54		1.05	99	
VOL_063		2.69					3.19	40		3			10			634	0.16		4.04		1.44	80	
VOL_064		3.39					6.08	88		5			19			395	0.31		3.72		0.79	198	
VOL_068						1.1		55.3	1.6			0.05				80			0.6	0.05		88	0.5
VOL_069		9								10		0.1				248	0.25		1.5		0.25	121	0.5
VOL_070		3.2				23	6.46	188		1			22			210	0.55		2.48		0.58	190	20
VOL_071		5.5				12	7.26	158		21			20			250	0.63		4.26		0.97	176	20
VOL_072		4.36				12	6.52	75		92			18			152	0.58		2.73		0.7	150	20
VOL_073		2.92				4	2.83	57		65			18			99	0.34		1.96		0.47	146	133
VOL_074		4.64				15	3.45	52		103			11			136	0.39		3.59		0.83	101	20
VOL_075		3.94				11	4.64	113		31			24			153	0.47		2.94		0.68	178	20
VOL_076		4.69				8	3.92	45		87			15			218	0.44		3.34		0.74	122	20
VOL_077		3.97				11	6.7	90		58			19			287	0.55		2.74		0.66	154	20
VOL_078		0.97					1.78	76		1			43			135	0.1		0.17		0.05	261	
VOL_079		0.83					1.6	108		7			41			376	0.09		0.13		0.04	245	
VOL_080		0.82					2.56	71		3			41			91	0.14		0.26		0.07	310	
VOL_081		1.04					1.74	60		0			43			51	0.1		0.18		0.05	258	
VOL_082		0.92					1.56	69		5			43			93	0.08		0.15		0.04	254	
VOL_083		3.27					7.36	132		2			21			133	0.37		1.55		0.32	170	
VOL_086						3.2		1.4	2.3			0.05				66			1.2	0.05		4	0.3
VOL_087		1.6				10	1.98	701		9			24			56	0.31		0.92		0.23	146	20
VOL_088		2.93				13	9.96	39		1			22			147	0.75		1.38		0.27	86	20
VOL_089		6.6				15	16.65	16		0			16			437	1.15		1.8		0.36	85	20
VOL_090		2.22				22	5.83	38		14			33			193	0.49		0.62		0.15	136	20
VOL_091		2.97				13	5.83	27		1			25			107	0.51		1.46		0.34	214	20
VOL_092		2.9				10	6.53	75		16			26			285	0.58		1.73		0.36	189	20
VOL_093		0.91				11	5.88	75		28			56			252	0.34		0.49		0.03	167	20
VOL_094		1.41				4	3.59	75		12			44			122	0.38		0.35		0.08	407	20
VOL_095		2.01				4	5.19	75		60			46			118	0.48		0.7		0.15	503	20
VOL_096		4.41				4	9.23	24		0			22			48	0.75		1.07		0.22	91	20
VOL_097		1.34				4	3.76	95		11			45			44	0.4		0.36		0.09	402	20
VOL_098		0.61				9	1.63	295		8			31			140	0.26		0.55		0.12	176	20
VOL_099		0.52				15	1.26	177		7			44			170	0.25		0.14		0.06	307	20
VOL_100		0.54				13	1.19	171		1			43			116	0.24		0.1		0.02	296	20
VOL_101		0.46				15	1.26	172		9			43			134	0.25		0.17		0.1	299	20
VOL_102							6									263							
VOL_103							5									308							
VOL_112						10	0	75	10	0		0.1				270						195	

Sample	Ge [ppm]	Hf [ppm]	Hg [ppm]	In [ppm]	Li [ppm]	Mo [ppm]	Nb [ppm]	Ni [ppm]	Pb [ppm]	Rb [ppm]	Re [ppm]	Sb [ppm]	Sc [ppm]	Se [ppm]	Sn [ppm]	Sr [ppm]	Ta [ppm]		Th [ppm]	Tl [ppm]	U [ppm]	V [ppm]	W [ppm]
VOL_121						10	5	106	10	5		0				100						285	
VOL_125					12	5	30	41	5	5		0	45		0	160						355	0
VOL_126					23	5	17	26	5	20		0	10		0	160						120	0
VOL_127					21	5	30	97	5	20		0	24		0	240						220	0
VOL_128					13	5	15	12	5	20		0	7		0	305						80	0
VOL_129					0	5	0	63	5	0		0.1	55		0	125						260	25
VOL_130					0	5	0	60	37	0		0.1	55		0	55						255	25
VOL_131					0	5	0	93	13	0		0.5	25		0	185						185	25
VOL_132					0	5	0	141	21	0		11.7	30		0	200						100	0
VOL_133					0	5	0	124	5	0		0.4	24		0	200						125	0
VOL_134					0	5	0	86	71	0		0.4	18		0	145						135	0
VOL_135					15	0.5	0	550	5	0		0	15		1.5	100						100	0
VOL_136					65	0.5	0	295	10	0		0	20		1.5	200						150	0

Sample	Y [ppm]	Zn [ppm]	Zr [ppm]	Ru [ppm]	Rh [ppm]	Pd [ppm]	Os [ppm]	Ir [ppm]	Pt [ppm]	La [ppm]	Ce [ppm]	Pr [ppm]	Nd [ppm]	Sm [ppm]	Eu [ppm]	Gd [ppm]	Tb [ppm]	Dy [ppm]	Ho [ppm]	Er [ppm]	Tm [ppm]	Yb [ppm]	Lu [ppm]
VOL_001	19.14	81	195.7							41.8	90.66	11.2	45.01	8.37	2.28	6.36	0.77	3.82	0.69	1.83	0.25	1.76	0.24
VOL_003	19.15	86	124.5							13.26	31.15	4.18	17.8	3.92	1.16	3.84	0.59	3.55	0.73	2.09	0.3	2.03	0.31
VOL_004	12.71	71	136.2							31.2	64.81	8.15	32.96	6.2	1.68	4.51	0.54	2.62	0.46	1.24	0.17	1.1	0.17
VOL_005	27.18	122	251.6							23.57	55.6	7.34	30.73	6.45	1.58	5.97	0.89	5.18	1.04	2.93	0.43	2.76	0.42
VOL_006	21.45	90	145.9							20.54	47.49	6.19	25.99	5.32	1.41	4.68	0.67	3.97	0.79	2.25	0.32	2.09	0.31
VOL_007	18.1	99	45.1							2.34	6.42	1.02	5.63	1.84	0.6	2.54	0.45	3.08	0.69	2.12	0.32	2.12	0.33
VOL_008	12.78	68	32.8							1.39	3.93	0.67	3.7	1.25	0.47	1.81	0.33	2.17	0.48	1.43	0.22	1.44	0.22
VOL_009	40	165	35																				
VOL_010	13	86	115																				
VOL_011	13	108	45																				
VOL_012	25	50	60																				
VOL_013	6	38	60																				
VOL_014	22	72	45																				
VOL_015	35	180	45																				
VOL_016	21	72	40																				
VOL_017	21	67	40																				
VOL_018	10	74	70																				
VOL_020	31.99	147	91.5							4.37	12.4	2.02	10.92	3.58	1.39	4.95	0.86	5.62	1.23	3.67	0.54	3.61	0.56
VOL_021	9.4	69	24.4							1.06	2.9	0.51	2.64	0.95	0.39	1.33	0.24	1.64	0.36	1.11	0.17	1.1	0.17
VOL_022	15.96	79	91.9							9.29	21.42	2.94	12.9	2.97	0.84	2.95	0.48	2.9	0.6	1.75	0.25	1.67	0.25
VOL_023	21	150	25																				
VOL_024	20	128	0																				
VOL_025	30	146	115																				
VOL_026	17	66	0																				
VOL_027	17	144	0																				
VOL_030	100.13	112	322.3							15.64	43.9	7.06	35.98	11.37	3.32	15.37	2.69	17.58	3.8	11.33	1.72	11.43	1.77
VOL_031	11.62	69	116.4							7.59	17.44	2.26	9.87	2.25	0.66	2.33	0.36	2.16	0.45	1.28	0.18	1.21	0.18
VOL_032	4.46	49	96.5							10.83	22.76	2.8	10.95	2.03	0.63	1.56	0.19	0.92	0.17	0.43	0.06	0.42	0.06
VOL_033	3.47	34	75.1							11.28	23.44	2.78	10.92	1.86	0.53	1.24	0.15	0.72	0.12	0.33	0.05	0.29	0.04
VOL_034	4.46	68	92.9							12.73	26.5	3.29	12.66	2.14	0.61	1.52	0.18	0.9	0.16	0.44	0.06	0.4	0.06
VOL_035	10.6	28	113.5							9.68	21.73	2.77	11.75	2.51	0.88	2.28	0.34	1.98	0.4	1.18	0.18	1.16	0.18
VOL_036	6.47	52	94.3							4.38	10.83	1.49	6.28	1.44	0.52	1.33	0.2	1.18	0.25	0.73	0.11	0.71	0.11
VOL_037	5.43	162	108.2							4.95	11.33	1.58	6.97	1.44	0.36	1.25	0.17	1	0.21	0.63	0.09	0.63	0.1
VOL_038	10.57	2772	110							9.16	19.5	2.53	10.78	2.43	1.63	2.5	0.36	2.11	0.42	1.19	0.17	1.16	0.18
VOL_039	11.51	64	107							8.56	20.24	2.58	10.96	2.46	0.71	2.32	0.35	2	0.42	1.19	0.18	1.15	0.18
VOL_040	22	79	182							19.27	43.58	5.68	22.96	4.74	1.15	3.98	0.59	3.62	0.72	1.93	0.29	1.81	0.28
VOL_041	16	85	108							12.69	27.62	3.48	14.92	3.12	0.89	2.68	0.39	2.43	0.48	1.3	0.17	1.14	0.15
VOL_043		33								5													
VOL_044		100								14													
VOL_045		78								8													
VOL_046		80								11													
VOL_047		95								13													
VOL_048		51								6													
VOL_049		97								8													
VOL_050		60								5													
VOL_051	16	128	293							28.46	64.48	8.63	34.34	6.69	1.52	5.25	0.72	4.01	0.68	1.87	0.23	1.48	0.21

Sample	Y [ppm]	Zn [ppm]	Zr [ppm]	Ru [ppm]	Rh [ppm]	Pd [ppm]	Os [ppm]	Ir [ppm]	Pt [ppm]	La [ppm]	Ce [ppm]	Pr [ppm]	Nd [ppm]	Sm [ppm]	Eu [ppm]	Gd [ppm]	Tb [ppm]	Dy [ppm]	Ho [ppm]	Er [ppm]	Tm [ppm]	Yb [ppm]	Lu [ppm]
VOL_052	17	69	198							17.53	37.07	5.06	20.96	4.43	1.13	3.04	0.36	1.9	0.32	1	0.14	1.02	0.16
VOL_055	20	85	107							9.9	23.33	3.17	13.96	3.32	0.96	3.18	0.49	3.08	0.62	1.68	0.25	1.57	0.2
VOL_056	14	69	113							8.44	19.3	2.52	11.2	2.43	0.78	2.27	0.35	2.12	0.43	1.21	0.18	1.24	0.19
VOL_057	30.81	165	108							13.92	30.23	4.14	17.61	4.42	1.33	4.8	0.83	5.31	1.21	3.3	0.52	3.24	0.53
VOL_058	14	45	101							10.2	21.64	2.62	10.47	2.21	0.7	2.05	0.32	1.92	0.41	1.16	0.18	1.22	0.18
VOL_059	33	159	316							33.04	77.02	9.97	39.8	8.16	1.9	6.78	1.01	6.01	1.18	3.27	0.48	2.96	0.42
VOL_060	21	273	206							23.57	54.06	7.16	28.17	5.46	0.96	3.78	0.52	3.25	0.66	2.07	0.3	2.02	0.33
VOL_061	12	80	94							11.81	26.26	3.33	14.07	2.68	0.67	1.74	0.2	1.16	0.22	0.67	0.1	0.76	0.11
VOL_062	25	98	242							31.86	69.85	8.75	35.53	7.09	1.41	5.62	0.76	4.46	0.85	2.31	0.32	1.96	0.3
VOL_063	9	73	99							24.74	51.04	6.28	25.22	4.5	1.13	2.84	0.3	1.48	0.23	0.6	0.08	0.52	0.08
VOL_064	23	220	147							20.38	46.72	6.18	26.64	5.42	1.55	4.5	0.62	3.54	0.71	1.96	0.28	1.75	0.27
VOL_068		70								5													
VOL_069	75		231							16.2	54		22	10.6	2.8		2.3					9.3	1.09
VOL_070	21	112	165							14.07	33.62	4.66	19.42	4.27	1.14	3.92	0.58	3.62	0.71	2.02	0.27	1.76	0.26
VOL_071	22	216	222							29.6	68.17	9.28	36.92	6.92	1.59	5.37	0.72	4.12	0.76	2.18	0.29	1.92	0.3
VOL_072	20	91	171							14.26	32.44	4.45	18.67	4.27	1.3	3.78	0.57	3.4	0.69	2.03	0.28	1.9	0.29
VOL_073	20	11118	118							12.13	28.17	3.83	16.02	3.34	1.6	2.77	0.37	2.14	0.41	1.27	0.18	1.36	0.21
VOL_074	16	68	180							18.84	41.62	5.4	21.03	4.16	1.34	3.23	0.44	2.59	0.49	1.55	0.23	1.73	0.27
VOL_075	25	94	178							20.22	45.1	6.19	25.89	5.49	1.41	4.91	0.7	4.3	0.84	2.48	0.35	2.28	0.35
VOL_076	22	106	184							19.03	42.35	5.63	22.7	4.61	1.14	3.56	0.44	2.46	0.42	1.39	0.21	1.63	0.27
VOL_077	22	78	158							21.01	46.14	6.15	25.43	5.08	1.49	4.52	0.63	3.84	0.74	2.15	0.3	1.94	0.3
VOL_078	22	82	51							2.3	6.56	0.99	5.5	1.85	0.68	2.44	0.43	3.21	0.73	2.16	0.32	2.17	0.32
VOL_079	20	83	48							1.98	5.48	0.86	4.84	1.68	0.68	2.22	0.4	2.84	0.65	1.9	0.3	2.04	0.29
VOL_080	29	112	66							3.38	9.36	1.47	7.69	2.74	1	3.36	0.62	4.4	0.95	2.69	0.42	2.67	0.36
VOL_081	21	94	47							2.23	6.35	1.01	5.41	1.82	0.52	2.35	0.43	2.95	0.67	1.95	0.31	2.16	0.32
VOL_082	20	72	45							2.02	5.63	0.85	4.72	1.55	0.59	2.04	0.37	2.78	0.61	1.79	0.28	1.9	0.28
VOL_083	24	164	149							17.35	41.72	5.65	24.3	4.96	1.3	3.83	0.49	2.96	0.55	1.6	0.24	1.56	0.24
VOL_086		75								11													
VOL_087	10	100	62							6.62	14.47	1.91	7.81	1.84	0.58	1.87	0.28	1.93	0.4	1.2	0.17	1.21	0.18
VOL_088	87	75	266							13.89	35.54	5.64	27.73	8.45	2.26	10.64	1.88	12.11	2.64	7.49	1.04	6.27	0.89
VOL_089	134	19	408							18.6	49.04	7.8	38.39	12.02	3.05	15.19	2.77	18.61	4.3	12.8	1.9	12.28	1.87
VOL_090	53	131	124							7.61	19.88	3.23	16.01	4.98	1.74	6.23	1.12	7.45	1.66	4.87	0.72	4.84	0.77
VOL_091	18	31	129							12.63	30.75	4.18	17.57	3.98	1.32	3.41	0.55	3.29	0.67	1.85	0.25	1.59	0.25
VOL_092	20	97	133							12.94	30.1	4.12	17.36	4.02	1.16	3.83	0.61	3.62	0.77	2.23	0.33	2.08	0.33
VOL_093	20	90	77							1.67	4.99	0.86	4.76	1.65	0.78	2.3	0.4	2.64	0.66	2.08	0.34	2.4	0.4
VOL_094	32	156	89							4.36	11.85	1.94	9.87	3.24	1.08	4.24	0.77	5.17	1.19	3.49	0.52	3.48	0.54
VOL_095	31	107	129							7.52	19.2	2.89	13.45	3.56	1.1	3.66	0.63	4.04	0.86	2.5	0.36	2.51	0.37
VOL_096	73	62	279							3.58	12.11	2.42	13.64	5.94	1.39	7.51	1.44	9.82	2.19	6.62	1	6.35	0.97
VOL_097	43	275	101							4.25	10.88	1.69	8.32	2.75	1.19	4.02	0.74	5.11	1.18	3.42	0.51	3.25	0.5
VOL_098	9	88	49							4.91	11.73	1.71	7.47	1.81	0.56	1.74	0.26	1.71	0.35	1.03	0.14	0.92	0.14
VOL_099	13	84	32							1.64	4.4	0.71	3.61	1.2	0.57	1.62	0.3	1.95	0.43	1.26	0.18	1.18	0.16
VOL_100	14	86	28							1.32	3.79	0.66	3.56	1.22	0.52	1.7	0.31	2.18	0.49	1.46	0.22	1.39	0.2
VOL_101	10	140	31							2.94	7.1	1.05	4.94	1.5	0.65	1.71	0.3	2.03	0.43	1.24	0.18	1.2	0.16
VOL_102																							
VOL_103																							
VOL_112	35	98	0																				

Sample	Y [ppm]	Zn [ppm]	Zr [ppm]	Ru [ppm]	Rh [ppm]	Pd [ppm]	Os [ppm]	Ir [ppm]	Pt [ppm]	La [ppm]	Ce [ppm]	Pr [ppm]	Nd [ppm]	Sm [ppm]	Eu [ppm]	Gd [ppm]	Tb [ppm]	Dy [ppm]	Ho [ppm]	Er [ppm]	Tm [ppm]	Yb [ppm]	Lu [ppm]
VOL_121	30	92	90																				
VOL_125	40	165	35																				
VOL_126	13	86	115																				
VOL_127	13	108	45																				
VOL_128	10	74	70																				
VOL_129	17	66	0																				
VOL_130	17	144	0																				
VOL_131	11	58	0																				
VOL_132	13	275	0																				
VOL_133	19	104	0																				
VOL_134	18	71	0																				
VOL_135	10	70	90																				
VOL_136	10	90	100																				

Appendix 6- Sample Tables Intrusives

Sample	Comment1	Comment2	Comment3	Comment4	Comment5	SiO_2 [wt.%]	TiO_2 [wt.%]	Al_2O_3 [wt.%]	Fe_2O_3 [wt.%]	MnO [wt.%]	MgO [wt.%]	CaO [wt.%]	Na_2O [wt.%]	K_2O [wt.%]
INT_001	z_04ASP-KL2143-87-05-6.1	Intrusive	Porphyry - Intermediate	Upper Tisdale		42.12	0.66	9.00	8.01	0.17	11.31	8.43	1.71	0.11
INT_002	z_BRB-00-183	Intrusive	GABBRO	Lower Blake River		43.43	2.60	11.34	20.87	0.24	8.23	9.70	1.79	0.27
INT_003	z_04ASP-KL2143-87-05-7.1	Intrusive	Porphyry - Intermediate	Upper Tisdale		43.61	0.71	9.31	8.70	0.17	13.66	6.34	1.39	0.03
INT_004	z_111811	Intrusive	GRANODIORITE	Lower Blake River		46.10	3.43	16.51	13.19	0.18	4.72	8.71	3.29	0.98
INT_005	z_98-CMV-010a	Intrusive	GABBRO	Lower Blake River		47.96	0.46	16.14	8.60	0.13	10.90	7.96	2.34	1.31
INT_006	z_97JAA-0017	Intrusive	GABBRO	Lower Tisdale		49.92		13.81	12.16	0.19	7.79	9.09	2.86	0.33
INT_007	z_04ASP-216-1.1	Intrusive	Mafic Dyke	Lower Tisdale		50.57	1.36	13.40	16.53	0.21	5.66	9.28	2.11	0.27
INT_008	z_97JAA-0071	Intrusive	INTERMEDIATE INTRUSIVE	Upper Tisdale		52.52	0.27	15.94	6.87	0.11	4.55	5.88	4.80	0.95
INT_009	z_111815	Intrusive	Felsic Intrusive	Lower Blake River		58.35	0.69	14.83	7.14	0.12	5.06	7.09	2.90	0.70
INT_010	z_111814	Intrusive	QUARTZ FELDSPAR PORPHYRY	Lower Blake River		58.72	0.87	14.66	7.30	0.16	5.60	5.40	3.31	0.66
INT_011	z_98-CMV-300f	Intrusive	PORPHYRY	Upper Tisdale		58.72	0.37	14.02	4.22	0.08	3.72	5.60	6.31	0.09
INT_012	z_04ASP-220-2.1	Intrusive	Porphyry - intermediate	Lower Blake River		58.82	1.18	16.97	6.31	0.12	3.35	6.89	4.49	1.15
INT_013	z_111813	Intrusive	FELDSPAR PORPHYRY	Lower Blake River		60.41	0.82	14.88	6.39	0.13	4.68	6.25	3.92	0.69
INT_014	z_04ASP-KL0068-T-26-2.1	Intrusive	Porphyry - intermediate	Upper Tisdale		60.75	0.54	17.08	5.01	0.09	2.88	5.34	5.09	1.62
INT_015	z_04ASP-203-1.1	Intrusive	Porphyry - intermediate	Upper Tisdale		61.04	0.90	16.22	6.36	0.10	4.21	3.11	4.99	0.89
INT_016	z_98-CMV-008a	Intrusive	SYENITE	Lower Blake River		61.19	0.33	17.88	3.11	0.08	0.93	3.16	7.06	4.05
INT_017	z_04ASP-KL2141-86-02-2.1	Intrusive	Porphyry - intermediate	Upper Tisdale		61.52	0.53	16.02	4.93	0.09	2.64	2.99	6.95	0.31
INT_018	z_04ASP-204-4.1	Intrusive	Porphyry - felsic	Lower Tisdale		62.60	0.50	15.99	5.80	0.06	3.54	4.11	4.61	1.11
INT_019	z_98-CMV-005c	Intrusive	PORPHYRY	Lower Blake River		62.90	0.45	14.09	4.35	0.08	3.48	4.34	4.80	3.60
INT_020	z_98-CMV-008b	Intrusive	SYENITE	Lower Blake River		63.96	0.20	17.90	1.88	0.08	0.34	1.47	9.02	2.81
INT_021	z_04ASP-214-2.1	Intrusive	Porphyry - felsic	Lower Tisdale		64.62	0.55	15.61	4.91	0.08	3.15	2.77	5.68	0.70
INT_022	z_04ASP-CB-13-1.1	Intrusive	Porphyry - felsic	Upper Tisdale		65.92	0.35	17.07	2.77	0.04	1.74	3.29	4.63	1.81
INT_023	z_04ASP-205-2.1	Intrusive	Porphyry - felsic	Upper Tisdale		66.02	0.37	17.21	2.86	0.04	1.55	4.13	5.77	1.07
INT_024	z_98-CMV-015-4a	Intrusive	PORPHYRY	Lower Blake River		66.57	0.40	16.14	2.97	0.04	1.55	3.11	6.42	0.69
INT_025	z_04ASP-CB-16-5.1	Intrusive	Porphyry - felsic	Upper Tisdale		66.85	0.30	16.76	2.92	0.04	1.41	1.67	7.58	0.84
INT_026	z_04ASP-218-3.1	Intrusive	Porphyry - felsic	Lower Blake River		67.47	0.83	11.07	10.18	0.14	0.92	3.49	3.97	0.35
INT_027	z_04ASP-CB-16-3.1	Intrusive	Porphyry - felsic	Upper Tisdale		67.50	0.31	16.19	2.35	0.03	1.84	1.58	6.97	0.97
INT_028	z_111816	Intrusive	QUARTZ FELDSPAR PORPHYRY	Lower Blake River		67.84	0.32	15.15	2.96	0.04	1.13	2.82	5.35	1.57
INT_029	z_98-CMV-208a	Intrusive	GRANODIORITE	Upper Tisdale		69.19	0.23	15.57	1.51	0.02	0.83	2.26	5.83	2.25
INT_030	z_98-CMV-207b	Intrusive	PORPHYRY	Upper Tisdale		69.57	0.32	15.24	2.35	0.02	1.02	1.73	5.13	1.93
INT_031	z_98-CMV-005d	Intrusive	PORPHYRY	Lower Blake River		69.71	0.27	15.41	1.73	0.02	1.05	1.56	6.67	1.26
INT_032	z_98-CMV-018b	Intrusive	Tonalite	Lower Blake River		74.44	0.26	11.56	6.10	0.06	0.37	1.91	4.71	0.26
INT_048	z_108484	Intrusive	DIORITE	Lower Blake River										
INT_049	z_108486	Intrusive	DIORITE	Lower Blake River										
INT_050	z_108489	Intrusive	FELDSPAR PORPHYRY	Lower Blake River										
INT_051	z_108490	Intrusive	FELDSPAR PORPHYRY	Lower Blake River										
INT_052	z_108485	Intrusive	GRANODIORITE	Lower Blake River										
INT_053	z_108488	Intrusive	GRANODIORITE	Lower Blake River										
INT_054	84STM-0300	Intrusive	TRONDHJEMITE	Lower Tisdale		63.90	0.21	18.10	0.73	0.01	0.53	2.61	9.91	0.32
INT_055	84STM0300D	Intrusive	TRONDHJEMITE	Lower Tisdale		64.30	0.21	18.20	0.64	0.01	0.64	2.63	9.70	0.31
INT_056	85JNM-0001	Intrusive	SYENITE	Lower Blake River		65.10	0.31	18.50	0.56	0.05	0.54	1.81	10.40	0.08
INT_057	85JNM-0016	Intrusive	SYENITE	Lower Blake River		65.40	0.09	19.30	0.65	0.03	0.03	0.74	6.85	5.58
INT_058	85JNM-0054	Intrusive	SYENITE	Lower Blake River		69.10	0.18	16.30	0.60	0.03	0.58	1.27	7.35	3.36
INT_059	85JNM-0057	Intrusive	SYENITE	Lower Blake River		65.20	0.09	18.90	0.43	0.02	0.09	0.57	4.59	8.58
INT_060	85JNM0001D	Intrusive	SYENITE	Lower Blake River		66.00	0.17	18.30	0.70	0.05	0.55	1.82	10.40	0.14
INT_061	85LSJ-0935	Intrusive	SYENITE	Lower Blake River		64.70	0.37	14.20	0.80	0.07	4.64	2.85	5.51	1.02
INT_062	85LSJ-0947	Intrusive	SYENODIORITE	Lower Blake River		63.20	0.21	19.00	1.14	0.05	0.62	1.37	6.20	5.77

Sample	P_2O_5 [wt.%]	SO_3 [wt.%]	Cl [wt.%]	F [wt.%]	H_2O [wt.%]	CO_2 [wt.%]	LOI [wt.%]	Total [wt.%]	Ag [ppm]	As [ppm]	Au [ppm]	B [ppm]	Ba [ppm]	Be [ppm]	Bi [ppm]	Cd [ppm]	Co [ppm]	Cr [ppm]	Cs [ppm]	Cu [ppm]	Ga [ppm]	Ge [ppm]
INT_001	0.12						18.49	100.27					31.00				42.00	1077.00	0.15	26.00		
INT_002	0.11						1.58	100.18					49.00	4.00			67.93	107.00	0.29	160.26	15.18	
INT_003	0.14						15.93	100.14					17.00				47.00	1094.00	0.16	25.00		
INT_004	0.82						0.75	98.68			1.00		981.00				66.00	55.00	0.50			
INT_005	0.07						2.90	98.77					249.00	1.50			41.00	475.00	0.91			
INT_006	0.72	0.04				0.10	1.72	98.54					121.00				42.00	161.00	0.62	186.00		
INT_007	0.11						1.04	100.57					72.00				41.00	84.00	0.34	132.00		
INT_008	0.75	1.78				1.68	4.72	97.36					541.00				27.00	122.00	1.30	1381.00		
INT_009	0.16						2.29	99.32			1.00		213.00				33.00	259.00	0.50			
INT_010	0.19						1.87	98.75			1.00		444.00				35.00	226.00	0.50			
INT_011	0.31						5.34	98.78					1226.00	1.50			16.00	169.00	0.17	29.00		
INT_012	0.25						0.81	100.35					315.00				15.00	48.00	0.68	71.00		
INT_013	0.20						1.64	100.00			1.00		293.00				33.00	226.00	0.50			
INT_014	0.24						1.78	100.43					1014.00				15.00	52.00	1.21	113.00		
INT_015	0.21						2.25	100.29					319.00				10.00	79.00	0.49	61.00		
INT_016	0.14						0.56	98.49					1878.00	1.50			7.00	41.00	0.56	15.00		
INT_017	0.13						3.66	99.78					278.00				14.00	40.00	0.23	0.00		
INT_018	0.10						1.61	100.04					212.00				18.00	121.00	0.69	3.00		
INT_019	0.30						0.95	99.34					1200.00	1.50			17.00	166.00	0.37	30.00		
INT_020	0.03						0.59	98.28					2189.00	4.00				98.00	0.35			
INT_021	0.13						1.82	100.03					266.00				11.00	60.00	0.32	0.00		
INT_022	0.12						2.72	100.45					559.00				7.00	26.00	1.26	11.00		
INT_023	0.13						1.25	100.39					367.00				6.00	23.00	0.84	5.00		
INT_024	0.11						1.24	99.24					457.00	1.50			8.00	133.00	0.28	13.00		
INT_025	0.11						1.75	100.22					230.00				7.00	20.00	0.33	0.00		
INT_026	0.23						1.70	100.39					243.00				13.00	243.00	0.67	34.00		
INT_027	0.12						1.93	99.79					260.00				8.00	22.00	0.52	5.00		
INT_028	0.09						1.49	98.76			8.00		389.00				11.00	39.00	0.50			
INT_029	0.08						0.87	98.64					1073.00	1.50				25.00	0.58			
INT_030	0.08						2.36	99.75					607.00	1.50			5.00	14.00	4.01	6.00		
INT_031	0.16						1.59	99.43					1538.00	1.50			6.00	43.00	0.62	6.00		
INT_032	0.03						0.93	100.63					114.00	1.50				124.00	0.17	7.00		
INT_048									0.05		0.25		62.00			0.10	28.80	27.00		117.00	10.00	
INT_049									0.05		0.25		55.10			0.10	21.30	30.00		100.00	10.00	
INT_050									0.05		0.25		32.40			0.05	20.50	161.00		49.80	9.00	
INT_051									0.40		23.60		51.20			0.40	8.40	30.00		187.00	8.00	
INT_052									0.05		0.25		49.20			0.20	25.50	15.00		61.20	11.00	
INT_053									0.05		0.25		56.20			0.05	28.50	19.00		163.00	10.00	
INT_054	0.04	0.16				1.26	1.8	99.1	1	0.5	0.001	0	510	0			5	5		8	0	
INT_055	0.06	0.16				1.24	1.7	99.4	1	0.5	0.001	0	530	0			5	5		8	0	
INT_056	0.01	0				0.14	0.4	98.54	1	0.5	0.001	0	150	0			7	15		8	0	
INT_057	0.01	0				0.1	0.2	99.24	1	0.5	0.001	0	1900	0			2.5	5		6	0	
INT_058	0.07	0.02				0.08	0.3	99.57	1	0.5	0.001	0	1190	0			9	31		7	0	
INT_059	0	0.02				0.24	0.6	99.32	1	0.5	0.001	0	6100	0			7	10		5	0	
INT_060	0.01	0				0.15	0.3	99.31	1	0.5	0.001	0	140	0			8	15		8	0	
INT_061	0.11	0.13				0.65	2.3	99.1	1	1	0.004	0	0	1			15	269		13	0	
INT_062	0.06	0.03				0.15	0.4	98.8	1	1	0.001	0	0	1			6	32		29	0	

Sample	Hf [ppm]	Hg [ppm]	In [ppm]	Li [ppm]	Mo [ppm]	Nb [ppm]	Ni [ppm]	Pb [ppm]	Rb [ppm]	Re [ppm]	Sb [ppm]	Sc [ppm]	Se [ppm]	Sn [ppm]	Sr [ppm]	Ta [ppm]
INT_001	1.90					3.40	289.00		1.17						184.40	0.19
INT_002	1.06			15.28		1.41	131.67	2.02	6.00			54.76		0.32	98.00	0.49
INT_003	2.10					3.80	310.00		0.12						142.90	0.20
INT_004	3.00								10.00		0.10				836.00	0.25
INT_005	0.71				12.00	1.62	330.00		47.00			24.00			230.00	0.28
INT_006	0.89					1.57	74.00		23.00			42.00			238.00	0.08
INT_007	2.10					2.90	81.00		4.67						231.10	0.17
INT_008	3.47					6.08	70.00		38.00			18.00			479.00	0.29
INT_009	4.00								10.00		0.10				315.00	0.25
INT_010	5.00								10.00		0.10				323.00	0.25
INT_011	2.58				10.00	3.19	46.00		2.00			11.00			592.00	0.33
INT_012	3.90					6.60	46.00		39.33						366.80	0.44
INT_013	4.00								10.00		0.40				320.00	1.40
INT_014	3.50					5.30	45.00		40.34						704.10	0.30
INT_015	5.40					8.20	53.00		19.02						296.20	0.50
INT_016	4.83				14.00	12.55	13.00		56.00			3.00			2909.00	0.67
INT_017	2.40					4.20	37.00		6.85						177.00	0.24
INT_018	2.70					2.40	80.00		45.59						215.10	0.00
INT_019	3.21				11.00	4.62	47.00		71.00			11.00			771.00	0.41
INT_020	4.13				15.00	9.88	6.00		32.00			1.00			1431.00	0.54
INT_021	3.10					4.60	54.00		15.74						255.50	0.30
INT_022	2.20					3.30	27.00		50.01						376.10	0.19
INT_023	2.50					3.70	27.00		29.75						522.70	0.21
INT_024	2.23				14.00	3.96	28.00		16.00			4.00			667.00	0.37
INT_025	2.10					3.10	25.00		18.43						169.70	0.18
INT_026	4.40					6.50	96.00		26.05						332.80	0.41
INT_027	2.30					3.20	25.00		22.46						269.30	0.19
INT_028	3.00								30.00		0.10				275.00	0.25
INT_029	2.77				17.00	1.69	10.00		46.00			3.00			1160.00	0.27
INT_030	2.24				16.00	2.30	9.00		70.00			2.00			278.00	0.33
INT_031	3.04				12.00	2.52	18.00		28.00			3.00			974.00	0.30
INT_032	6.34				4.00	19.33	6.00		5.00			4.00			101.00	1.40
INT_048					1.00		32.90	4.70			0.30				36.00	
INT_049					0.80		31.30	4.70			0.05				39.00	
INT_050					5.00		79.90	1.50			0.10				66.00	
INT_051					1.90		28.20	23.40			0.50				65.00	
INT_052					1.00		20.40	7.50			0.05				13.00	
INT_053					0.70		37.90	3.60			0.10				39.00	
INT_054				1.5	5	0	2.5	30	0		0.1	0		0	0	
INT_055				1.5	5	0	2.5	30	0		0.1	0		0	0	
INT_056				0	0	2.5	10	20	0		0	0		0	0	
INT_057				0	0	2.5	2.5	18	0		0	0		0	0	
INT_058				0	0	2.5	13	29	0		0	0		0	0	
INT_059				0	0	2.5	2.5	18	0		0	0		0	0	
INT_060				0	0	2.5	7	15	0		0	0		0	0	
INT_061				0	5	0	144	13	0		3.8	0		0	260	
INT_062				0	5	0	11	56	0		0.05	1		0	2030	