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NEWFOUNDLAND AND LABRADOR
Department of Natural Resources
Geological Survey

TILL GEOCHEMISTRY OF THE GLOVER GROUP, WESTERN NEWFOUNDLAND

(NTS MAP AREAS 12A/12 and 12A/13)



S.J. McCuaig, D.G.E. Liverman and D.M. Taylor

Open File 012A/1209

**St. John's, Newfoundland
June, 2006**

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Cover photo: Perched erratic boulder of Topsails Granite, eastern part of the study area.



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ABSTRACT

This open file reports the results of geochemical analyses of 206 B-, BC- and C-horizon till samples obtained in a regional sampling program over the subcrop of the Glover Group in western Newfoundland. The area sampled (using an approximate 1 to 3.5 km space grid) includes all of Glover Island, and the area lying between Grand Lake, Little Grand Lake and the Topsail Hills. Estimation of data quality was performed by examining the results of analyses from duplicate samples collected from the same site obtained in the field, and from duplicates generated by re-analysis of the same sample in the laboratory.

Till geochemistry has identified several possible targets for exploration, including gold mineralization on Glover Island, in areas with no previous known gold showings; possible gold mineralization associated with arsenic between Little Grand Lake and Grand Lake; nickel on Glover Island; uranium associated with Carboniferous rocks of the Deer Lake basin; and uranium associated with Topsails granitic intrusions.

INTRODUCTION

The Glover Group is an oceanic-derived sequence of rocks that has significant potential for mineralization (Cawood and Van Gool, 1998). It is the principal rock group underlying Glover Island, a large island at the southern end of Grand Lake, and the area of land just east of the island (Figures 1 and 2). Because of the mineral potential of the Glover Group, Glover Island has been a site of active mineral exploration for over 30 years. In 2002, Glover Island was designated as a public reserve and the area southeast of it as wildlife and provisional ecological reserves to protect the endangered Newfoundland Pine Marten. The reserve areas cover large parts of the Glover Group and mineral exploration is currently permitted in the public and wildlife reserves with a permit only, under guidelines to minimize the impact of exploration activities on the Pine Marten; exploration is not allowed in the provisional ecological reserve areas.

This study was initiated to delineate mineral potential within the Glover Group prior to permanent reserve designation, to provide baseline data on surficial geochemistry, and to assist mineral exploration efforts in the area. Till geochemistry was chosen for its effectiveness in delineating mineral potential in other areas (e.g., Snegamook Lake, Labrador, McCuaig and Taylor, 2005) and effect in stimulating staking activity after the release of data (e.g., Bonavista Peninsula, Newfoundland; Batterson and Taylor, 2001).

LOCATION AND ACCESS

The study area encompasses the entire Glover Group, exposed on Glover Island and on the southeastern shore of Grand Lake. The study area covers parts of 1:50 000 scale NTS map areas 12A/12 and 12A/13 and is inaccessible by vehicle. The few logging roads present are deteriorating rapidly due to lack of use, especially those on Glover Island. Roads on the mainland part of the study area are cut off from other road networks by washouts, and streams are too shallow and rocky for boats. Grand Lake provides access via boat, but the steep shoreline and high cliffs limit further access; hence access to the area is mostly by helicopter.

SETTING

Glover Island is a boggy plateau having steep cliffs on its northwestern and southern shores, and a few hilly areas in the hinterland. Its highest peak is 595 m asl, about 510 m above the surface of Grand Lake. The region southeast of Glover Island is part of the Long Range Mountains, and forms a glacially dissected plateau, with steep cliffs flanking its western shore on Grand Lake and its southern shore on Little Grand Lake. The Topsails Igneous Suite in the east forms high promontories that overlook the boggy plateau to the west (highest peak 719 m asl) and is part of The Topsails.

BEDROCK GEOLOGY

When the Iapetus Ocean closed during the Middle Ordovician Taconic Orogeny, ophiolitic Dunnage Zone rocks were thrust northwestward over the Grenvillian basement of the Humber Zone (e.g., Williams, 1979). The Baie Verte–Brompton Line, the suture which separates the two zones, is represented in the study area by the Cabot Fault; it lies west of Glover Island beneath Grand Lake (Cawood *et al.*, 1996).



Figure 1. *Location of study area.*

Humber Zone

There are only a few rocks of Laurentian margin affinity in the study area and most are found west of Grand Lake. A small area on western Glover Island exposes the early Mesoproterozoic Corner Brook Lake Complex. It consists of granitoid banded gneisses (Cawood and Van Gool, 1998; Cawood *et al.*, 1996). The Corner Brook Lake Complex is unconformably overlain by the (age?) South Brook Formation which includes psammitic and pelitic schists, minor marble, amphibolite and conglomerate (Cawood and Van Gool, 1998; Cawood *et al.*, 1996). A small part of the Neoproterozoic Hare Hill Granite, a massive to foliated red granite, outcrops at the mouth of Lewaseechjeech Brook (Currie and van Berkel, 1992).

Dunnage Zone

Many of the Dunnage Zone rocks are ophiolites and other mafic and ultramafic rocks that form part of the Iapetus Ocean basin. The Grand Lake Complex is dominated by gabbro and is considered to be a vestige of Iapetan oceanic crust obducted during the Taconic Orogeny. The complex is Late Cambrian to Early Ordovician and forms the hangingwall of the Grand Lake Complex Thrust Fault (Knapp, 1983). Other components of the complex include ophiolitic ultramafic rocks, sheeted diabase dykes, greenschist-facies, semi-pelitic schists, talc-carbonate schist, minor trondhjemite and diorite, and crosscutting mafic dykes (Cawood and Van Gool, 1998; Cawood *et al.*, 1996; Currie and van Berkel, 1992; Knapp, 1983; Szybinski *et al.*, 1995). The Kettle Pond Shear Zone separates the Grand Lake Complex from the Glover Group to the east (Cawood and Van Gool, 1998b). The Glover Group is Early Ordovician (Currie, 1987), is variably deformed, and is metamorphosed to greenschist facies (Knapp, 1983). The group is composed of steeply dipping ophiolites and mafic to felsic plutonic, volcanic and volcanoclastic rocks (Cawood and Van Gool, 1998; Cawood *et al.*, 1996). Lower sequences include conglomerate, shale and chert (Cawood and Van Gool, 1998; Cawood *et al.*, 1996; Knapp, 1983; Szybinski *et al.*, 1995; Whalen, 1993).

A number of younger plutons have intruded the ophiolitic and younger clastic rocks. The Pierre's Pond Plutonic Suite, at the northern end of Little Grand Lake, consists of Early to Middle Ordovician foliated hornblende-biotite tonalite (Whalen, 1993). Farther east, foliated Middle Ordovician granodiorite and tonalite intrusions make up the Lewaseechjeech Brook Plutonic Suite (Whalen, 1993). The Bottom Brook Intrusions are small and consist of gabbroic and ultramafic rocks (Currie and van Berkel, 1992; Williams, 1985). The Rainy Lake Complex has intruded the Glover Group, just east of Glover Island. This complex is composed of gabbro, granodiorite, granite and tonalite (Whalen, 1993). The Glover Island Granodiorite has also intruded the Glover Group. It is made up of beige to grey foliated granodiorite of Late Ordovician age (Cawood and Van Gool, 1998; Cawood *et al.*, 1996; Whalen, 1993). The Early Silurian Little Paddle Point Pluton, found near the southwestern tip of Glover Island includes brecciated granodiorite, granite and some pegmatite. It may be related to the Glover Island Granodiorite (Cawood and Van Gool, 1998). The Early Silurian Topsails Igneous Suite forms the higher hills in the east of the study area. It is composed of a variety of undeformed granitoids and also intrudes the Glover Group. The suite has been cut by mafic dykes (van Berkel and Currie, 1988; Whalen, 1993).

The Mississippian Deer Lake Group, at the north end of Glover Island, contains red to grey conglomerate and sandstone, lacustrine mudstone and limestone. These rocks have been assigned to the North Brook Formation (Cawood and Van Gool, 1998; Cawood *et al.*, 1996; Knight, 1994). The overlying

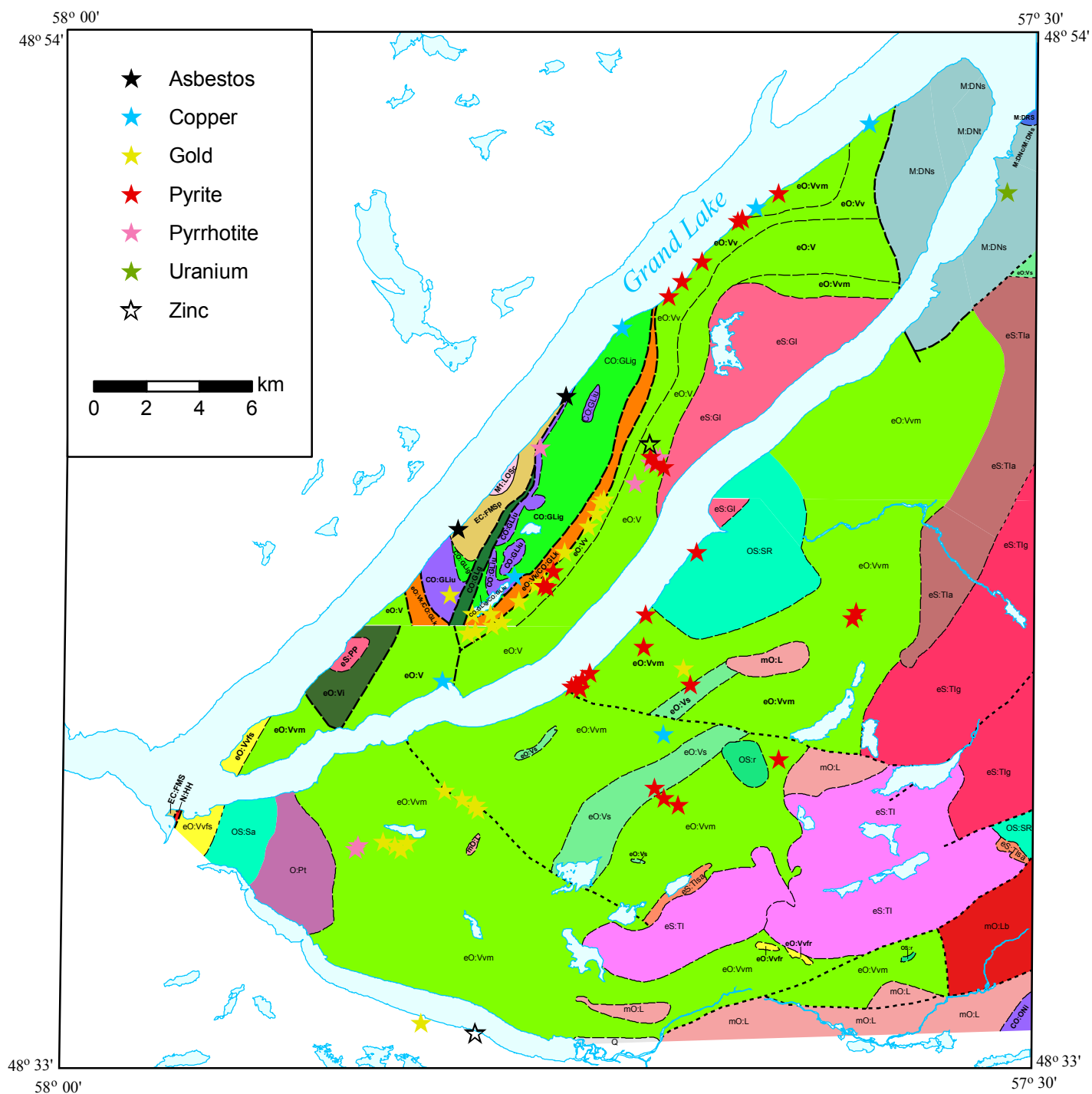


Figure 2. Bedrock geology and mineral occurrences.

LEGEND (for Figure 2)

DUNNAGE ZONE

MISSISSIPPIAN

DEER LAKE GROUP

Rocky Brook Formation

M:DRS Calcareous siltstone, mudstone, calcareous dolostone and dolomitic limestone, minor sandstone and oil shale

North Brook Formation

M:DNs Mainly sandstone, but also pebble to cobble conglomerate, pebbly sandstone, red siltstone and limestone

EARLY SILURIAN

TOPSAILS IGNEOUS SUITE

eS:TI Granite

eS:TIg Granite; with pegmatite patches

eS:Tlsa Quartz syenite to granite

eS:Tla Granite to granodiorite

Little Paddle Point Pluton

eS:PP Granodiorite with minor granite, gabbro and diorite

Glover Island Granodiorite

eS:GI Granodiorite with minor granite, gabbro and diorite

LATE ORDOVICIAN TO EARLY SILURIAN

Rainy Lake Complex

OS:SR Gabbro, diorite, granite, tonalite and granodiorite

Bottom Brook Intrusion

OS:Sa Gabbro to quartz diorite

OS:r Gabbro

MIDDLE ORDOVICIAN

LEWASEECHJEECH BROOK PLUTONIC SUITE

mO:Lb Tonalite to granodiorite

mO:L Granodiorite

EARLY TO MIDDLE ORDOVICIAN

PIERRE'S POND PLUTONIC SUITE

O:Pt Hornblende tonalite

EARLY ORDOVICIAN

Glover Formation

eO:Vk Greenschist and sericite schist

eO:Vs Tuff, tuffaceous sedimentary rocks and conglomerate

eO:Vvfs Intermediate to felsic volcanic rocks; chlorite-actinolite schist, porphyritic rhyolite and porphyry, gabbroic and dioritic sills, minor red chert

eO:Vvm Pillow basalt, agglomerate, diabase and minor red chert

eO:Vv Pillow basalt, massive basalt, agglomerate, minor banded rhyolite and red chert

eO:Vi Mafic intrusive rocks

eO:v Mafic and silicic volcanic rock, minor volcanoclastic sedimentary rocks

LATE CAMBRIAN TO EARLY ORDOVICIAN

Unnamed ophiolite

CO:ONi Ultramafic rocks, gabbro, and diabase

GRAND LAKE COMPLEX

CO:GLk Greenschist, mica schist, serpentine and talc-carbonate schist

CO:GLg Banded and massive greenschist

CO:GLig Gabbro

CO:GLiu Peridotite, wehrlite and talc-schist

HUMBER ZONE

NEOPROTEROZOIC TO MIDDLE CAMBRIAN

South Brook Formation

EC:FMS Psammitic and pelitic schist, quartzite, garnet schist, and minor marble, amphibolite and conglomerate

NEOPROTEROZOIC

Hare Hill Granite

N:HH Granite and leucogranite

EARLY MESOPROTEROZOIC

Corner Brook Lake Formation

M1:LOs Granitoid gneiss with amphibolite, minor quartzite, marble and psammitic gneiss

Rocky Brook Formation consists of mudstone, oil shale and limestone, and outcrops at the northeastern tip of the area surveyed (Cawood and Van Gool, 1998; Knight, 1994).

ECONOMIC GEOLOGY

Oceanic rocks of the Dunnage Zone are known to contain gold and base metals – this area is no exception. Gold occurs along the Humber–Dunnage boundary, (within the Kettle Pond Shear Zone) on Glover Island (Cawood and Van Gool, 1998) and also along a shear zone between Grand Lake and Little Grand Lake (Currie and van Berkel, 1992). Mafic and ultramafic intrusions on Glover Island and areas east contain gold, platinum and palladium (van Berkel and Currie, 1988), while the Glover Group hosts copper mineralization (Cawood and Van Gool, 1998).

The Deer Lake Group hosts uranium mineralization, including the Grand Pond Point #2 showing within the study area.

QUATERNARY GEOLOGY

SURFICIAL GEOLOGY

The surficial geology of the study area mapped by Batterson (1995, 2000, 2003) is variable. Generally, thick bouldery till is found in low-lying and flat areas, thinner till on slopes, and a patchy till veneer on hilltops. The southeast part of the study area is mostly covered by till veneers and exposed bedrock; and along the margins of Grand Lake and Little Grand Lake, steep slopes result in extensive areas of colluvium. Many of the low-relief areas have bog and organic deposits cover.

ICE FLOW

Batterson (2003) described the regional ice-flow patterns found within the Humber Basin. The study area is dominated by ice flow from an ice centre in The Topsails and using evidence from striations, landforms and clast dispersal, he documented a consistent westward to west-northwestward flow. This forms a radial pattern with

direction of flow changing from westward flow in the south to west-northwestward in the north. There is some evidence for late southward flow around the west end of Little Grand Lake but this apparently affected only a small area. Few striations were identified during 2005 field-work but those that were observed generally support the ice-flow pattern described.

METHODS

SAMPLING

The study area was sampled mainly by helicopter, but a few of the older woods roads were accessed by mountain bike or on foot after helicopter drop-off. In total, 206 till samples weighing about 1 kg each were taken; these were placed in Kraft paper bags and air dried. The sample density in the area east of Glover Island was 1 sample per 3.3 km², but the sample density for the road and surrounding area is denser, at 1 sample per 1.5 km². Glover Island is sampled at a spacing of 1 per 3.6 km², except for the central road and surrounding area, which is 1 sample per 1.6 km² (Figure 3).

A few samples were acquired from old road-cuts (average depth 330 cm), but most were taken from test-pits using a shovel and pick (average depth 50 cm); most samples were taken from the C-horizon (66%). In areas where the B-horizon was extensive or where the till was too thin for a C-horizon to be present, B- or BC- horizon samples were taken (13% and 21% respectively).

GEOCHEMICAL ANALYSIS

The silt-clay fraction of the till samples was analyzed for trace elements at the Geological Survey laboratory. The samples were oven-dried at 40°C and were sieved through 63 µm stainless steel sieves. The <63 µm fraction was analyzed.

ANALYTICAL METHODS

A suite of 206 samples was analyzed for trace-element geochemistry. At the Geological Survey laboratory, Al, As, Ba, Be, Ca, Cd, Ce, Co, Cr, Cu, Dy, Fe, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, Sc, Sr, Ti, V, Y, Zn and Zr were analyzed with inductively coupled plasma–emission spectroscopy (ICP-ES). Activation Laboratories (Ancaster, Ontario) did instrumental neutron activation analysis (INAA) for the following elements: Ag, As, Au, Ba, Br, Ca, Ce, Co, Cr, Cs, Eu, Fe, Hf, Hg, Ir, La, Lu, Mo, Na, Nd, Ni, Rb, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, U, W, Yb, Zn, Zr. Field duplicates and control reference materials are included incognito in all internal and external analyses. The trace elements are labelled with their elemental abbreviation, a numeric code to distinguish the analysis type and the applicable unit of measurement (Table 1).

Gravimetric Analysis (LOI)

Organic carbon content was estimated from weight loss-on-ignition (LOI) during a controlled combustion, in which 1 g aliquots of sample were gradually heated to 500°C in air, over a 3-hour period.

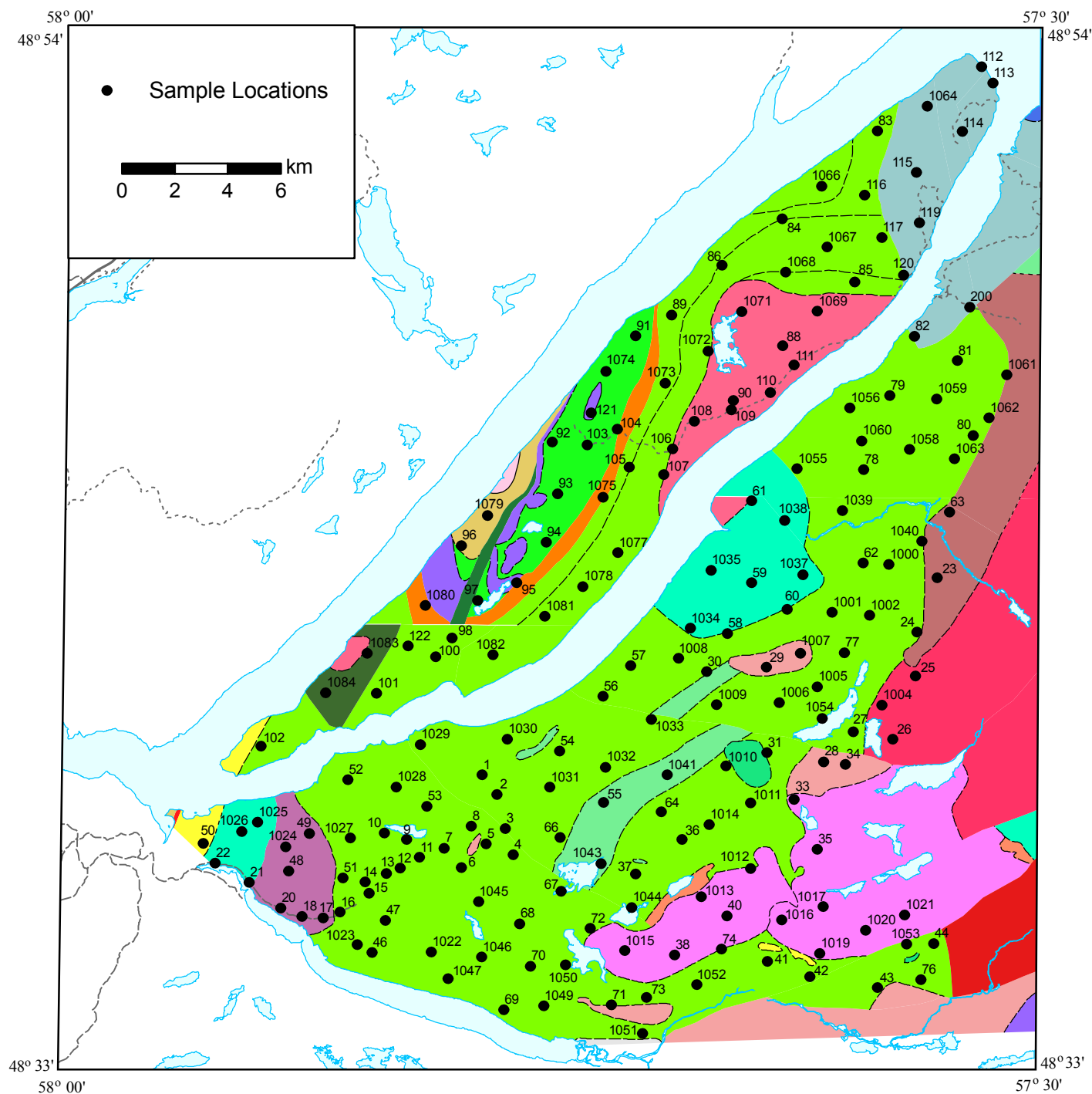


Figure 3. *Sample numbers and locations.*

Inductively Coupled Plasma–Emission Spectroscopy (ICP-ES)

For these analyses, the residue of the 1g aliquot of sample remaining from the LOI determination was digested in a mixture of 15 ml of concentrated hydrofluoric acid, 5 ml of concentrated hydrochloric acid, and 5 ml of 50 volume percent HClO_4 in a 100 ml teflon beaker, and was allowed to stand overnight before being heated to dryness on a hot plate. The residue was taken up in 10 volume percent hydrochlo-

Table 1. Variable list and description of data

VARIABLE	DESCRIPTION	VARIABLE	DESCRIPTION
Ag1 ppm	Silver, ppm, INAA	Al2 %	Aluminum, %, ICP
As1 ppm	Arsenic, ppm, INAA	As2 %	Arsenic, ppm, ICP
Au1 ppb	Gold, ppb, INAA	Ba2 ppm	Barium, ppm, ICP
Ba1 ppm	Barium, ppm, INAA	Be2 ppm	Beryllium, ppm, ICP
Br1 ppm	Bromine, ppm, INAA	Ca2 %	Calcium, %, ICP
Ca1 %	Calcium, %, INAA	Cd2 ppm	Cadmium, ppm, ICP
Ce1 ppm	Cerium, ppm, INAA	Ce2 ppm	Cerium, ppm, ICP
Co1 ppm	Cobalt, ppm, INAA	Co2 ppm	Cobalt, ppm, ICP
Cr1 ppm	Chromium, ppm, INAA	Cr2 ppm	Chromium, ppm, ICP
Cs1 ppm	Cesium, ppm, INAA	Cu2 ppm	Copper, ppm, ICP
Eu1 ppm	Europium, ppm, INAA	Dy2 ppm	Dysprosium, ppm, ICP
Fe1 %	Iron, %, INAA	Fe2 %	Iron, %, ICP
Hf1 ppm	Hafnium, ppm, INAA	K2 %	Potassium, %, ICP
Hg1 ppm	Mercury, ppm, INAA	La2 ppm	Lanthanum, ppm, ICP
Ir1 ppm	Iridium, ppm, INAA	Li2 ppm	Lithium, ppm, ICP
La1 ppm	Lanthanum, ppm, INAA	Mg2 %	Magnesium, %, ICP
Lu1 ppm	Luteum, ppm, INAA	Mn2 ppm	Manganese, ppm, ICP
Mo1 ppm	Molybdenum, ppm, INAA	Mo2 ppm	Molybdenum, ppm, ICP
Na1 %	Sodium, %, INAA	Na2 %	Sodium, %, ICP
Nd1 ppm	Neodymium, ppm, INAA	Nb2 ppm	Niobium, ppm, ICP
Ni1 ppm	Nickel, ppm, INAA	Ni2 ppm	Nickel, ppm, ICP
Rb1 ppm	Rubidium, ppm, INAA	P2 ppm	Phosphorus, ppm, ICP
Sb1 ppm	Antimony, ppm, INAA	Pb2 ppm	Lead, ppm, ICP
Sc1 ppm	Scandium, ppm, INAA	Rb2 ppm	Rubidium, ICP
Se1 ppm	Selenium, ppm, INAA	Sc2 ppm	Scandium, ppm, ICP
Sm1 ppm	Samarium, ppm, INAA	Sr2 ppm	Strontium, ppm, ICP
Sn1 ppm	Tin, ppm, INAA	Ti2 ppm	Titanium, ppm, ICP
Sr1 ppm	Strontium, ppm, INAA	V2 ppm	Vanadium, ppm, ICP
Ta1 ppm	Tantalum, ppm, INAA	Y2 ppm	Yttrium, ppm, ICP
Tb1 ppm	Terbium, ppm, INAA	Zn2 ppm	Zinc, ppm, ICP
Th1 ppm	Thorium, ppm, INAA	Zr2 ppm	Zirconium, ppm, ICP
U1 ppm	Uranium, ppm, INAA		
W1 ppm	Tungsten, ppm, INAA	Sample	Sample number
Yb1 ppm	Ytterbium, ppm, INAA	NTS	NTS sheet (1:50 000)
Zn1 ppm	Zinc, ppm, INAA	Easting	UTM coordinate (NAD 27)
Zr1 ppm	Zirconium, ppm, INAA	Northing	UTM coordinate (NAD 27)
		LOI %	Loss-on-ignition, %, gravimetric
		Zone	UTM zone
		Med	Soil horizon sampled
		Depth	Sample depth (cm)

ric acid by gentle heating on a hot plate, was allowed to cool and was made up to 50 ml with 10 percent volume hydrochloric acid (Wagenbauer *et al.*, 1983). For most elements dissolution is total with the exception of Cr from chromite, Ba from barite and Zr from zircon.

Instrumental Neutron Activation Analysis (INAA)

An approximately 30 g aliquot is encapsulated and weighed in a polyethylene vial and irradiated with flux wires and an internal standard (1 for 11 samples) at a thermal neutron flux of 7×10^{11} n/cm²s. After seven days (to allow Na²⁴ to decay), the samples are counted on a high purity Ge detector with a resolution of better than 1.7 KeV. Using the flux wires, the decay-corrected activities are compared to a calibration developed from multiple certified international reference materials. The standard present is only a check on accuracy of the analysis and is not used for calibration purposes, 10 to 30 percent of the samples are checked by re-measurement.

QUALITY CONTROL

Duplicate samples were taken at the same site in the field, as well as laboratory duplicates (duplicate analyses of random samples). The extent of correlation between duplicate analyses of the same sample, give a measure of analytical precision, and can be used to estimate data quality (Table 2). If the duplicate samples provide identical re-

Table 2. Duplicate analyses - correlations

	ICP			INAA	
	field duplicates	laboratory duplicates		field duplicates	laboratory duplicates
Al2	0.849	0.974	Au1	0.552	0.356
As2	0.782	1.000	Ag1		
Ba2	0.832	0.999	As1	0.819	1.000
Be2	0.854	0.992	Ba1	0.705	0.559
Ca2	0.637	0.999	Br1	0.933	0.975
Cd2	0.633	0.627	Ca1	0.457	0.159
Ce2	0.672	0.999	Ce1	0.810	0.892
Co2	0.687	0.997	Co1	0.778	0.991
Cr2	0.727	0.999	Cr1	0.873	-0.026
Cu2	0.778	0.999	Cs1	-0.160	0.946
Dy2	0.846	0.999	Eu1	0.455	0.774
Fe2	0.577	0.952	Fe1	0.742	0.968
K2	0.439	0.999	Hf1	0.782	0.963
La2	0.873	0.996	La1	0.872	0.976
Li2	0.909	0.999	Lu1	0.731	0.862
Mg2	0.619	0.998	Mo1	-0.111	
Mn2	0.431	0.998	Na1	0.678	0.928
Mo2	0.523	0.923	Nd1	0.682	0.392
Na2	0.479	0.998	Ni1		
Nb2	0.847	0.996	Rb1	0.560	0.718
Ni2	0.721	0.998	Sb1	-0.280	0.925
P2	0.710	0.988	Sc1	0.802	0.986
Pb2	0.961	0.998	Se1		
Rb2	0.725	0.996	Sm1	0.730	0.936
Sc2	0.884	0.999	Sn1		
Sr2	0.588	0.999	Sr1		
Ti2	0.484	0.997	Ta1	-0.150	-0.267
V2	0.581	0.999	Tb1	-0.173	0.401
Y2	0.865	0.997	Th1	0.909	0.952
Zn2	0.903	0.997	U1	0.629	0.782
Zr2	0.858	0.999	W1		
LOI	0.751	1.000	Yb1	0.714	0.904
			Zn1	0.809	0.753
			Zr1	0.221	-0.280

Note:

If all samples are below detection limit, no value is reported. Sixteen field duplicate pairs and eleven laboratory duplicate pairs were used.

sults the correlation coefficient between the variables will be equal to 1. For elements that were analyzed using more than one method, the results were compared and the best method was chosen for mapping purposes. Duplicate data is not included in this report, but is available from the authors upon request.

For some elements, the analysis of duplicates yields poor results, as the samples chosen had levels that are close to the detection limit for that element. Thus, the method of correlating duplicate pairs yields little useful information. For this reason, it is difficult to evaluate the data quality for Au1, Ag1, Ca1, Cs1, Mo1, Ni1, Se1, Sn1, Sr1, Ta1, Tb1 and W1. Gold analyses are susceptible to the “nugget” effect, where the presence or absence of a native gold grain can cause differing results in duplicate samples.

For elements analyzed by both ICP and INAA, analysis of laboratory duplicates suggests that INAA is the better method for As and Fe; and ICP for Ba, Ca, Ce, Co, Cr, La, Mo, Na, Ni, Sc, Sr, Zn and Zr.

Examination of field duplicates indicates that the reproducibility of analyses is in most cases similar to analysis of laboratory duplicates, indicating that field sampling introduces little extra “noise” to the analysis, and that single samples can be considered representative of surface sediment geochemistry in the area for most elements. For the analytical method of choice, correlation coefficients between field duplicates are generally 0.6 or higher. Variation between duplicate field samples is higher than generally expected for K2, Fe2, Na2, and Ti2 but still show moderate positive correlations. Gold analyses appear more reproducible from the field duplicates rather than laboratory duplicates. This may be because the samples chosen for laboratory duplicates had values mostly close to detection limit, but suggest caution should be exercised in interpreting a single anomalous gold value.

DATA PRESENTATION

Dot plots of selected elements (As, Au, Cu, Ni, Sb, U) are shown on page sized colour bedrock map bases. The dots represent values within a particular size range, chosen by picking natural breaks using the Jenks statistical method (Jenks, 1967). Dot plots of the remaining elements are available in Appendix 2. One hundred and ninety samples are mapped (excluding laboratory and field duplicates).

The appended data listings (Appendix 1) provide the analytical data for all of the elements analyzed. The accompanying CD-ROM provides the same data as Excel 2004 files and as comma delimited text files (.csv). The numeric code distinguishes the type of analysis and the laboratory at which the analysis was done (Table 1).

The summary statistics for the data set are given in Table 3.

GEOCHEMICAL RESULTS AND INTERPRETATIONS

INTER-ELEMENT CORRELATIONS

A correlation matrix was calculated to examine relationships between elements (Table 4). Gold shows a strong positive correlation with arsenic (0.69), and a moderate positive correlation with antimony (0.31) suggesting that arsenic and antimony might be used as “pathfinder” elements for gold in the area, given the difficulty of interpreting gold analyses due to the nugget effect. Copper shows correlations with cobalt

Table 3. Summary statistics

	Mean	Standard Error	Median	Mode	Standard Deviation	Kurtosis	Skewness	Range	Minimum	Maximum
Al2_pct	6.66	0.05	6.63	6.55	0.66	0.50	-0.06	3.88	4.68	8.56
As1_ppm	7.03	1.09	3.40	0.25	15.01	98.68	8.84	181.75	0	182
Au1_ppb	2.38	0.56	0.50	0.50	7.78	52.92	6.78	73.50	1	74
Ba2_ppm	367.88	10.56	371.50	549.00	145.60	3.47	0.91	991.00	46	1037
Be2_ppm	1.92	0.05	1.90	2.00	0.75	1.63	0.74	4.90	0	5
Br1_ppm	51.34	3.46	34.50	13.00	47.64	4.04	1.72	292.75	0	293
Ca2_pct	1.74	0.06	1.62	1.93	0.86	2.04	1.14	5.17	0	5
Cd2_ppm	0.11	0.01	0.05	0.05	0.08	1.30	1.33	0.38	0	0
Ce2_ppm	48.57	1.62	44.00	40.00	22.39	8.41	2.10	166.00	13	179
Co2_ppm	19.31	0.73	16.00	10.00	10.10	3.85	1.67	58.00	7	65
Cr2_ppm	86.84	5.64	61.00	46.00	77.81	12.09	3.06	563.00	13	576
Cs1_ppm	1.11	0.08	0.50	0.50	1.06	6.84	2.31	6.50	1	7
Cu2_ppm	33.39	2.86	22.00	12.00	39.49	26.28	4.60	306.00	7	313
Dy2_ppm	4.16	0.13	4.00	4.40	1.74	39.60	4.67	19.10	1	20
Eu1_ppm	0.81	0.02	0.80	0.80	0.33	3.26	0.76	2.10	0	2
Fe1_pct	3.63	0.11	3.22	2.68	1.57	1.96	1.23	9.07	1	10
Hf1_ppm	5.98	0.20	5.00	5.00	2.75	4.20	1.59	18.00	2	20
K2_pct	1.47	0.04	1.50	1.42	0.56	-0.46	-0.24	2.60	0.18	2.78
La2_ppm	18.62	0.60	18.00	15.00	8.22	12.16	2.35	70.00	4	74
Li2_ppm	12.18	0.80	9.25	9.50	11.08	27.25	4.61	95.10	2	97
LOI_pct	12.14	0.67	8.95	4.20	9.18	0.86	1.18	40.20	1.00	41.20
Lu1_ppm	0.44	0.01	0.41	0.32	0.17	2.55	1.34	0.96	0	1
Mg2_pct	1.18	0.05	0.91	1.01	0.75	2.57	1.56	4.27	0.15	4.42
Mn2_ppm	739.65	28.80	634.50	754.00	396.95	7.98	2.39	2501.00	242	2743
Mo2_ppm	1.15	0.04	1.20	0.50	0.55	-0.48	0.33	2.40	1	3
Na2_pct	1.85	0.04	1.90	1.88	0.49	0.62	-0.01	2.90	0.69	3.59
Nb2_ppm	11.69	0.30	11.00	9.00	4.16	3.71	1.37	27.00	4	31
Nd1_ppm	10.52	0.51	10.00	2.50	6.99	14.31	2.45	58.50	3	61
Ni2_ppm	29.61	2.04	21.00	16.00	28.11	16.59	3.60	217.00	5	222
P2_ppm	565.37	17.60	512.00	411.00	242.55	2.43	1.29	1414.00	125	1539
Pb2_ppm	18.47	0.41	18.00	18.00	5.59	2.89	1.08	38.00	4	42
Rb1_ppm	36.15	1.97	41.50	2.50	27.20	-1.13	0.02	107.50	3	110
Rb2_ppm	54.37	1.40	54.00	70.00	19.26	-0.38	0.08	86.00	14	100
Sb1_ppm	0.31	0.03	0.20	0.05	0.45	34.30	5.05	3.95	0	4
Sc2_ppm	17.37	0.59	14.80	14.30	8.20	1.28	1.17	41.80	4	46
Sm1_ppm	3.50	0.11	3.30	4.40	1.52	25.84	3.74	14.80	1	16
Sn1_ppm	0.01	0.00	0.01	0.01	0.00	-2.02	-1.01	0.00	0	0
Sr2_ppm	169.04	5.59	159.00	142.00	77.11	10.27	2.50	592.00	31	623
Ta1_ppm	0.46	0.05	0.10	0.10	0.72	7.43	2.42	4.20	0	4
Tb1_ppm	0.37	0.02	0.25	0.25	0.29	29.21	4.30	2.65	0	3
Th1_ppm	5.35	0.20	4.95	7.20	2.75	0.89	0.84	14.90	0	15
Ti2_ppm	6413.26	217.02	5463.00	4238.00	2991.45	5.70	2.11	17097.00	2941	20038
U1_ppm	1.44	0.07	1.50	0.25	0.96	-0.35	0.42	4.05	0	4
V2_ppm	135.12	5.40	108.00	97.00	74.38	2.86	1.57	418.00	36	454
W1_ppm	0.58	0.05	0.50	0.50	0.66	142.97	11.48	8.50	1	9
Y2_ppm	24.13	0.61	23.00	22.00	8.35	25.94	3.54	84.00	10	94
Yb1_ppm	2.98	0.08	2.90	2.50	1.10	2.97	1.24	6.90	1	8
Zn2_ppm	51.63	1.38	48.00	38.00	19.02	2.33	1.31	115.00	14	129
Zr2_ppm	122.67	3.58	117.50	124.00	49.35	1.17	0.89	257.00	31.00	288.00

Table 4. Correlation matrix. Elements where the majority of analyses were below detection limit are omitted. Where elements are analyzed by more than one method, only the preferred method is present

Al2_pct	Ba2_ppm	Be2_ppm	Ca2_pct	Cd2_ppm	Ce2_ppm	Co2_ppm	Cr2_ppm	Cu2_ppm	Dy2_ppm	K2_pct	La2_ppm	Li2_ppm	Mg2_pct	Mn2_ppm	Mo2_ppm	Na2_pct	Nb2_ppm	Ni2_ppm	P2_ppm	Pb2_ppm	Rb2_ppm	Sc2_ppm	Sr2_ppm
1.00																							
Ba2_ppm	1.00																						
Be2_ppm	-0.10	1.00																					
Ca2_pct	0.12	-0.27	1.00																				
Cd2_ppm	0.19	-0.11	-0.19	1.00																			
Ce2_ppm	0.01	0.30	0.58	-0.20	1.00																		
Co2_ppm	0.34	-0.40	-0.50	0.52	0.45	-0.09	1.00																
Cr2_ppm	0.26	-0.26	-0.43	0.35	0.14	-0.06	0.53	1.00															
Cu2_ppm	0.27	-0.07	-0.15	0.40	0.44	0.14	0.59	0.29	1.00														
Dy2_ppm	0.05	-0.07	0.54	0.02	0.15	0.69	0.05	-0.15	0.11	1.00													
K2_pct	-0.26	0.63	0.80	-0.53	-0.33	0.37	-0.56	-0.47	-0.15	0.12	1.00												
La2_ppm	-0.02	0.33	0.63	-0.25	0.01	0.91	-0.20	-0.12	0.02	0.71	0.41	1.00											
Li2_ppm	0.35	-0.08	0.02	-0.19	0.34	0.28	0.31	0.28	0.23	0.04	-0.04	0.23	1.00										
Mg2_pct	0.36	-0.33	-0.45	0.68	0.29	-0.06	0.79	0.71	0.62	-0.02	-0.51	-0.14	0.27	1.00									
Mn2_ppm	0.14	-0.17	-0.28	0.42	0.35	0.08	0.78	0.38	0.49	0.15	-0.32	-0.03	0.17	0.59	1.00								
Mo2_ppm	0.16	0.10	0.44	-0.31	-0.33	0.10	-0.39	-0.35	-0.18	0.39	0.21	-0.15	-0.38	-0.31	-0.31	1.00							
Na2_pct	-0.13	0.24	0.39	0.03	-0.25	0.09	-0.21	-0.20	-0.08	0.03	0.50	0.11	-0.17	-0.02	-0.09	0.18	1.00						
Nb2_ppm	-0.37	0.23	0.76	-0.39	-0.22	0.40	-0.43	-0.47	-0.31	0.45	0.62	0.50	-0.09	-0.48	-0.29	0.45	0.25	1.00					
Ni2_ppm	0.32	-0.11	-0.21	0.20	0.20	0.16	0.56	0.78	0.39	-0.22	0.09	0.54	0.73	0.38	-0.09	-0.31	0.09	-0.31	1.00				
P2_ppm	0.40	-0.16	-0.20	0.14	0.48	0.29	0.47	0.17	0.31	0.29	-0.40	0.19	0.23	0.26	0.39	-0.20	-0.40	-0.31	0.23	1.00			
Pb2_ppm	0.02	0.50	0.53	-0.45	0.04	0.46	-0.31	-0.26	-0.06	0.20	0.50	0.47	0.24	-0.33	-0.12	0.31	0.40	0.43	0.63	-0.18	-0.41	0.51	1.00
Rb2_ppm	-0.24	0.47	0.83	-0.58	-0.31	0.33	-0.52	-0.43	-0.17	0.12	0.94	0.39	0.10	-0.50	-0.31	0.40	0.07	0.50	-0.06	-0.41	0.51	1.00	
Sc2_ppm	0.37	-0.47	-0.63	0.75	0.34	-0.22	0.80	0.56	0.45	0.05	-0.72	-0.32	0.11	0.78	0.60	-0.43	-0.14	-0.55	0.37	0.32	-0.46	-0.71	1.00
Sr2_ppm	0.14	0.45	-0.24	0.54	0.14	0.03	0.17	0.09	0.12	-0.01	-0.09	-0.01	-0.21	0.31	0.16	-0.19	0.28	-0.02	0.08	0.19	-0.23	0.27	1.00
Ti2_ppm	0.04	-0.46	-0.55	0.43	0.30	-0.32	0.63	0.17	0.06	-0.10	-0.65	-0.34	-0.02	0.34	0.36	-0.24	-0.27	-0.16	0.03	0.28	-0.42	-0.61	0.61
V2_ppm	0.15	-0.52	-0.66	0.57	0.41	-0.32	0.75	0.39	0.21	-0.04	-0.78	-0.38	0.04	0.54	0.51	-0.41	-0.30	-0.39	0.21	0.32	-0.47	-0.73	0.80
Y2_ppm	-0.04	-0.05	0.60	0.05	0.12	0.66	0.02	-0.20	0.09	0.98	0.20	0.68	0.01	-0.03	0.15	0.19	0.13	0.51	-0.12	0.20	0.18	0.20	0.02
Zn2_ppm	0.44	-0.22	-0.09	0.18	0.51	0.34	0.65	0.43	0.43	0.28	-0.25	0.22	0.65	0.60	0.54	-0.24	-0.04	-0.17	0.59	0.45	0.10	-0.19	0.51
Zr2_ppm	-0.45	0.25	0.74	-0.43	-0.26	0.37	-0.53	-0.39	-0.30	0.33	0.64	0.47	-0.09	-0.46	-0.32	0.42	0.31	0.83	-0.26	-0.38	0.38	0.66	-0.63
Lu1_ppm	0.16	-0.37	-0.35	-0.13	0.15	-0.18	0.05	0.04	-0.21	0.00	-0.56	-0.14	0.01	-0.14	-0.11	0.01	-0.76	-0.17	-0.12	0.46	-0.11	-0.49	0.04
Lu1_pbb	0.24	-0.10	-0.13	-0.02	0.02	-0.07	0.26	0.28	0.10	-0.05	-0.06	-0.09	0.13	0.27	0.15	-0.01	0.05	-0.14	0.36	0.06	-0.07	-0.10	0.22
Ag1_ppm	0.02	-0.01	-0.02	0.11	0.09	0.00	0.09	0.03	0.10	0.02	-0.01	-0.01	0.02	0.10	0.09	-0.09	0.05	-0.03	0.04	0.04	-0.06	-0.02	0.09
As1_ppm	0.29	-0.20	-0.24	0.07	0.24	-0.07	0.42	0.25	0.26	-0.01	-0.21	-0.14	0.27	0.34	0.33	-0.12	-0.08	-0.25	0.26	0.23	-0.12	-0.21	0.38
Br1_ppm	0.32	-0.33	-0.27	-0.11	0.08	-0.12	-0.02	0.09	-0.14	0.05	-0.46	-0.12	0.02	-0.08	-0.17	-0.05	-0.61	-0.22	-0.06	0.40	-0.14	-0.41	0.06
Cs1_ppm	0.22	-0.04	-0.03	-0.08	0.22	0.11	0.33	0.17	0.27	-0.02	-0.05	0.10	0.65	0.20	0.25	0.00	-0.19	-0.04	0.32	0.16	0.24	0.10	0.16
Eu1_ppm	0.28	-0.04	-0.18	0.29	0.41	0.30	0.47	0.20	0.33	0.36	-0.32	0.21	0.20	0.36	0.38	-0.20	-0.18	-0.20	0.21	0.55	-0.05	-0.36	0.46
Fe1_pct	0.37	-0.45	-0.53	0.41	0.57	-0.13	0.81	0.47	0.39	0.10	-0.70	-0.25	0.30	0.62	0.59	-0.45	-0.44	-0.42	0.38	0.54	-0.30	-0.63	0.75
Hf1_ppm	0.37	0.27	0.60	-0.31	-0.24	0.34	-0.48	-0.41	-0.30	0.39	0.52	0.45	-0.16	0.47	-0.30	0.45	0.17	0.80	-0.35	-0.29	0.40	0.51	-0.49
Lu1_ppm	-0.15	-0.02	0.58	-0.19	-0.05	0.41	-0.19	-0.29	-0.13	0.59	0.33	0.47	0.03	-0.26	-0.10	0.33	0.11	0.66	-0.22	-0.07	0.26	0.39	-0.21
Nd1_ppm	0.13	0.15	0.31	-0.02	0.21	0.70	0.03	0.03	0.09	0.68	0.06	0.76	0.19	0.06	0.08	0.04	-0.05	0.29	0.11	0.28	0.30	0.03	0.02
Rb1_ppm	-0.13	0.44	0.58	-0.43	-0.15	0.25	-0.35	-0.25	-0.04	0.05	0.70	0.28	0.16	-0.31	-0.16	0.20	0.32	0.40	-0.08	-0.36	0.47	0.73	-0.46
Se1_ppm	0.20	-0.02	-0.19	0.03	0.22	0.05	0.53	0.45	0.39	-0.02	-0.12	0.02	0.32	0.38	0.49	-0.21	-0.12	-0.23	0.46	0.22	0.00	-0.12	0.38
Sb1_ppm	-0.09	-0.10	-0.05	0.04	0.10	-0.05	0.08	-0.01	-0.04	-0.02	-0.11	-0.06	-0.04	0.07	0.04	-0.09	-0.06	0.13	-0.01	-0.04	0.05	-0.09	0.00
Sm1_ppm	0.17	0.08	0.41	-0.01	0.26	0.77	0.10	0.18	0.86	0.06	0.79	0.23	0.07	0.18	0.08	-0.07	0.03	0.09	0.42	0.27	0.05	0.07	0.03
Sr1_pct	0.10	0.06	-0.01	0.02	0.05	0.01	0.04	0.08	0.04	-0.01	0.05	0.03	0.06	0.02	-0.10	-0.01	-0.06	0.02	-0.06	0.02	0.06	-0.03	0.06
Ta1_ppm	-0.11	-0.02	0.25	-0.25	-0.07	0.18	-0.08	-0.10	-0.07	0.14	0.24	0.13	-0.12	-0.07	0.13	0.10	0.29	-0.02	-0.06	0.17	0.16	-0.15	-0.15
Tb1_ppm	0.02	0.02	0.32	-0.02	0.12	0.45	0.02	-0.05	0.04	0.69	0.07	0.52	0.04	0.00	0.08	0.09	-0.02	0.32	-0.01	0.08	0.14	0.05	0.04
Th1_ppm	-0.11	0.26	0.77	-0.51	-0.20	0.60	-0.50	-0.35	-0.24	0.46	0.58	0.68	0.11	-0.48	-0.34	0.42	0.09	0.69	-0.17	-0.11	0.58	0.62	-0.59
U1_ppm	-0.19	0.29	0.60	-0.37	-0.23	0.35	-0.44	-0.37	-0.26	0.28	0.52	0.49	0.07	-0.40	-0.30	0.39	0.21	0.60	-0.20	-0.22	0.44	0.56	-0.50
Yb1_ppm	-0.10	0.02	0.60	-0.16	0.04	0.48	-0.16	-0.28	-0.04	0.67	0.35	0.53	0.05	-0.21	-0.04	0.26	0.14	0.61	-0.20	-0.04	0.25	0.38	-0.16

Table 4. Continued

	<i>Ti2_ppm</i>	<i>V2_ppm</i>	<i>Y2_ppm</i>	<i>Zn2_ppm</i>	<i>Zr2_ppm</i>	<i>LOI_pct</i>	<i>Au1_ppb</i>	<i>Ag1_ppm</i>	<i>As1_ppm</i>	<i>Br1_ppm</i>	<i>Cs1_ppm</i>	<i>Eu1_ppm</i>	<i>Fe1_pct</i>	<i>Hf1_ppm</i>	<i>Lu1_ppm</i>	<i>Nd1_ppm</i>	<i>Rb1_ppm</i>	<i>Sb1_ppm</i>	<i>Se1_ppm</i>	<i>Sm1_ppm</i>	<i>Ta1_ppm</i>	<i>Tb1_ppm</i>	<i>Th1_ppm</i>	<i>U1_ppm</i>	<i>Yb1_ppm</i>
1.00																									
0.88	1.00																								
-0.02	-0.06	1.00																							
0.22	0.36	0.25	1.00																						
-0.36	-0.54	0.42	-0.24	1.00																					
0.35	0.28	-0.11	-0.07	-0.26	1.00																				
0.06	0.13	-0.08	0.24	-0.23	-0.09	1.00																			
0.05	0.05	0.03	0.04	-0.02	-0.08	-0.02	1.00																		
0.19	0.28	-0.04	0.33	-0.30	-0.03	0.69	0.12	1.00																	
0.15	0.11	-0.06	-0.05	-0.26	0.78	-0.04	-0.07	0.03	1.00																
0.13	0.11	-0.04	0.41	-0.07	0.02	0.02	-0.04	0.20	-0.03	1.00															
0.36	0.33	0.32	0.45	-0.27	0.14	0.07	0.06	0.20	0.17	0.20	1.00														
0.65	0.80	0.04	0.59	-0.54	0.35	0.15	0.06	0.36	0.33	0.29	0.48	1.00													
-0.24	-0.42	0.44	-0.22	0.77	-0.13	-0.22	-0.03	-0.28	-0.11	-0.11	-0.13	-0.44	1.00												
-0.07	-0.21	0.64	0.07	0.61	-0.08	-0.13	-0.02	-0.12	-0.02	0.01	0.12	-0.15	0.81	1.00											
-0.05	-0.03	0.64	0.30	0.22	0.02	-0.02	0.00	0.01	0.06	0.11	0.42	0.08	0.29	0.41	1.00										
-0.48	-0.53	0.12	-0.05	0.43	-0.44	-0.02	-0.09	-0.13	-0.33	0.19	-0.16	-0.40	0.33	0.28	0.10	1.00									
0.16	0.30	-0.04	0.40	-0.22	-0.15	0.31	0.00	0.42	-0.18	0.40	0.23	0.37	0.37	-0.22	-0.07	0.07	0.06	1.00							
0.19	0.19	0.00	0.01	0.02	0.06	0.01	-0.01	-0.02	-0.04	-0.04	0.04	0.18	0.00	-0.05	-0.02	-0.09	-0.04	1.00							
-0.02	-0.03	0.80	0.39	0.20	0.05	-0.03	0.02	0.05	0.14	0.16	0.53	0.17	0.36	0.60	0.82	0.08	0.14	-0.05	1.00						
0.02	0.00	0.03	0.05	-0.04	-0.01	-0.03	-0.01	0.02	0.05	0.13	0.13	0.07	0.07	-0.06	-0.01	0.09	0.04	0.05	-0.01	0.11	1.00				
-0.05	-0.11	0.19	0.04	0.30	-0.05	-0.05	-0.04	-0.05	-0.04	0.09	-0.03	-0.06	0.06	0.27	0.28	0.21	0.14	0.07	0.11	0.22	1.00				
-0.01	0.00	0.65	0.20	0.24	-0.01	-0.02	0.08	0.05	0.03	0.03	0.25	0.09	0.33	0.37	0.57	0.03	0.03	0.03	-0.03	0.65	0.19	1.00			
-0.48	-0.59	0.47	-0.08	0.67	-0.06	-0.17	-0.06	-0.26	0.01	0.03	-0.08	-0.44	0.74	0.74	0.40	0.40	0.46	-0.15	-0.04	0.52	0.31	0.31	1.00		
-0.34	-0.49	0.32	-0.14	0.59	-0.14	-0.15	-0.05	-0.22	-0.13	0.09	-0.07	-0.44	0.67	0.64	0.26	0.41	-0.18	-0.09	0.35	0.25	0.25	0.20	0.72	1.00	
-0.10	-0.21	0.71	0.13	0.57	-0.15	-0.11	-0.01	-0.07	-0.03	0.04	0.19	-0.10	0.73	0.96	0.50	0.34	-0.03	-0.07	0.69	0.28	0.45	0.72	0.60	1.00	

(0.59), and magnesium (0.62). Uranium is correlated with beryllium (0.60), potassium (0.52), niobium (0.60), rubidium (0.56), zirconium (0.59), hafnium (0.67), lutetium (0.64), and thorium (0.72). Nickel shows correlations with cobalt (0.56), chromium (0.78), lithium (0.54), magnesium (0.73), and zinc (0.59). This geochemical pattern likely is associated with ultramafic rocks.

Gold

Interpretation of gold results is distorted by the “nugget” effect in areas where particulate gold is common. Geochemical results can be unduly influenced by the presence or absence of single gold grains. Thus interpretation is more reliable when based on groups of gold values. The highest six results for gold are all located on Glover Island, where several gold occurrences are known (Figure 4). The highest value (74 ppb) is located 5 km southwest of the Kettle Pond gold showings and is unlikely to be related to glacial dispersal from known showings. The difficulty of reproducing gold analyses is illustrated however by the results of a laboratory duplicate analysis on this sample which yielded the lower but still significant result of 8 ppb. The second highest result (58 ppb) is located 2 km northwest of Kettle Brook, and may be related to glacial dispersal, or to unknown occurrences. One sample yielding a result of 36 ppb is located 2 km north of a cluster of gold showings and may be unrelated to these. Two samples from the area south of Glover Island gave results of 12 and 14 ppb. The 12 ppb sample is not located close to any known showings. The 14 ppb sample is located less than 2 km from the Patino copper indication, and 2 km southwest of the Ridge Creek gold indication.

Arsenic

Sometimes, it is difficult to reproduce gold analyses, and arsenic is commonly used as a pathfinder element because of its association with gold in mineralization. In the Glover Group, this relationship seems to exist, as shown by high arsenic values being associated with the high gold values mentioned above, and high inter-element correlation (Figure 5). Thus, high arsenic values without associated gold values may indicate gold mineralization. A group of high arsenic values is found south of the Martin Prospect between Little Grand Lake and Grand Lake. High arsenic values often, but not always, associated with gold are found on Glover Island. Twenty-two samples gave arsenic values in excess of the Canadian Council of Ministers of the Environment residential guidelines for arsenic in soil (12 ppm), but as this area has no permanent dwellings, this is not of great concern.

Copper

Anomalous copper values are concentrated in the southwest of the study area, extending eastward from the outlet of Little Grand Lake to Youngs Pond (Figure 6). Nine samples in this area yielded values ranging from 88 to 313 ppm. All these samples were collected adjacent to a disused logging road, whilst foot-traversing on the first two days of field work. There was concern that there might be some analytical problems because these were the first samples analyzed and so a subset was re-analyzed, but yielded comparable results. The Youngs Pond showings of pyrrhotite lie 2 km to the north of these sample sites and indications of gold are known along or near the logging road. Thus, these copper values likely reflect mineralization in bedrock in the area. The highest value (313 ppm) is found on the shores of Little Grand Lake, and in an area mapped as being underlain by Devonian granite; high copper in bedrock in this area would be surprising so perhaps this result reflects glacial dispersal from a source to the east.

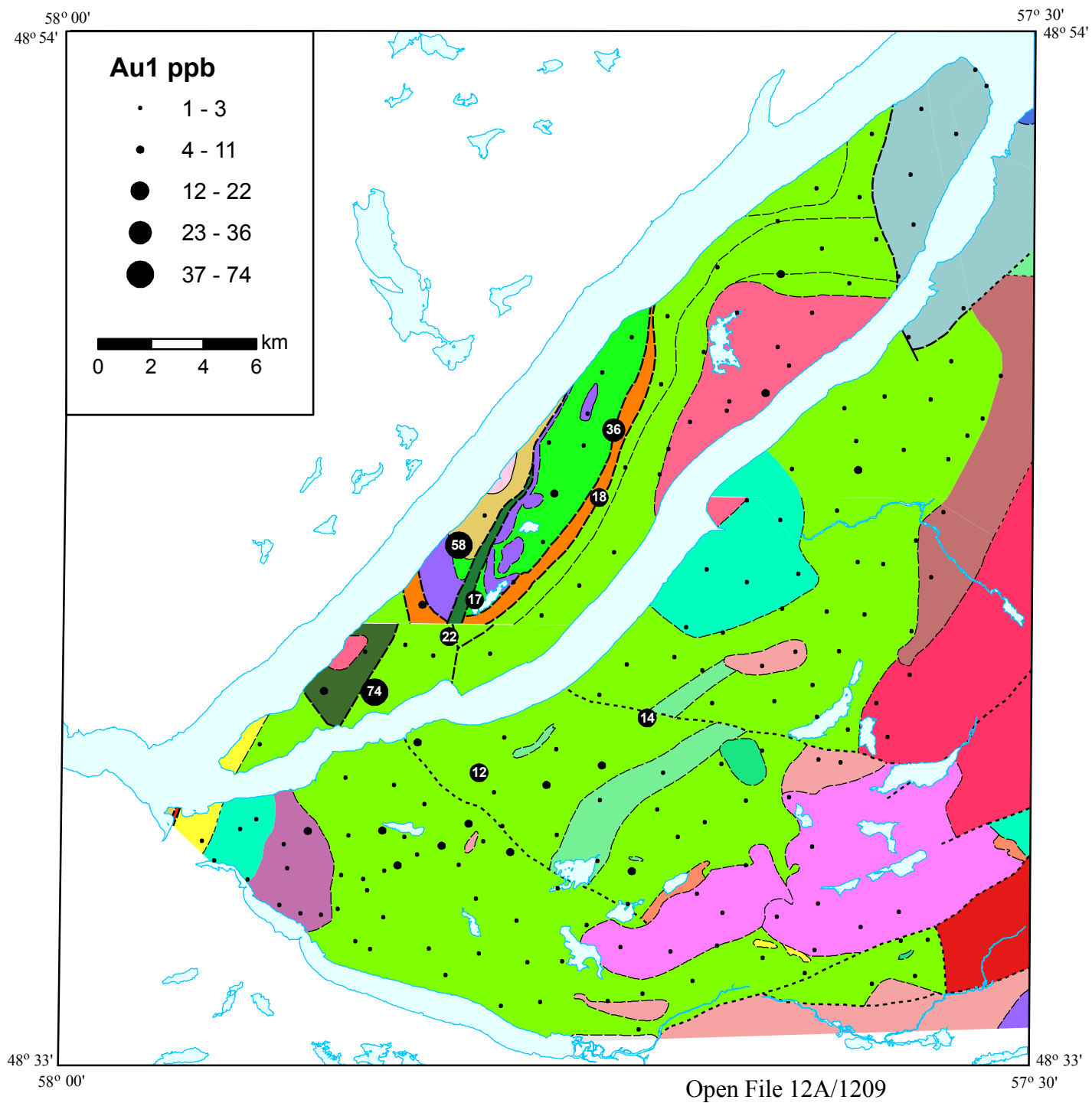


Figure 4. *Distribution of gold in till.*

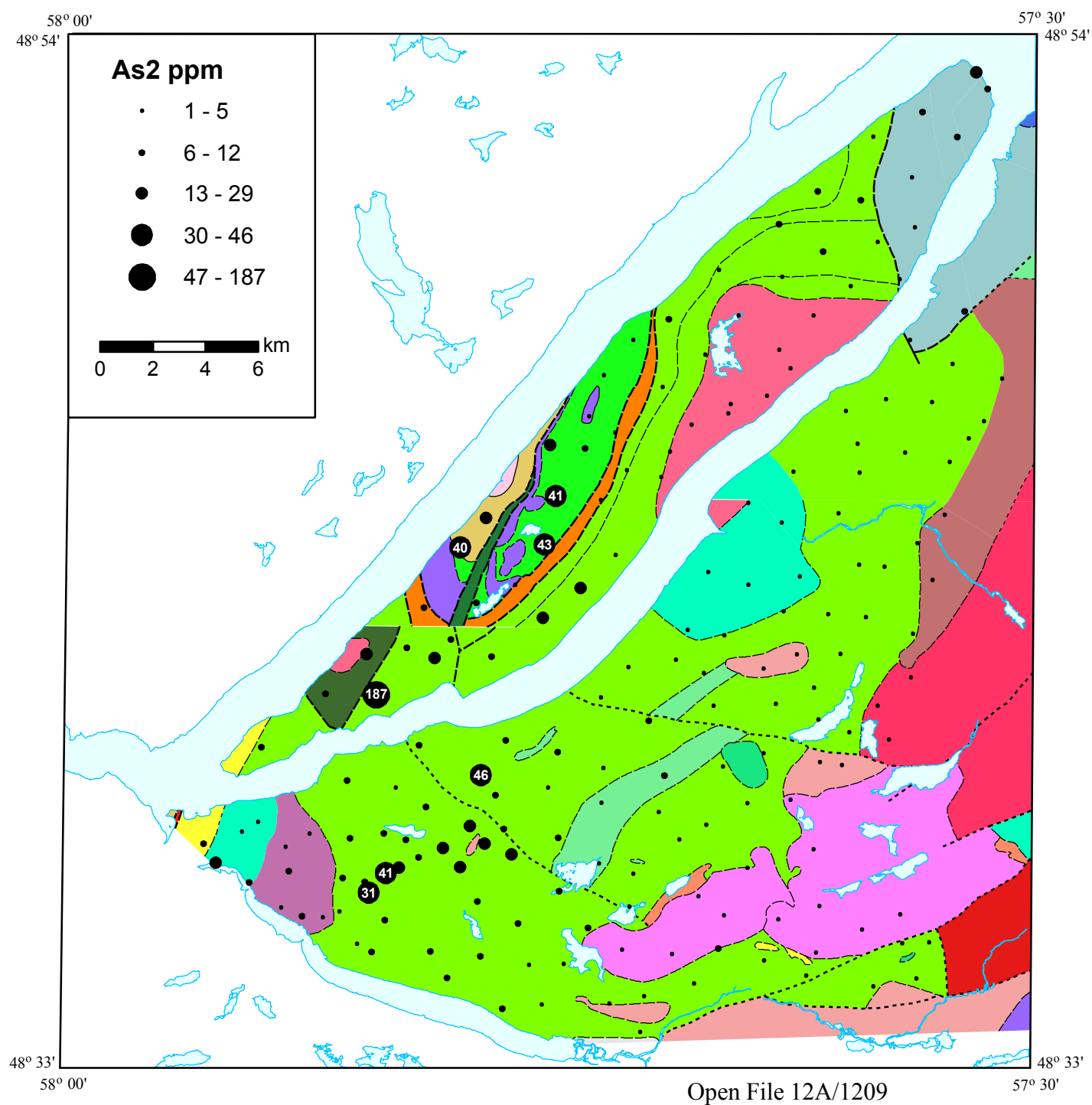


Figure 5. *Distribution of arsenic in till.*

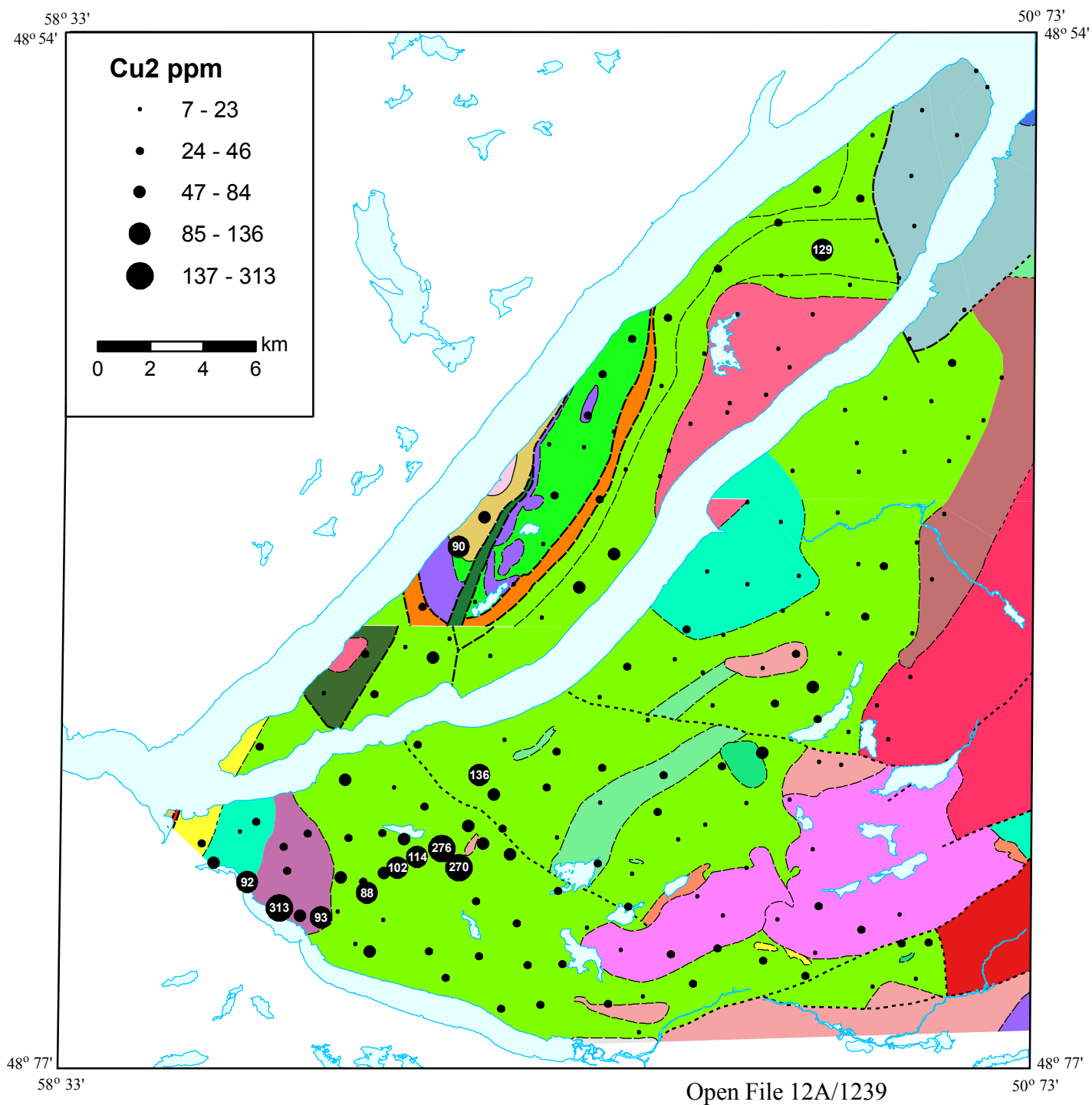


Figure 6. *Distribution of copper in till.*

Nickel

Five of the highest nickel values form a group in the Kettle Pond area, with nickel content ranging from 68 to 222 ppm (Figure 7). Zinc values are also comparatively high in this area (up to 129 ppm). Descriptions of the mineral occurrences in this area do not mention sulphide mineralization apart from pyrite and it is possible that the nickel found in tills in this area does not relate to the known gold mineralization. Four other anomalous values (86-134 ppm) are found from samples taken on the northern part of Glover Island, where there are no known mineral occurrences. Two of the four samples were taken from areas mapped as underlain by Carboniferous rocks. Samples in this area also show anomalous zinc values, ranging from 81 to 122 ppm.

Antimony

Antimony is also used as a pathfinder for gold. Anomalous antimony values are found from two areas, close to the Kettle Pond occurrences, and south of Youngs Pond (Figure 8). Although the Youngs Pond area does not show any anomalous results for gold, the combination of arsenic, antimony and copper anomalies suggest this is an area of potential for gold mineralization.

Uranium

Uranium shows a distinct pattern (Figure 9) and clusters of relatively high uranium values are found over the Carboniferous rocks in the north end of Glover Island, and extending south to the northern part of the Glover Group. Uranium mineralization is known from these rocks, with the Grand Pond Point #2 indication being found along the shores of Grand Lake in this area. The highest uranium value (4.3 ppm) is found close to the contact between the Topsails granite and Glover Group rocks east of Little Grand Lake. It is associated with five other anomalous results ranging from 3-3.5 ppm, as well as relatively high results for cerium, niobium and yttrium. Although these uranium anomalies are relatively low, they are comparable to values from till in areas of known mineralization in the Central Mineral Belt of Labrador (McCuaig and Taylor, 2005).

CONCLUSIONS

Till geochemistry has identified several possible targets for exploration, including gold mineralization on Glover Island in areas with no known gold showings, possible gold mineralization associated with arsenic between Little Grand Lake and Grand Lake, nickel on Glover Island, uranium associated with Carboniferous rocks of the Deer Lake basin, and uranium associated with the Topsails granitic intrusions.

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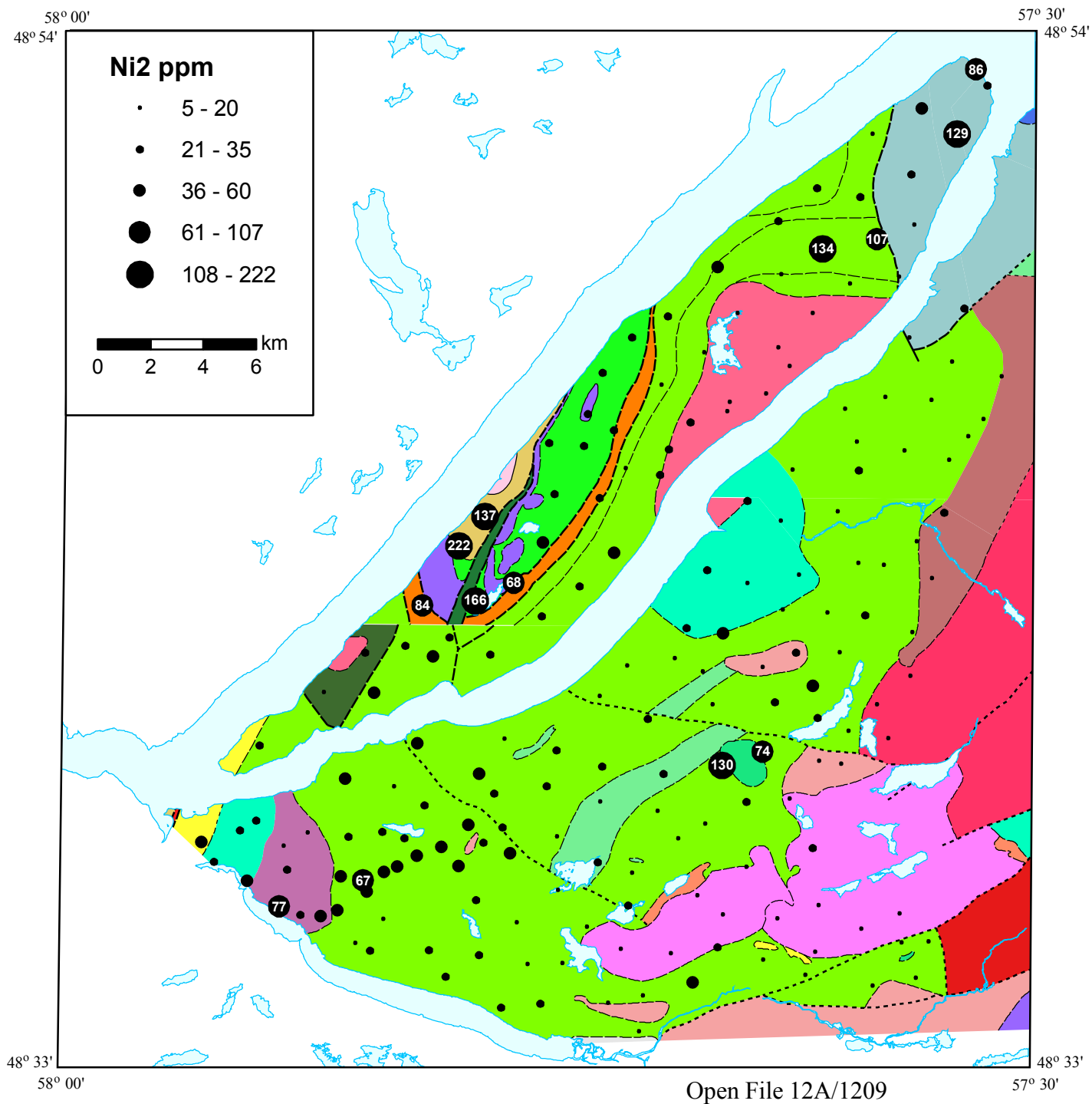


Figure 7. *Distribution of nickel in till.*

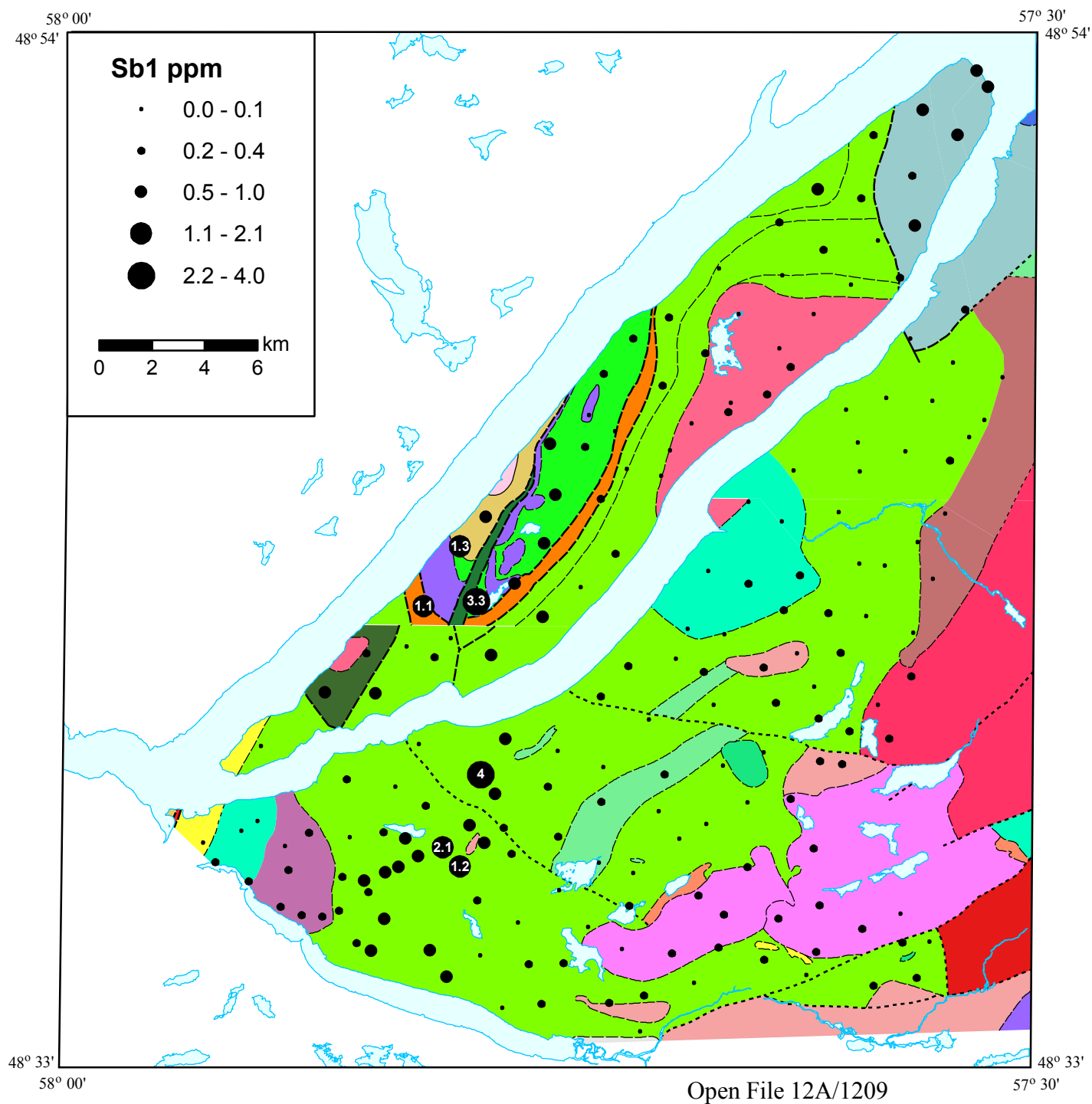


Figure 8. *Distribution of antimony in till.*

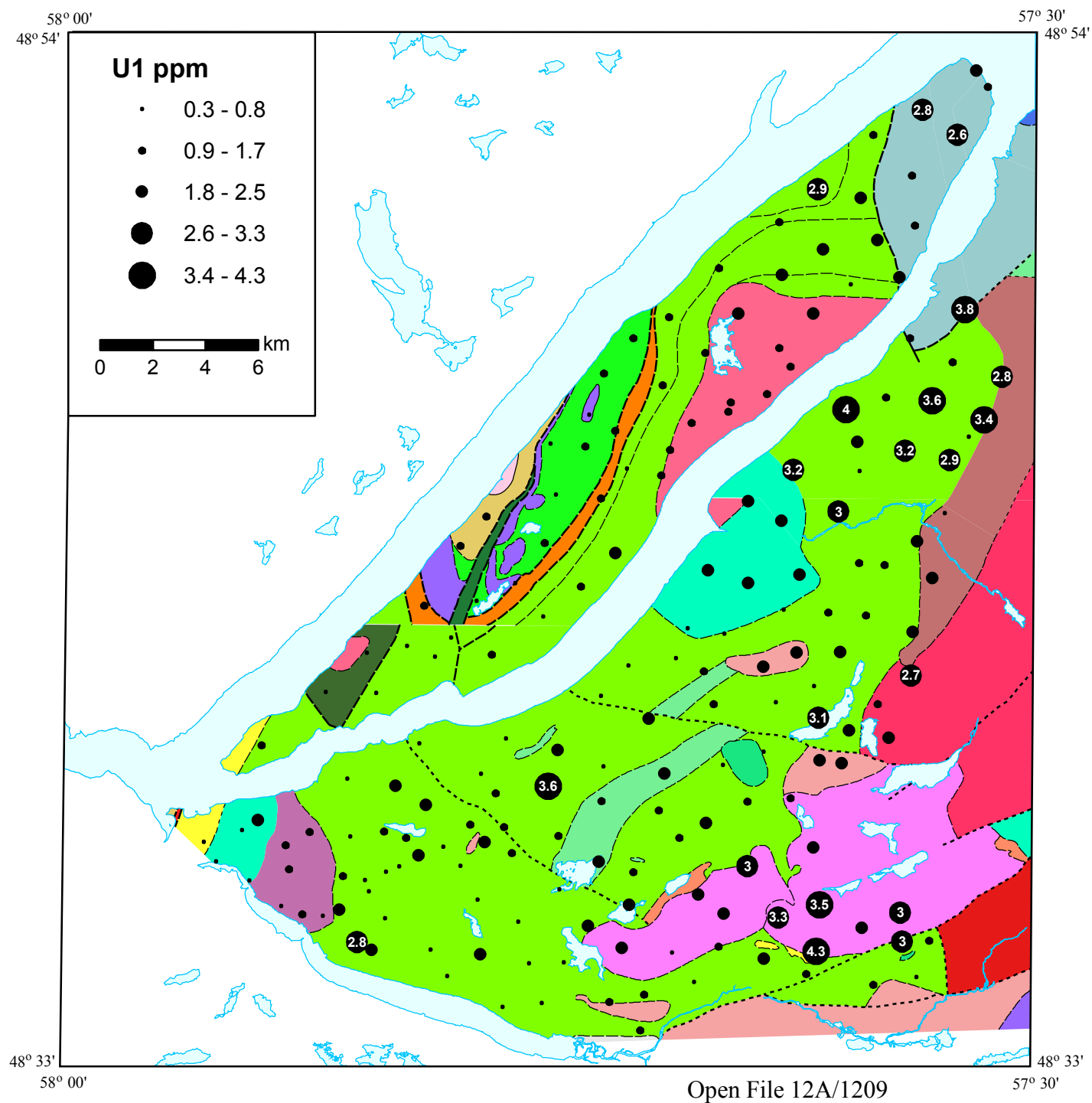


Figure 9. *Distribution of uranium in till.*

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Sample	NTS	Easting	Northing	Zone	Depth	Horizon	Ag1	Al2	As1	As2	Au1	Ba1	Ba2	Be2	Br1	Ca1	Ca2
					cm		ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	%	%
1	12A/12	442231	5389182	21	80	c	2.5	7.69	52	46	12	25	274	2	8.4	0.5	1.69
2	12A/12	442790	5388436	21	150	c	2.5	7.09	10.4	11	0.5	420	539	2.4	6.1	0.5	1.64
3	12A/12	443109	5387141	21	400	c	2.5	6.44	4.8	6	0.5	350	472	2	4.1	3	2.47
4	12A/12	443407	5386161	21	90	c	2.5	6.65	14.9	14	4	440	455	1.6	7.8	2	2.32
5	12A/12	442382	5386569	21	200	bc	2.5	7.04	14.9	15	0.5	510	656	2.2	7.2	0.5	1.63
6	12A/12	441440	5385679	21	100	c	2.5	7.69	23.4	22	0.5	280	382	2.2	7.2	3	2.45
7	12A/12	440793	5386411	21	400	c	2.5	7.5	28	29	10	160	251	1.5	7.2	4	3.23
8	12A/12	441814	5387241	21	35	bc	2.5	6.93	16.3	16	6	480	514	1.9	50	0.5	1.37
9	12A/12	439383	5386741	21	500	c	2.5	6.91	11.7	12	0.5	25	320	1.7	0.25	0.5	1.83
10	12A/12	438533	5386983	21	50	c	2.5	6.41	4.9	7	10	270	422	2.3	13	0.5	1.93
11	12A/12	439864	5386063	21	150	c	2.5	6.69	10.4	12	0.5	280	399	2.3	9.8	2	2.43
12	12A/12	439126	5385657	21	70	c	2.5	6.82	15.6	15	5	250	373	1.6	16.9	0.5	2.37
13	12A/12	438613	5385453	21	100	c	2.5	6.64	39	41	0.5	270	333	1.5	33.2	2	2.27
14	12A/12	437805	5385130	21	60	c	2.5	6.1	7.8	6	0.5	180	109	0.5	97.5	3	2.58
15	12A/12	437955	5384707	21	200	c	5	6.86	31.2	31	0.5	210	346	1.7	5.5	3	3.06
16	12A/12	436850	5384000	21	60	c	2.5	8.13	5.3	5	3	640	936	2	13.6	2	1.93
17	12A/12	436217	5383780	21	300	c	2.5	7.1	4.3	5	0.5	580	666	1.9	6.3	3	3.1
18	12A/12	435427	5383832	21	1000	c	2.5	6.83	5.5	7	0.5	400	549	1.5	0.25	3	2.95
20	12A/12	434626	5384153	21	1000	c	2.5	6.55	4.5	4	0.5	380	279	0.9	3.4	3	4.03
21	12A/12	433424	5385118	21	300	c	2.5	7.1	6	6	0.5	320	353	1.2	15.6	3	4.02
22	12A/12	432153	5385839	21	1000	c	2.5	6.76	21.5	22	0.5	250	356	1.2	3.9	3	3.98
23	12H/04	459399	5396614	21	50	bc	2.5	7.47	2.2	2	0.5	250	327	2.1	104	0.5	1.13
24	12A/12	458647	5394565	21	50	c	2.5	6.42	1.6	1	0.5	360	477	3	32.5	0.5	1.29
25	12A/12	458581	5392908	21	65	c	2.5	5.94	1.4	2	0.5	370	522	2.7	14.9	0.5	1.39
26	12A/12	457733	5390530	21	40	b	2.5	6.09	2.3	1	0.5	420	443	2.2	117	0.5	1.11
27	12A/12	456232	5390810	21	60	c	2.5	6.03	0.9	3	0.5	360	502	2.6	14.3	0.5	1.51
28	12A/12	455115	5389673	21	40	c	2.5	6.25	3	2	0.5	470	491	2.2	40.3	2	1.46
29	12A/12	452965	5393242	21	50	c	2.5	6.37	2.3	2	0.5	310	452	2.3	59.8	0.5	1.35
30	12A/12	450705	5393078	21	30	c	2.5	6.13	2.3	3	0.5	360	487	2.7	20.1	0.5	1.44
31	12A/12	452980	5390020	21	40	c	2.5	7.73	0.25	2	0.5	250	285	1.7	91	2	2.67
33	12A/12	453996	5388254	21	50	c	2.5	6.04	1.9	3	0.5	270	473	2.1	26.6	0.5	1.67
34	12A/12	455944	5389574	21	30	c	2.5	6.14	2	3	0.5	370	500	2.4	28.6	0.5	1.58
35	12A/12	454877	5386367	21	50	c	2.5	6.07	2.1	1	0.5	270	486	2.7	29.9	0.5	1.55
36	12A/12	449770	5386733	21	50	c	2.5	5.96	1.4	1	0.5	360	488	2.2	31.2	0.5	1.51
37	12A/12	448016	5385436	21	40	b	2.5	6.47	2.7	4	5	250	410	3	48.8	0.5	1.2
38	12A/12	449494	5382380	21	55	c	2.5	6.38	2.7	3	0.5	310	480	1.8	43.5	0.5	1.93
40	12A/12	451463	5383860	21	45	c	2.5	6.34	2.5	1	0.5	390	464	2.7	37	0.5	1.62
41	12A/12	452995	5382143	21	40	bc	2.5	6.85	2.9	3	0.5	400	463	1.9	71.5	0.5	1.57
42	12A/12	454601	5381553	21	60	c	2.5	6.73	2.2	3	0.5	420	462	1.9	50.7	2	1.75
43	12A/12	457152	5381147	21	10	bc	2.5	7.22	3.3	4	0.5	310	392	1.2	117	2	1.97
44	12A/12	459270	5382818	21	50	c	2.5	6.23	2.2	3	0.5	380	506	1.8	29.3	0.5	1.96
46	12A/12	438067	5382472	21	20	bc	2.5	7.24	7.2	7	0.5	380	482	1.9	16.9	2	1.86
47	12A/12	438578	5383676	21	15	b	2.5	6.62	6.5	7	0.5	190	257	0.8	57.2	0.5	1.48
48	12A/12	434920	5385541	21	50	c	2.5	6.64	7.8	7	0.5	220	331	1.5	32.5	3	2.89
49	12A/12	435711	5386959	21	40	b	2.5	7.29	5.1	5	5	240	212	1.3	293	0.5	1.17
50	12A/12	431691	5386596	21	10	b	2.5	7.27	8.4	6	0.5	25	60	0.8	234	3	2.65
51	12A/12	436978	5385281	21	70	c	2.5	6.74	9.8	9	0.5	280	322	1.3	33.8	2	2.32
52	12A/12	437152	5388997	21	70	c	2.5	6.73	9.1	9	0.5	25	213	1.1	37.7	3	2.62
53	12A/12	440136	5387993	21	70	c	2.5	6.58	11.1	11	0.5	270	455	1.9	41.6	2	1.56

Sample	NTS	Easting	Northing	Zone	Depth	Horizon	Ag1	Al2	As1	As2	Au1	Ba1	Ba2	Be2	Br1	Ca1	Ca2
					cm		ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	%	%
54	12A/12	445149	5390070	21	80	c	2.5	6.78	7.2	6	0.5	330	418	2.1	57.8	2	1.56
55	12A/12	446801	5388139	21	50	c	2.5	6.88	4.3	4	0.5	400	518	1.8	55.9	0.5	1.03
56	12A/12	446788	5392139	21	40	b	2.5	6.07	5.4	3	0.5	420	499	1	150	0.5	1.11
57	12A/12	447840	5393289	21	60	b	2.5	6.01	4.4	4	0.5	340	431	1.3	84.5	0.5	1.59
58	12A/12	451479	5394513	21	70	bc	2.5	6.98	3.6	3	0.5	290	322	2.1	150	0.5	1.33
59	12A/12	452396	5396431	21	30	c	2.5	7.73	3.4	2	0.5	310	355	2.7	23.4	0.5	0.96
60	12A/12	453743	5395418	21	50	c	2.5	6.45	1.6	3	0.5	490	427	2.5	31	0.5	1.61
61	12A/12	452393	5399524	21	60	c	2.5	6.17	0.25	1	0.5	400	364	2.5	13	0.5	1.89
62	12A/12	456604	5397182	21	55	bc	2.5	5.9	0.25	1	0.5	390	446	2.5	30	0.5	1.34
63	12A/12	459861	5399087	21	40	b	2.5	5.85	3	2	3	300	170	1.4	26	0.5	2.23
64	12A/12	448993	5387778	21	45	c	2.5	6.28	1.7	4	0.5	450	430	2.5	12	0.5	1.78
66	12A/12	445169	5386817	21	55	bc	2.5	7.35	5	8	0.5	530	549	1.9	70	0.5	0.88
67	12A/12	445203	5384781	21	50	bc	2.5	7.29	5.7	8	0.5	450	380	2.5	69	0.5	1.27
68	12A/12	443638	5383562	21	70	b	2.5	6.3	9.2	10	0.5	560	188	2	130	0.5	1.1
69	12A/12	443052	5380306	21	70	bc	2.5	6.23	7.8	10	0.5	25	234	1	77	2	1.57
70	12A/12	444050	5381961	21	60	b	2.5	7.12	3	4	0.5	25	123	1	120	0.5	1.12
71	12A/12	447103	5380495	21	100	c	2.5	6.94	0.25	3	0.5	410	576	1.6	91	2	1.77
72	12A/12	446300	5383384	21	60	b	2.5	5.54	6.4	8	0.5	400	401	1.8	45	0.5	1.19
73	12A/12	448424	5380770	21	70	bc	2.5	5.53	2.1	4	0.5	500	560	1.2	54	0.5	1.56
74	12A/12	451256	5382599	21	80	c	2.5	6.43	7.6	9	0.5	350	458	2	18	2	2.3
76	12A/12	458783	5381442	21	50	bc	2.5	6.04	2.5	4	0.5	300	459	1.7	43	1	1.91
77	12A/12	455894	5393788	21	20	b	2.5	5.16	3.4	3	0.5	340	304	0.9	27	3	3.33
78	12A/13	456631	5400690	21	30	b	2.5	7.01	0.25	1	4	340	162	1.2	120	0.5	2.39
79	12A/13	457621	5403487	21	50	bc	2.5	6.54	0.25	1	0.5	220	308	3.5	22	0.5	1.02
80	12A/13	460767	5401989	21	50	c	2.5	6.56	1.5	1	0.5	270	291	3.6	16	0.5	0.8
81	12A/13	460165	5404813	21	60	c	2.5	6.51	1.1	1	0.5	310	287	3.9	9.5	0.5	1.25
82	12A/13	458549	5405725	21	50	bc	2.5	5.66	2.4	4	0.5	450	372	1.9	9.6	0.5	1.04
83	12A/13	457151	5413469	21	20	c	2.5	4.7	3.4	4	0.5	25	200	0.8	9.1	0.5	1.62
84	12A/13	453561	5410155	21	70	c	2.5	5.75	7.7	9	0.5	240	261	1.8	20	0.5	0.95
85	12A/13	456284	5407779	21	50	b	2.5	7.23	0.25	1	0.5	310	175	1.2	59	0.5	0.98
86	12A/13	451277	5408401	21	75	c	2.5	6.6	3.3	4	0.5	25	237	2.1	18	0.5	1.56
88	12A/13	453573	5405368	21	60	bc	2.5	6.55	1.7	3	0.5	250	305	1.9	38	0.5	0.71
89	12A/13	449386	5406533	21	70	c	2.5	6.74	2.6	6	0.5	25	341	1.6	21	0.5	1.43
90	12A/13	451716	5403303	21	35	b	2.5	5.76	0.25	1	0.5	530	684	1.9	19	0.5	0.67
91	12A/13	448013	5405737	21	40	c	2.5	6.72	2.4	3	0.5	220	339	2.2	29	0.5	0.95
92	12A/13	444878	5401735	21	40	c	2.5	7.48	16	20	0.5	25	236	0.8	20	0.5	3.03
93	12A/13	445077	5399789	21	70	c	2.5	7.27	34	41	10	25	260	1.2	19	0.5	2.57
94	12A/13	444648	5397947	21	40	c	2.5	6.67	41	43	0.5	25	227	0.8	29	2	1.98
95	12A/13	443536	5396426	21	45	bc	2.5	6.45	4.3	5	0.5	250	412	0.9	13	0.5	2.47
96	12A/12	441441	5397834	21	70	bc	2.5	7.36	34	40	58	250	364	1.7	7.6	0.5	1.73
97	12A/12	442053	5395756	21	40	c	2.5	6.48	6.7	9	17	420	549	1.3	5.9	0.5	0.69
98	12A/12	441083	5394350	21	80	c	2.5	8.53	4.9	8	22	25	268	0.9	4.6	0.5	1.26
100	12A/12	440470	5393634	21	60	c	2.5	7.24	15.6	17	0.5	140	159	0.8	78	3	3.59
101	12A/12	438240	5392257	21	50	bc	2.5	8.28	182	187	74	25	101	0.8	104	0.5	1.24
102	12A/12	433877	5390262	21	50	bc	2.5	7.32	5.7	7	0.5	220	273	1.6	91	2	2.84
103	12A/13	446200	5401623	21	30	c	2.5	7.2	5.7	6	0.5	230	382	2.2	97.5	0.5	1.41
104	12A/13	447331	5402220	21	60	c	2.5	6.55	3.7	5	36	250	471	2.4	22.8	0.5	1.44
105	12A/13	447776	5400783	21	30	c	2.5	6.59	2.1	1	0.5	280	384	2.2	55.3	2	1.55
106	12A/13	449420	5401482	21	40	c	2.5	5.99	1.4	1	0.5	200	377	3	18.9	0.5	1.38

Sample	NTS	Easting	Northing	Zone	Depth	Horizon	Ag1	Al2	As1	As2	Au1	Ba1	Ba2	Be2	Br1	Ca1	Ca2
					cm		ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	%	%
107	12A/13	449080	5400513	21	30	c	2.5	6.51	1.4	1	0.5	230	356	2.9	18.2	0.5	1.95
108	12A/13	450232	5402519	21	40	bc	2.5	7.33	1.6	3	0.5	210	371	2.7	51.3	0.5	1.07
109	12A/13	451632	5402949	21	30	b	2.5	6.32	1.7	1	0.5	210	413	2.9	21.5	0.5	1.14
110	12A/13	453098	5403604	21	150	bc	2.5	6.13	2.4	3	5	340	541	1.9	13	0.5	0.6
111	12A/13	453993	5404645	21	50	c	2.5	5.5	2.8	4	2	200	397	2	10.4	0.5	0.59
112	12A/13	461079	5415901	21	30	b	2.5	7.43	24.7	26	0.5	310	465	2.7	13	0.5	0.3
113	12A/13	461502	5415286	21	100	c	2.5	5.53	7.2	8	0.5	250	375	2.4	2	0.5	0.58
114	12A/13	460348	5413456	21	60	bc	2.5	7.57	9.1	8	0.5	300	296	2.7	78	0.5	0.24
115	12A/13	458618	5411911	21	100	c	2.5	5.76	5.4	5	0.5	230	314	1.8	26	0.5	0.31
116	12A/13	456672	5411059	21	60	c	2.5	7.15	5.5	6	0.5	250	284	2.3	111	0.5	0.59
117	12A/13	457312	5409458	21	30	c	2.5	5.76	0.25	1	0.5	170	197	1.7	3.1	4	3.79
119	12A/13	458729	5410015	21	150	c	2.5	4.97	3.8	3	0.5	210	320	2	4.9	0.5	0.49
120	12A/13	458143	5408038	21	400	c	2.5	5.9	3.3	2	0.5	210	336	2.6	7.2	0.5	0.36
121	12A/13	446334	5402835	21	50	bc	2.5	7.46	4.6	5	0.5	200	359	2	97.5	0.5	1.85
122	12A/13	439423	5394038	21	40	c	2.5	6.54	7.8	7	0.5	25	83	1.1	84.5	3	3.19
200	12A/13	460623	5406832	21	50	bc	2.5	6.67	7.2	7	0.5	390	536	2.1	37.7	0.5	1.23
1000	12A/12	457573	5397113	21	50	c	2.5	5.87	0.25	1	0.5	370	456	2.6	9.7	0.5	1.76
1001	12A/12	455437	5395311	21	30	bc	2.5	7.31	0.25	2	0.5	380	397	2.3	50	0.5	1.31
1002	12A/12	456856	5395196	21	40	c	2.5	6.23	1.9	4	0.5	250	349	2	20	1	2.05
1004	12A/12	457318	5391815	21	40	c	2.5	7.26	0.25	1	0.5	350	238	1.3	120	0.5	1.43
1005	12A/12	454883	5392503	21	40	c	2.5	7.27	2.8	5	0.5	130	201	1.3	20	2	3.94
1006	12A/12	453439	5391903	21	40	c	2.5	6.53	1.1	3	0.5	200	406	2.5	14	0.5	2.09
1007	12A/12	454239	5393769	21	35	bc	2.5	6.73	2.3	3	0.5	320	408	2.1	13	1	1.99
1008	12A/12	449647	5393578	21	30	bc	2.5	7.12	1.5	2	0.5	250	305	2	99	1	1.19
1009	12A/12	451080	5391821	21	40	c	2.5	6.3	0.25	3	0.5	360	486	2.5	21	0.5	1.61
1010	12A/12	451429	5389519	21	30	bc	2.5	7.48	0.25	1	0.5	170	265	1.4	52	1	2.1
1011	12A/12	452357	5388114	21	60	c	2.5	6.46	0.25	1	0.5	320	384	2.4	35	2	1.67
1012	12A/12	452352	5385650	21	35	bc	2.5	6.43	1.2	1	0.5	310	393	3.8	29	1	1.18
1013	12A/12	450498	5384579	21	35	bc	2.5	5.59	0.25	1	0.5	370	413	2	85	0.5	0.79
1014	12A/12	450803	5387305	21	35	bc	2.5	6.86	0.7	1	0.5	300	396	2	160	0.5	1.18
1015	12A/12	447600	5382544	21	40	bc	2.5	6.37	2.2	3	0.5	350	362	2.1	110	2	1.25
1016	12A/12	453528	5383707	21	40	c	2.5	6.46	0.25	3	0.5	250	305	4.2	14	0.5	0.95
1017	12A/12	455091	5384209	21	40	c	2.5	6.37	1.9	3	0.5	400	487	3.7	17	2	1.64
1019	12A/12	454967	5382427	21	30	bc	2.5	6.57	0.8	2	0.5	450	432	5.2	81	0.5	1.29
1020	12A/12	456709	5383308	21	45	c	2.5	6.33	2	3	0.5	420	501	3.1	22	2	1.75
1021	12A/12	458173	5383897	21	50	c	2.5	6.15	2.4	2	0.5	530	508	2.2	38	0.5	1.85
1022	12A/12	440309	5382499	21	30	bc	2.5	7.39	8.9	7	0.5	25	263	0.9	150	0.5	1.23
1023	12A/12	437512	5382770	21	20	b	2.5	6.55	4.5	4	0.5	400	448	1.4	34	0.5	1.8
1024	12A/12	434805	5386454	21	30	bc	2.5	7.01	3.5	4	0.5	410	318	1.5	170	0.5	1.65
1025	12A/12	433750	5387400	21	15	b	2.5	7.47	0.25	3	0.5	320	252	1.2	120	0.5	2.29
1026	12A/12	433142	5387032	21	20	bc	2.5	6.85	2.4	1	0.5	330	184	0.3	32	0.5	5.27
1027	12A/12	437258	5386794	21	35	c	2.5	6.82	14	11	0.5	350	261	1.2	160	0.5	1.86
1028	12A/12	438985	5388720	21	40	c	2.5	6.52	5.7	3	0.5	580	314	1.6	81	0.5	1.59
1029	12A/12	439890	5390325	21	60	c	2.5	6.88	8.3	7	11	25	87	1	29	0.5	4.89
1030	12A/12	443176	5390526	21	45	c	2.5	5.81	9.9	7	0.5	320	261	1.2	64	0.5	1.75
1031	12A/12	444776	5388712	21	50	c	2.5	6.44	2.6	2	8	370	443	2.4	11	0.5	1.8
1032	12A/12	446881	5389464	21	40	c	2.5	7.18	5.4	5	7	350	198	1.1	190	4	1.7
1033	12A/12	448622	5391265	21	40	c	2.5	6.85	7.4	7	14	350	357	1.7	94	2	1.32
1034	12A/12	450078	5394710	21	35	bc	2.5	7.13	0.25	1	0.5	25	46	0.6	47	4	2.84

Sample	NTS	Easting	Northing	Zone	Depth	Horizon	Ag1	Al2	As1	As2	Au1	Ba1	Ba2	Be2	Br1	Ca1	Ca2
					cm		ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	%	%
1035	12A/12	450862	5396898	21	50	c	2.5	7.03	0.25	3	0.5	350	374	2.2	45	4	2.09
1037	12A/12	454342	5396735	21	25	b	2.5	5.83	3.8	3	0.5	460	482	2	38	2	1.25
1038	12A/12	453653	5398784	21	35	bc	2.5	5.4	1	1	0.5	460	394	2.3	24	2	1.42
1039	12A/12	455821	5399140	21	40	c	2.5	7.45	3	2	0.5	300	292	2.7	62	2	1.16
1040	12A/12	458821	5398002	21	45	c	2.5	6.73	0.25	2	0.5	200	278	2.7	87	2	1.29
1041	12A/12	449209	5389173	21	25	bc	2.5	7.48	9.3	9	0.5	530	416	1.7	63	0.5	1.5
1043	12A/12	446716	5385830	21	45	c	2.5	6.58	3.2	3	0.5	440	399	2.6	40	0.5	1.26
1044	12A/12	447868	5384178	21	50	c	2.5	7.25	4.1	5	0.5	510	385	1.8	63	2	2.18
1045	12A/12	442088	5384394	21	38	c	2.5	7.96	9	8	0.5	410	203	1.4	140	0.5	1.12
1046	12A/12	442211	5382299	21	40	c	2.5	6.39	8.7	9	0.5	420	390	1.7	67	2	1.67
1047	12A/12	440948	5381492	21	50	c	2.5	6.32	13	12	0.5	480	309	1.2	96	2	1.39
1049	12A/12	444544	5380455	21	50	c	2.5	6.85	5.7	5	0.5	550	549	1.7	49	2	1.86
1050	12A/12	445369	5382002	21	45	c	2.5	6.66	3.5	3	0.5	570	479	1.8	76	7	1.75
1051	12A/12	448277	5379418	21	40	bc	2.5	7.32	0.25	2	0.5	930	933	1.5	47	2	1.86
1052	12A/12	450321	5381263	21	50	c	2.5	7.57	5.1	3	2	360	279	1.3	140	3	1.93
1053	12A/12	458241	5382789	21	60	c	2.5	6.41	2.9	1	0.5	480	448	1.8	19	0.5	1.95
1054	12A/12	455067	5391296	21	40	b	2.5	8.56	0.25	4	0.5	340	159	1.6	150	2	1.83
1055	12A/12	454110	5400733	21	50	c	2.5	6.88	2.3	1	0.5	350	390	1.9	74	2	2.27
1056	12A/13	456100	5403031	21	50	c	2.5	5.85	0.25	1	0.5	350	348	3.4	26	0.5	1.49
1058	12A/13	458350	5401457	21	40	c	2.5	6.56	3.5	1	0.5	370	331	3	15	2	1.89
1059	12A/13	459387	5403364	21	35	b	2.5	6.15	1.5	1	0.5	290	274	3.1	57	3	0.83
1060	12A/13	456553	5401780	21	40	b	2.5	6.44	3	1	0.5	330	210	2.1	77	0.5	1.63
1061	12A/13	462035	5404267	21	40	c	2.5	6.02	2.5	1	0.5	330	287	3.2	48	3	0.77
1062	12A/13	461358	5402650	21	25	bc	2.5	5.61	0.25	1	0.5	270	281	3.1	19	0.5	0.73
1063	12A/13	460055	5401100	21	35	b	2.5	5.86	2.1	1	0.5	440	402	1.7	54	1	2.56
1064	12A/13	459033	5414410	21	50	c	2.5	7.75	11	11	0.5	240	249	2	52	3	0.1
1066	12A/13	455042	5411391	21	50	c	2.5	6.12	8.2	6	0.5	380	288	1.8	67	0.5	0.49
1067	12A/13	455240	5409099	21	40	c	2.5	6.5	13	12	0.5	390	340	2.5	69	0.5	3.14
1068	12A/13	453689	5408142	21	30	b	2.5	6.51	2.2	1	7	310	205	2.8	9	3	0.75
1069	12A/13	454877	5406674	21	40	c	2.5	6.97	0.25	4	0.5	320	311	2	94	0.5	0.4
1071	12A/13	452023	5406658	21	20	b	2.5	6.82	1.4	1	0.5	620	1037	1.9	11.7	0.5	0.83
1072	12A/13	450754	5405174	21	40	c	2.5	5.83	2.8	1	0.5	410	540	1.8	41.6	0.5	0.78
1073	12A/13	449137	5403953	21	30	c	2.5	6.76	0.25	3	0.5	420	618	1.8	33.2	0.5	1
1074	12A/13	446897	5404400	21	20	c	2.5	6.97	3.2	4	0.5	350	476	1.3	57.8	0.5	1.64
1075	12A/13	446798	5399649	21	50	c	2.5	7.14	3.5	3	18	330	423	1.7	14.9	3	2.08
1077	12A/12	447349	5397562	21	30	c	2.5	7.29	7.2	4	0.5	270	234	1.5	189	2	2.17
1078	12A/12	446021	5396288	21	40	bc	2.5	6.47	27.3	22	0.5	280	211	1.2	97.5	3	2.23
1079	12A/12	442438	5398964	21	50	c	2.5	7.66	21.5	19	0.5	410	423	1.6	84.5	0.5	0.82
1080	12A/12	440075	5395572	21	50	c	2.5	7.54	11.7	11	10	420	444	1.4	4.2	0.5	2.07
1081	12A/12	444599	5395153	21	40	c	2.5	6.68	13.6	14	0.5	210	235	0.7	16.3	3	3.27
1082	12A/12	442639	5393704	21	35	bc	2.5	6.91	5.9	7	0.5	25	66	0.5	23.4	3	3.92
1083	12A/12	437886	5393773	21	45	c	2.5	7.19	12.4	14	0.5	25	181	1	111	0.5	2.8
1084	12A/12	436318	5392279	21	20	c	2.5	4.68	5.7	7	4	120	94	0.6	25.4	2	3.22

Sample	NTS	Easting	Northing	Cd2	Ce1	Ce2	Co1	Co2	Cr1	Cr2	Cs1	Cu2	Dy2	Eu1	Fe1	Fe2	Hf1	K2
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	%
1	12A/12	442231	5389182	0.24	53	65	65	65	130	123	5	136	7.7	1.8	9.75	10.8	4	1.42
2	12A/12	442790	5388436	0.14	59	74	20	26	63	64	2	63	5.2	1.2	4.06	4.69	6	2
3	12A/12	443109	5387141	0.15	40	61	15	20	63	68	0.5	40	4.6	1	3.56	4.37	6	1.82
4	12A/12	443407	5386161	0.2	37	51	21	28	91	106	3	67	4.2	1	4.64	5.72	5	1.45
5	12A/12	442382	5386569	0.1	53	67	18	22	60	66	3	61	4.4	1	4.03	4.5	5	1.97
6	12A/12	441440	5385679	0.33	49	69	35	40	104	122	4	270	5.6	1.3	5.96	7.21	3	1.45
7	12A/12	440793	5386411	0.3	30	42	54	57	117	134	3	276	4.9	1.2	6.5	8.06	3	1.27
8	12A/12	441814	5387241	0.23	40	55	16	20	72	67	0.5	65	3.7	0.9	3.9	4.7	5	1.67
9	12A/12	439383	5386741	0.33	28	41	26	31	49	61	0.5	71	5.1	1.2	5.49	6.23	5	1.53
10	12A/12	438533	5386983	0.11	45	69	11	16	42	47	0.5	33	4.2	0.8	2.85	3.45	7	2.2
11	12A/12	439864	5386063	0.14	44	63	21	27	98	110	3	114	4.8	0.9	4.13	4.75	5	1.8
12	12A/12	439126	5385657	0.24	36	50	27	31	104	109	3	102	3.9	1	4.73	5.44	4	1.49
13	12A/12	438613	5385453	0.13	26	38	25	33	104	118	2	59	4	1	3.8	4.6	3	1.29
14	12A/12	437805	5385130	0.21	12	17	21	24	449	386	0.5	30	1.5	0.5	6.14	6.77	2	0.38
15	12A/12	437955	5384707	0.21	35	50	25	32	104	122	0.5	88	4.7	1.1	4.82	5.47	5	1.43
16	12A/12	436850	5384000	0.16	65	96	17	22	60	82	0.5	18	3.1	1	3.11	3.76	4	2.44
17	12A/12	436217	5383780	0.22	72	101	25	31	104	119	0.5	93	5	1.5	4.95	5.62	4	1.6
18	12A/12	435427	5383832	0.18	42	58	19	23	72	82	0.5	84	4.4	1.2	3.87	4.9	4	1.42
20	12A/12	434626	5384153	0.22	21	28	44	42	176	203	0.5	313	2.6	0.7	5.36	5.72	3	0.85
21	12A/12	433424	5385118	0.16	21	34	28	30	98	113	0.5	92	3.9	0.9	4.91	5.61	3	0.76
22	12A/12	432153	5385839	0.2	23	36	20	26	104	122	0.5	72	3.7	0.8	4.72	5.35	3	0.99
23	12H/04	459399	5396614	0.1	36	47	7	10	51	47	0.5	12	4.5	0.9	3.78	4.31	5	1.49
24	12A/12	458647	5394565	0.05	46	61	8	11	42	35	0.5	17	5.5	0.8	2.63	3.06	8	2.21
25	12A/12	458581	5392908	0.11	46	61	6	10	33	32	0.5	19	5.4	0.8	2.6	3.01	9	2.14
26	12A/12	457733	5390530	0.05	36	47	5	10	35	34	0.5	13	4.3	0.6	2.98	3.47	7	1.66
27	12A/12	456232	5390810	0.05	38	55	6	10	31	36	0.5	20	4.4	0.6	2.35	2.82	7	2.14
28	12A/12	455115	5389673	0.11	55	69	7	10	36	37	0.5	18	4.6	0.8	2.96	3.84	8	1.9
29	12A/12	452965	5393242	0.05	31	43	7	10	37	38	0.5	17	4.2	0.8	2.68	3.28	7	1.96
30	12A/12	450705	5393078	0.05	37	50	7	10	38	38	0.5	23	4.4	0.8	2.43	2.96	7	2.12
31	12A/12	452980	5390020	0.23	38	52	25	28	111	112	0.5	79	4.2	0.9	4.52	5.58	4	1.09
33	12A/12	453996	5388254	0.11	34	53	7	11	34	42	0.5	19	4.2	0.7	2.47	3.36	6	1.81
34	12A/12	455944	5389574	0.05	48	69	7	10	34	37	0.5	15	5	0.8	2.61	3.37	8	2
35	12A/12	454877	5386367	0.15	47	71	6	10	33	44	0.5	19	5.7	0.7	2.52	3.19	7	1.98
36	12A/12	449770	5386733	0.11	35	54	5	10	30	47	0.5	17	4.1	0.6	2.35	3.12	7	2.07
37	12A/12	448016	5385436	0.05	51	77	5	9	26	32	2	18	5.2	0.6	2.26	2.78	7	2.07
38	12A/12	449494	5382380	0.14	34	49	8	14	45	51	2	28	3.6	0.8	3.07	3.52	5	1.54
40	12A/12	451463	5383860	0.2	72	93	8	12	42	46	0.5	21	5.1	0.8	3.13	3.28	10	1.84
41	12A/12	452995	5382143	0.14	40	51	9	12	48	51	0.5	38	3.9	0.8	3.03	3.36	5	1.48
42	12A/12	454601	5381553	0.05	32	45	9	13	49	56	0.5	31	3.5	0.8	3.16	3.51	4	1.49
43	12A/12	457152	5381147	0.12	20	29	8	16	85	87	0.5	14	3.2	0.8	4.39	4.86	6	1
44	12A/12	459270	5382818	0.14	33	45	12	14	51	52	0.5	25	3.6	0.8	2.91	3.22	5	1.55
46	12A/12	438067	5382472	0.24	48	58	18	23	91	85	2	63	5	1.4	4.16	4.39	5	1.46
47	12A/12	438578	5383676	0.25	21	30	8	31	111	94	2	12	1.6	0.8	4.62	4.83	6	0.95
48	12A/12	434920	5385541	0.17	24	33	16	21	91	105	0.5	39	4	0.9	4.32	4.59	5	1.29
49	12A/12	435711	5386959	0.15	30	36	9	12	72	80	0.5	25	3.6	1	4.02	4.25	4	0.89
50	12A/12	431691	5386596	0.27	14	21	21	29	156	170	2	40	4.6	1	9.3	10.51	3	0.24
51	12A/12	436978	5385281	0.33	36	45	23	29	124	125	2	62	3.9	1	5.6	6.11	4	0.98
52	12A/12	437152	5388997	0.13	21	30	24	26	221	226	0.5	64	3	0.6	4.61	5.5	3	1.06
53	12A/12	440136	5387993	0.15	42	62	16	22	53	63	2	42	4	0.8	3.34	4.06	5	1.71

Sample	NTS	Easting	Northing	Cd2	Ce1	Ce2	Co1	Co2	Cr1	Cr2	Cs1	Cu2	Dy2	Eu1	Fe1	Fe2	Hf1	K2
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	%
54	12A/12	445149	5390070	0.13	49	66	14	19	49	61	0.5	29	4.3	0.8	3.2	3.88	7	1.89
55	12A/12	446801	5388139	0.05	49	63	7	11	36	38	0.5	15	3.7	0.8	2.95	3.36	6	1.67
56	12A/12	446788	5392139	0.14	27	34	6	11	36	42	2	13	2.3	0.7	3.33	3.96	3	0.95
57	12A/12	447840	5393289	0.13	25	34	9	15	59	66	0.5	27	2.9	0.8	2.51	2.95	3	1.13
58	12A/12	451479	5394513	0.13	34	43	13	17	338	293	0.5	22	3.9	1	4.43	5.05	5	1.35
59	12A/12	452396	5396431	0.17	38	48	5	11	57	52	0.5	14	4.1	0.9	3.58	4.2	6	1.42
60	12A/12	453743	5395418	0.12	31	51	6	14	30	46	0.5	19	4.9	0.6	2.75	3.91	8	1.73
61	12A/12	452393	5399524	0.12	25	40	8	15	48	58	2	20	4.3	0.7	2.68	3.64	7	1.87
62	12A/12	456604	5397182	0.05	29	49	7	10	38	33	0.5	13	4	0.7	2.01	2.61	6	1.95
63	12A/12	459861	5399087	0.22	18	33	13	31	60	75	0.5	11	3.7	1	7.51	10.85	6	0.66
64	12A/12	448993	5387778	0.14	27	55	7	13	28	49	0.5	27	4.3	0.5	2.37	3.3	5	2
66	12A/12	445169	5386817	0.05	41	70	8	15	27	42	0.5	20	4.4	1	2.9	3.96	4	1.67
67	12A/12	445203	5384781	0.11	36	59	12	17	48	59	0.5	29	4.2	0.1	2.88	3.8	6	1.53
68	12A/12	443638	5383562	0.43	59	99	17	29	72	91	0.5	37	10.1	2.2	7.28	9.02	4	0.52
69	12A/12	443052	5380306	0.37	16	25	20	32	100	115	0.5	25	3.8	0.9	7.66	9.23	3	0.47
70	12A/12	444050	5381961	0.28	15	27	11	23	61	81	0.5	32	3.6	0.8	6.96	8.74	3	0.37
71	12A/12	447103	5380495	0.15	25	42	6	11	41	47	0.5	33	3	0.8	3.35	4.17	6	1.21
72	12A/12	446300	5383384	0.05	26	46	5	16	39	52	0.5	19	3	0.6	3.37	4.05	6	1.49
73	12A/12	448424	5380770	0.23	14	29	5	15	37	45	1	12	2.1	0.1	5.34	6.65	5	1.12
74	12A/12	451256	5382599	0.14	31	67	9	17	41	67	1	46	4.4	0.8	3.02	4.08	4	1.51
76	12A/12	458783	5381442	0.11	17	37	8	14	47	65	0.5	15	3.2	0.7	3.46	4.42	5	1.24
77	12A/12	455894	5393788	0.12	15	27	5	21	58	66	0.5	11	2.4	0.6	3.03	3.98	7	0.91
78	12A/13	456631	5400690	0.05	21	36	13	26	73	106	0.5	10	5.4	1.2	5.95	8.57	5	0.55
79	12A/13	457621	5403487	0.05	22	42	5	10	47	30	0.5	11	4.4	0.4	1.74	2.84	4	2.29
80	12A/13	460767	5401989	0.05	20	40	0.5	9	17	25	0.5	11	3.9	0.2	1.7	2.6	5	2.48
81	12A/13	460165	5404813	0.05	31	65	5	12	16	33	1	24	6.3	0.1	1.83	2.99	7	2.55
82	12A/13	458549	5405725	0.05	18	32	6	18	39	46	2	12	2.9	0.5	3.71	5.3	6	1.88
83	12A/13	457151	5413469	0.05	21	35	5	18	98	88	0.5	13	3.1	0.6	2.65	3.88	8	0.82
84	12A/13	453561	5410155	0.05	34	65	14	22	68	69	0.5	39	4.4	0.8	1.94	3.1	6	1.46
85	12A/13	456284	5407779	0.05	13	24	3	11	71	103	1	19	3	0.5	1.66	2.5	4	1.11
86	12A/13	451277	5408401	0.14	27	55	11	20	84	121	0.5	25	4.1	0.7	3.23	4.99	4	1.39
88	12A/13	453573	5405368	0.05	19	34	5	10	32	41	0.5	12	2.2	0.5	1.89	2.83	5	1.69
89	12A/13	449386	5406533	0.05	24	49	9	17	54	75	0.5	44	3.7	0.6	2.5	3.63	4	1.41
90	12A/13	451716	5403303	0.05	14	17	2	9	19	13	1	8	1.7	0.5	0.68	0.81	10	2.31
91	12A/13	448013	5405737	0.05	33	62	16	23	38	52	0.5	37	3.9	0.6	2.1	3.1	5	1.88
92	12A/13	444878	5401735	0.05	14	24	10	22	80	107	0.5	11	2.7	0.4	3.77	4.79	3	0.72
93	12A/13	445077	5399789	0.05	15	29	19	29	67	94	2	35	4	0.9	3.72	5.26	4	1.08
94	12A/13	444648	5397947	0.05	16	27	52	59	150	180	2	20	2.2	0.6	6.53	7.99	3	0.75
95	12A/13	443536	5396426	0.05	23	40	12	21	300	431	2	12	3	0.8	3.3	4.4	4	0.85
96	12A/12	441441	5397834	0.05	34	66	46	56	380	403	2	90	3.6	1	5.45	7.54	2	1.57
97	12A/12	442053	5395756	0.05	31	49	19	23	410	576	1	14	1.5	0.6	4.15	5.5	4	1.37
98	12A/12	441083	5394350	0.25	15	27	14	24	47	75	0.5	17	2.7	0.7	3.77	5.3	2	0.79
100	12A/12	440470	5393634	0.12	15	22	28	35	42	216	2	61	3.7	0.7	6.3	8.08	2	0.61
101	12A/12	438240	5392257	0.2	16	22	20	28	45	172	0.5	42	3.8	1	5.93	7.45	2	0.75
102	12A/12	433877	5390262	0.05	22	36	14	22	85	100	0.5	36	4.4	0.8	4.21	5.33	3	1.23
103	12A/13	446200	5401623	0.05	29	43	8	13	46	50	0.5	21	3.7	0.7	2.76	3.45	5	1.65
104	12A/13	447331	5402220	0.05	29	46	9	15	44	46	0.5	20	3.8	0.6	2.23	2.87	4	2.07
105	12A/13	447776	5400783	0.05	21	31	7	13	49	49	0.5	11	3.6	0.7	2.69	3.3	5	1.8
106	12A/13	449420	5401482	0.05	35	60	7	12	44	42	0.5	16	4.4	0.6	2.09	2.79	5	2.14

Sample	NTS	Easting	Northing	Cd2	Ce1	Ce2	Co1	Co2	Cr1	Cr2	Cs1	Cu2	Dy2	Eu1	Fe1	Fe2	Hf1	K2
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	%
107	12A/13	449080	5400513	0.05	31	51	10	17	52	57	0.5	23	5	0.7	2.46	3.32	5	2.07
108	12A/13	450232	5402519	0.05	30	47	10	15	72	84	0.5	15	3.9	0.7	2.61	3.42	5	1.83
109	12A/13	451632	5402949	0.05	34	57	7	12	36	36	0.5	18	4.5	0.6	1.92	2.67	5	2.2
110	12A/13	453098	5403604	0.05	24	42	5	9	28	24	0.5	11	2.4	0.5	1.4	1.88	4	2.23
111	12A/13	453993	5404645	0.05	38	64	5	9	32	28	0.5	16	3	0.5	1.54	1.84	5	2.17
112	12A/13	461079	5415901	0.26	50	63	15	19	117	113	4	23	3.5	0.8	4.57	5.27	5	1.97
113	12A/13	461502	5415286	0.05	64	90	8	13	64	45	2	19	4.4	0.8	2.33	2.72	6	1.81
114	12A/13	460348	5413456	0.33	61	67	31	30	137	129	5	14	3.4	0.7	5.87	5.41	5	1.59
115	12A/13	458618	5411911	0.11	38	42	5	11	78	51	2	15	3	0.6	2.64	3.07	8	1.52
116	12A/13	456672	5411059	0.26	56	72	8	15	85	72	2	26	4.6	0.8	3.05	3.48	6	1.33
117	12A/13	457312	5409458	0.05	23	32	12	19	273	284	0.5	13	1.9	0.5	3.19	3.91	6	0.55
119	12A/13	458729	5410015	0.05	41	57	6	10	59	32	0.5	21	3.9	0.6	1.81	2.21	7	1.81
120	12A/13	458143	5408038	0.05	57	81	8	13	51	46	3	20	4.8	0.7	2.39	2.97	7	2.14
121	12A/13	446334	5402835	0.05	27	37	12	17	150	180	0.5	37	3.6	0.8	3.67	4.38	3	1.37
122	12A/13	439423	5394038	0.19	25	37	25	45	44	51	2	23	6.8	1.7	9.1	10.23	4	0.22
200	12A/13	460623	5406832	0.05	35	48	10	18	255	46	2	16	4.2	1	4.45	5.35	5	1.84
1000	12A/12	457573	5397113	0.05	26	49	7	13	33	45	0.5	25	5.5	0.7	2.46	3.63	9	2.01
1001	12A/12	455437	5395311	0.05	21	44	6	11	37	56	0.5	22	4.2	0.7	2.34	3.16	4	1.72
1002	12A/12	456856	5395196	0.05	20	41	8	14	70	97	0.5	40	3.6	0.5	2.68	3.65	3	1.62
1004	12A/12	457318	5391815	0.05	55	92	8	17	42	59	3	15	5.1	0.8	3.48	4.2	4	0.66
1005	12A/12	454883	5392503	0.05	13	30	17	29	68	117	2	72	4.5	0.5	4.16	5.9	3	0.92
1006	12A/12	453439	5391903	0.05	25	52	8	15	37	62	1	32	4.7	0.6	2.44	3.49	6	2.15
1007	12A/12	454239	5393769	0.05	27	54	8	17	45	63	1	39	4.7	0.8	2.7	3.75	6	1.94
1008	12A/12	449647	5393578	0.05	24	36	6	12	40	57	0.5	16	3.9	0.8	3.38	4.12	6	1.33
1009	12A/12	451080	5391821	0.05	25	51	6	12	26	45	0.5	23	4.4	0.6	2.1	2.89	6	2.15
1010	12A/12	451429	5389519	0.05	19	37	22	30	42	64	0.5	38	3.1	0.5	3.53	4.36	4	1.14
1011	12A/12	452357	5388114	0.05	60	66	6	13	39	46	0.5	20	5.3	0.8	2.71	3.13	11	2.04
1012	12A/12	452352	5385650	0.05	79	89	4	9	23	26	0.5	16	6.5	0.8	2.34	2.69	15	2.41
1013	12A/12	450498	5384579	0.05	39	40	3	7	20	23	0.5	8	3	0.6	2.26	2.43	9	1.73
1014	12A/12	450803	5387305	0.05	64	71	5	9	37	39	0.5	15	6	0.9	3.1	3.51	9	1.59
1015	12A/12	447600	5382544	0.12	42	44	6	12	39	40	2	14	4.2	0.9	2.94	3.14	7	1.2
1016	12A/12	453528	5383707	0.14	86	110	3	8	16	21	0.5	15	9.4	0.6	2.33	2.9	20	2.68
1017	12A/12	455091	5384209	0.13	78	84	6	12	35	37	1	26	7.8	0.9	2.81	3.43	15	2.18
1019	12A/12	454967	5382427	0.12	150	161	5	10	33	35	1	20	20.3	1	2.83	3.5	15	1.81
1020	12A/12	456709	5383308	0.05	78	90	6	12	41	44	0.5	28	7.3	0.8	3.01	3.78	11	1.82
1021	12A/12	458173	5383897	0.05	64	55	8	11	59	46	0.5	21	4.8	1	2.64	3.44	10	1.69
1022	12A/12	440309	5382499	0.05	31	30	13	24	140	130	0.5	27	3.8	1.3	4.69	6.02	6	0.7
1023	12A/12	437512	5382770	0.05	38	36	7	17	94	80	0.5	12	3.2	1.1	2.22	2.88	9	1.5
1024	12A/12	434805	5386454	0.05	46	35	10	14	85	76	2	24	3.2	0.7	3.47	4.31	6	1.02
1025	12A/12	433750	5387400	0.05	41	31	12	20	120	106	0.5	35	3.6	1	3.68	4.73	6	1.07
1026	12A/12	433142	5387032	0.05	23	19	9	15	230	213	2	11	2.4	0.9	3.12	3.79	6	0.44
1027	12A/12	437258	5386794	0.05	35	32	13	22	110	100	0.5	39	4	1	4.5	5.77	7	1.07
1028	12A/12	438985	5388720	0.05	44	35	7	15	74	65	0.5	14	3.5	0.1	3.42	4.48	11	1.63
1029	12A/12	439890	5390325	0.05	35	29	31	42	190	180	0.5	34	5.8	1.5	6.09	7.95	4	0.56
1030	12A/12	443176	5390526	0.13	36	27	10	21	100	73	0.5	17	3	0.1	5.37	6.81	7	1.07
1031	12A/12	444776	5388712	0.05	55	49	10	15	57	48	0.5	27	4.8	1	1.96	2.45	11	2.1
1032	12A/12	446881	5389464	0.05	47	37	12	23	130	118	2	28	4.3	1.1	6.26	7.27	4	0.51
1033	12A/12	448622	5391265	0.05	42	40	6	12	62	51	0.5	16	3.7	0.1	3.19	4.1	7	1.42
1034	12A/12	450078	5394710	0.05	15	18	24	43	250	236	0.5	30	4.5	0.9	7.99	10.82	4	0.19

Sample	NTS	Easting	Northing	Cd2	Ce1	Ce2	Co1	Co2	Cr1	Cr2	Cs1	Cu2	Dy2	Eu1	Fe1	Fe2	Hf1	K2
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	%
1035	12A/12	450862	5396898	0.05	59	50	9	19	62	59	0.5	17	4.7	1.4	3.66	4.71	7	1.4
1037	12A/12	454342	5396735	0.05	35	33	4	15	60	43	2	12	3.1	0.8	2.84	3.59	10	1.73
1038	12A/12	453653	5398784	0.05	30	29	6	14	65	45	0.5	12	3	0.8	2.4	3.04	9	2.02
1039	12A/12	455821	5399140	0.05	42	38	5	12	44	55	0.5	10	4.6	0.1	3.36	4.1	7	1.46
1040	12A/12	458821	5398002	0.05	50	45	6	11	105	45	0.5	11	4.3	0.9	3.02	3.92	7	1.54
1041	12A/12	449209	5389173	0.14	73	63	14	21	71	74	0.5	31	4.6	1.1	3.82	4.93	6	1.18
1043	12A/12	446716	5385830	0.05	73	70	7	13	90	39	0.5	24	4.8	0.5	2.33	3.24	8	1.96
1044	12A/12	447868	5384178	0.14	60	51	12	20	173	71	0.5	26	4.5	0.1	3.91	4.75	9	1.45
1045	12A/12	442088	5384394	0.13	50	42	16	26	83	110	0.5	31	4.1	1	5.46	6.4	5	0.71
1046	12A/12	442211	5382299	0.3	71	66	14	22	56	74	0.5	30	5.5	1.4	4.06	5.53	7	1.23
1047	12A/12	440948	5381492	0.24	42	35	23	35	143	149	0.5	29	4.1	0.7	6.17	7.86	6	0.78
1049	12A/12	444544	5380455	0.15	67	55	12	18	43	76	2	28	3.5	1	3.3	3.96	8	1.3
1050	12A/12	445369	5382002	0.05	54	47	9	13	98	56	0.5	25	3.8	0.6	2.98	3.54	7	1.45
1051	12A/12	448277	5379418	0.05	50	40	6	13	47	35	2	9	1.9	1	4.02	4.9	9	1.57
1052	12A/12	450321	5381263	0.23	47	40	21	29	188	187	0.5	45	4.4	1.4	5.15	6.39	5	0.79
1053	12A/12	458241	5382789	0.05	47	41	6	12	47	56	1	24	3.8	1	1.82	2.25	11	1.5
1054	12A/12	455067	5391296	0.11	77	61	19	28	45	90	2	36	5.8	1.1	4.58	5.16	5	0.51
1055	12A/12	454110	5400733	0.05	54	43	10	24	45	45	3	12	4.8	1.4	4.16	4.93	10	1.29
1056	12A/13	456100	5403031	0.1	62	54	7	14	49	45	1	16	6	0.1	2.52	3.31	15	2.17
1058	12A/13	458350	5401457	0.05	56	44	9	16	49	48	0.5	11	4.6	1.1	2.38	3.12	10	1.96
1059	12A/13	459387	5403364	0.05	49	41	4	9	65	23	1	10	3.9	0.8	1.83	2.26	10	2.27
1060	12A/13	456553	5401780	0.21	37	33	11	17	71	56	0.5	21	3.7	0.9	3.49	4.42	6	1.21
1061	12A/13	462035	5404267	0.05	41	35	3	9	31	18	0.5	10	3.8	0.8	1.41	1.78	11	2.57
1062	12A/13	461358	5402650	0.05	34	29	3	9	55	19	2	9	3.1	0.1	1.44	1.87	9	2.44
1063	12A/13	460055	5401100	0.13	43	38	12	29	90	55	2	7	5.1	1.4	4.55	6.25	8	1.31
1064	12A/13	459033	5414410	0.15	53	43	10	16	59	82	7	21	2.5	0.7	3.96	5.05	6	1.6
1066	12A/13	455042	5411391	0.05	66	52	6	12	120	61	2	34	4	0.9	2.79	3.61	11	1.47
1067	12A/13	455240	5409099	0.27	210	179	26	32	53	296	2	129	8.2	2.2	4.15	5.6	7	0.87
1068	12A/13	453689	5408142	0.05	19	13	4	10	59	41	4	8	1.7	0.4	1.51	1.9	5	1.53
1069	12A/13	454877	5406674	0.05	47	40	4	11	44	42	0.5	12	2.8	0.6	2.69	3.49	8	1.73
1071	12A/13	452023	5406658	0.13	14	15	3	8	158	18	2	9	1.2	0.8	1.3	1.78	10	2.78
1072	12A/13	450754	5405174	0.05	16	22	3	9	50	30	0.5	8	1.8	0.5	2.28	2.67	7	1.79
1073	12A/13	449137	5403953	0.05	35	50	5	8	74	30	0.5	18	3	0.8	1.24	1.51	4	1.84
1074	12A/13	446897	5404400	0.1	20	33	10	14	43	46	0.5	28	2.5	0.6	2.52	3.44	4	1.44
1075	12A/13	446798	5399649	0.05	29	37	9	15	56	68	0.5	38	3.7	0.9	2.66	3.15	4	1.62
1077	12A/12	447349	5397562	0.05	28	30	18	22	57	189	2	53	4.4	1	5.15	5.72	4	0.94
1078	12A/12	446021	5396288	0.22	37	42	20	26	24	110	2	59	4.2	1.2	5.49	6.01	3	0.7
1079	12A/12	442438	5398964	0.05	78	98	33	33	53	336	5	78	3.3	1	6.57	7.67	3	1.63
1080	12A/12	440075	5395572	0.05	27	37	23	28	17	239	0.5	43	3.3	1.1	4.36	5.46	3	1.36
1081	12A/12	444599	5395153	0.15	15	24	8	26	20	101	2	14	3.1	0.9	3.11	3.94	4	0.85
1082	12A/12	442639	5393704	0.05	12	20	14	30	51	111	0.5	13	3.2	1	5.17	6.8	2	0.18
1083	12A/12	437886	5393773	0.05	18	26	15	26	90	108	0.5	31	4.6	0.8	4.73	6.36	3	0.82
1084	12A/12	436318	5392279	0.12	13	20	11	34	74	30	0.5	7	3.6	0.8	4.54	5.67	4	0.22

Sample	NTS	Easting	Northing	La1	La2	Li2	LOI	Lu1	Mg2	Mn2	Mo1	Mo2	Na1	Na2	Nb2	Nd1	Ni1	Ni2
				ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm
1	12A/12	442231	5389182	18.2	18	26.5	6.6	0.64	2.81	2665	0.5	0.5	1.2	1.15	9	16	10	54
2	12A/12	442790	5388436	26.6	29	17.7	3.1	0.53	1.48	1324	0.5	0.5	1.82	1.88	13	22	10	35
3	12A/12	443109	5387141	18.9	23	10.3	1.4	0.4	1.28	955	0.5	0.5	2.1	2.33	11	16	10	24
4	12A/12	443407	5386161	16.3	18	34.5	3.1	0.38	1.89	2743	0.5	0.5	2.02	2.15	11	2.5	10	53
5	12A/12	442382	5386569	20.8	22	16.6	3.3	0.46	1.31	1151	0.5	1.3	1.8	1.89	11	14	10	28
6	12A/12	441440	5385679	18.9	20	27.8	4.2	0.42	2.45	1557	0.5	1.3	1.53	1.66	8	19	10	46
7	12A/12	440793	5386411	14.3	15	22.3	3.2	0.38	2.94	1438	0.5	1.8	1.76	1.95	8	2.5	10	57
8	12A/12	441814	5387241	17.5	19	19	6.7	0.46	1.2	811	0.5	0.5	1.7	1.85	12	2.5	10	39
9	12A/12	439383	5386741	19.5	22	9.5	1.8	0.52	1.67	1648	0.5	0.5	2.24	2.35	9	15	10	21
10	12A/12	438533	5386983	16.3	22	7.9	2	0.44	0.9	810	0.5	0.5	2.22	2.55	13	16	10	21
11	12A/12	439864	5386063	18.2	20	14	3.3	0.43	1.75	1246	0.5	1.6	1.81	2.01	11	13	10	54
12	12A/12	439126	5385657	13.6	15	15.5	5.7	0.36	1.9	1419	0.5	2	1.81	1.95	8	11	10	56
13	12A/12	438613	5385453	13	15	14.3	11.7	0.34	1.68	1362	0.5	1.4	1.63	1.88	9	8	10	41
14	12A/12	437805	5385130	5.3	4	11.9	17.1	0.18	2.39	754	0.5	0.5	1.15	1.1	4	2.5	10	67
15	12A/12	437955	5384707	15.6	17	14.5	2.6	0.4	2.26	1241	0.5	0.5	2.05	2.18	10	11	10	44
16	12A/12	436850	5384000	26.6	33	12.2	3.4	0.18	1.67	798	0.5	0.5	2.22	2.49	12	16	10	46
17	12A/12	436217	5383780	29.9	35	9.6	2.6	0.33	2.38	1157	0.5	0.5	2.03	2.13	10	23	10	53
18	12A/12	435427	5383832	22.1	26	6.6	1.4	0.38	1.58	928	0.5	0.5	2.35	2.53	8	17	10	33
20	12A/12	434626	5384153	9.8	10	8	2.3	0.22	4.42	1056	0.5	0.5	1.41	1.42	5	6	10	77
21	12A/12	433424	5385118	10.4	11	6.5	3.4	0.32	2.32	1031	0.5	0.5	1.72	1.72	6	11	10	37
22	12A/12	432153	5385839	11.1	12	7.1	1.7	0.34	2.03	1105	0.5	0.5	1.88	1.97	6	9	10	34
23	12H/04	459399	5396614	18.9	20	6.4	17.8	0.49	0.63	390	0.5	1.1	1.5	1.58	11	16	90	16
24	12A/12	458647	5394565	21.5	24	10.2	6	0.62	0.66	542	3	1.1	2.02	2.16	16	10	10	19
25	12A/12	458581	5392908	20.1	23	5.3	2.9	0.66	0.57	475	0.5	1.3	2.16	2.31	16	10	10	12
26	12A/12	457733	5390530	18.2	20	4.9	23.5	0.47	0.51	417	0.5	1.1	1.36	1.42	14	14	10	9
27	12A/12	456232	5390810	16.9	20	5.8	2.4	0.51	0.6	502	0.5	0.5	1.99	2.23	14	12	10	12
28	12A/12	455115	5389673	20.1	22	5.8	6.3	0.55	0.62	498	0.5	0.5	1.96	2.02	13	16	10	12
29	12A/12	452965	5393242	17.5	20	7.2	7.8	0.51	0.7	446	0.5	1.1	1.96	2.06	11	9	10	13
30	12A/12	450705	5393078	16.9	19	8.1	3.9	0.49	0.67	470	0.5	1.2	2.05	2.23	13	13	10	15
31	12A/12	452980	5390020	16.9	19	19.1	11.2	0.36	2.39	816	5	0.5	1.57	1.73	8	14	170	74
33	12A/12	453996	5388254	15.6	22	6.2	5.7	0.39	0.71	491	0.5	1.3	1.69	2.02	12	12	10	13
34	12A/12	455944	5389574	18.9	23	5.5	4.6	0.53	0.59	529	0.5	0.5	1.75	2	15	13	10	11
35	12A/12	454877	5386367	20.8	26	6.5	4.2	0.55	0.64	561	0.5	1.8	1.83	2.06	14	18	10	21
36	12A/12	449770	5386733	15.6	21	5.6	5.4	0.44	0.59	487	3	2.6	1.77	2.1	13	12	10	15
37	12A/12	448016	5385436	22.1	27	7.6	12.5	0.53	0.59	427	0.5	1.5	1.64	1.91	16	12	10	11
38	12A/12	449494	5382380	14.9	18	9	7.1	0.36	0.89	616	0.5	0.5	1.76	1.88	9	12	10	16
40	12A/12	451463	5383860	21.5	23	7.1	6	0.75	0.69	568	0.5	1.1	1.95	1.95	17	16	10	15
41	12A/12	452995	5382143	15.6	16	9.5	10.2	0.42	0.83	493	0.5	0.5	1.68	1.71	10	11	10	18
42	12A/12	454601	5381553	13	14	7.6	7.5	0.31	0.8	561	0.5	1.1	1.72	1.81	8	8	10	16
43	12A/12	457152	5381147	11.7	12	6.2	17.6	0.32	0.95	577	0.5	0.5	1.14	1.11	10	15	10	16
44	12A/12	459270	5382818	14.3	16	4.9	4.2	0.41	0.89	685	0.5	0.5	1.94	2.04	9	8	10	17
46	12A/12	438067	5382472	27.3	29	14.3	8.1	0.46	1.26	687	0.5	0.5	1.98	2	10	21	10	30
47	12A/12	438578	5383676	13.6	13	8.8	21.8	0.4	0.88	467	0.5	0.5	1.07	0.88	15	9	10	16
48	12A/12	434920	5385541	13	14	8.6	7	0.41	1.73	805	0.5	0.5	1.77	1.8	9	12	10	33
49	12A/12	435711	5386959	14.3	15	6.4	36.1	0.29	0.69	440	0.5	0.5	1.09	1.1	8	2.5	10	16
50	12A/12	431691	5386596	6.2	5	7	27.7	0.36	1.97	905	0.5	0.5	0.94	0.96	6	12	10	44
51	12A/12	436978	5385281	13.6	14	13.1	9.5	0.35	1.86	1234	0.5	1.1	1.84	1.88	8	10	10	45
52	12A/12	437152	5388997	9.1	10	9.7	6.1	0.31	2.21	1389	0.5	0.5	1.67	1.74	7	8	10	52
53	12A/12	440136	5387993	15.6	18	14.2	7.8	0.42	1.15	852	0.5	0.5	1.68	1.88	12	13	10	30

Sample	NTS	Easting	Northing	La1	La2	Li2	LOI	Lu1	Mg2	Mn2	Mo1	Mo2	Na1	Na2	Nb2	Nd1	Ni1	Ni2
				ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm
54	12A/12	445149	5390070	19.5	22	12.6	8.9	0.44	1.14	747	0.5	1	1.7	1.89	13	14	10	31
55	12A/12	446801	5388139	20.1	24	20.2	8.2	0.43	0.82	571	2	0.5	1.61	1.73	13	14	10	20
56	12A/12	446788	5392139	14.3	15	9.6	34.2	0.25	0.61	437	5	1.2	0.81	0.81	10	10	10	12
57	12A/12	447840	5393289	13	15	10.5	27.4	0.31	1	596	0.5	0.5	1.03	1.03	9	14	10	20
58	12A/12	451479	5394513	16.9	18	12.1	20.3	0.4	0.98	540	0.5	0.5	1.46	1.57	11	14	10	42
59	12A/12	452396	5396431	11.7	12	9.8	15.1	0.5	0.48	408	2	1.4	1.42	1.55	14	2.5	10	13
60	12A/12	453743	5395418	17	22	8.6	7.8	0.52	0.79	584	0.5	1.1	1.54	1.97	15	12	10	18
61	12A/12	452393	5399524	12	16	6.8	3.8	0.44	0.95	616	0.5	1.2	1.72	2.19	14	2.5	10	23
62	12A/12	456604	5397182	13	17	6.7	9.3	0.38	0.64	435	0.5	0.5	1.55	1.98	12	2.5	10	15
63	12A/12	459861	5399087	12	12	5.4	19.7	0.33	1.95	942	0.5	0.5	1.19	1.44	19	9	10	24
64	12A/12	448993	5387778	13	19	8.3	4.2	0.32	0.84	558	0.5	0.5	1.67	2.23	13	8	10	17
66	12A/12	445169	5386817	15	20	13.9	16.3	0.28	0.66	617	0.5	1.4	1.09	1.46	12	2.5	10	19
67	12A/12	445203	5384781	14	18	9.8	16.1	0.32	0.67	803	0.5	1.1	1.4	1.73	12	2.5	10	20
68	12A/12	443638	5383562	24	26	14.1	39.1	0.51	0.81	926	0.5	1.1	0.83	0.94	10	28	10	16
69	12A/12	443052	5380306	8.8	9	12.2	34.7	0.33	0.71	993	0.5	0.5	0.89	0.94	8	2.5	10	21
70	12A/12	444050	5381961	7.7	8	9.5	41.2	0.23	0.62	646	0.5	0.5	0.68	0.7	7	2.5	10	16
71	12A/12	447103	5380495	15	19	9	17.9	0.24	0.69	469	0.5	0.5	1.06	1.24	10	17	10	12
72	12A/12	446300	5383384	14	17	11.6	23	0.31	0.85	604	0.5	1.3	1.25	1.58	14	2.5	10	18
73	12A/12	448424	5380770	9.3	11	6.7	22.3	0.2	0.51	478	0.5	0.5	0.92	1	11	2.5	10	10
74	12A/12	451256	5382599	14	20	12.7	4.8	0.28	1.1	1577	0.5	1.3	1.57	2.05	10	9	10	22
76	12A/12	458783	5381442	12	15	9.1	13.5	0.28	1.02	906	0.5	2.2	1.11	1.39	10	2.5	10	18
77	12A/12	455894	5393788	11	13	3.7	26.7	0.35	0.76	689	0.5	1.4	0.85	0.88	13	9	10	12
78	12A/13	456631	5400690	13	15	8.9	30.2	0.32	1.62	1017	0.5	1.1	0.93	1.1	11	2.5	10	23
79	12A/13	457621	5403487	15	22	8.4	8.3	0.3	0.6	437	0.5	1.6	1.65	2.32	13	2.5	10	14
80	12A/13	460767	5401989	10	15	6.8	6.3	0.39	0.42	375	0.5	1.9	1.74	2.41	16	7	10	9
81	12A/13	460165	5404813	16	24	7.4	2.5	0.53	0.7	505	0.5	1.6	1.88	2.65	22	8	10	13
82	12A/13	458549	5405725	10	13	9.2	9.9	0.43	0.73	722	0.5	1.6	1.35	1.69	22	9	10	14
83	12A/13	457151	5413469	13	17	7	7.1	0.45	0.97	432	0.5	1.3	1.27	1.63	14	12	10	15
84	12A/13	453561	5410155	17	24	13.7	6.9	0.36	0.83	1043	0.5	1.5	1.42	1.93	11	12	10	33
85	12A/13	456284	5407779	8.3	11	7.6	32.9	0.22	0.63	286	0.5	1.3	0.97	1.26	8	8	10	19
86	12A/13	451277	5408401	11	15	21.4	7.7	0.34	1.65	720	0.5	0.5	1.5	2.1	10	2.5	10	39
88	12A/13	453573	5405368	11	14	9.4	20.1	0.26	0.41	528	0.5	1.4	1.34	1.73	10	2.5	10	15
89	12A/13	449386	5406533	10	15	12.8	7.2	0.28	1.15	657	0.5	1.4	1.61	2.18	9	2.5	10	27
90	12A/13	451716	5403303	7.8	9	2.8	11.8	0.38	0.15	255	3	1.7	1.68	2.01	17	2.5	10	5
91	12A/13	448013	5405737	17	23	11.3	9	0.32	0.86	891	0.5	1.8	1.69	2.18	13	2.5	10	25
92	12A/13	444878	5401735	8.6	11	9	8.9	0.3	1.54	594	0.5	1.1	2.02	2.39	8	2.5	10	27
93	12A/13	445077	5399789	8.3	11	13.8	8.9	0.28	1.6	1174	0.5	0.5	1.7	2.18	9	2.5	10	29
94	12A/13	444648	5397947	10	11	10.6	13.8	0.27	1.91	2380	0.5	0.5	1.79	1.93	7	10	10	46
95	12A/13	443536	5396426	15	20	10.4	8	0.26	2.08	660	0.5	0.5	2.06	2.56	9	11	10	68
96	12A/12	441441	5397834	18	22	32.9	4.9	0.26	3.51	1580	0.5	1.3	1.08	1.31	14	9	210	222
97	12A/12	442053	5395756	22	25	14.3	5.3	0.25	2.43	1302	0.5	0.5	1.31	1.57	4	9	10	166
98	12A/12	441083	5394350	8.6	11	17	4.5	0.33	2.01	497	0.5	1.4	2.78	3.59	4	11	10	33
100	12A/12	440470	5393634	5.7	7	18.4	7.3	0.25	3.24	1160	0.5	0.5	1.54	1.75	6	2.5	10	59
101	12A/12	438240	5392257	7.2	8	23.5	13	0.3	2.35	705	0.5	1.1	1.56	1.74	6	12	150	48
102	12A/12	433877	5390262	9.8	13	11.3	9	0.34	1.63	815	0.5	0.5	1.75	2.04	10	7	10	31
103	12A/13	446200	5401623	11.7	15	7.6	10.1	0.55	0.84	476	3	1.3	1.69	1.99	11	10	10	21
104	12A/13	447331	5402220	12.4	17	7.2	2.9	0.32	0.84	594	0.5	1.4	2.14	2.62	11	10	10	21
105	12A/13	447776	5400783	10.4	13	7	6.4	0.36	0.91	502	0.5	1.2	1.87	2.18	11	7	10	16
106	12A/13	449420	5401482	15.6	21	7.3	2.6	0.43	0.73	494	0.5	1.6	1.92	2.33	13	10	10	21

Sample	NTS	Easting	Northing	La1	La2	Li2	LOI	Lu1	Mg2	Mn2	Mo1	Mo2	Na1	Na2	Nb2	Nd1	Ni1	Ni2
				ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm
107	12A/13	449080	5400513	14.9	21	7.7	2.7	0.41	1.05	637	0.5	1.6	1.94	2.41	14	8	10	28
108	12A/13	450232	5402519	13.6	17	9	8.8	0.39	0.85	439	0.5	1.8	1.75	2.12	12	12	10	33
109	12A/13	451632	5402949	16.9	25	9.3	4.2	0.36	0.69	501	0.5	1.7	1.85	2.43	12	9	10	19
110	12A/13	453098	5403604	10.4	14	7.8	2.9	0.25	0.37	418	0.5	1.3	2.02	2.58	8	2.5	10	10
111	12A/13	453993	5404645	13	17	8.6	1.8	0.31	0.45	521	0.5	1.8	2.02	2.5	10	2.5	10	12
112	12A/13	461079	5415901	24.7	27	60.4	6.7	0.45	1.39	582	0.5	1.2	1.83	2.17	14	18	10	86
113	12A/13	461502	5415286	23.4	28	18.5	1.9	0.47	0.79	957	0.5	1.4	1.73	2.11	12	16	10	28
114	12A/13	460348	5413456	28.6	27	96.7	18.9	0.49	1.31	307	0.5	0.5	1.68	1.76	14	16	10	129
115	12A/13	458618	5411911	19.5	19	18	8.3	0.54	0.36	383	3	1.1	1.47	1.68	15	10	10	21
116	12A/13	456672	5411059	24.7	27	33.7	16.6	0.51	0.65	326	0.5	1.1	1.47	1.7	14	15	10	28
117	12A/13	457312	5409458	13	15	2.7	2.8	0.26	3.91	825	0.5	1.6	3.09	3.43	12	11	10	107
119	12A/13	458729	5410015	20.1	25	9.3	1	0.42	0.47	715	0.5	0.5	1.73	2.01	11	10	10	16
120	12A/13	458143	5408038	26.6	33	14.1	2.2	0.48	0.65	613	0.5	0.5	2	2.41	13	14	10	20
121	12A/13	446334	5402835	13.6	16	7.8	11.7	0.32	1.23	589	0.5	1.1	1.8	1.98	10	12	10	29
122	12A/13	439423	5394038	11.7	13	6.7	13.9	0.46	1.91	1146	0.5	0.5	2.24	2.29	12	11	10	25
200	12A/13	460623	5406832	26	30	24.5	12.1	0.39	1.01	779	0.5	1.5	1.64	1.9	14	19	10	23
1000	12A/12	457573	5397113	16	22	5.5	3.1	0.51	0.76	573	0.5	1.1	1.66	2.17	18	11	10	17
1001	12A/12	455437	5395311	14	19	6.6	13.9	0.31	0.68	599	0.5	1.8	1.43	1.81	11	5	10	18
1002	12A/12	456856	5395196	13	20	9.9	7.4	0.25	1.01	804	0.5	1	1.56	1.91	9	6	10	29
1004	12A/12	457318	5391815	33	41	10.9	41.2	0.3	1.13	666	0.5	1.9	0.8	0.96	10	22	10	16
1005	12A/12	454883	5392503	8	13	16.7	8	0.25	2.43	1040	0.5	0.5	1.61	2.11	8	2.5	10	43
1006	12A/12	453439	5391903	15	22	10	4.3	0.33	1.1	680	3	1.2	1.7	2.33	14	10	10	24
1007	12A/12	454239	5393769	17	24	15.5	5.9	0.33	1.19	673	0.5	1.5	1.52	2.07	13	11	10	25
1008	12A/12	449647	5393578	13	15	7.8	27.3	0.38	0.66	449	0.5	1.7	1.11	1.33	13	9	10	16
1009	12A/12	451080	5391821	14	21	7.1	4.9	0.32	0.76	520	0.5	1.6	1.67	2.21	14	7	10	19
1010	12A/12	451429	5389519	12	15	9.6	14.4	0.23	2.97	714	0.5	0.5	1.22	1.52	9	10	10	130
1011	12A/12	452357	5388114	23	26	8.1	7.6	0.58	0.76	649	5	1.6	1.91	2.18	16	16	10	27
1012	12A/12	452352	5385650	28	32	8.8	6.3	0.89	0.49	541	2	2.1	2.07	2.35	25	22	10	10
1013	12A/12	450498	5384579	16	18	5.8	26	0.43	0.34	358	0.5	1.9	1.28	1.45	14	9	10	9
1014	12A/12	450803	5387305	26	28	6	18.3	0.51	0.55	429	0.5	1.7	1.39	1.55	13	20	70	15
1015	12A/12	447600	5382544	23	24	9.5	31.2	0.41	0.67	535	0.5	2.1	1.26	1.33	10	16	10	13
1016	12A/12	453528	5383707	33	42	10.9	4.7	1.01	0.44	647	0.5	2.1	2.03	2.56	31	24	10	11
1017	12A/12	455091	5384209	32	35	9.8	3.4	0.92	0.78	694	0.5	1.9	1.9	2.13	23	25	10	15
1019	12A/12	454967	5382427	68	74	13.9	21.2	1.11	0.64	640	5	2.6	1.49	1.66	28	61	10	11
1020	12A/12	456709	5383308	27	31	6.9	4.7	0.78	0.81	668	2	1.6	1.71	2	25	22	10	16
1021	12A/12	458173	5383897	18	22	5.2	6.8	0.65	0.78	534	0.5	1.7	1.66	1.95	12	5	10	15
1022	12A/12	440309	5382499	11	12	11.8	26.7	0.52	1.01	549	0.5	1.3	1.21	1.31	9	19	10	21
1023	12A/12	437512	5382770	14	17	9.3	13.8	0.52	0.93	575	0.5	1.6	1.69	2.06	11	15	10	17
1024	12A/12	434805	5386454	15	16	6.9	31.3	0.4	0.9	540	0.5	1.7	1.18	1.32	9	2.5	10	20
1025	12A/12	433750	5387400	12	14	8.2	19.9	0.55	1.33	705	0.5	1.2	1.22	1.43	9	11	10	29
1026	12A/12	433142	5387032	8.8	9	2.5	14.3	0.33	1.7	578	0.5	1	0.89	0.83	5	8	10	24
1027	12A/12	437258	5386794	12	13	10.7	20.3	0.48	1.33	794	0.5	2.5	1.45	1.71	9	2.5	10	30
1028	12A/12	438985	5388720	12	14	9.1	12.6	0.68	0.78	532	0.5	1.5	1.48	1.82	14	2.5	10	15
1029	12A/12	439890	5390325	8	9	14.7	7.2	0.65	3.1	1415	0.5	1.3	2.13	2.51	6	9	10	39
1030	12A/12	443176	5390526	9.8	10	8.2	20.2	0.57	0.9	644	0.5	1	1.39	1.57	11	2.5	10	19
1031	12A/12	444776	5388712	20	25	9.5	5.1	0.77	1.01	584	0.5	1.1	1.77	2.16	15	8	10	28
1032	12A/12	446881	5389464	13	14	8.9	38.8	0.45	0.99	684	0.5	1.2	0.75	0.78	10	18	10	24
1033	12A/12	448622	5391265	15	19	10.4	20.6	0.54	0.71	580	0.5	1.3	1.1	1.38	11	14	10	21
1034	12A/12	450078	5394710	4.4	5	22.2	21.9	0.5	3.05	1170	0.5	0.5	1.28	1.52	8	13	10	33

Sample	NTS	Easting	Northing	La1	La2	Li2	LOI	Lu1	Mg2	Mn2	Mo1	Mo2	Na1	Na2	Nb2	Nd1	Ni1	Ni2
				ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm
1035	12A/12	450862	5396898	20	25	8.8	11	0.56	1.17	786	0.5	1.5	1.54	1.88	12	15	10	23
1037	12A/12	454342	5396735	13	15	6.9	15.1	0.59	0.67	642	0.5	2	1.3	1.63	17	6	10	18
1038	12A/12	453653	5398784	10	13	6.6	9.3	0.58	0.79	520	0.5	1.6	1.54	2	15	2.5	10	15
1039	12A/12	455821	5399140	13	15	6.1	17.6	0.65	0.61	480	0.5	1.2	1.26	1.56	13	2.5	10	15
1040	12A/12	458821	5398002	17	20	6.1	20.9	0.56	0.7	455	0.5	1.9	1.4	1.71	13	2.5	10	16
1041	12A/12	449209	5389173	19	23	20.7	19.7	0.53	1.03	964	0.5	1.2	1.05	1.27	12	18	10	23
1043	12A/12	446716	5385830	20	25	10	11.5	0.68	0.71	612	0.5	1.6	1.42	1.85	15	10	10	22
1044	12A/12	447868	5384178	18	22	12.6	11	0.65	1.36	767	0.5	1.7	1.69	2.04	11	15	10	26
1045	12A/12	442088	5384394	11	12	17.9	30.9	0.49	0.96	667	0.5	0.5	1.04	1.2	9	2.5	10	27
1046	12A/12	442211	5382299	16	20	19.4	15.6	0.62	1.23	778	0.5	1.1	1.3	1.67	9	12	10	29
1047	12A/12	440948	5381492	11	13	11.7	26.8	0.48	0.86	2437	0.5	0.5	0.94	1.03	9	12	10	22
1049	12A/12	444544	5380455	15	17	10.1	8.9	0.48	0.95	579	0.5	0.5	1.42	1.65	9	10	10	26
1050	12A/12	445369	5382002	15	17	7.9	9	0.53	0.82	530	0.5	1.3	1.52	1.74	9	8	10	19
1051	12A/12	448277	5379418	18	19	7.9	16.1	0.27	0.75	528	0.5	1.4	1.76	1.88	11	14	10	14
1052	12A/12	450321	5381263	13	15	21.3	22.4	0.43	2.24	754	0.5	1.2	1.03	1.15	7	18	150	60
1053	12A/12	458241	5382789	14	17	6.5	8	0.66	0.84	560	0.5	1.4	1.48	1.81	11	11	10	16
1054	12A/12	455067	5391296	27	29	8.3	33.5	0.58	1.36	935	0.5	1.6	0.99	1.03	9	21	10	29
1055	12A/12	454110	5400733	18	21	9.4	16.2	0.72	1.32	900	0.5	1.4	1.67	1.98	16	8	10	19
1056	12A/13	456100	5403031	19	24	6.4	4.1	1.14	0.8	635	0.5	1.5	1.86	2.39	21	6	10	17
1058	12A/13	458350	5401457	16	18	8.3	7.2	0.76	1.01	634	0.5	1.6	1.91	2.3	14	6	10	19
1059	12A/13	459387	5403364	15	18	6.6	11.3	0.82	0.45	378	0.5	1.7	1.8	2.21	17	6	10	10
1060	12A/13	456553	5401780	13	14	7	26.9	0.56	0.94	700	0.5	0.5	1.34	1.58	10	8	10	19
1061	12A/13	462035	5404267	12	14	3.7	8.6	0.92	0.38	359	0.5	1.7	1.92	2.38	20	9	10	6
1062	12A/13	461358	5402650	12	14	6.1	10.1	0.64	0.41	373	0.5	2.9	1.89	2.31	17	5	10	7
1063	12A/13	460055	5401100	13	16	9	19.6	0.67	1.66	1070	0.5	1.2	1.33	1.58	18	9	10	18
1064	12A/13	459033	5414410	20	22	80.8	15.3	0.59	0.86	336	0.5	1.2	0.59	0.69	12	11	10	45
1066	12A/13	455042	5411391	20	22	20.7	10.4	0.73	0.55	343	0.5	1.4	1.46	1.79	14	10	10	25
1067	12A/13	455240	5409099	47	56	46.2	15.1	0.73	3.12	1214	0.5	0.5	1.32	1.6	11	38	10	134
1068	12A/13	453689	5408142	5.1	5	10.7	4.4	0.34	0.45	336	0.5	1.8	2.38	2.84	15	2.5	10	8
1069	12A/13	454877	5406674	16	18	17.5	17.3	0.6	0.44	305	0.5	1.6	1.56	1.93	14	9	10	13
1071	12A/13	452023	5406658	7.8	8	3.1	5.2	0.31	0.19	261	0.5	2	2.26	2.51	16	7	10	5
1072	12A/13	450754	5405174	8.4	10	7.6	9.4	0.31	0.32	248	0.5	1.2	1.84	2.06	12	2.5	10	8
1073	12A/13	449137	5403953	15.6	19	9.1	11.1	0.23	0.46	242	0.5	1.6	2.09	2.44	9	10	10	10
1074	12A/13	446897	5404400	10.4	14	11	11.4	0.21	1.16	481	0.5	1.4	1.71	2.09	8	7	10	23
1075	12A/13	446798	5399649	13	15	8.8	8.1	0.36	1.09	532	0.5	1.1	2.28	2.48	9	12	10	22
1077	12A/12	447349	5397562	12.4	12	13.7	20.5	0.38	2.04	665	3	0.5	1.49	1.48	8	10	10	46
1078	12A/12	446021	5396288	9.1	9	17.3	25.7	0.35	1.28	621	0.5	1.9	1.39	1.42	7	2.5	10	34
1079	12A/12	442438	5398964	24	25	52.2	13.4	0.32	2.45	928	0.5	0.5	0.88	0.91	4	14	10	137
1080	12A/12	440075	5395572	15.6	17	15.1	3.3	0.36	2.5	706	0.5	0.5	1.91	2.11	7	12	10	84
1081	12A/12	444599	5395153	9.1	10	7.1	9.9	0.4	1.3	516	0.5	1.5	1.75	1.79	10	7	10	22
1082	12A/12	442639	5393704	5.8	7	3.4	8.8	0.32	1.78	710	0.5	0.5	2.81	2.97	8	11	10	27
1083	12A/12	437886	5393773	7.8	10	8.8	14.9	0.35	1.51	775	0.5	0.5	1.76	2	8	2.5	10	27
1084	12A/12	436318	5392279	6.5	8	1.6	19.1	0.36	1.28	1298	0.5	0.5	1.59	1.51	9	8	10	13

Sample	NTS	Easting	Northing	P2	Pb2	Rb1	Rb2	Sb1	Sc1	Sc2	Se1	Sm1	Sn1	Sr1	Sr2	Ta1	Tb1
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
1	12A/12	442231	5389182	1385	17	59	47	4	39.7	41.5	0.5	7.2	0.005	0.025	141	1.4	0.9
2	12A/12	442790	5388436	517	25	64	68	0.6	18.2	20.4	0.5	5.5	0.005	0.025	163	1.6	1.2
3	12A/12	443109	5387141	605	17	57	59	0.3	15.6	18.9	0.5	4	0.005	0.025	238	0.1	0.6
4	12A/12	443407	5386161	547	23	78	52	0.4	19.5	21.9	0.5	3.9	0.005	0.025	183	0.1	0.25
5	12A/12	442382	5386569	587	27	60	66	0.6	16.9	18.4	0.5	4.4	0.005	0.05	166	0.1	0.25
6	12A/12	441440	5385679	884	23	63	56	1.2	24.7	28.6	0.5	4.9	0.005	0.025	245	0.1	0.25
7	12A/12	440793	5386411	839	22	46	48	2.1	26.6	31.3	0.5	4	0.005	0.025	215	0.1	0.25
8	12A/12	441814	5387241	512	28	61	63	0.5	14.9	16.6	0.5	3.8	0.005	0.025	149	0.1	0.25
9	12A/12	439383	5386741	551	16	62	53	0.8	26	29.2	0.5	4.7	0.005	0.025	171	1.2	0.8
10	12A/12	438533	5386983	541	19	53	74	0.4	11.7	14	0.5	3.4	0.005	0.025	201	0.1	0.25
11	12A/12	439864	5386063	599	19	72	68	0.5	17.5	20.6	0.5	3.9	0.005	0.025	222	1.2	0.25
12	12A/12	439126	5385657	709	26	57	59	0.6	20.1	22.3	0.5	3.4	0.005	0.025	212	0.1	0.25
13	12A/12	438613	5385453	797	20	2.5	50	0.6	20.1	23.9	0.5	3.5	0.005	0.025	200	0.1	0.25
14	12A/12	437805	5385130	434	12	2.5	20	0.5	30.5	33.9	0.5	1.4	0.005	0.025	135	0.1	0.25
15	12A/12	437955	5384707	712	14	2.5	49	0.3	24	27.2	0.5	4	0.005	0.025	250	0.1	0.7
16	12A/12	436850	5384000	1301	34	47	67	0.4	11.7	14.5	0.5	4.2	0.005	0.025	623	0.1	0.25
17	12A/12	436217	5383780	1320	17	35	47	0.3	21.5	24.6	0.5	5.7	0.005	0.025	522	0.1	0.25
18	12A/12	435427	5383832	909	15	2.5	39	0.3	20.1	23.1	0.5	4.6	0.005	0.025	402	0.1	0.25
20	12A/12	434626	5384153	389	11	2.5	35	0.3	31.2	34.6	0.5	2.4	0.005	0.025	192	0.1	0.25
21	12A/12	433424	5385118	604	12	29	31	0.3	27.3	30.4	0.5	3	0.005	0.025	334	0.1	0.25
22	12A/12	432153	5385839	680	16	29	34	0.3	27.3	31.2	0.5	3	0.005	0.025	325	0.1	0.25
23	12H/04	459399	5396614	410	19	55	54	0.05	10.4	11.7	0.5	4.2	0.005	0.025	113	0.1	0.6
24	12A/12	458647	5394565	492	20	85	79	0.05	9.1	10.3	0.5	4.5	0.005	0.025	138	1.4	0.25
25	12A/12	458581	5392908	270	17	60	71	0.2	9.1	10.2	0.5	4.2	0.005	0.025	147	0.1	0.8
26	12A/12	457733	5390530	465	21	72	58	0.4	9.8	10.4	0.5	3.8	0.005	0.025	118	1.2	0.25
27	12A/12	456232	5390810	378	18	72	72	0.2	9.1	10.8	0.5	3.5	0.005	0.025	163	0.1	0.5
28	12A/12	455115	5389673	369	20	58	61	0.3	11.1	11.9	0.5	4.4	0.005	0.025	163	0.1	0.6
29	12A/12	452965	5393242	387	17	57	69	0.2	9.8	11.5	0.5	3.6	0.005	0.025	137	0.1	0.25
30	12A/12	450705	5393078	377	18	64	72	0.2	9.1	10.5	0.5	3.5	0.005	0.025	146	0.1	0.6
31	12A/12	452980	5390020	711	17	46	41	0.05	16.3	18.8	0.5	3.9	0.005	0.025	208	1.1	0.9
33	12A/12	453996	5388254	332	18	31	59	0.2	9.8	12.5	0.5	3.1	0.005	0.025	170	0.1	0.6
34	12A/12	455944	5389574	421	20	55	63	0.2	10.4	12.2	0.5	4.1	0.005	0.025	182	0.8	0.25
35	12A/12	454877	5386367	444	21	55	69	0.2	9.1	11.4	0.5	4.5	0.005	0.025	167	0.1	0.8
36	12A/12	449770	5386733	433	19	65	66	0.05	7.8	10.3	0.5	3.2	0.005	0.025	172	0.1	0.25
37	12A/12	448016	5385436	536	22	46	74	0.05	8.4	10.2	0.5	4.4	0.005	0.025	142	0.1	0.25
38	12A/12	449494	5382380	490	19	31	51	0.2	13	14.8	0.5	3.4	0.005	0.025	198	0.6	0.25
40	12A/12	451463	5383860	331	24	58	62	0.4	12.4	13.4	0.5	4.4	0.005	0.025	173	0.1	0.25
41	12A/12	452995	5382143	496	21	41	51	0.3	14.9	15.9	0.5	3.6	0.005	0.025	167	1	0.25
42	12A/12	454601	5381553	536	17	49	50	0.05	13	15	0.5	3.1	0.005	0.025	181	0.1	0.6
43	12A/12	457152	5381147	476	18	18	37	0.2	18.9	21.3	0.5	2.9	0.005	0.025	164	0.9	0.25
44	12A/12	459270	5382818	434	16	20	52	0.05	13	14.9	0.5	3.2	0.005	0.025	174	0.1	0.6
46	12A/12	438067	5382472	585	21	51	52	0.5	22.1	23.6	0.5	5.9	0.005	0.07	230	1.4	0.6
47	12A/12	438578	5383676	314	14	25	31	0.6	13	13.5	0.5	2.4	0.005	0.025	150	0.1	0.25
48	12A/12	434920	5385541	632	14	31	45	0.4	21.5	24.2	0.5	3.3	0.005	0.025	242	0.1	0.25
49	12A/12	435711	5386959	870	15	24	35	0.2	15.6	16.7	0.5	3.5	0.005	0.025	108	0.1	0.25
50	12A/12	431691	5386596	838	10	2.5	19	0.05	27.3	29.8	0.5	3.3	0.005	0.025	113	0.1	0.25
51	12A/12	436978	5385281	674	18	2.5	37	0.4	22.8	24.7	0.5	3.8	0.005	0.025	217	0.1	0.6
52	12A/12	437152	5388997	383	13	34	43	0.3	24.7	28.1	0.5	2.5	0.005	0.025	159	0.1	0.25
53	12A/12	440136	5387993	530	20	55	66	0.3	13.6	16.7	0.5	3.4	0.005	0.025	162	0.1	0.25

Sample	NTS	Easting	Northing	P2	Pb2	Rb1	Rb2	Sb1	Sc1	Sc2	Se1	Sm1	Sn1	Sr1	Sr2	Ta1	Tb1
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
54	12A/12	445149	5390070	473	23	46	73	0.05	12.4	14.5	0.5	4	0.005	0.025	152	0.1	0.25
55	12A/12	446801	5388139	231	27	51	66	0.2	11.1	12.6	0.5	3.7	0.005	0.025	159	0.1	0.25
56	12A/12	446788	5392139	696	22	31	35	0.4	8.4	9.7	0.5	2.7	0.005	0.025	136	0.1	0.25
57	12A/12	447840	5393289	637	19	28	40	0.2	12.4	14.3	0.5	3.1	0.005	0.025	133	1.4	0.25
58	12A/12	451479	5394513	693	16	49	52	0.05	11.7	12.6	0.5	3.8	0.005	0.025	127	0.1	0.25
59	12A/12	452396	5396431	685	22	42	53	0.3	11.7	13.2	0.5	3.3	0.005	0.025	118	0.1	0.25
60	12A/12	453743	5395418	614	17	2.5	64	0.3	9.2	13.1	0.5	3.2	0.005	0.025	161	0.1	0.25
61	12A/12	452393	5399524	469	14	51	72	0.05	9.8	14.2	0.5	2.4	0.005	0.025	158	0.1	0.25
62	12A/12	456604	5397182	364	16	63	71	0.05	6.8	9.7	0.5	2.4	0.005	0.025	142	0.1	0.25
63	12A/12	459861	5399087	437	22	2.5	30	0.05	12	17.2	1	2.4	0.005	0.025	142	1.5	0.25
64	12A/12	448993	5387778	411	20	2.5	71	0.05	8.7	13.3	0.5	2.4	0.005	0.025	168	0.1	0.25
66	12A/12	445169	5386817	608	25	41	63	0.3	9.4	13.5	0.5	3.1	0.005	0.025	115	0.1	0.25
67	12A/12	445203	5384781	760	22	2.5	57	0.05	11	14.7	0.5	2.9	0.005	0.025	139	0.1	0.25
68	12A/12	443638	5383562	1539	22	2.5	25	0.05	19	24.6	0.5	6.9	0.005	0.025	135	0.1	0.25
69	12A/12	443052	5380306	972	13	2.5	27	0.05	12	15.9	0.5	2.6	0.005	0.025	171	0.1	0.8
70	12A/12	444050	5381961	1102	11	2.5	21	0.3	15	20.2	0.5	2.3	0.005	0.025	78	0.1	0.25
71	12A/12	447103	5380495	411	20	2.5	44	0.3	11	15.4	0.5	2.7	0.005	0.025	258	0.1	0.7
72	12A/12	446300	5383384	769	23	60	56	0.05	8.7	12.1	0.5	2	0.005	0.025	130	0.1	0.25
73	12A/12	448424	5380770	475	22	2.5	42	0.2	10	15	0.5	1.7	0.005	0.025	213	0.1	0.25
74	12A/12	451256	5382599	487	27	43	55	0.3	12	17.5	0.5	2.6	0.005	0.025	221	0.1	0.25
76	12A/12	458783	5381442	431	15	52	45	0.3	11	16.1	0.5	2.4	0.005	0.025	188	0.1	0.25
77	12A/12	455894	5393788	605	16	2.5	33	0.3	12	16.4	0.5	1.9	0.005	0.025	272	0.1	0.25
78	12A/13	456631	5400690	813	14	2.5	27	0.05	20	28.4	0.5	3.4	0.005	0.025	124	0.1	0.9
79	12A/13	457621	5403487	418	21	43	97	0.05	5.1	8.4	0.5	2.4	0.005	0.025	99	0.1	0.25
80	12A/13	460767	5401989	320	22	68	100	0.05	4.4	6.9	0.5	2	0.005	0.025	85	0.1	0.25
81	12A/13	460165	5404813	302	18	55	98	0.05	6.2	10	0.5	2.6	0.005	0.025	101	0.1	0.25
82	12A/13	458549	5405725	251	21	2.5	73	0.05	8.5	12.3	0.5	1.6	0.005	0.025	103	0.1	0.25
83	12A/13	457151	5413469	322	12	34	32	0.4	12	18	0.5	2.1	0.005	0.025	105	1.5	0.5
84	12A/13	453561	5410155	561	18	28	51	0.3	7.7	12	0.5	2.8	0.005	0.025	102	0.1	0.25
85	12A/13	456284	5407779	541	12	2.5	45	0.05	9.7	14.3	0.5	1.7	0.005	0.025	77	0.1	0.5
86	12A/13	451277	5408401	460	20	54	58	0.05	12	18.3	0.5	2.2	0.005	0.025	126	0.1	0.25
88	12A/13	453573	5405368	616	16	2.5	62	0.05	5.3	7.5	0.5	1.6	0.005	0.025	90	0.1	0.25
89	12A/13	449386	5406533	457	20	2.5	47	0.2	11	16.4	0.5	2	0.005	0.025	184	0.1	0.25
90	12A/13	451716	5403303	155	23	64	78	0.05	3.1	4	0.5	1.2	0.005	0.025	214	0.1	0.25
91	12A/13	448013	5405737	483	17	54	66	0.3	7.4	10.4	0.5	2.5	0.005	0.025	127	2.1	0.25
92	12A/13	444878	5401735	342	13	2.5	28	0.9	20	27.5	0.5	2	0.005	0.025	210	0.1	0.25
93	12A/13	445077	5399789	760	13	2.5	38	0.7	19	27.7	0.5	2.3	0.005	0.025	205	0.1	0.25
94	12A/13	444648	5397947	747	15	2.5	47	0.9	21	26.4	0.5	2	0.005	0.025	143	0.1	0.25
95	12A/13	443536	5396426	329	18	40	35	0.7	20	28.9	0.5	2.6	0.005	0.025	304	0.1	0.25
96	12A/12	441441	5397834	627	19	40	57	1.3	20	27.9	0.5	2.8	0.005	0.025	129	0.1	0.25
97	12A/12	442053	5395756	435	18	48	49	3.3	16	21.2	0.5	3	0.005	0.025	86	0.1	0.25
98	12A/12	441083	5394350	401	17	33	27	0.05	20	28.9	0.5	2.4	0.005	0.025	165	0.1	0.25
100	12A/12	440470	5393634	385	10	26	26	0.3	33.2	41.1	0.5	2.2	0.005	0.025	173	0.1	0.25
101	12A/12	438240	5392257	685	10	2.5	23	1	28.6	33.4	0.5	3.3	0.005	0.025	106	0.1	0.6
102	12A/12	433877	5390262	355	13	34	48	0.05	19.5	23.9	0.5	3	0.005	0.025	205	0.1	0.25
103	12A/13	446200	5401623	390	18	57	59	0.2	11.1	13.6	0.5	2.8	0.005	0.025	156	0.1	0.25
104	12A/13	447331	5402220	521	18	53	74	0.05	9.1	11.6	0.5	2.7	0.005	0.025	214	1.2	0.25
105	12A/13	447776	5400783	259	15	40	64	0.05	11.7	14.2	0.5	2.7	0.005	0.025	148	0.1	0.25
106	12A/13	449420	5401482	411	18	47	81	0.05	7.2	9.4	0.5	3	0.005	0.025	133	0.1	0.25

Sample	NTS	Easting	Northing	P2	Pb2	Rb1	Rb2	Sb1	Sc1	Sc2	Se1	Sm1	Sn1	Sr1	Sr2	Ta1	Tb1
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
107	12A/13	449080	5400513	512	17	60	82	0.05	9.8	12.9	0.5	3.1	0.005	0.025	156	0.1	0.25
108	12A/13	450232	5402519	488	20	58	69	0.05	7.8	9.3	0.5	2.9	0.005	0.025	143	0.1	0.25
109	12A/13	451632	5402949	439	19	61	81	0.2	6	8.2	0.5	3.1	0.005	0.025	147	0.8	0.25
110	12A/13	453098	5403604	488	17	42	74	0.2	4.4	5.5	0.5	2	0.005	0.025	180	1.6	0.25
111	12A/13	453993	5404645	427	16	62	72	0.3	4.9	6.2	0.5	2.3	0.005	0.025	118	1	0.25
112	12A/13	461079	5415901	775	28	72	88	0.8	12.4	13.4	0.5	4	0.005	0.025	76	1.2	0.25
113	12A/13	461502	5415286	465	19	51	67	0.5	9.1	10.7	0.5	4.5	0.005	0.025	101	1.5	0.25
114	12A/13	460348	5413456	698	29	54	70	0.7	12.4	11.8	0.5	4.5	0.005	0.025	48	1.9	0.25
115	12A/13	458618	5411911	512	19	59	60	0.4	7.2	7.5	0.5	3.1	0.005	0.025	72	0.7	0.25
116	12A/13	456672	5411059	774	21	38	55	0.4	9.8	11.2	0.5	4.8	0.005	0.025	86	0.1	0.25
117	12A/13	457312	5409458	139	14	2.5	24	0.1	14.9	18.1	0.5	2.3	0.005	0.025	411	1.7	0.25
119	12A/13	458729	5410015	356	15	60	63	0.5	7.2	8.3	0.5	3.5	0.005	0.025	94	1.4	0.6
120	12A/13	458143	5408038	411	18	64	83	0.3	8.4	10.8	0.5	4.4	0.005	0.025	73	0.8	0.8
121	12A/13	446334	5402835	517	18	40	48	0.05	16.3	18.8	0.5	3.1	0.005	0.025	197	0.1	0.25
122	12A/13	439423	5394038	937	4	2.5	18	0.05	38.3	43	0.5	5.6	0.005	0.025	197	1.2	0.9
200	12A/13	460623	5406832	558	18	72	69	0.3	10.4	11.6	0.5	4.6	0.005	0.025	160	1.6	0.25
1000	12A/12	457573	5397113	571	16	55	68	0.05	8.6	13.1	0.5	2.8	0.005	0.025	169	0.1	0.6
1001	12A/12	455437	5395311	616	18	2.5	55	0.2	8.2	11.9	0.5	2.3	0.005	0.025	126	0.1	0.6
1002	12A/12	456856	5395196	382	15	33	55	0.05	9.4	13.9	0.5	1.9	0.005	0.025	142	1.3	0.25
1004	12A/12	457318	5391815	854	14	2.5	29	0.05	11	15.7	0.5	4.5	0.005	0.025	96	0.1	0.25
1005	12A/12	454883	5392503	559	11	2.5	37	0.05	17	27	0.5	1.8	0.005	0.025	189	0.1	0.25
1006	12A/12	453439	5391903	382	17	74	73	0.2	9.3	14.6	0.5	2.5	0.005	0.025	156	0.1	0.5
1007	12A/12	454239	5393769	556	16	51	70	0.1	10	15.5	0.5	2.8	0.005	0.025	154	0.1	0.25
1008	12A/12	449647	5393578	626	20	2.5	49	0.05	9.7	12.6	0.5	2.7	0.005	0.025	100	0.1	0.25
1009	12A/12	451080	5391821	405	18	49	72	0.05	7.7	11.4	0.5	2.3	0.005	0.025	160	1.6	0.25
1010	12A/12	451429	5389519	755	14	2.5	40	0.05	8.5	11.8	0.5	2	0.005	0.025	184	0.1	0.25
1011	12A/12	452357	5388114	459	19	46	70	0.05	9.5	12.4	0.5	4.5	0.005	0.025	148	0.1	0.8
1012	12A/12	452352	5385650	421	26	74	82	0.2	7.3	9.6	0.5	5.2	0.005	0.025	136	1.9	0.9
1013	12A/12	450498	5384579	462	26	49	57	0.2	5.7	7.4	0.5	2.6	0.005	0.025	104	1.4	0.25
1014	12A/12	450803	5387305	500	22	41	53	0.05	9.6	12.4	0.5	5.3	0.005	0.025	128	0.1	1
1015	12A/12	447600	5382544	846	42	32	41	0.05	11	13.3	0.5	4.1	0.005	0.025	123	0.1	0.25
1016	12A/12	453528	5383707	433	40	67	87	0.2	6.2	8.9	0.5	6.5	0.005	0.025	107	1.9	1
1017	12A/12	455091	5384209	528	28	57	82	0.2	10	13.3	0.5	6.5	0.005	0.025	180	0.1	1.3
1019	12A/12	454967	5382427	636	29	44	70	0.2	9.2	12.3	0.5	16	0.005	0.025	139	2.3	2.9
1020	12A/12	456709	5383308	495	35	56	65	0.2	10	14.3	0.5	5.5	0.005	0.025	181	1.5	0.9
1021	12A/12	458173	5383897	333	18	2.5	61	0.05	10	14.3	0.5	4.4	0.005	0.025	191	0.1	0.25
1022	12A/12	440309	5382499	818	11	2.5	24	0.7	19	24.1	0.5	3.7	0.005	0.025	166	4.2	0.25
1023	12A/12	437512	5382770	348	17	2.5	50	0.4	14	19.3	0.5	3.2	0.005	0.025	217	0.1	0.25
1024	12A/12	434805	5386454	1001	17	2.5	41	0.05	14	17.3	0.5	3.6	0.005	0.025	159	0.1	0.25
1025	12A/12	433750	5387400	661	15	2.5	41	0.05	16	21.3	0.5	3.2	0.005	0.025	151	0.1	0.25
1026	12A/12	433142	5387032	372	12	2.5	23	0.05	24	30.5	0.5	2.3	0.005	0.025	216	0.1	0.25
1027	12A/12	437258	5386794	783	15	2.5	42	0.05	16	21.9	0.5	3.7	0.005	0.025	169	0.1	0.25
1028	12A/12	438985	5388720	361	16	2.5	57	0.05	11	15.1	0.5	3.1	0.005	0.025	158	0.1	0.25
1029	12A/12	439890	5390325	524	12	2.5	19	0.05	34	45.8	0.5	4	0.005	0.025	187	0.1	0.25
1030	12A/12	443176	5390526	621	13	2.5	44	0.5	13	16.5	0.5	2.8	0.005	0.025	158	0.1	0.25
1031	12A/12	444776	5388712	451	21	66	73	0.4	9.8	13.3	0.5	4.5	0.005	0.025	168	0.1	0.25
1032	12A/12	446881	5389464	988	15	2.5	25	0.05	16	20.6	0.5	4.2	0.005	0.025	116	0.1	0.25
1033	12A/12	448622	5391265	665	21	50	54	0.05	8.8	12.2	0.5	3.6	0.005	0.025	123	0.1	0.25
1034	12A/12	450078	5394710	340	6	2.5	14	0.05	29	40.5	0.5	3.1	0.005	0.025	104	0.1	0.25

Sample	NTS	Easting	Northing	P2	Pb2	Rb1	Rb2	Sb1	Sc1	Sc2	Se1	Sm1	Sn1	Sr1	Sr2	Ta1	Tb1
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
1035	12A/12	450862	5396898	932	15	2.5	51	0.05	11	15.2	0.5	4.8	0.005	0.025	217	0.1	0.25
1037	12A/12	454342	5396735	345	22	64	60	0.3	7.3	10.1	0.5	2.7	0.005	0.025	134	0.1	0.25
1038	12A/12	453653	5398784	317	16	67	75	0.05	7.4	10.7	0.5	2.3	0.005	0.025	129	0.1	0.25
1039	12A/12	455821	5399140	393	19	54	61	0.05	9	12.1	0.5	3.7	0.005	0.025	106	0.1	0.25
1040	12A/12	458821	5398002	567	20	2.5	65	0.05	7.8	10.6	0.5	3.8	0.005	0.025	110	2.1	0.25
1041	12A/12	449209	5389173	568	34	55	47	0.4	13	17.7	0.5	4.4	0.005	0.025	161	1.8	0.25
1043	12A/12	446716	5385830	559	23	46	70	0.05	8.6	12.4	0.5	4.2	0.005	0.025	144	0.1	0.25
1044	12A/12	447868	5384178	876	16	2.5	53	0.4	14	18.8	0.5	4.1	0.005	0.025	211	0.1	0.25
1045	12A/12	442088	5384394	1053	13	2.5	31	0.4	16	20.4	0.5	3.6	0.005	0.025	145	2	0.25
1046	12A/12	442211	5382299	849	17	2.5	46	0.05	13	18.6	0.5	4.7	0.005	0.025	196	0.1	0.25
1047	12A/12	440948	5381492	986	17	2.5	34	0.6	16	22.5	0.5	3.5	0.005	0.025	174	0.1	0.25
1049	12A/12	444544	5380455	382	18	45	50	0.2	15	19.9	0.5	3.7	0.005	0.025	249	0.1	0.25
1050	12A/12	445369	5382002	458	19	54	54	0.2	13	16.5	0.5	3.8	0.005	0.025	191	0.4	0.25
1051	12A/12	448277	5379418	609	30	97	70	0.05	11	13.8	0.5	3.5	0.005	0.025	526	0.1	0.25
1052	12A/12	450321	5381263	722	15	2.5	35	0.05	21	27.3	0.5	4.4	0.005	0.025	195	0.1	1.2
1053	12A/12	458241	5382789	384	17	53	56	0.3	11	15.3	0.5	3.3	0.005	0.025	185	0.1	0.25
1054	12A/12	455067	5391296	1170	18	2.5	23	0.3	16	20.3	0.5	6.4	0.005	0.025	110	0.1	0.25
1055	12A/12	454110	5400733	567	21	2.5	49	0.05	14	17.8	0.5	4.4	0.005	0.025	186	0.1	1
1056	12A/13	456100	5403031	397	17	55	91	0.05	9.1	12.9	0.5	4.4	0.005	0.025	113	4.3	0.25
1058	12A/13	458350	5401457	490	15	73	81	0.1	10	13.8	0.5	4	0.005	0.025	125	0.1	0.25
1059	12A/13	459387	5403364	231	20	82	93	0.05	6	7.7	0.5	3.3	0.005	0.025	77	0.1	0.25
1060	12A/13	456553	5401780	909	15	64	50	0.05	11	13.9	0.5	3.4	0.005	0.025	103	0.1	0.25
1061	12A/13	462035	5404267	184	19	89	100	0.05	5.1	6.8	0.5	2.8	0.005	0.025	81	0.1	0.25
1062	12A/13	461358	5402650	240	16	88	98	0.05	5.2	6.9	0.5	2.5	0.005	0.025	77	1.5	0.25
1063	12A/13	460055	5401100	500	19	2.5	47	0.4	18	25.7	0.5	4.4	0.005	0.025	151	0.1	0.25
1064	12A/13	459033	5414410	386	27	110	100	0.9	9.4	12.2	0.5	3.3	0.005	0.025	31	0.1	0.25
1066	12A/13	455042	5411391	439	19	2.5	60	0.5	7.5	9.6	0.5	4	0.005	0.025	83	2.3	0.25
1067	12A/13	455240	5409099	1457	16	2.5	35	0.4	17	22.8	0.5	11	0.005	0.025	234	0.1	0.7
1068	12A/13	453689	5408142	184	35	66	71	0.05	11	14.5	0.5	1.4	0.005	0.025	130	1.9	0.25
1069	12A/13	454877	5406674	499	19	81	70	0.05	7	8.9	0.5	3.1	0.005	0.025	81	0.1	0.25
1071	12A/13	452023	5406658	125	23	78	76	0.05	4.9	5.1	0.5	1.4	0.005	0.025	325	0.1	0.25
1072	12A/13	450754	5405174	249	19	33	57	0.3	5.5	6.2	0.5	1.8	0.005	0.025	201	1.3	0.25
1073	12A/13	449137	5403953	783	18	2.5	52	0.3	5.8	6.9	0.5	3.4	0.005	0.025	280	1.2	0.25
1074	12A/13	446897	5404400	336	15	34	43	0.4	11.7	14.8	0.5	2.5	0.005	0.025	257	0.1	0.25
1075	12A/13	446798	5399649	489	17	54	52	0.3	15.6	17.7	0.5	3.5	0.005	0.025	256	0.1	0.25
1077	12A/12	447349	5397562	866	12	29	35	0.4	19.5	21	0.5	4	0.005	0.06	177	0.1	0.25
1078	12A/12	446021	5396288	912	11	2.5	26	0.05	20.8	22.1	0.5	3.8	0.005	0.025	184	0.1	0.8
1079	12A/12	442438	5398964	665	26	57	70	0.8	20.8	23.6	0.5	4.4	0.005	0.025	78	1.3	0.8
1080	12A/12	440075	5395572	651	15	41	45	1.1	24	28.2	0.5	3.8	0.005	0.025	197	0.1	0.25
1081	12A/12	444599	5395153	476	12	2.5	32	1	28	33.4	0.5	2.8	0.005	0.025	235	0.1	0.25
1082	12A/12	442639	5393704	356	8	2.5	16	0.8	35.8	44.5	0.5	2.3	0.005	0.025	325	0.1	0.25
1083	12A/12	437886	5393773	794	10	2.5	31	0.4	21.5	28	0.5	3	0.005	0.025	199	0.1	0.6
1084	12A/12	436318	5392279	567	7	2.5	14	0.5	24	30.9	0.5	2.4	0.005	0.025	161	0.1	0.25

Sample	NTS	Easting	Northing	Th1	Ti2	U1	V2	W1	Y2	Yb1	Zn1	Zn2	Zr1	Zr2
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
1	12A/12	442231	5389182	3.6	11155	0.25	283	0.5	42	4.6	6	114	0.005	83
2	12A/12	442790	5388436	5.7	6261	1.6	117	0.5	29	3.7	6	67	0.04	124
3	12A/12	443109	5387141	4.6	5838	1.4	131	0.5	28	3.1	6	52	0.005	124
4	12A/12	443407	5386161	3.1	6885	1.1	145	0.5	27	3.2	120	60	0.03	107
5	12A/12	442382	5386569	5.3	5737	1.9	119	0.5	26	3.3	70	65	0.03	122
6	12A/12	441440	5385679	3.3	7537	0.25	191	0.5	30	3.3	6	82	0.005	87
7	12A/12	440793	5386411	3	8895	0.25	214	2	27	2.9	6	83	0.005	62
8	12A/12	441814	5387241	5.5	5398	1.7	108	0.5	22	3.1	70	64	0.03	116
9	12A/12	439383	5386741	3.8	6590	1.7	229	0.5	28	3.9	6	67	0.005	97
10	12A/12	438533	5386983	4.9	5190	1.2	99	0.5	25	3.1	6	43	0.03	137
11	12A/12	439864	5386063	4.8	6117	1.8	140	0.5	28	3.4	6	61	0.005	114
12	12A/12	439126	5385657	3.2	6996	0.8	155	0.5	23	2.7	90	69	0.005	93
13	12A/12	438613	5385453	3.3	8750	0.25	163	9	23	2.5	70	61	0.005	97
14	12A/12	437805	5385130	1.1	5276	0.25	243	0.5	10	1.2	6	49	0.005	38
15	12A/12	437955	5384707	3.1	8365	0.8	188	0.5	27	2.9	6	61	0.005	106
16	12A/12	436850	5384000	6.5	6460	2.3	106	0.5	17	1.3	6	64	0.005	69
17	12A/12	436217	5383780	5.2	7585	0.25	177	0.5	27	2.7	110	71	0.005	94
18	12A/12	435427	5383832	3.3	6140	1.5	137	0.5	27	2.9	6	52	0.005	84
20	12A/12	434626	5384153	1.8	4489	0.25	187	0.5	16	1.8	6	57	0.005	58
21	12A/12	433424	5385118	1.8	6065	0.25	186	0.5	24	2.6	6	55	0.03	56
22	12A/12	432153	5385839	2.1	6443	0.25	186	0.5	24	2.5	6	58	0.005	68
23	12H/04	459399	5396614	7.2	4045	2	83	0.5	25	3.7	6	32	0.005	115
24	12A/12	458647	5394565	10.4	3859	2	67	0.5	34	4.5	6	48	0.005	175
25	12A/12	458581	5392908	7.8	4038	2.7	73	0.5	33	5.1	6	38	0.005	220
26	12A/12	457733	5390530	7.2	4674	2	89	0.5	24	3.4	6	31	0.005	147
27	12A/12	456232	5390810	7.2	3650	2.4	76	0.5	27	3.6	6	35	0.03	158
28	12A/12	455115	5389673	8.4	3893	1.9	83	0.5	26	4.3	6	43	0.02	154
29	12A/12	452965	5393242	6.5	3534	2	79	0.5	26	3.5	6	39	0.005	143
30	12A/12	450705	5393078	7.2	3613	1.3	70	0.5	28	3.8	6	38	0.03	165
31	12A/12	452980	5390020	4	5944	0.25	134	0.5	23	2.5	110	75	0.005	83
33	12A/12	453996	5388254	4.9	3857	1.7	93	0.5	25	2.9	6	39	0.02	139
34	12A/12	455944	5389574	7.8	4074	2.4	84	0.5	29	4.1	6	41	0.005	175
35	12A/12	454877	5386367	7.8	3570	1.8	83	0.5	33	4.2	6	51	0.03	165
36	12A/12	449770	5386733	5.1	3505	1.6	78	0.5	25	3	6	39	0.005	141
37	12A/12	448016	5385436	9.1	3368	1.6	72	0.5	28	3.8	70	47	0.02	138
38	12A/12	449494	5382380	5.1	4241	0.6	108	0.5	21	2.5	6	42	0.03	108
40	12A/12	451463	5383860	9.8	4305	2.3	97	0.5	30	5	6	49	0.04	197
41	12A/12	452995	5382143	6.5	3948	1.9	97	3	21	2.9	6	42	0.005	114
42	12A/12	454601	5381553	4.9	4128	1.6	109	0.5	21	2.5	6	38	0.005	95
43	12A/12	457152	5381147	3.6	6880	1.6	183	0.5	19	2.5	12.5	38	0.04	108
44	12A/12	459270	5382818	5.3	4116	1.4	106	0.5	22	3	6	38	0.03	116
46	12A/12	438067	5382472	5.1	7639	2	151	0.5	28	3.6	6	61	0.005	112
47	12A/12	438578	5383676	3.4	19845	0.25	378	0.5	12	2.7	6	32	0.005	113
48	12A/12	434920	5385541	2.9	6281	1.1	158	0.5	24	2.9	6	56	0.03	97
49	12A/12	435711	5386959	4.9	4536	1.2	97	0.5	19	2.3	6	36	0.005	82
50	12A/12	431691	5386596	1	11055	0.25	230	0.5	25	2.6	6	55	0.005	40
51	12A/12	436978	5385281	3.1	7815	1	188	0.5	22	2.7	6	98	0.005	90
52	12A/12	437152	5388997	2.3	5000	0.25	172	0.5	19	2.4	6	59	0.005	68
53	12A/12	440136	5387993	5	5616	2.3	110	0.5	23	3	70	58	0.02	117

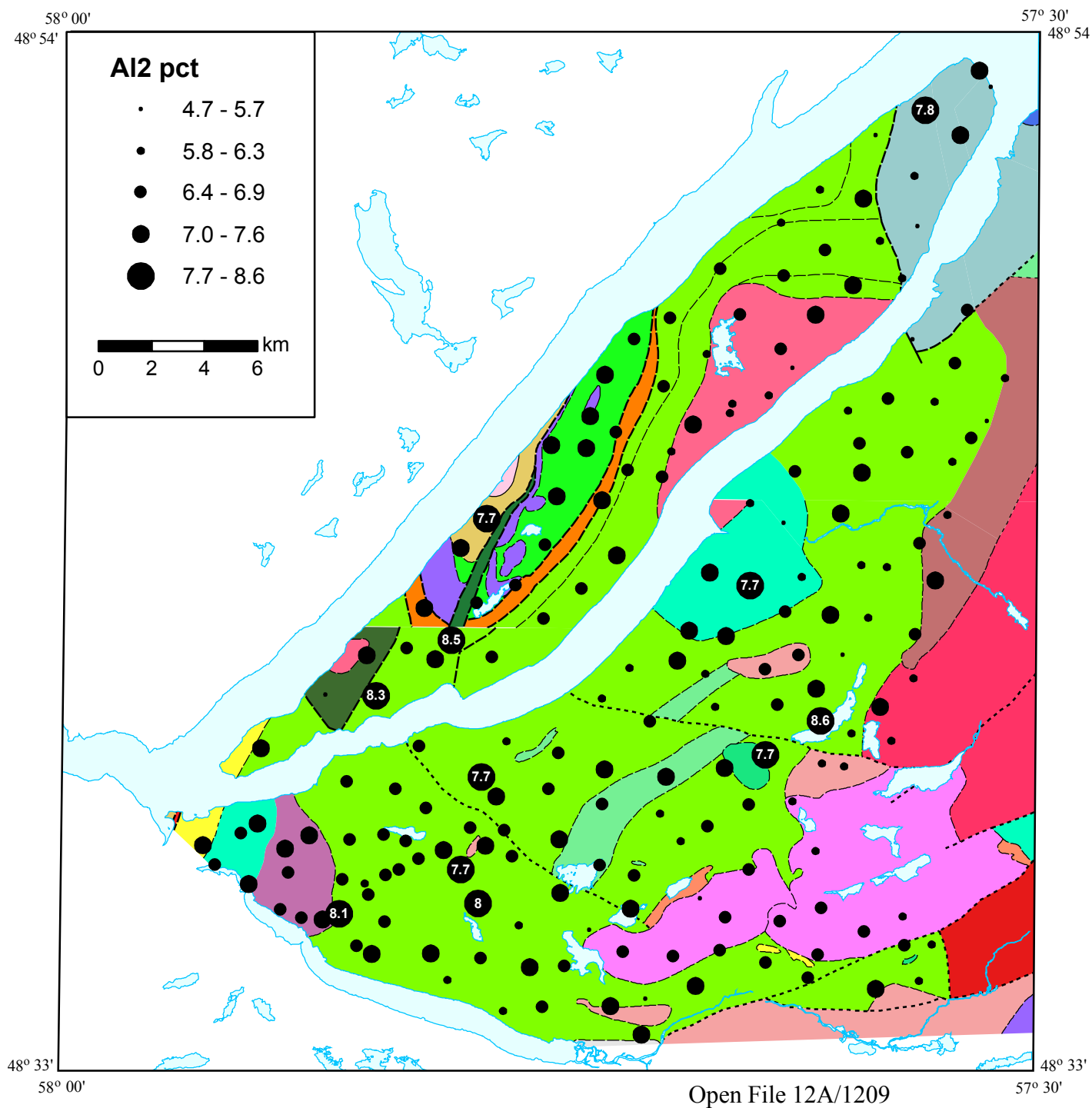
Sample	NTS	Easting	Northing	Th1	Ti2	U1	V2	W1	Y2	Yb1	Zn1	Zn2	Zr1	Zr2
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
54	12A/12	445149	5390070	5.5	5169	1.8	97	0.5	25	3.3	60	59	0.03	132
55	12A/12	446801	5388139	7.2	3922	1.3	61	0.5	21	2.9	6	52	0.005	118
56	12A/12	446788	5392139	4.7	5116	0.25	80	0.5	13	1.6	6	31	0.005	89
57	12A/12	447840	5393289	2.9	5884	0.8	92	0.5	17	2.1	6	38	0.005	79
58	12A/12	451479	5394513	4.2	5351	0.25	94	0.5	22	2.7	6	58	0.005	92
59	12A/12	452396	5396431	7.2	5301	2.1	103	0.5	23	3.3	6	38	0.04	136
60	12A/12	453743	5395418	5.1	5605	0.25	103	0.5	31	2.8	6	47	0.005	186
61	12A/12	452393	5399524	5	5739	2.3	107	2	28	2.6	6	42	0.005	181
62	12A/12	456604	5397182	4.2	3985	1.1	59	0.5	25	2.2	6	32	0.005	159
63	12A/12	459861	5399087	3.7	14235	0.25	326	0.5	24	1.9	6	55	0.005	133
64	12A/12	448993	5387778	3.5	4173	1.5	97	0.5	25	2.2	60	46	0.005	128
66	12A/12	445169	5386817	5.6	4721	1.3	83	0.5	22	1.8	80	53	0.005	123
67	12A/12	445203	5384781	5.6	4644	0.25	102	0.5	23	2.3	6	48	0.005	125
68	12A/12	443638	5383562	5.7	11039	0.25	237	0.5	52	3.8	6	68	0.005	81
69	12A/12	443052	5380306	2	11772	0.25	328	0.5	24	2.1	6	72	0.005	71
70	12A/12	444050	5381961	1.2	10735	0.25	281	0.5	18	1.6	6	49	0.005	122
71	12A/12	447103	5380495	4.3	4714	1.3	117	0.5	16	1.4	6	35	0.005	86
72	12A/12	446300	5383384	5.2	7486	1.9	113	0.5	18	1.8	70	49	0.005	151
73	12A/12	448424	5380770	2.3	8429	1.1	260	0.5	13	1.3	6	31	0.005	90
74	12A/12	451256	5382599	4.6	5311	1.6	130	0.5	25	1.8	6	57	0.005	127
76	12A/12	458783	5381442	3.7	5062	0.25	120	0.5	20	1.9	70	45	0.005	107
77	12A/12	455894	5393788	2.8	12450	2	240	0.5	17	1.7	6	28	0.005	126
78	12A/13	456631	5400690	3.6	10588	0.25	213	0.5	29	2.3	6	59	0.005	72
79	12A/13	457621	5403487	6.3	3862	1.5	60	0.5	27	2	6	38	0.005	129
80	12A/13	460767	5401989	7.2	4008	0.25	54	0.5	25	2.3	6	34	0.005	180
81	12A/13	460165	5404813	7.3	5074	1.5	70	0.5	38	3.3	6	42	0.005	262
82	12A/13	458549	5405725	3.5	9330	1.5	168	0.5	20	2.5	6	44	0.02	191
83	12A/13	457151	5413469	3.9	9927	1.4	186	0.5	21	2.5	6	32	0.005	192
84	12A/13	453561	5410155	5.1	4864	1.6	81	0.5	26	2.1	6	42	0.005	162
85	12A/13	456284	5407779	2.7	4802	0.25	78	0.5	17	1.5	6	25	0.005	81
86	12A/13	451277	5408401	3	5673	1.2	130	0.5	26	2	6	78	0.005	111
88	12A/13	453573	5405368	4.6	4321	1.6	67	0.5	15	1.7	6	34	0.005	117
89	12A/13	449386	5406533	3.3	4801	1.3	97	0.5	22	1.6	6	56	0.005	83
90	12A/13	451716	5403303	3.5	6564	1.5	36	0.5	13	2.2	6	14	0.03	215
91	12A/13	448013	5405737	6.1	4487	1	71	1	22	1.9	6	42	0.005	139
92	12A/13	444878	5401735	1.7	10132	0.25	239	0.5	17	1.6	6	44	0.005	61
93	12A/13	445077	5399789	1.5	8015	0.25	171	0.5	24	1.7	6	78	0.005	77
94	12A/13	444648	5397947	2.2	8520	1.3	278	0.5	14	1.9	6	66	0.005	68
95	12A/13	443536	5396426	3	7244	0.25	159	0.5	18	1.4	6	46	0.005	95
96	12A/12	441441	5397834	4.1	8260	1.1	205	0.5	19	1.5	6	101	0.005	58
97	12A/12	442053	5395756	4.6	2941	0.25	143	0.5	10	1.6	6	67	0.005	107
98	12A/12	441083	5394350	1.1	6789	0.25	210	0.5	18	2.5	6	129	0.005	53
100	12A/12	440470	5393634	0.9	8650	0.25	248	0.5	21	2.1	6	78	0.02	59
101	12A/12	438240	5392257	0.8	8619	0.25	227	0.5	20	2.4	6	65	0.005	31
102	12A/12	433877	5390262	2.5	7878	0.9	167	0.5	25	2.5	6	53	0.005	88
103	12A/13	446200	5401623	5.8	4502	1.2	95	0.5	22	4	6	40	0.005	122
104	12A/13	447331	5402220	4.8	4140	1	78	0.5	23	2.4	6	45	0.005	128
105	12A/13	447776	5400783	3.6	4998	0.25	85	0.5	22	2.9	6	37	0.03	137
106	12A/13	449420	5401482	5.8	4202	1.5	72	0.5	27	2.9	6	43	0.005	154

Sample	NTS	Easting	Northing	Th1	Ti2	U1	V2	W1	Y2	Yb1	Zn1	Zn2	Zr1	Zr2
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
107	12A/13	449080	5400513	5.8	5059	1.3	93	0.5	30	3.1	6	47	0.005	152
108	12A/13	450232	5402519	6	4420	1.5	72	0.5	23	2.9	6	46	0.005	134
109	12A/13	451632	5402949	5.6	4167	1.7	62	0.5	26	2.8	6	41	0.005	141
110	12A/13	453098	5403604	4.4	3167	1.3	44	0.5	15	1.6	6	28	0.02	94
111	12A/13	453993	5404645	5.8	3548	1.6	50	0.5	19	2.2	6	30	0.02	130
112	12A/13	461079	5415901	7.2	4945	2.3	118	0.5	21	3.2	80	103	0.03	152
113	12A/13	461502	5415286	6.5	4101	1.4	71	0.5	26	3.4	6	48	0.03	170
114	12A/13	460348	5413456	10.4	4497	2.6	104	0.5	22	3.6	6	95	0.005	148
115	12A/13	458618	5411911	7.2	5223	1.6	72	0.5	19	4	6	60	0.03	202
116	12A/13	456672	5411059	8.4	5902	2.5	85	0.5	24	3.4	70	81	0.005	154
117	12A/13	457312	5409458	4	6364	2	144	0.5	15	1.8	6	46	0.04	276
119	12A/13	458729	5410015	6.5	3764	1.3	57	0.5	22	3.1	6	37	0.005	162
120	12A/13	458143	5408038	7.8	4892	1.9	78	0.5	28	3.8	6	46	0.005	159
121	12A/13	446334	5402835	5.1	5447	0.25	122	0.5	21	2.3	6	41	0.005	84
122	12A/13	439423	5394038	1.2	20038	0.25	377	0.5	34	3.5	6	73	0.005	41
200	12A/13	460623	5406832	4.6	7737	3.8	119	0.5	28	3.1	6	68	0.005	132
1000	12A/12	457573	5397113	5.6	5309	1.2	95	0.5	35	3.1	6	38	0.03	247
1001	12A/12	455437	5395311	5.2	3766	1.7	82	0.5	24	1.9	6	35	0.005	125
1002	12A/12	456856	5395196	3.8	3901	1.2	104	0.5	23	1.5	6	41	0.005	89
1004	12A/12	457318	5391815	5.3	7064	1.5	120	0.5	23	1.8	6	49	0.005	124
1005	12A/12	454883	5392503	1.5	7932	0.25	214	0.5	26	1.6	6	67	0.005	87
1006	12A/12	453439	5391903	4.6	4626	0.25	102	0.5	29	2.2	6	56	0.02	142
1007	12A/12	454239	5393769	5.1	5672	1.9	120	0.5	28	2.2	6	51	0.005	147
1008	12A/12	449647	5393578	6.6	5123	0.25	105	0.5	22	2.3	6	33	0.005	131
1009	12A/12	451080	5391821	5.1	3969	1.3	81	0.5	27	2.3	6	40	0.005	151
1010	12A/12	451429	5389519	3	4688	0.25	103	0.5	18	1.4	6	53	0.01	90
1011	12A/12	452357	5388114	7.7	4401	1.4	93	0.5	30	4	6	51	0.04	157
1012	12A/12	452352	5385650	13	3919	3	64	0.5	38	5.8	6	63	0.04	204
1013	12A/12	450498	5384579	10	3555	2.1	60	0.5	18	2.6	6	31	0.005	137
1014	12A/12	450803	5387305	10	3715	2.2	83	1	30	3.5	6	38	0.03	125
1015	12A/12	447600	5382544	7.2	5479	1.8	98	0.5	23	2.5	6	48	0.03	113
1016	12A/12	453528	5383707	14	3925	3.3	55	0.5	48	6.4	90	94	0.06	284
1017	12A/12	455091	5384209	13	4177	3.5	87	0.5	45	5.9	60	72	0.04	238
1019	12A/12	454967	5382427	15	4656	4.3	94	0.5	94	8.1	6	54	0.03	262
1020	12A/12	456709	5383308	10	4238	2.3	101	0.5	41	5.3	70	59	0.005	223
1021	12A/12	458173	5383897	8.7	4004	3	103	0.5	27	4.2	90	38	0.005	139
1022	12A/12	440309	5382499	3.6	11391	0.25	237	0.5	19	3.1	6	45	0.005	107
1023	12A/12	437512	5382770	6	8550	2.8	133	0.5	19	2.7	6	36	0.005	136
1024	12A/12	434805	5386454	7.1	5670	1.5	120	0.5	18	2.8	6	37	0.005	84
1025	12A/12	433750	5387400	4.6	7073	2.2	155	0.5	22	3.4	6	48	0.005	95
1026	12A/12	433142	5387032	2.7	5710	0.25	189	0.5	15	2.5	6	26	0.005	61
1027	12A/12	437258	5386794	4	8518	0.25	164	0.5	22	2.8	6	52	0.005	90
1028	12A/12	438985	5388720	4.7	7019	2.3	125	0.5	20	3.5	6	39	0.005	141
1029	12A/12	439890	5390325	2.2	10729	0.25	275	0.5	33	3.9	6	88	0.005	54
1030	12A/12	443176	5390526	3.5	9865	0.25	220	0.5	18	3.2	6	43	0.005	92
1031	12A/12	444776	5388712	7.9	4774	3.6	70	0.5	28	4.6	6	51	0.005	144
1032	12A/12	446881	5389464	4.6	10569	0.25	214	0.5	22	3.1	6	49	0.07	124
1033	12A/12	448622	5391265	6.6	4784	1.9	90	0.5	21	3.1	6	43	0.07	115
1034	12A/12	450078	5394710	0.1	15954	0.25	357	0.5	27	3.3	6	86	0.005	39

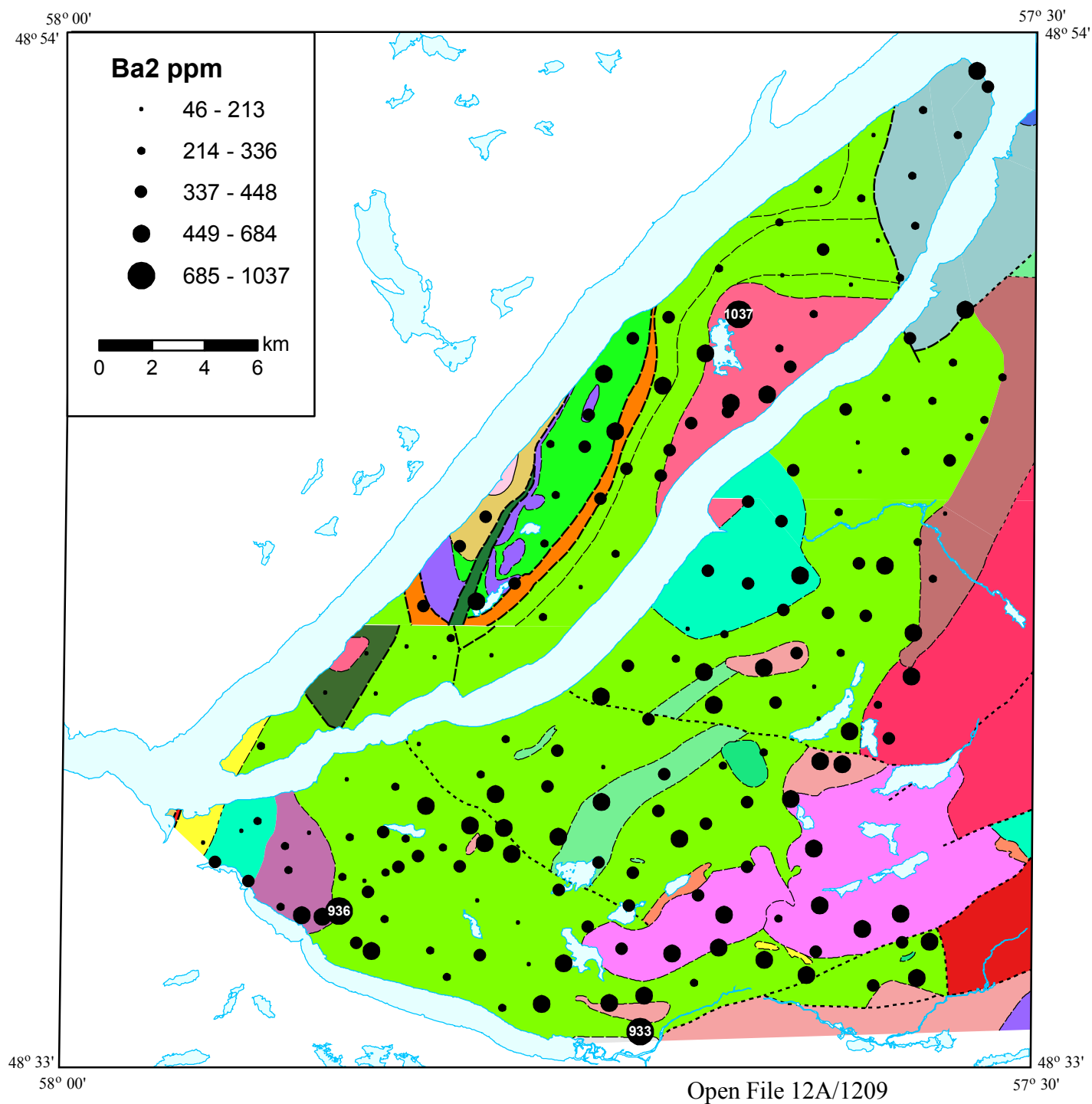
Sample	NTS	Easting	Northing	Th1	Ti2	U1	V2	W1	Y2	Yb1	Zn1	Zn2	Zr1	Zr2
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
1035	12A/12	450862	5396898	6.3	7780	2.2	134	0.5	29	3.6	6	50	0.005	103
1037	12A/12	454342	5396735	7.4	7783	2.3	120	0.5	19	3.2	6	35	0.06	167
1038	12A/12	453653	5398784	4.2	6361	2.4	86	0.5	20	3.5	6	37	0.05	160
1039	12A/12	455821	5399140	10	5667	3	100	0.5	27	4.1	6	35	0.005	124
1040	12A/12	458821	5398002	11	4850	2.3	89	0.5	24	3.5	6	36	0.03	117
1041	12A/12	449209	5389173	8.6	5797	2.4	108	0.5	24	3.5	160	71	0.005	127
1043	12A/12	446716	5385830	10	4238	2.3	84	0.5	27	4.2	6	56	0.005	135
1044	12A/12	447868	5384178	6.1	6756	1.8	155	0.5	26	3.9	90	56	0.05	112
1045	12A/12	442088	5384394	4.1	9407	0.25	199	0.5	20	3.1	200	72	0.005	115
1046	12A/12	442211	5382299	4.8	7198	1.8	138	0.5	31	3.8	6	65	0.005	112
1047	12A/12	440948	5381492	3.9	9820	0.25	269	0.5	21	3.1	6	73	0.005	94
1049	12A/12	444544	5380455	6.5	5115	0.25	125	0.5	20	3.1	90	41	0.005	99
1050	12A/12	445369	5382002	6.5	4420	0.25	109	0.5	22	3.4	6	44	0.005	106
1051	12A/12	448277	5379418	4.5	6358	1.7	134	0.5	12	1.6	6	38	0.06	58
1052	12A/12	450321	5381263	4.1	8109	0.25	175	0.5	24	3.2	140	72	0.005	116
1053	12A/12	458241	5382789	7.6	4530	3	98	0.5	23	4	60	36	0.005	147
1054	12A/12	455067	5391296	9.9	7970	3.1	180	0.5	30	3.7	6	48	0.005	74
1055	12A/12	454110	5400733	7.8	11545	3.2	150	0.5	28	4.2	100	50	0.05	196
1056	12A/13	456100	5403031	13	6213	4	83	0.5	38	7.1	6	42	0.04	288
1058	12A/13	458350	5401457	6.8	5949	3.2	92	0.5	29	4.8	90	41	0.005	151
1059	12A/13	459387	5403364	12	4518	3.6	53	0.5	25	5.3	12.5	29	0.005	194
1060	12A/13	456553	5401780	7.1	5845	2.1	109	0.5	21	3.2	6	42	0.06	105
1061	12A/13	462035	5404267	8.3	4877	2.8	47	0.5	25	5.4	6	26	0.005	227
1062	12A/13	461358	5402650	7.1	4875	3.4	50	0.5	21	4.4	6	30	0.005	195
1063	12A/13	460055	5401100	5.6	13753	2.9	201	0.5	30	4.1	6	58	0.04	145
1064	12A/13	459033	5414410	9.3	4448	2.8	108	0.5	15	3.6	110	91	0.05	128
1066	12A/13	455042	5411391	9	5166	2.9	84	0.5	23	4.3	60	49	0.03	172
1067	12A/13	455240	5409099	8.8	6160	2.1	149	0.5	42	4.8	160	122	0.005	124
1068	12A/13	453689	5408142	3.8	5011	2.5	91	0.5	12	1.8	6	37	0.005	85
1069	12A/13	454877	5406674	11	5424	1.8	76	0.5	17	3.7	6	39	0.06	132
1071	12A/13	452023	5406658	3.6	5703	2.1	44	0.5	10	2.3	80	17	0.005	182
1072	12A/13	450754	5405174	3.8	5343	1.5	71	0.5	12	2.1	6	24	0.02	120
1073	12A/13	449137	5403953	4.8	3498	1.5	36	0.5	16	1.6	6	29	0.005	70
1074	12A/13	446897	5404400	3.4	3830	1.4	97	0.5	15	1.8	6	43	0.005	69
1075	12A/13	446798	5399649	4.7	5638	1.4	100	0.5	21	2.5	6	39	0.005	81
1077	12A/12	447349	5397562	2.9	6817	2.3	134	0.5	24	2.8	6	51	0.05	91
1078	12A/12	446021	5396288	2.1	8298	1.4	157	0.5	23	2.5	6	74	0.005	48
1079	12A/12	442438	5398964	7.8	4266	1.4	165	0.5	16	2	120	102	0.005	80
1080	12A/12	440075	5395572	2.9	6556	1.6	184	0.5	20	2.9	100	71	0.03	78
1081	12A/12	444599	5395153	1.8	14298	0.25	274	0.5	20	2.7	6	37	0.005	62
1082	12A/12	442639	5393704	0.9	13716	1	405	0.5	21	2	6	44	0.005	39
1083	12A/12	437886	5393773	2	9822	0.7	205	0.5	26	2.7	6	51	0.005	77
1084	12A/12	436318	5392279	1.1	19561	0.25	454	0.5	24	2.5	6	44	0.03	50

Appendix 2: Geochemical Maps

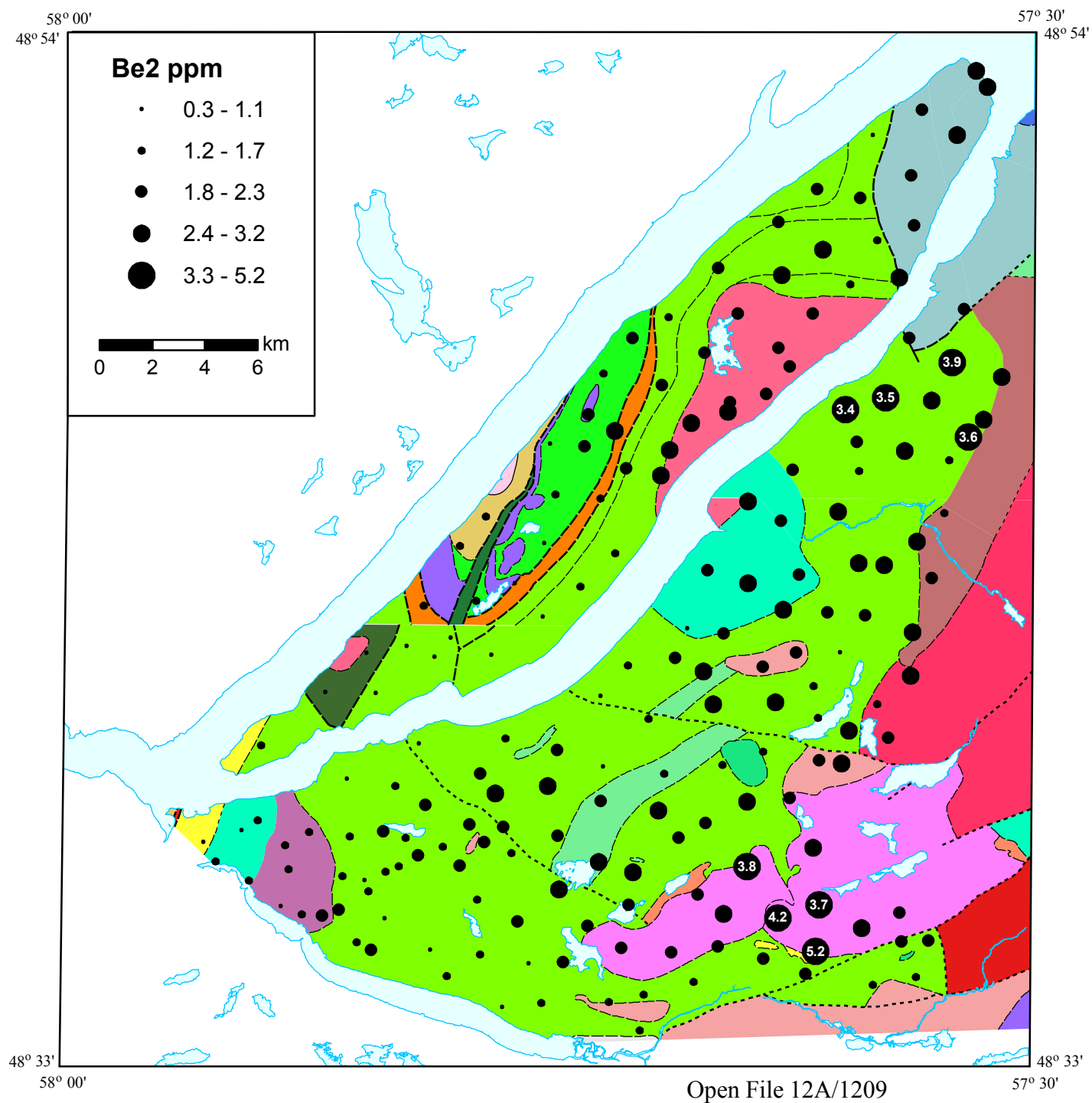
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Distribution of cadmium in till	49
Distribution of calcium in till	50
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Distribution of yttrium in till	82
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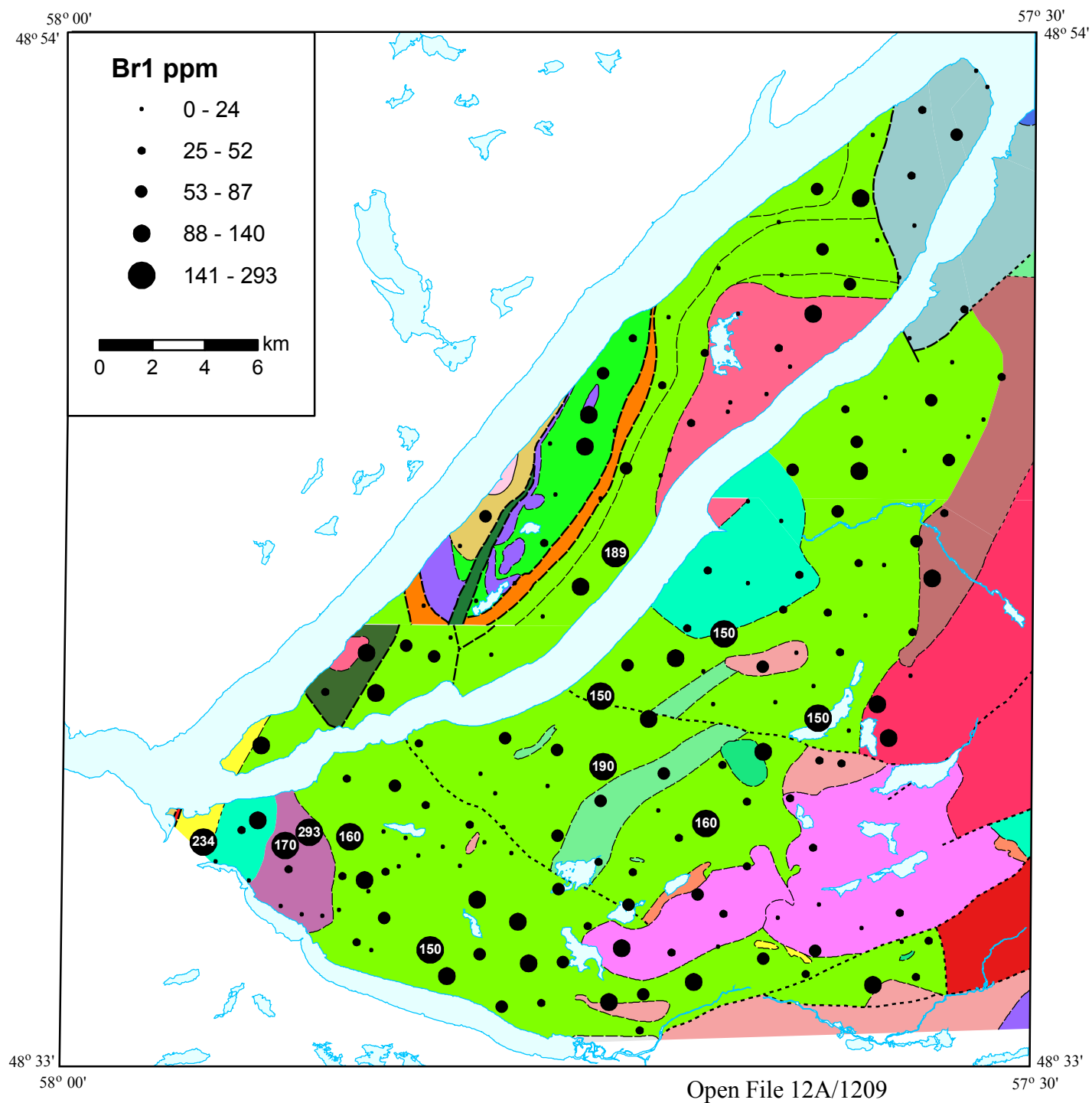
Distribution of aluminum in till.



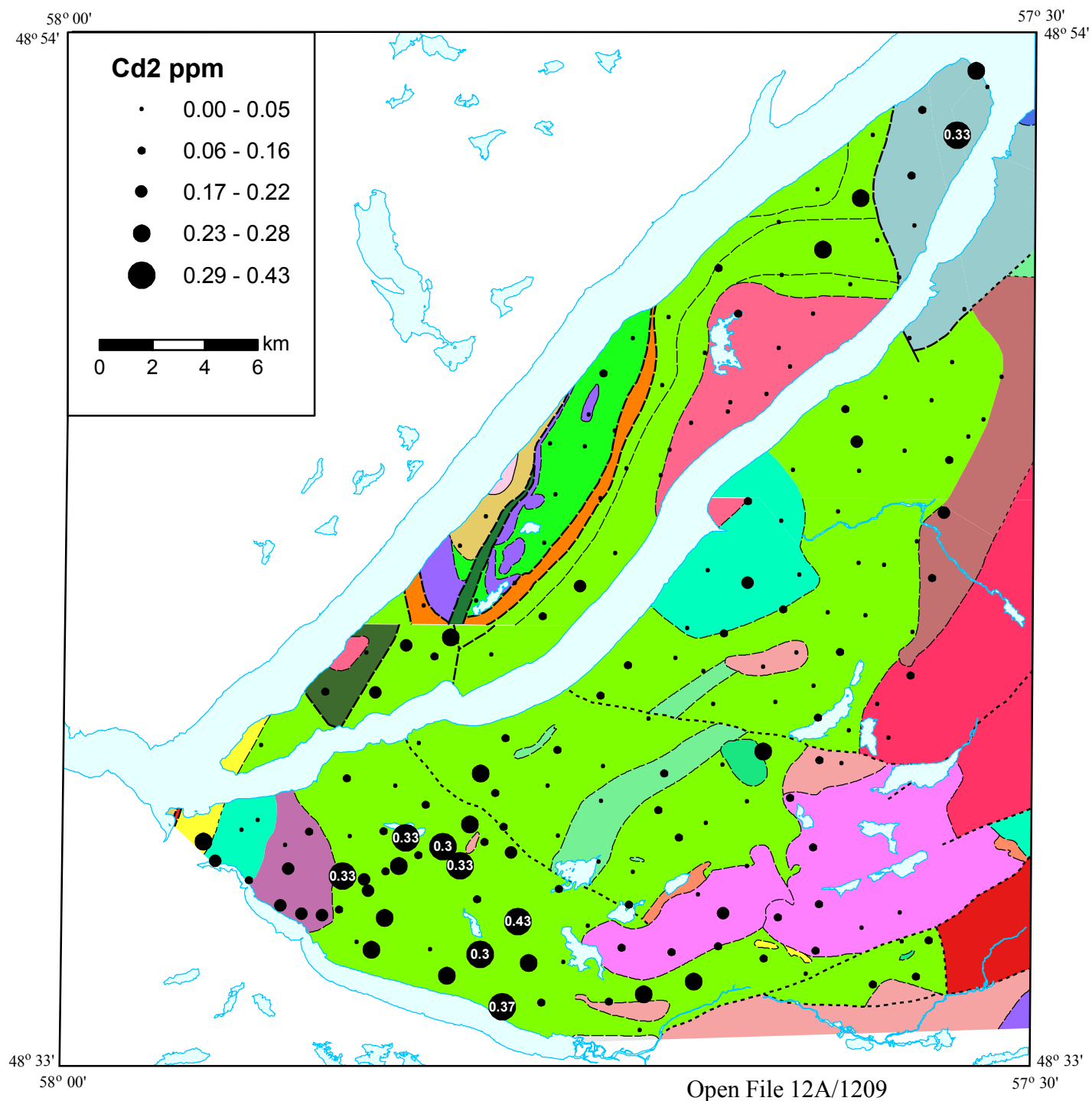
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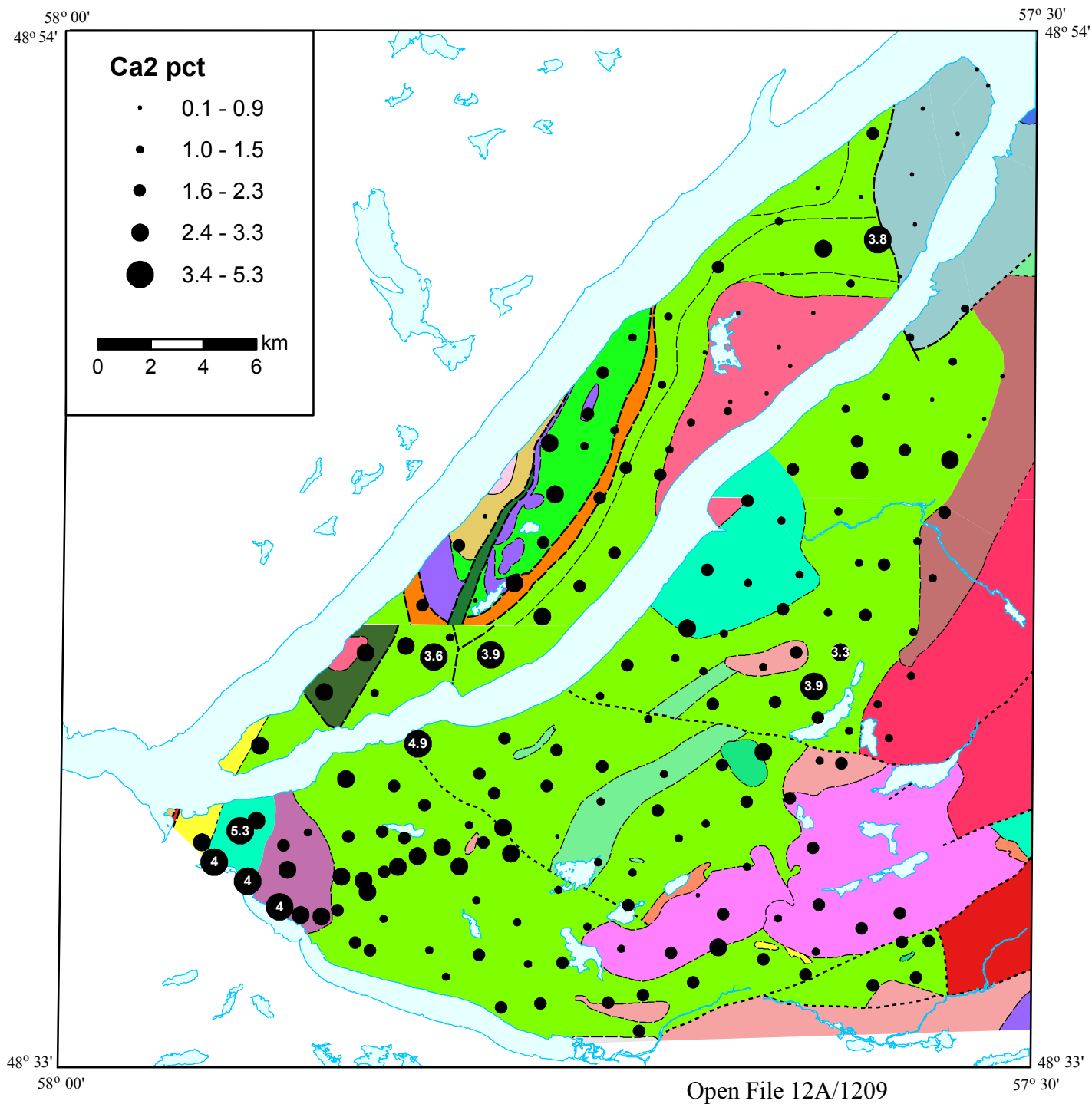
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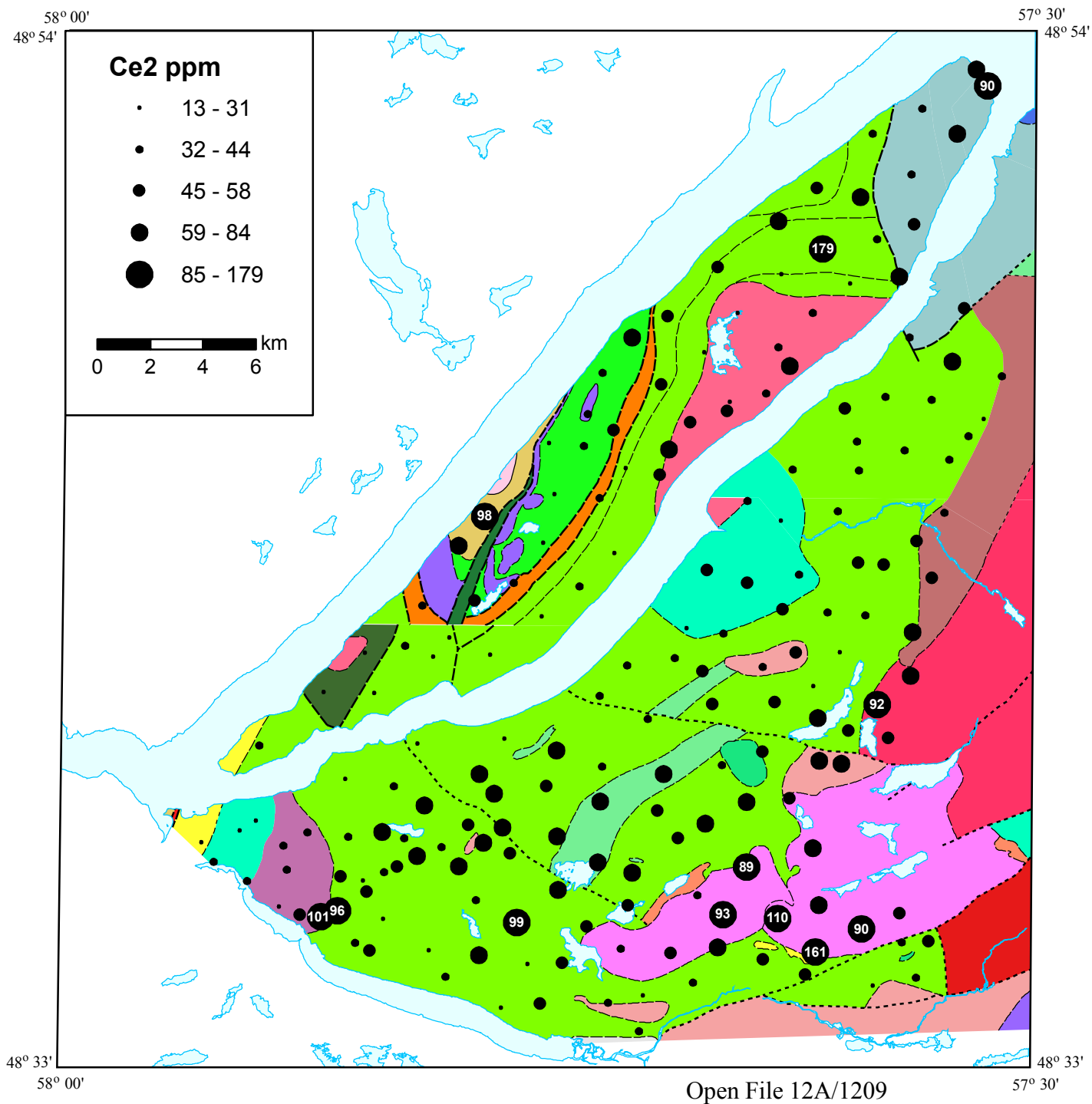
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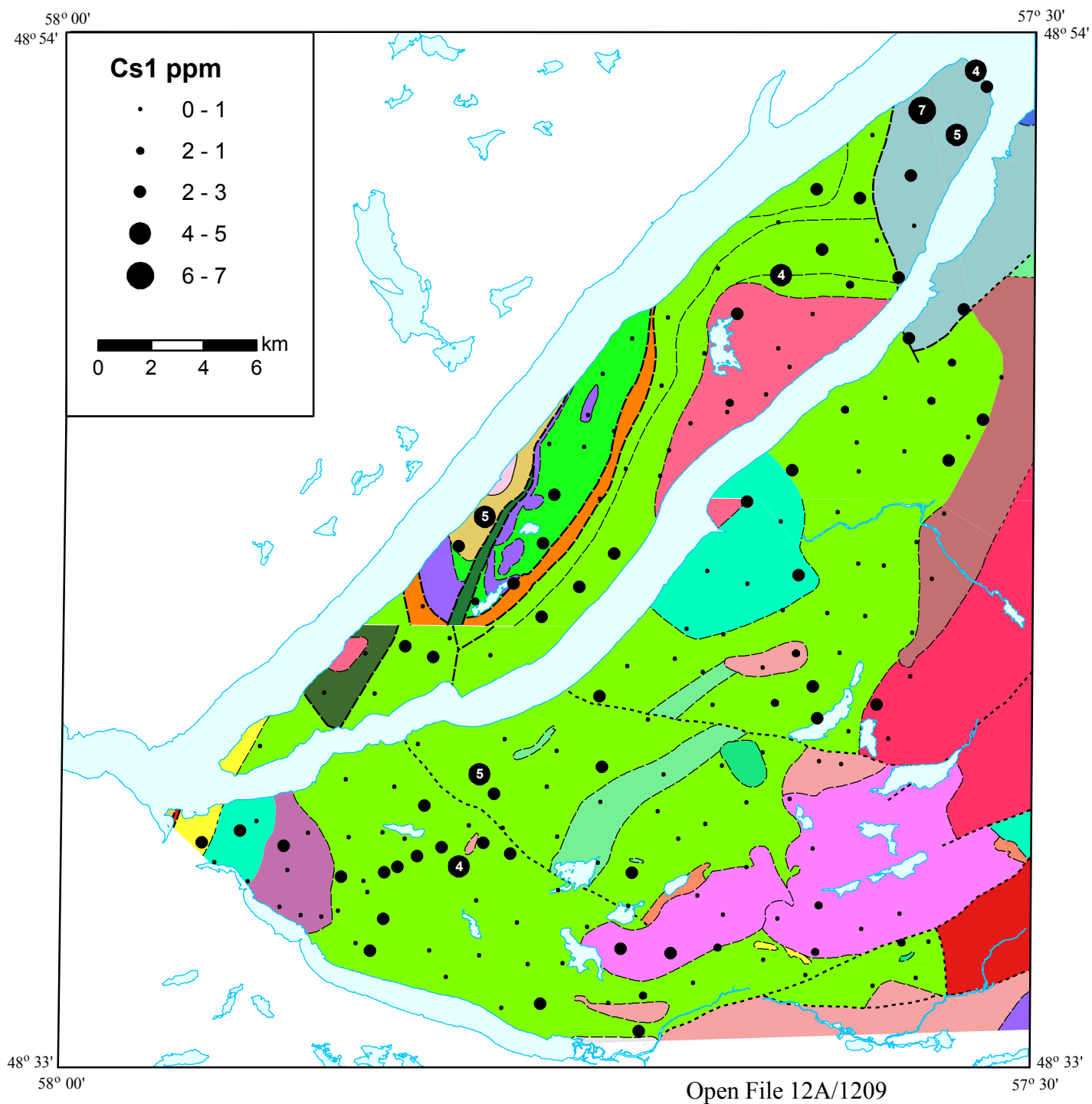
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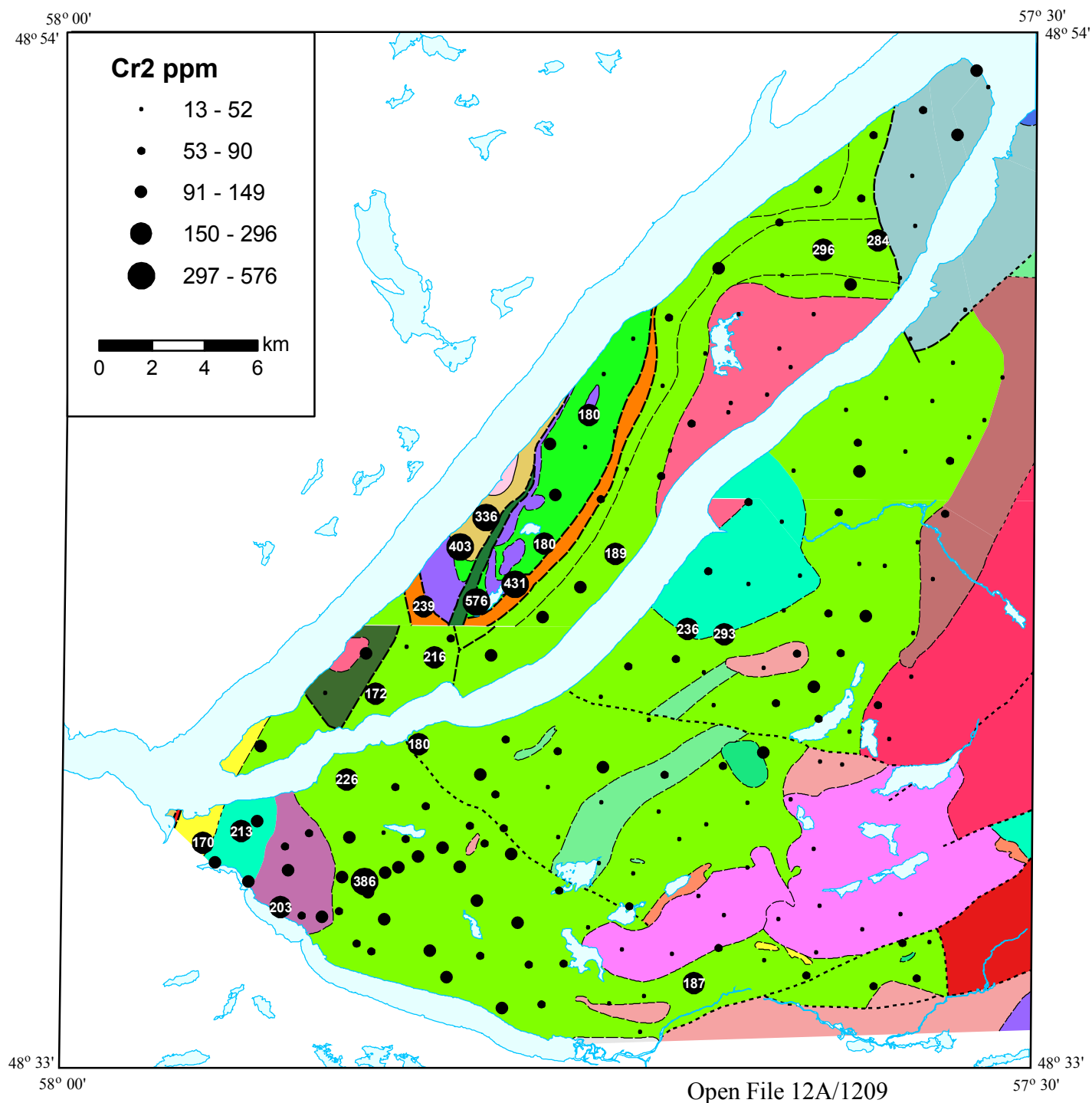


Distribution of calcium in till.

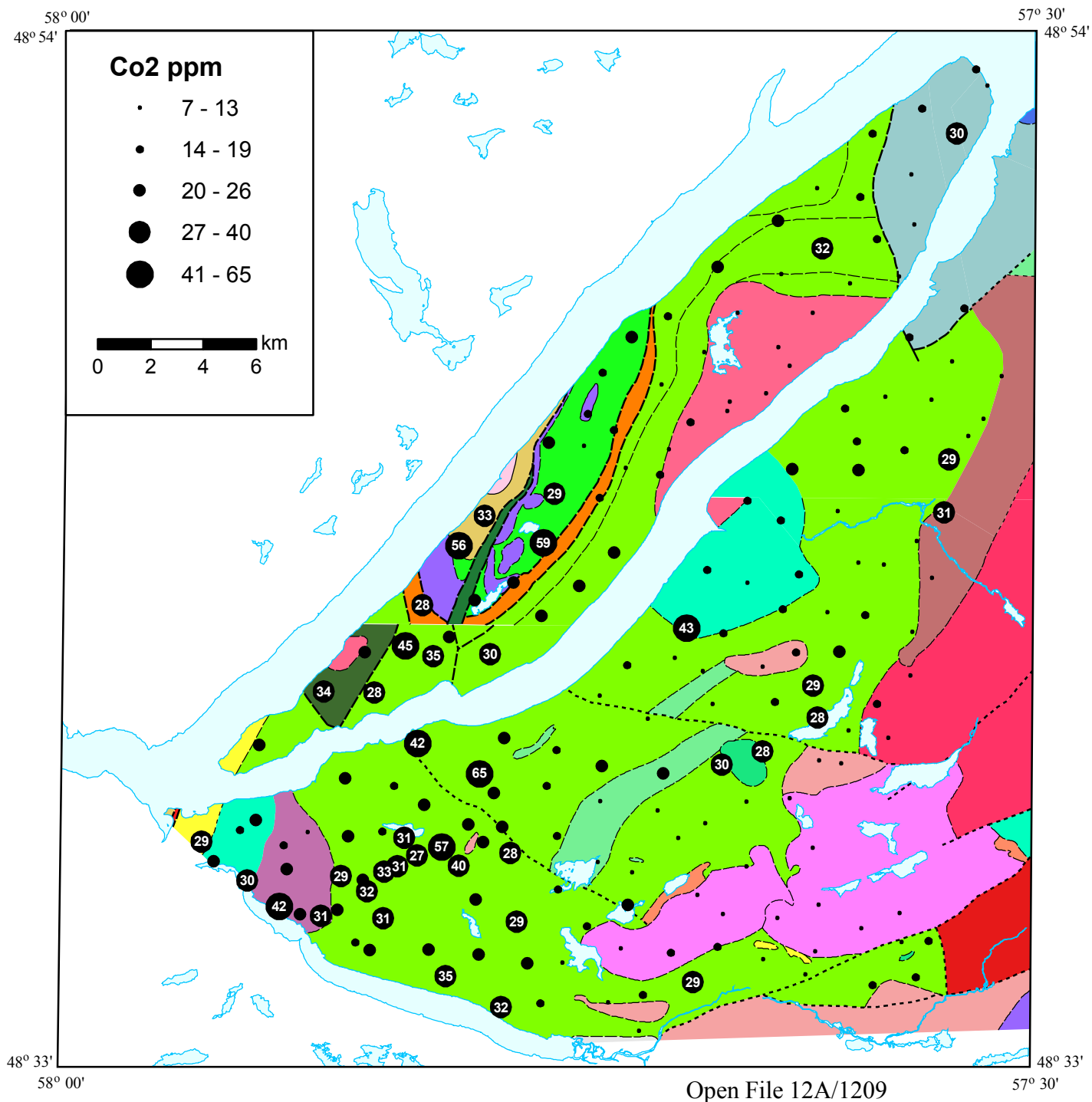


Distribution of cerium in till.

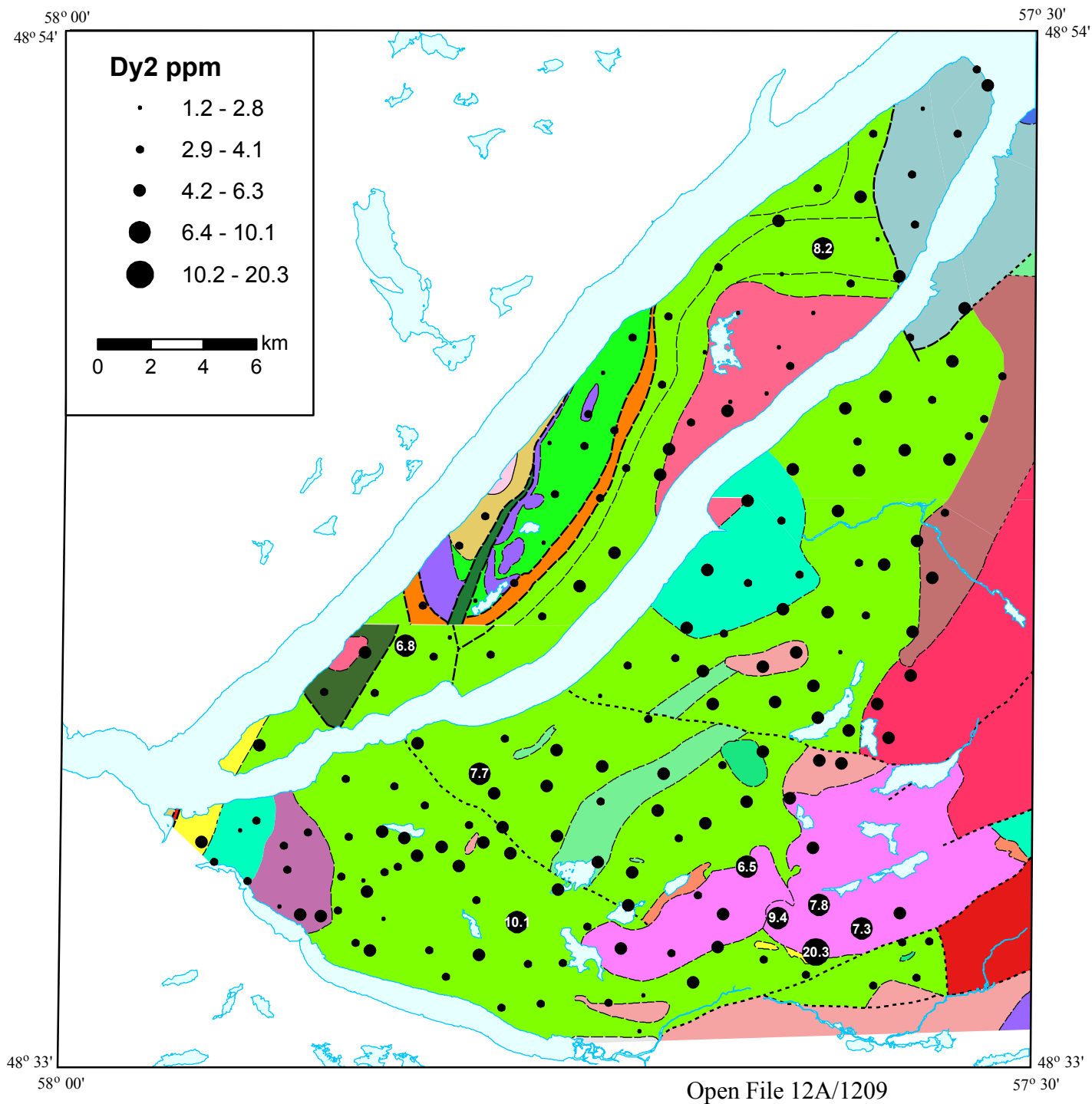




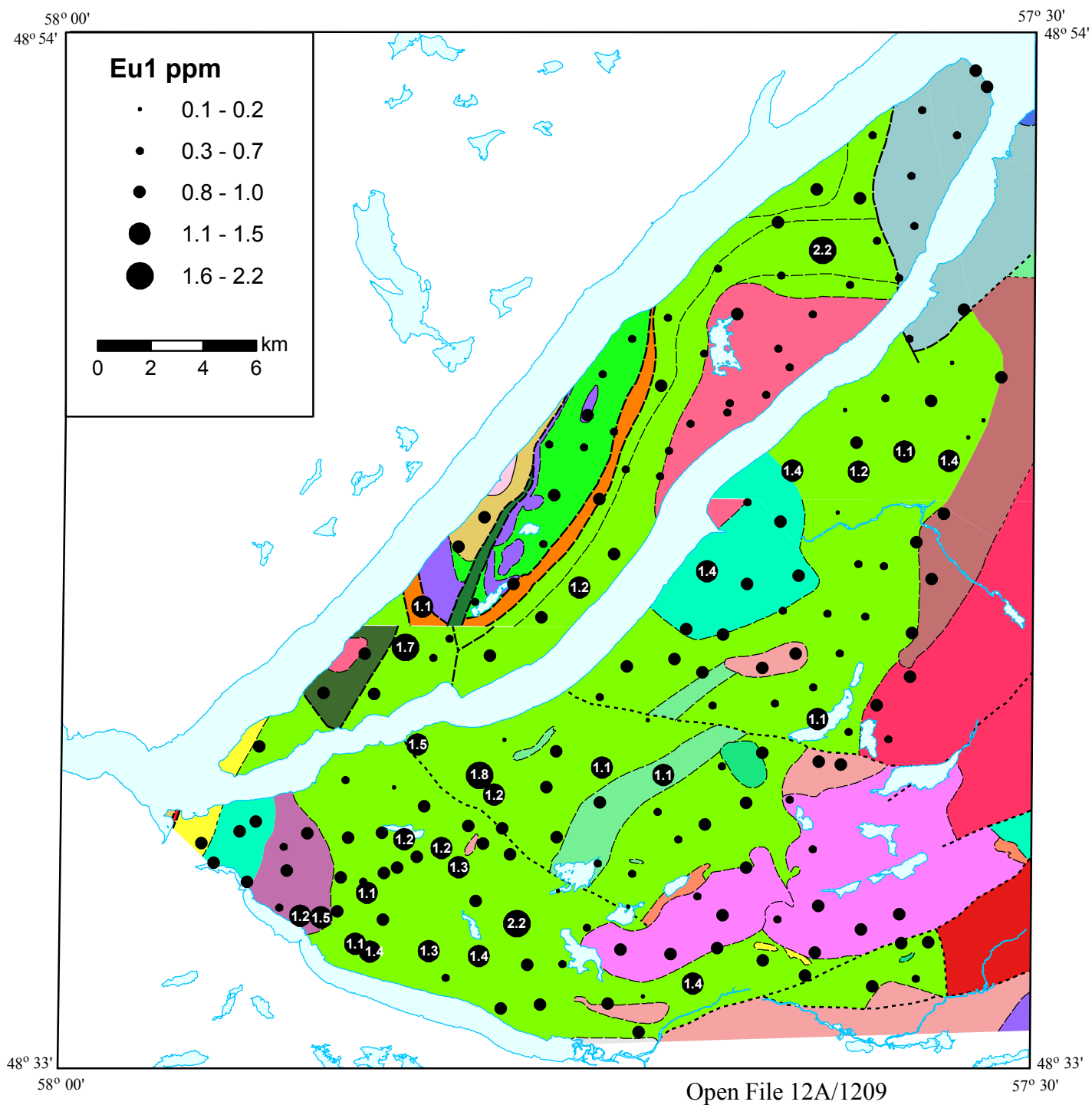
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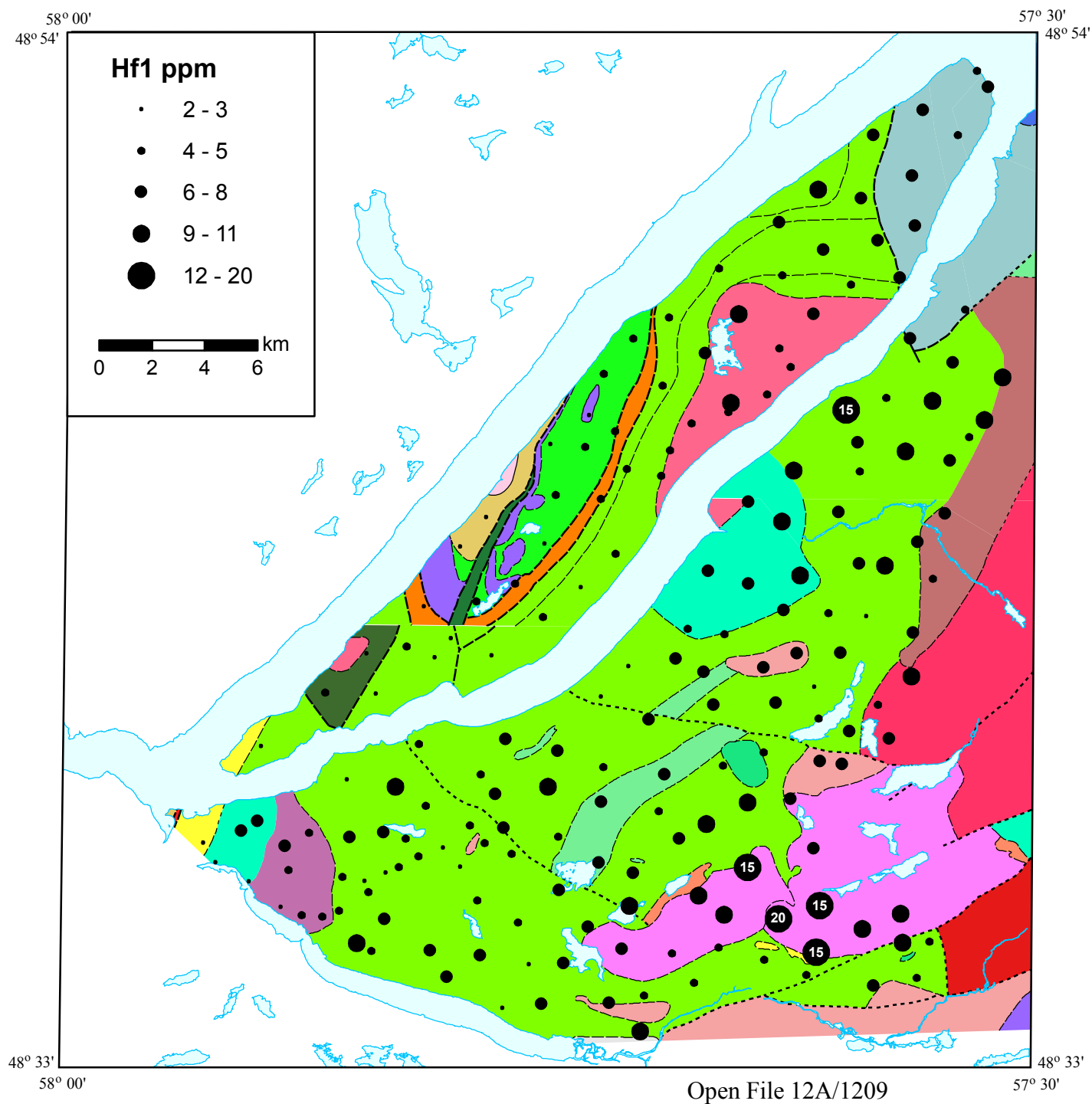
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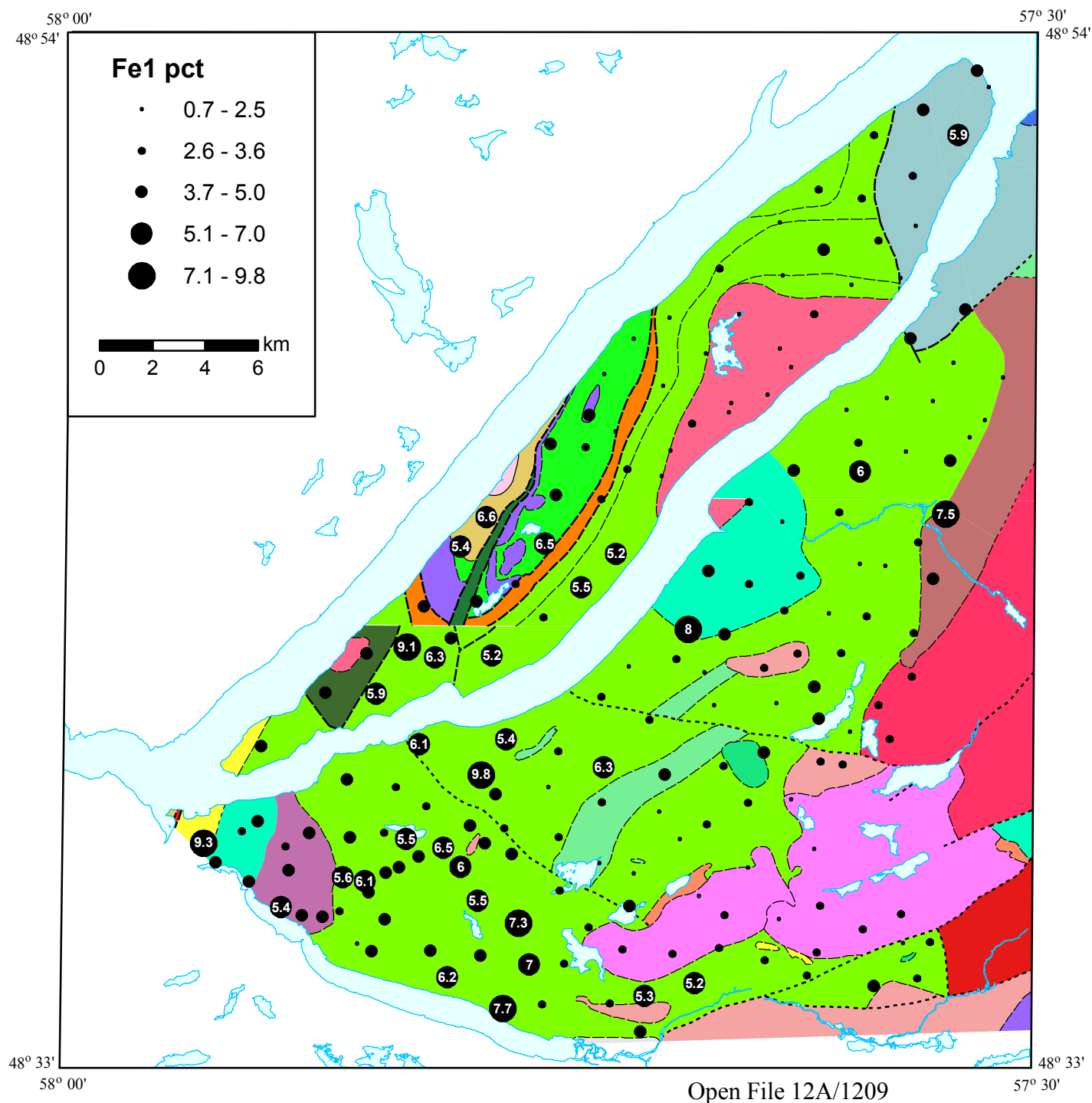
Distribution of dysprosium in till.



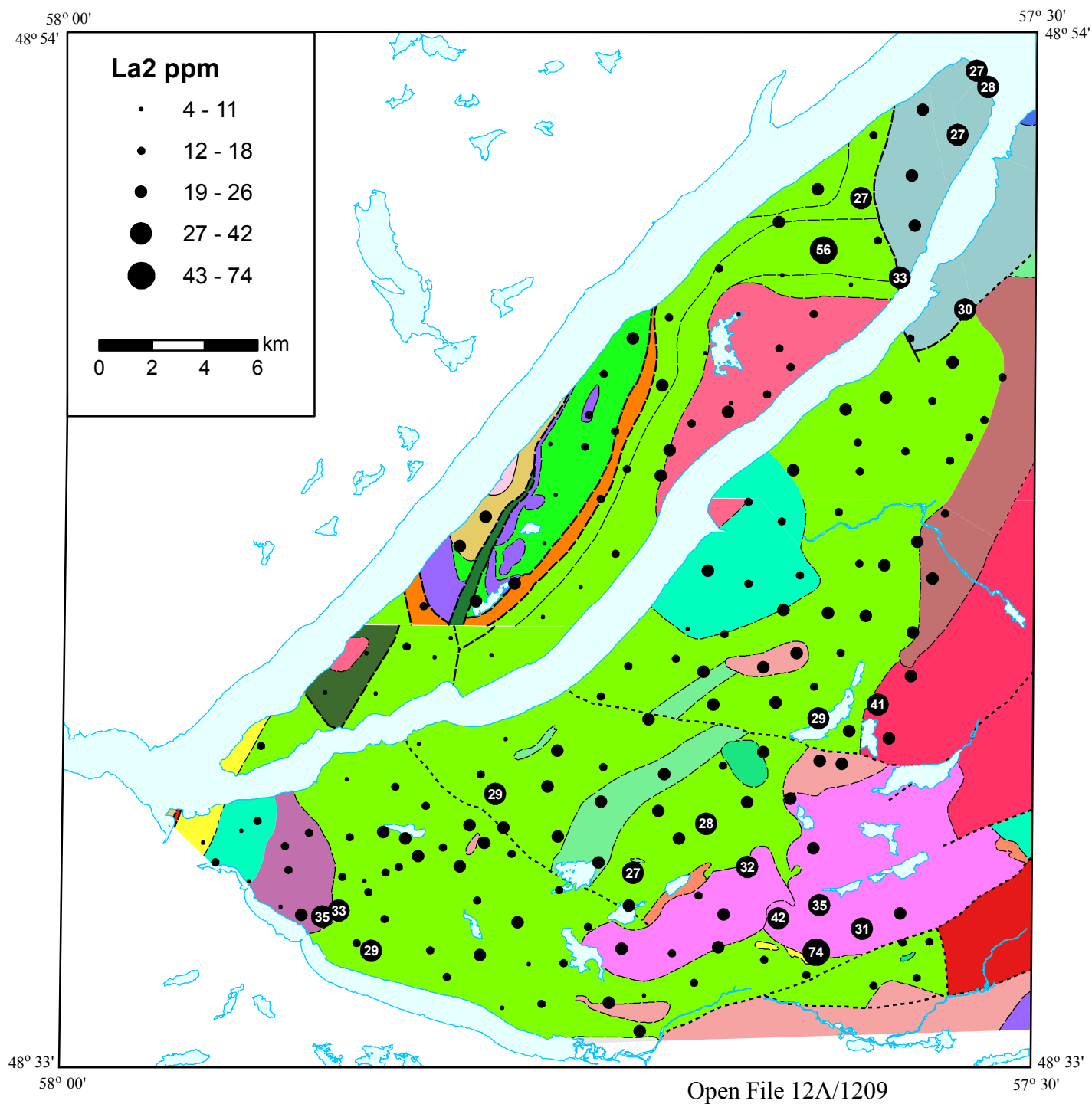
Distribution of europium in till.



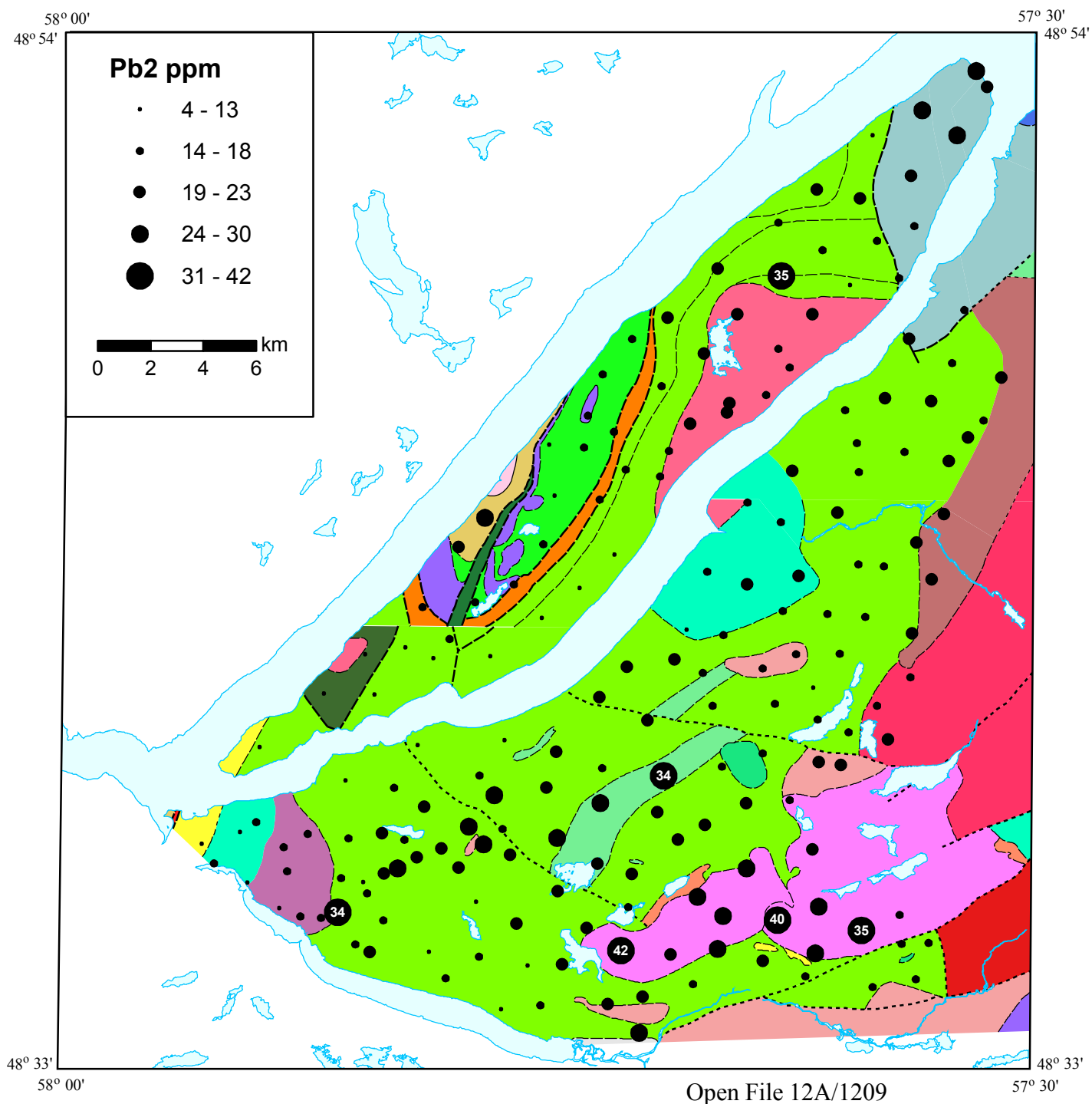
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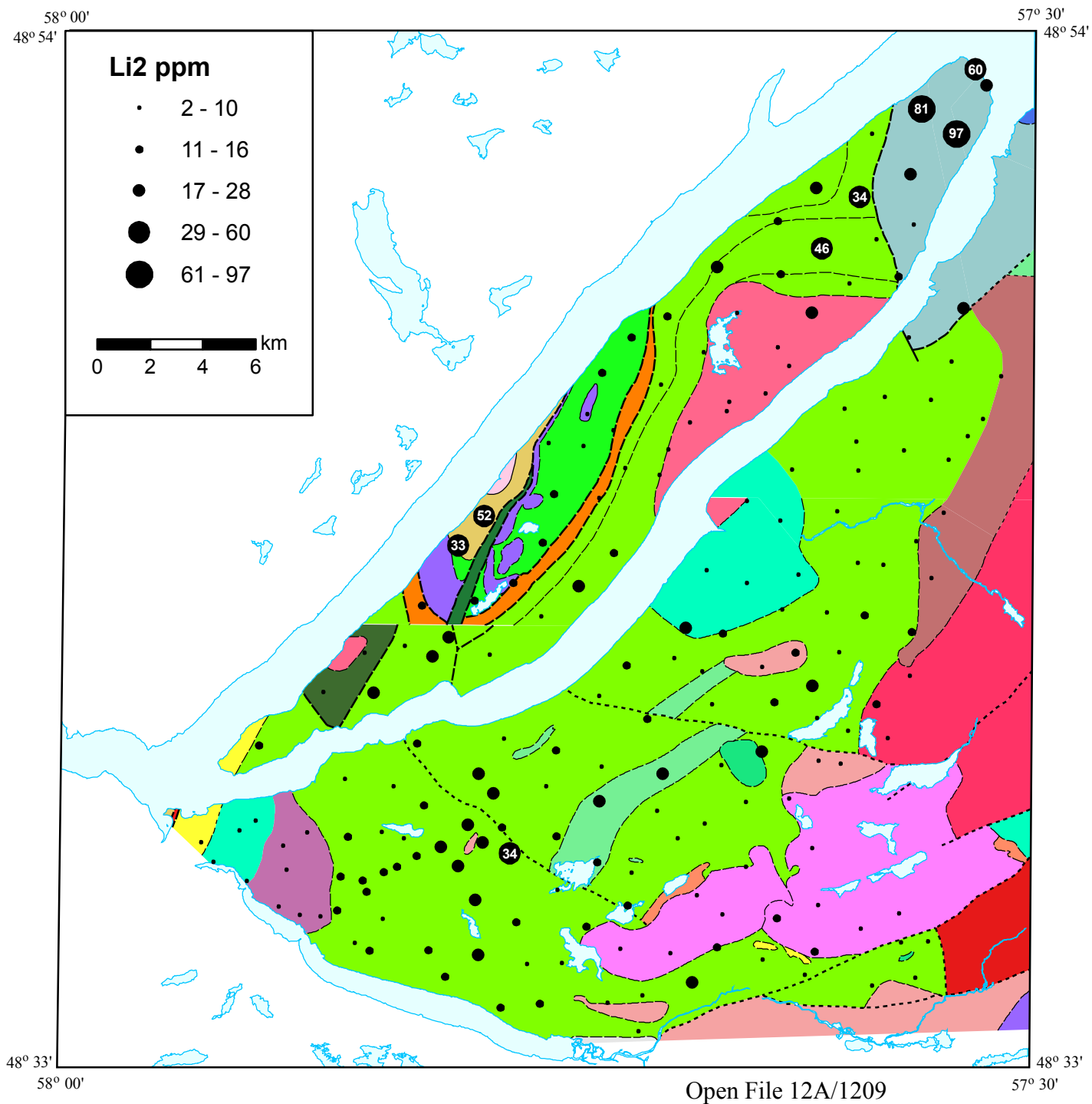
Distribution of iron in till.



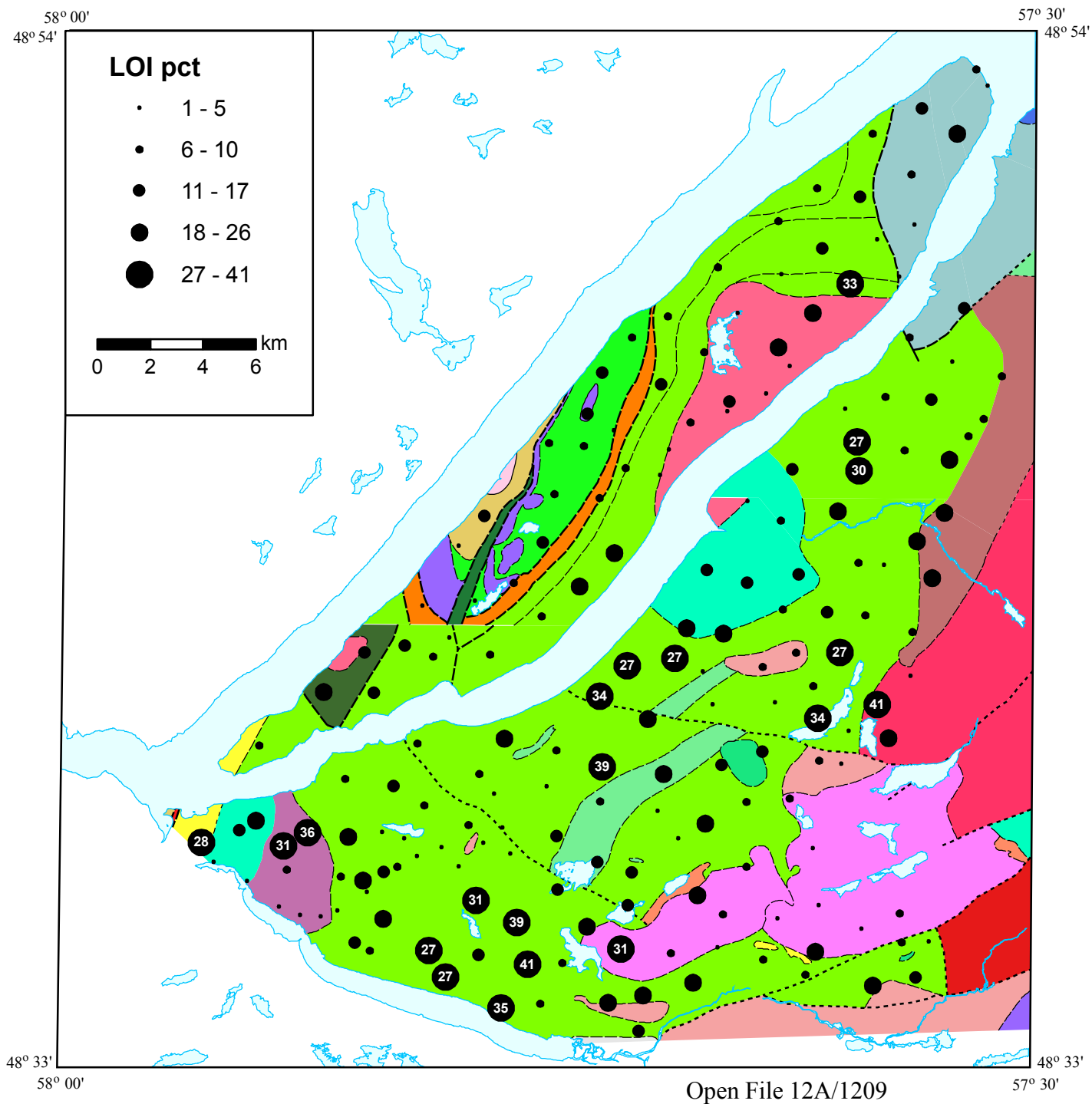
Distribution of lanthanum in till.



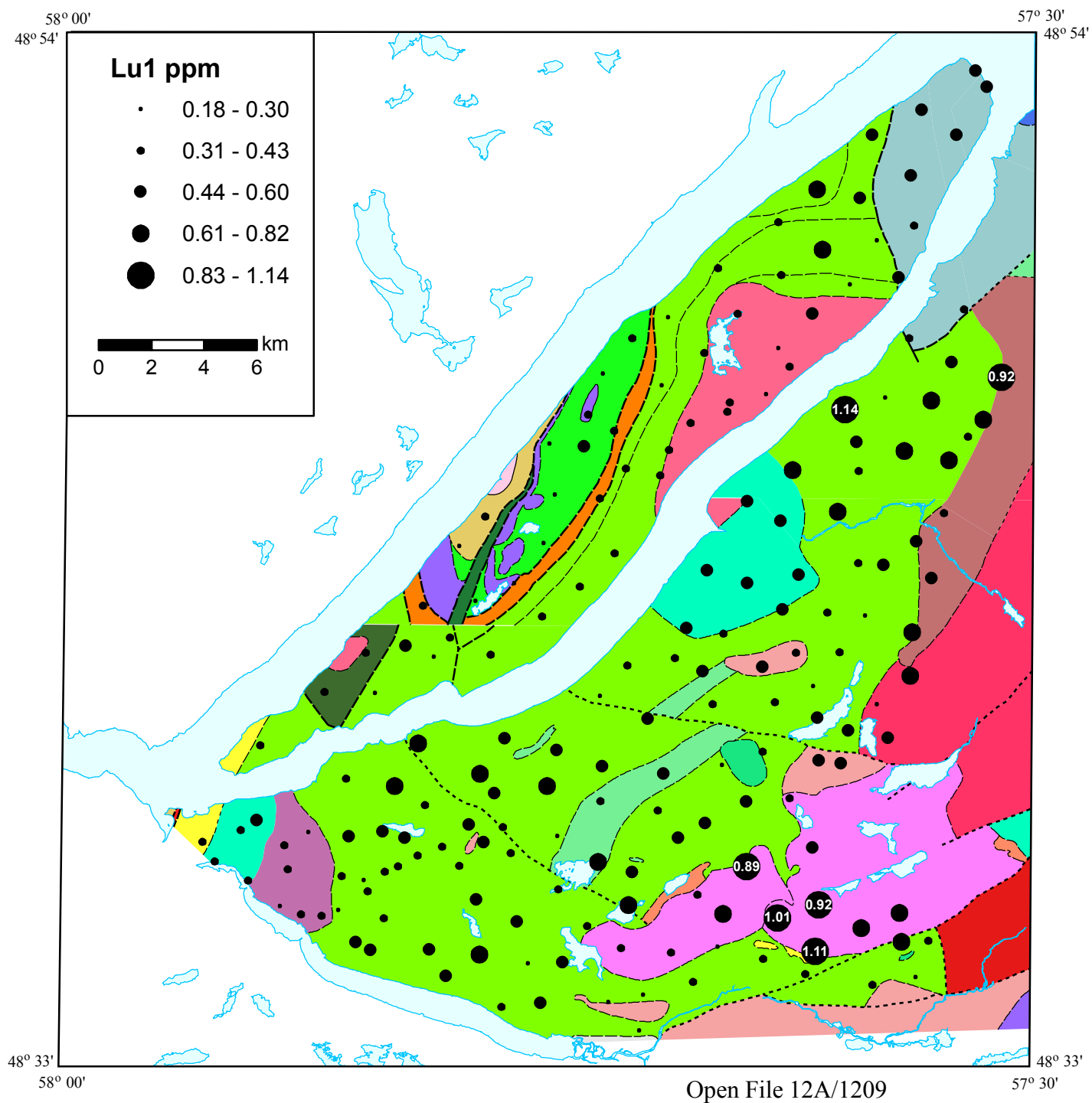
Distribution of lead in till.



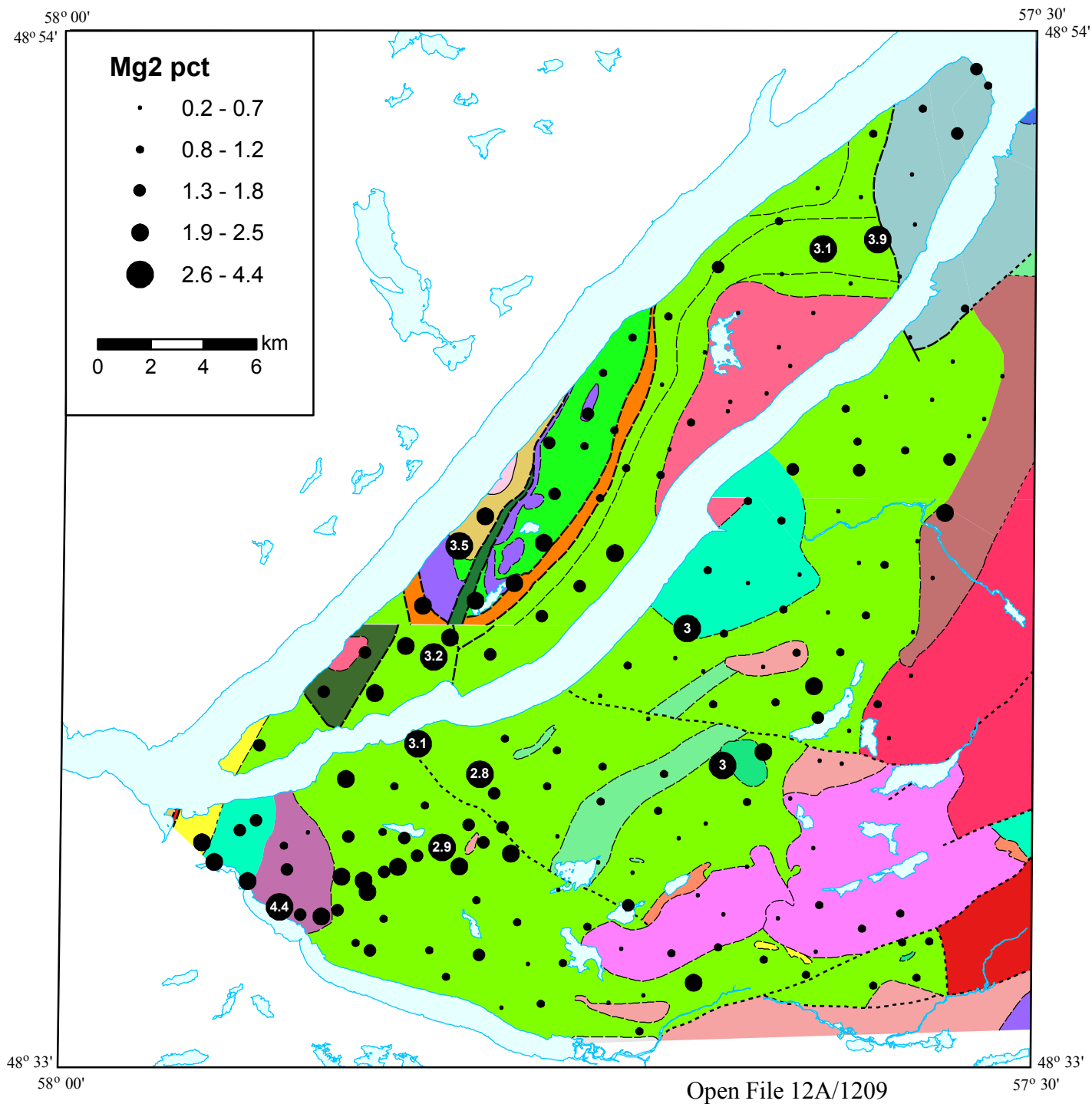
Distribution of lithium in till.



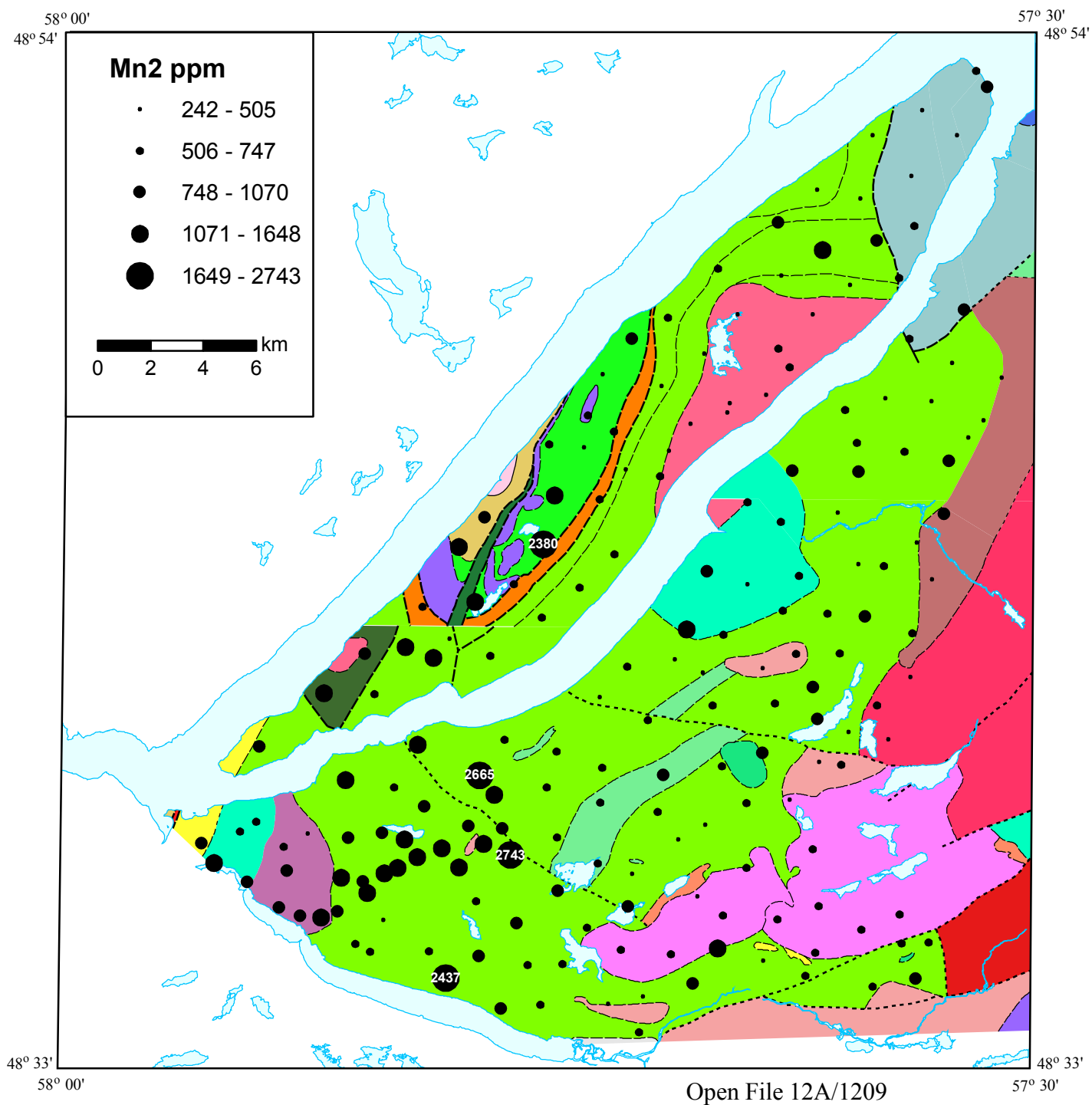
Distribution of loss-on-ignition in till.



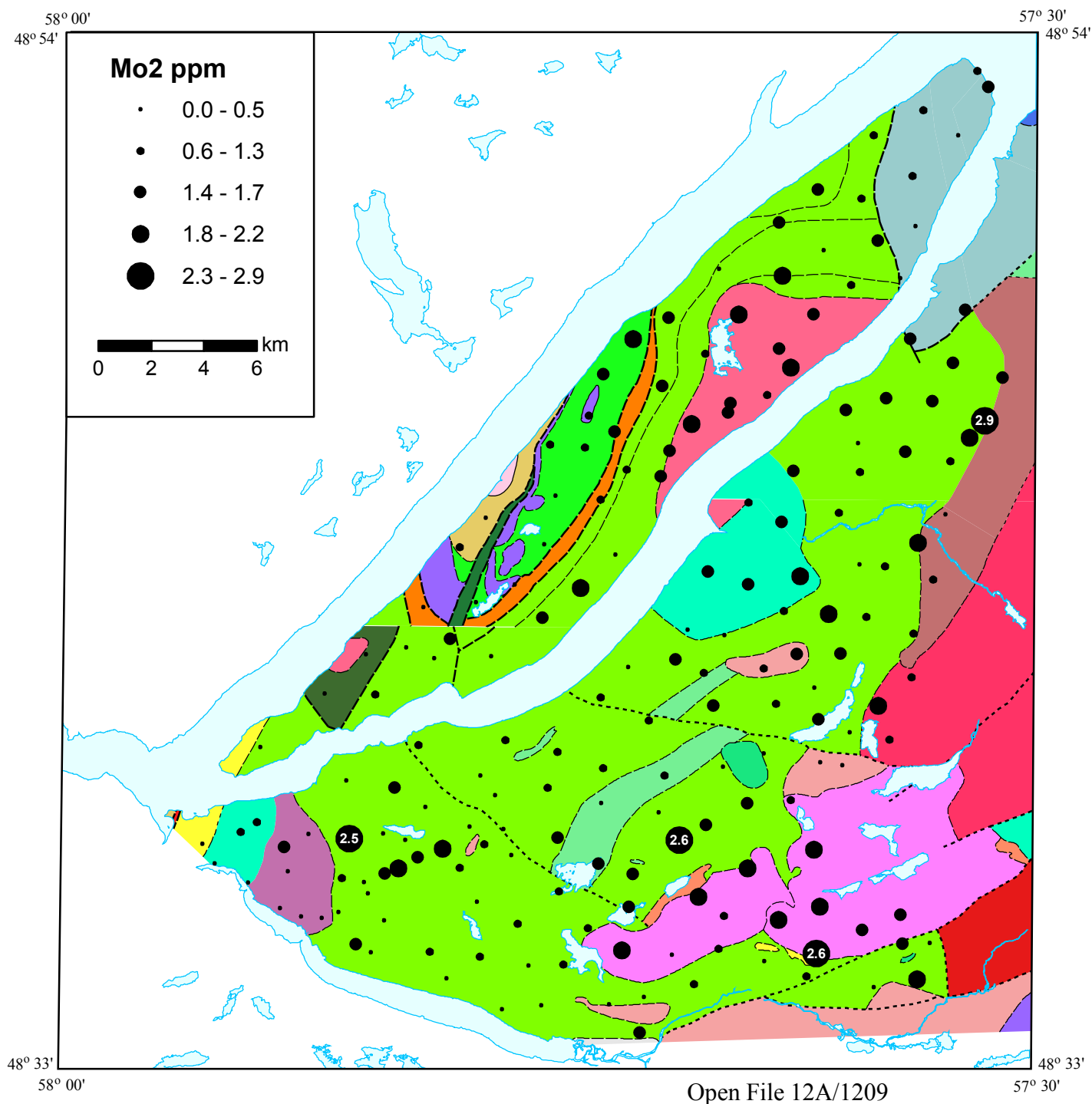
Distribution of lutetium in till.



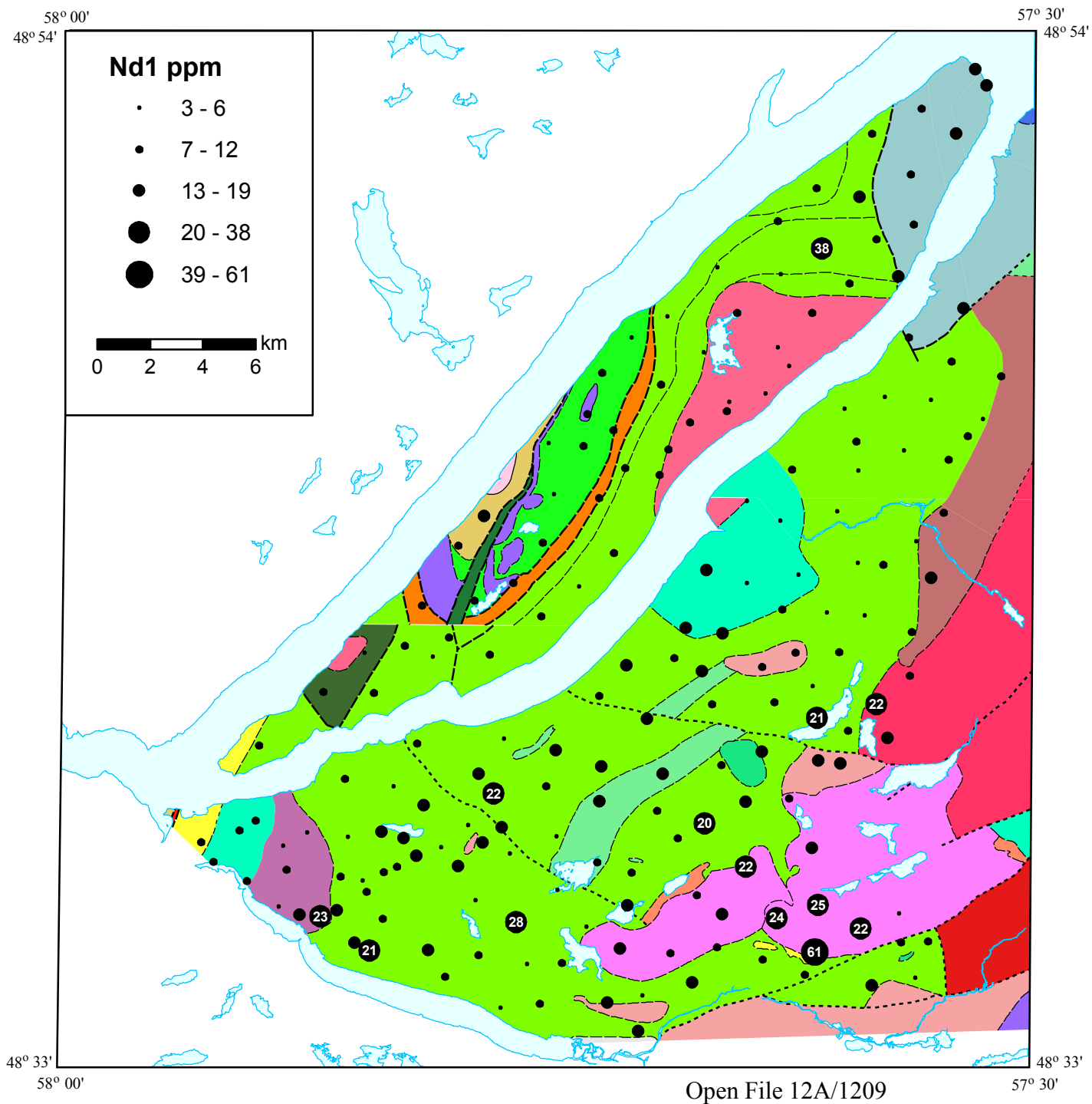
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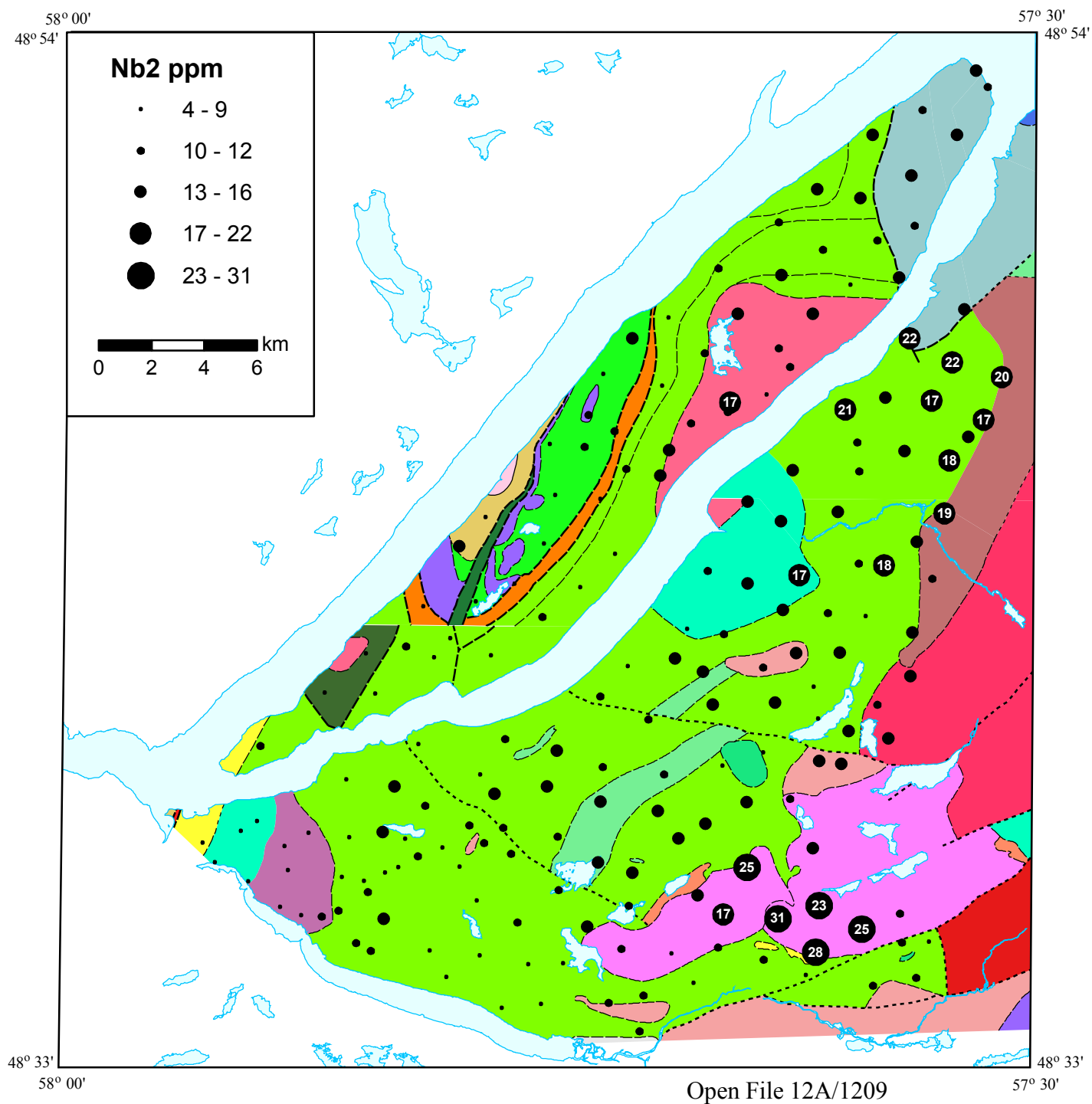
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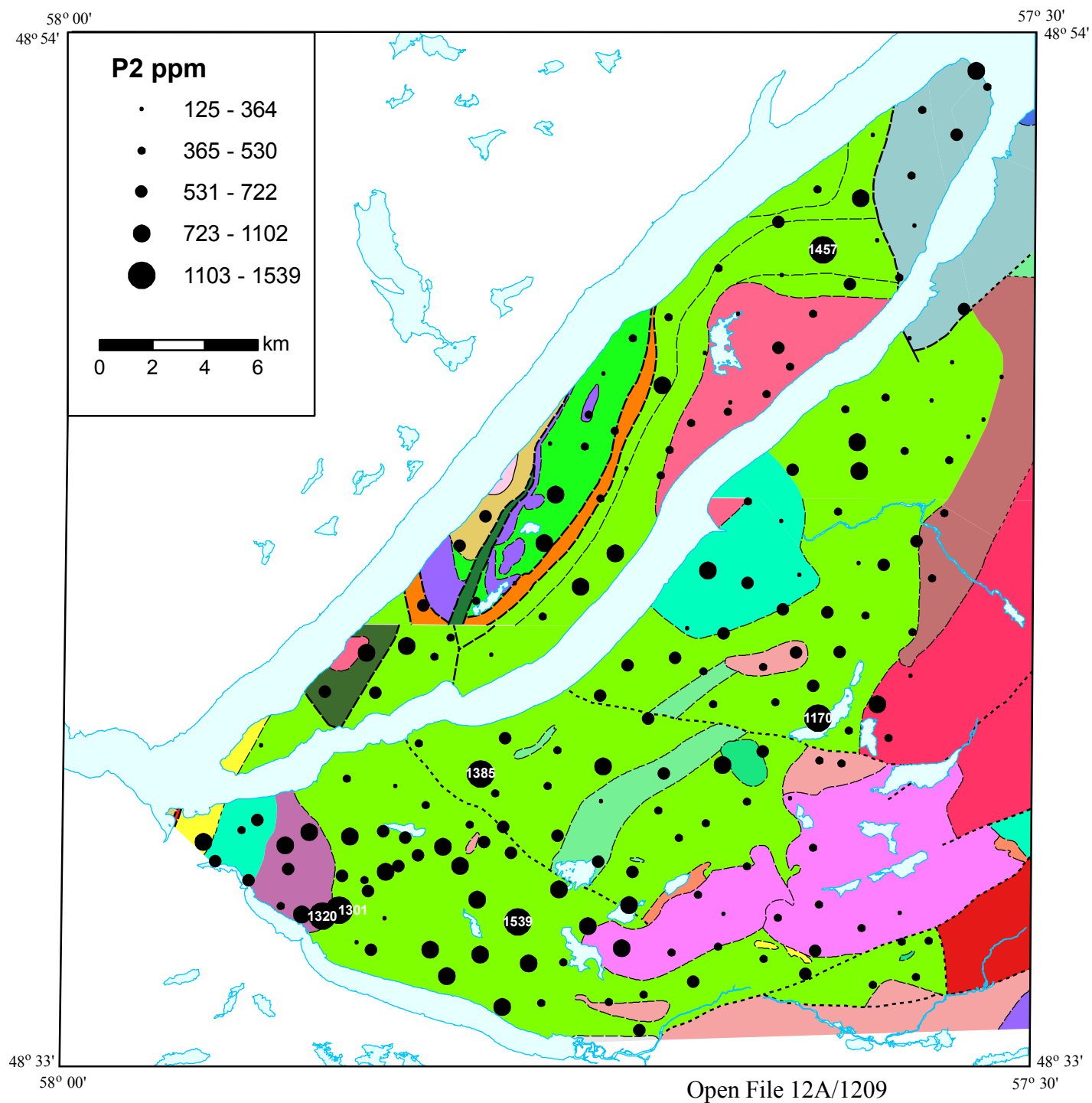
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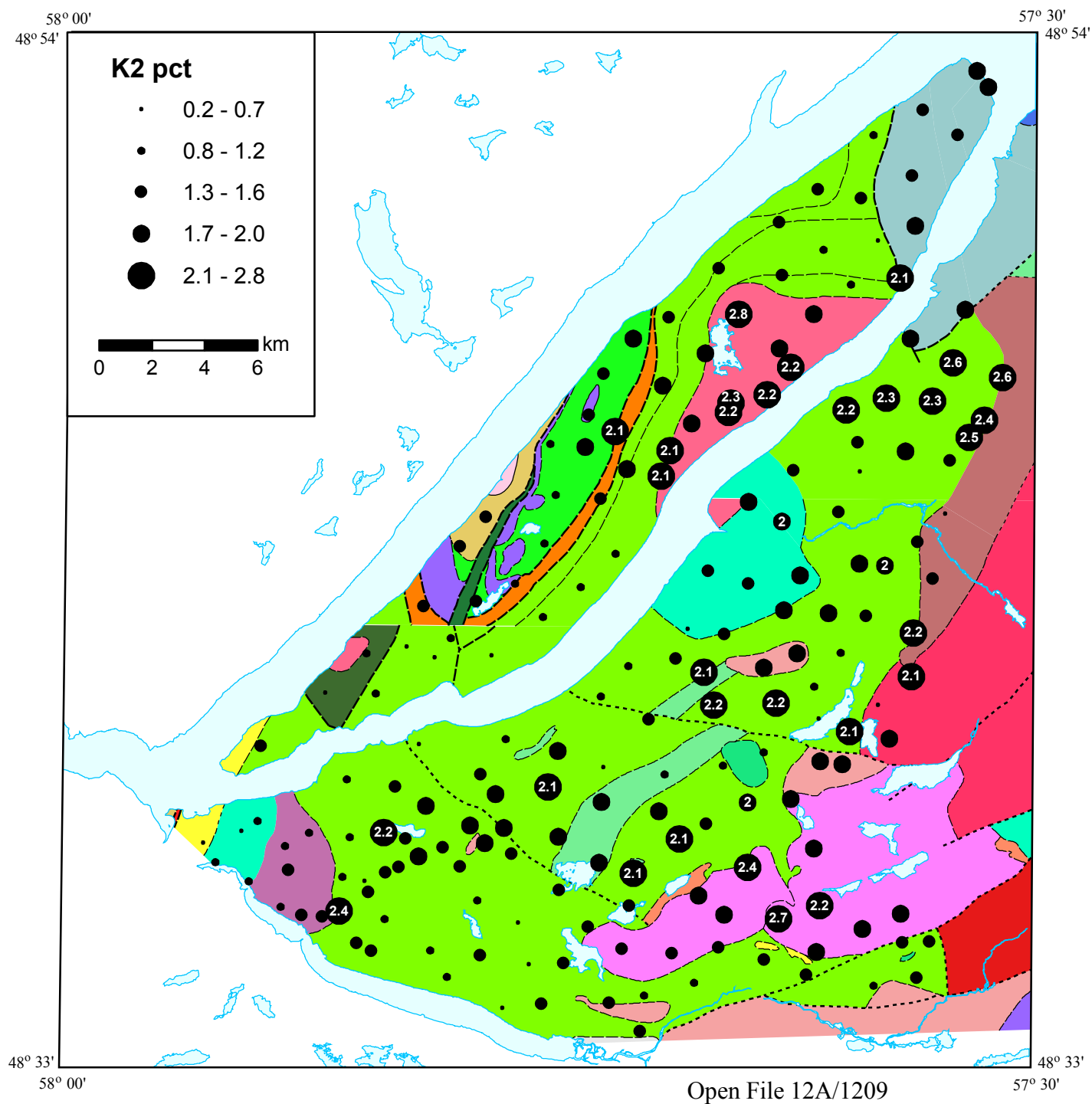
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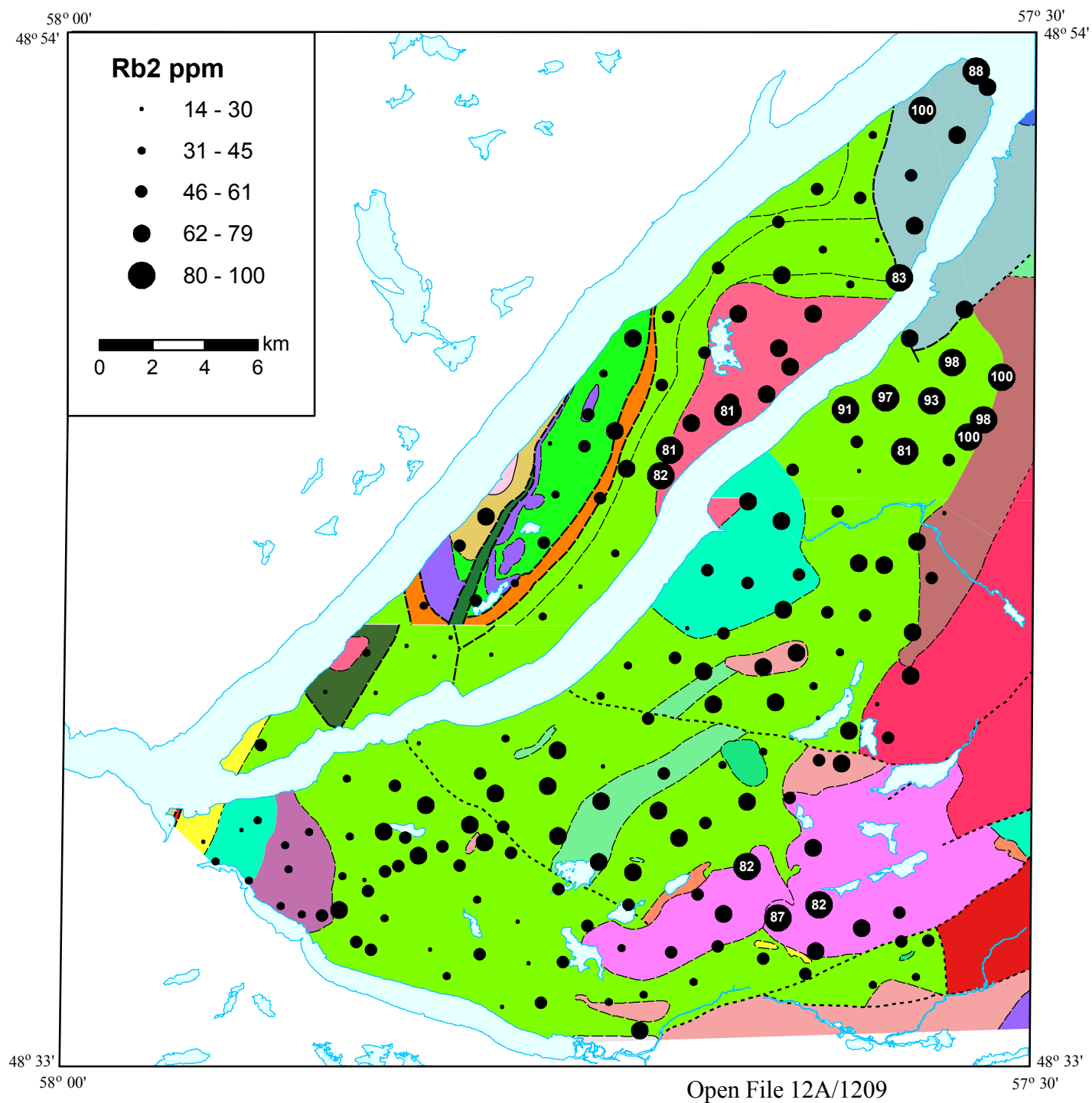
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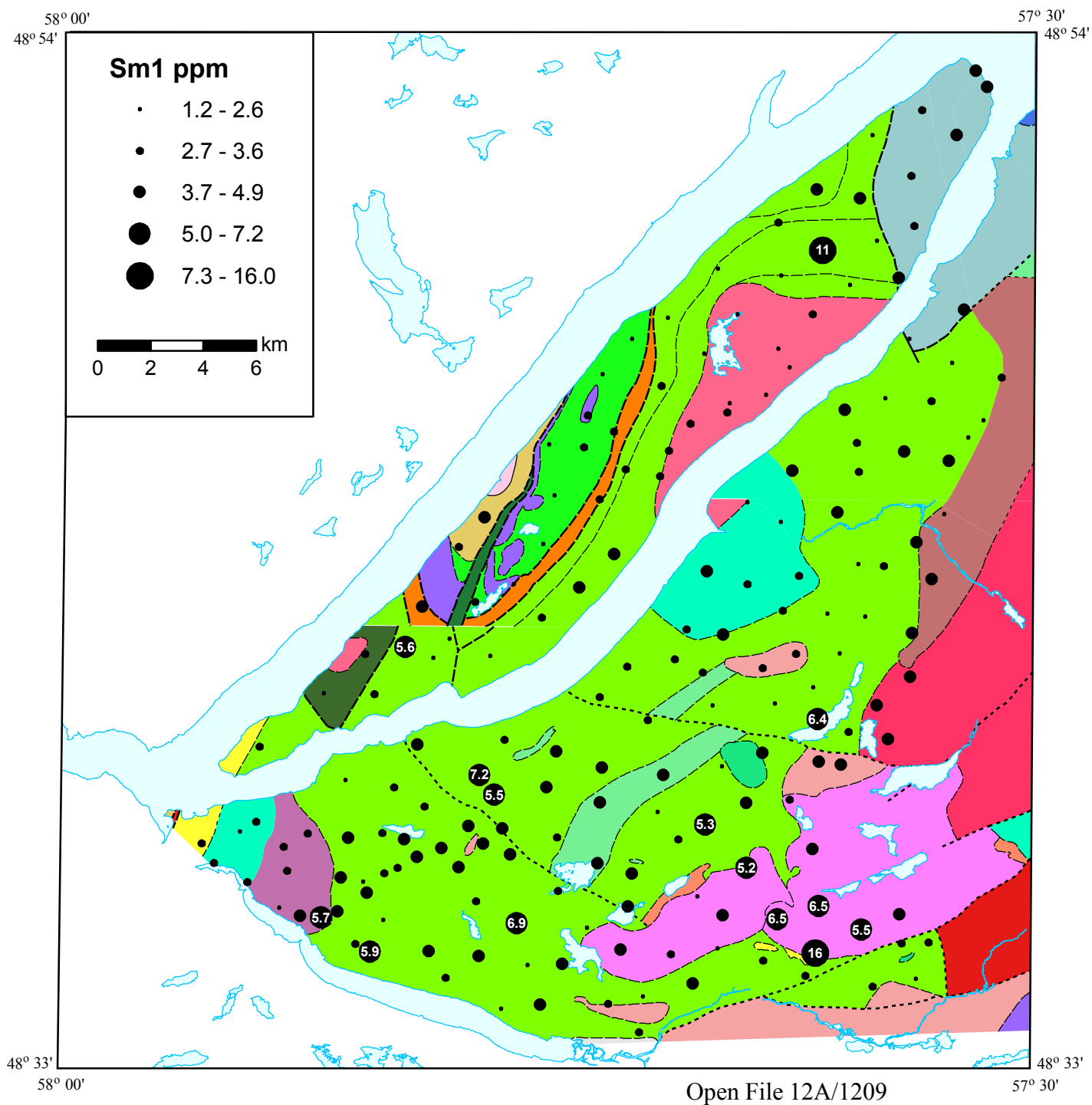
Distribution of phosphorous in till.



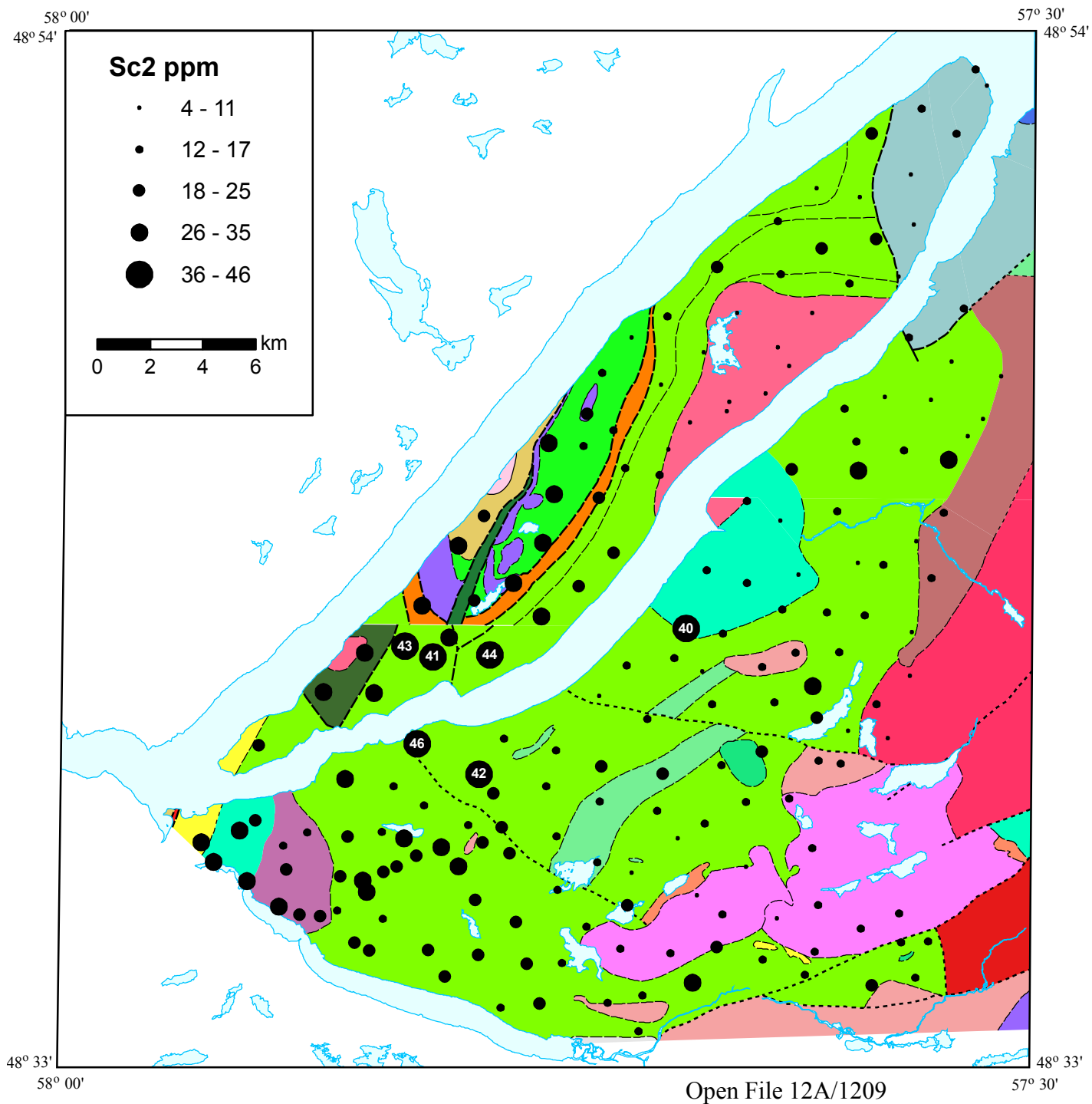
Distribution of potassium in till.



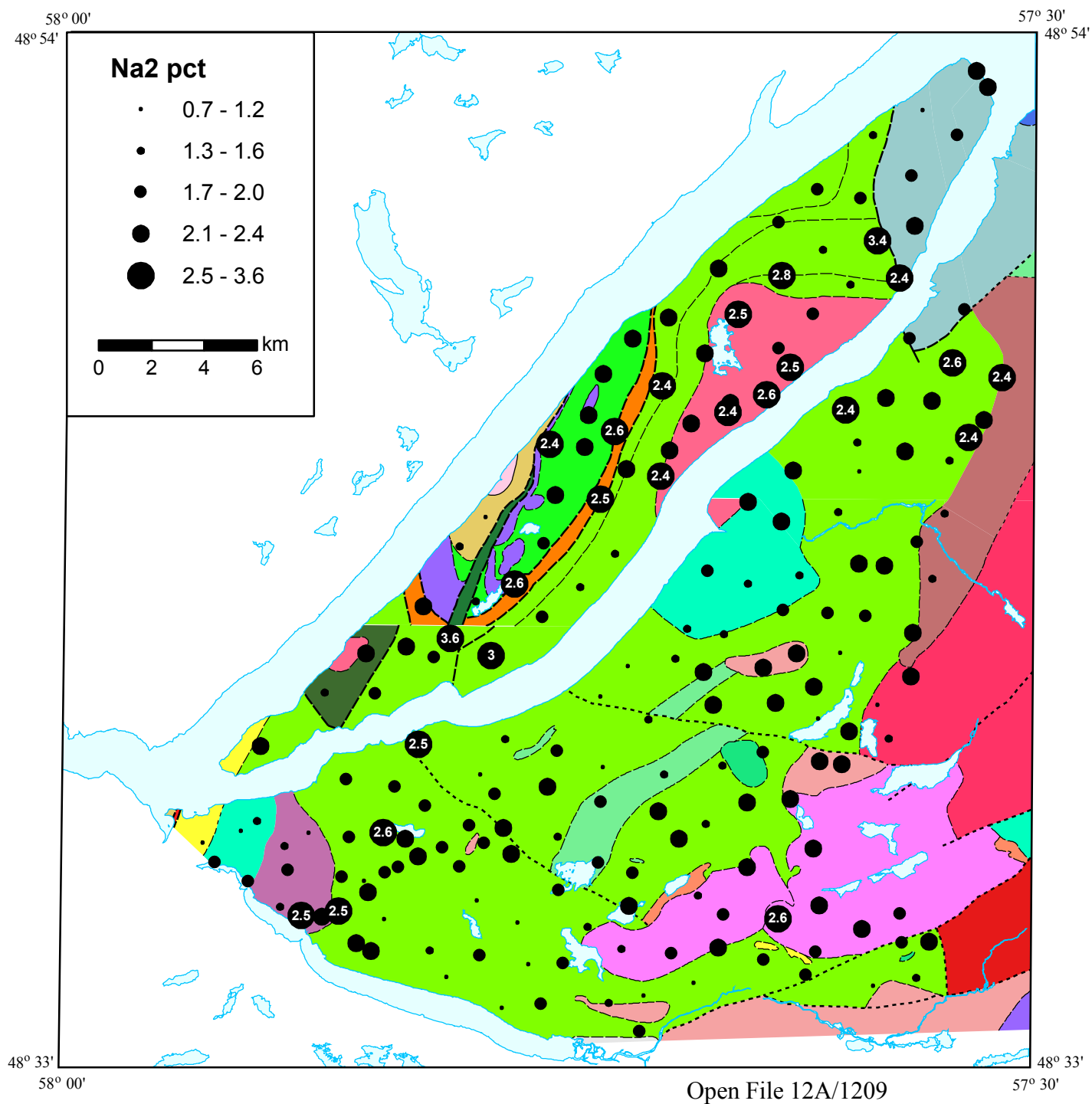
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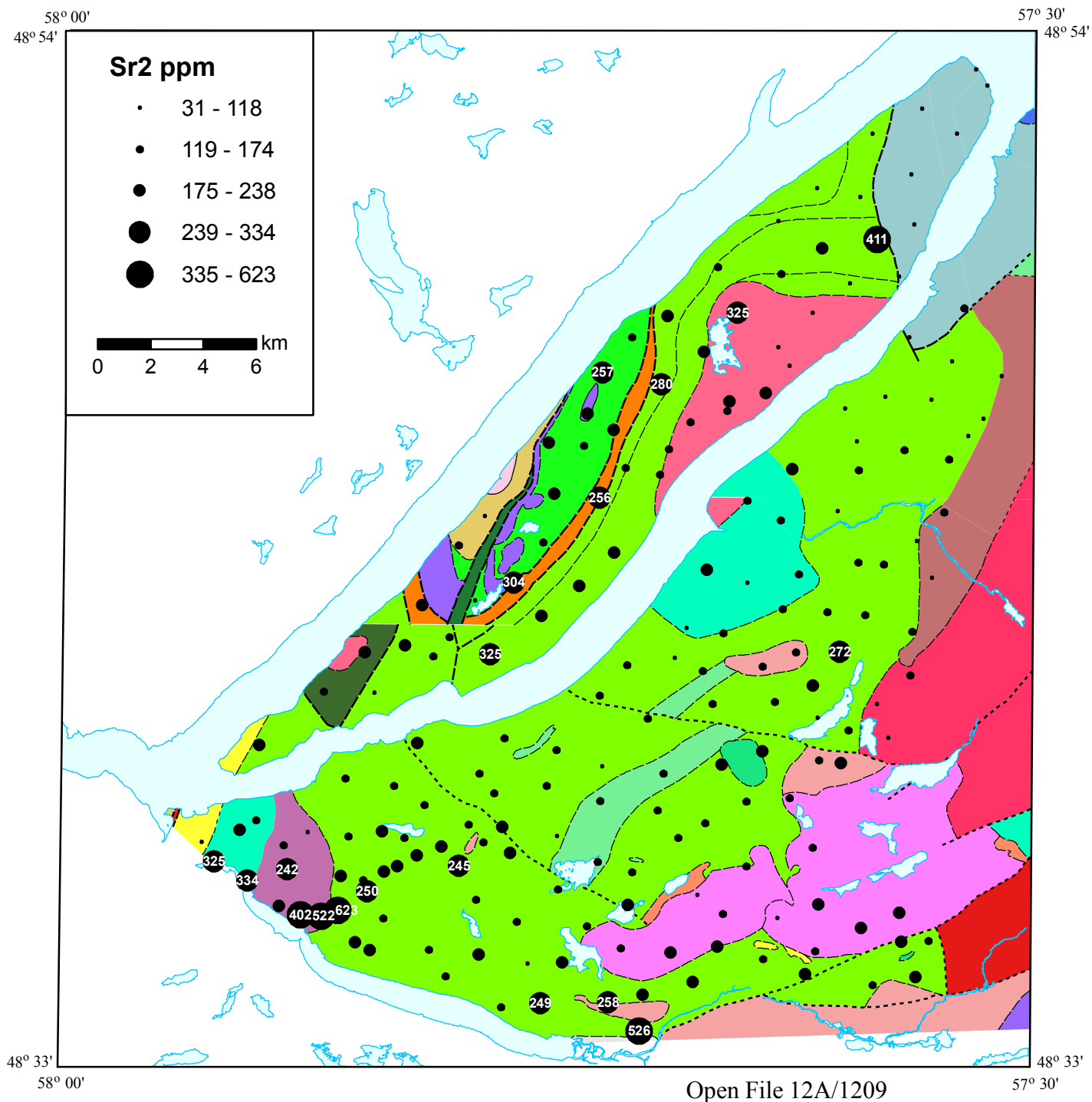
Distribution of samarium in till.



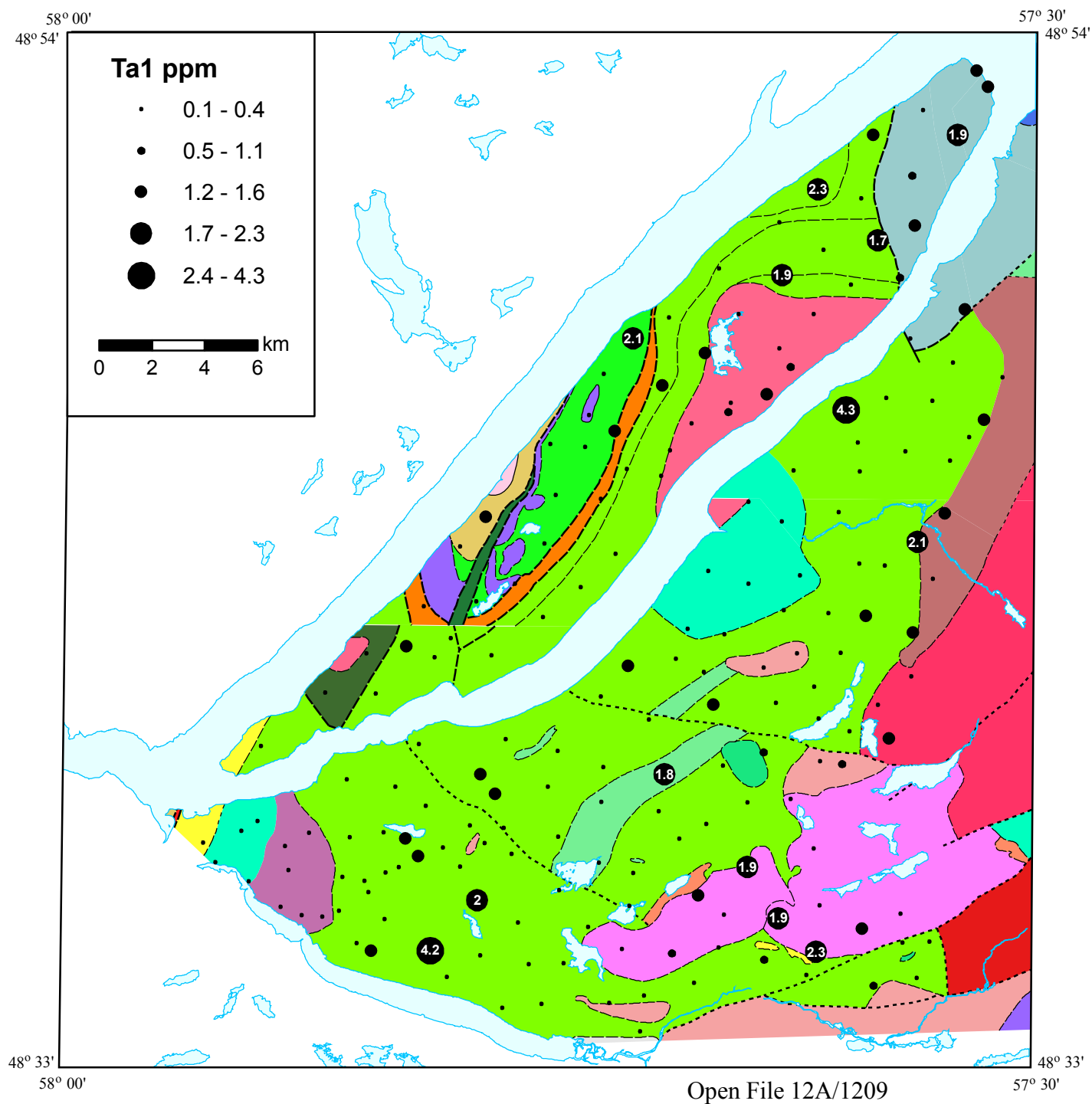
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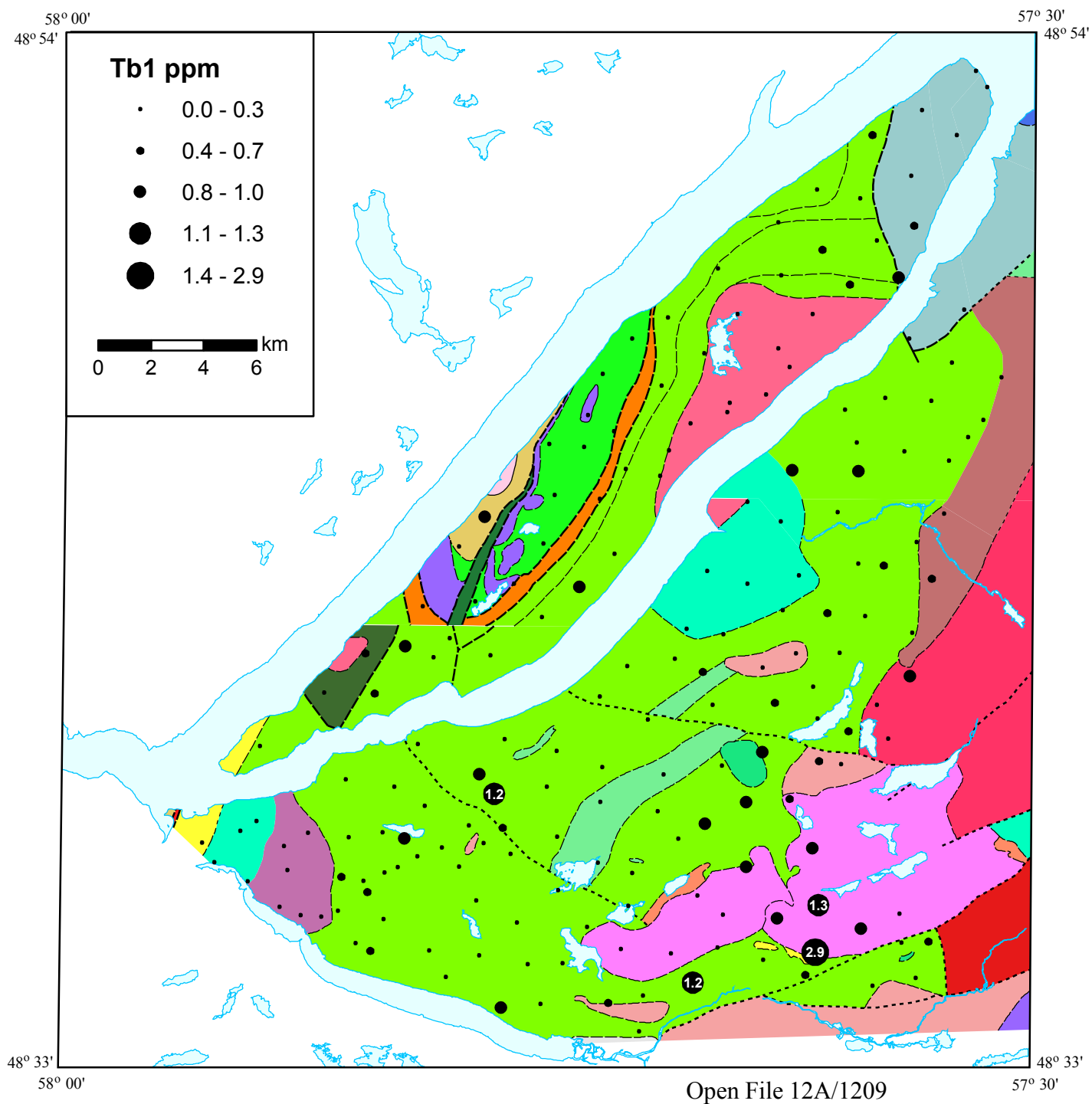
Distribution of sodium in till.



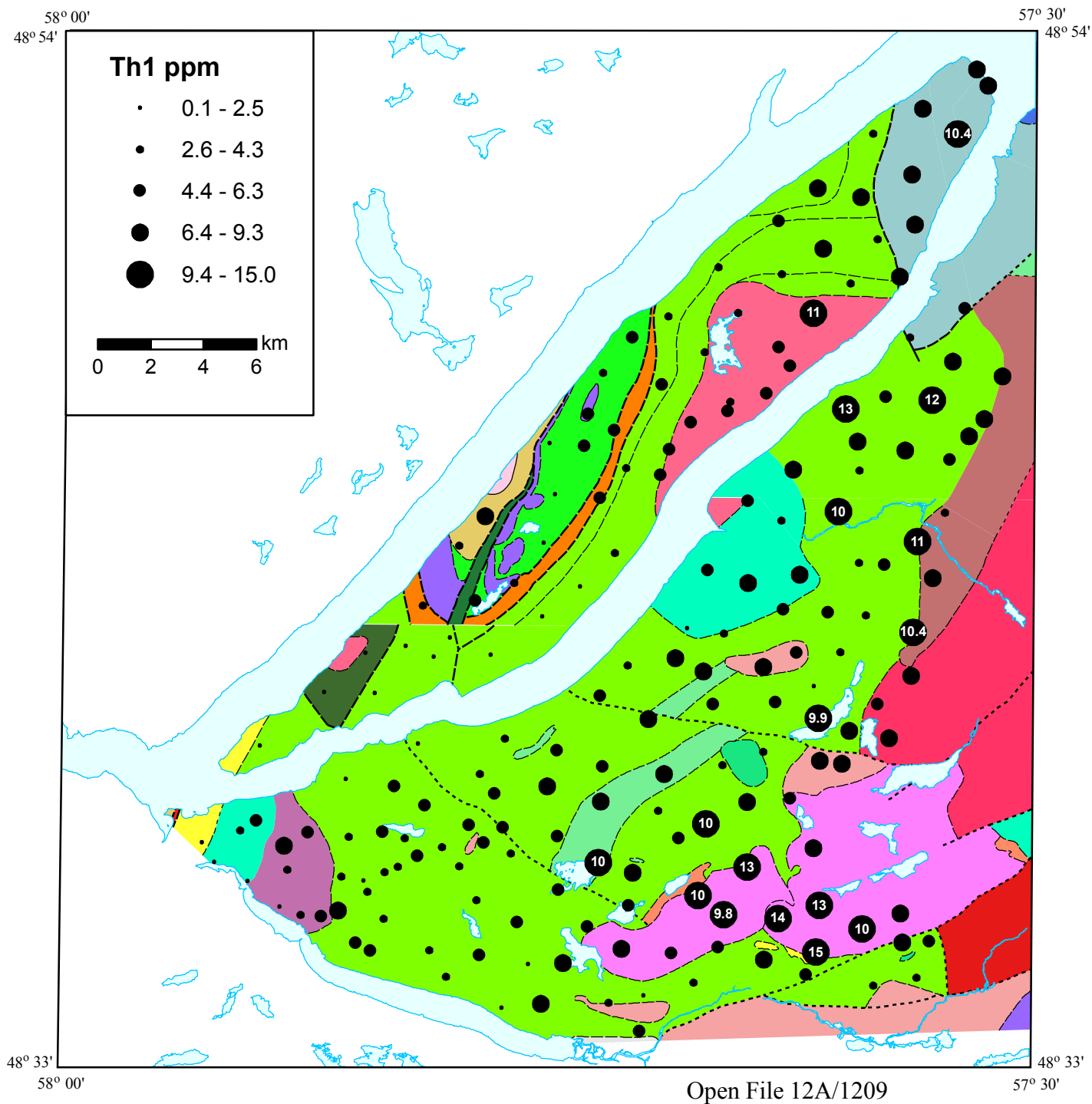
Distribution of strontium in till.



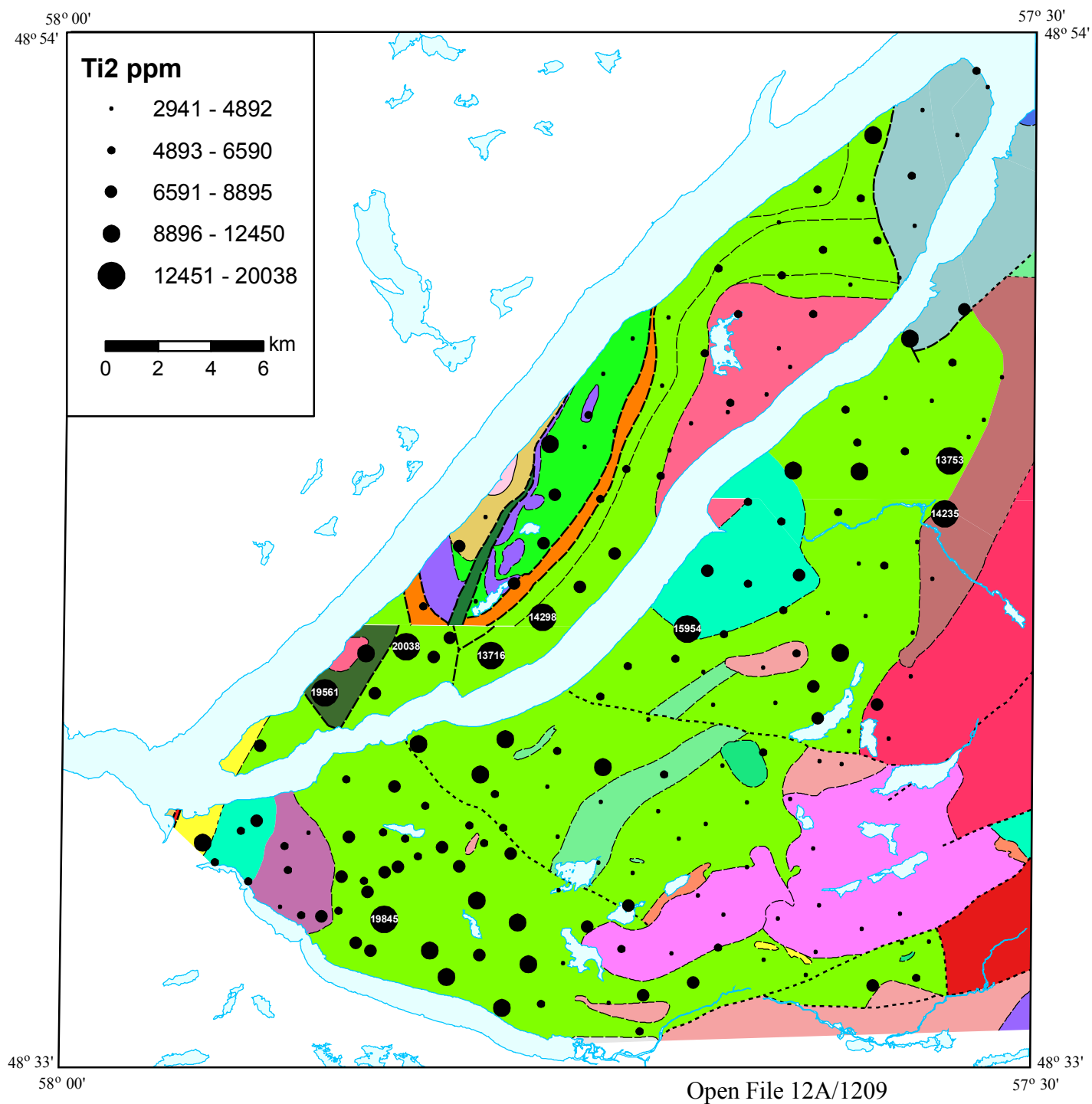
Distribution of tantalum in till.



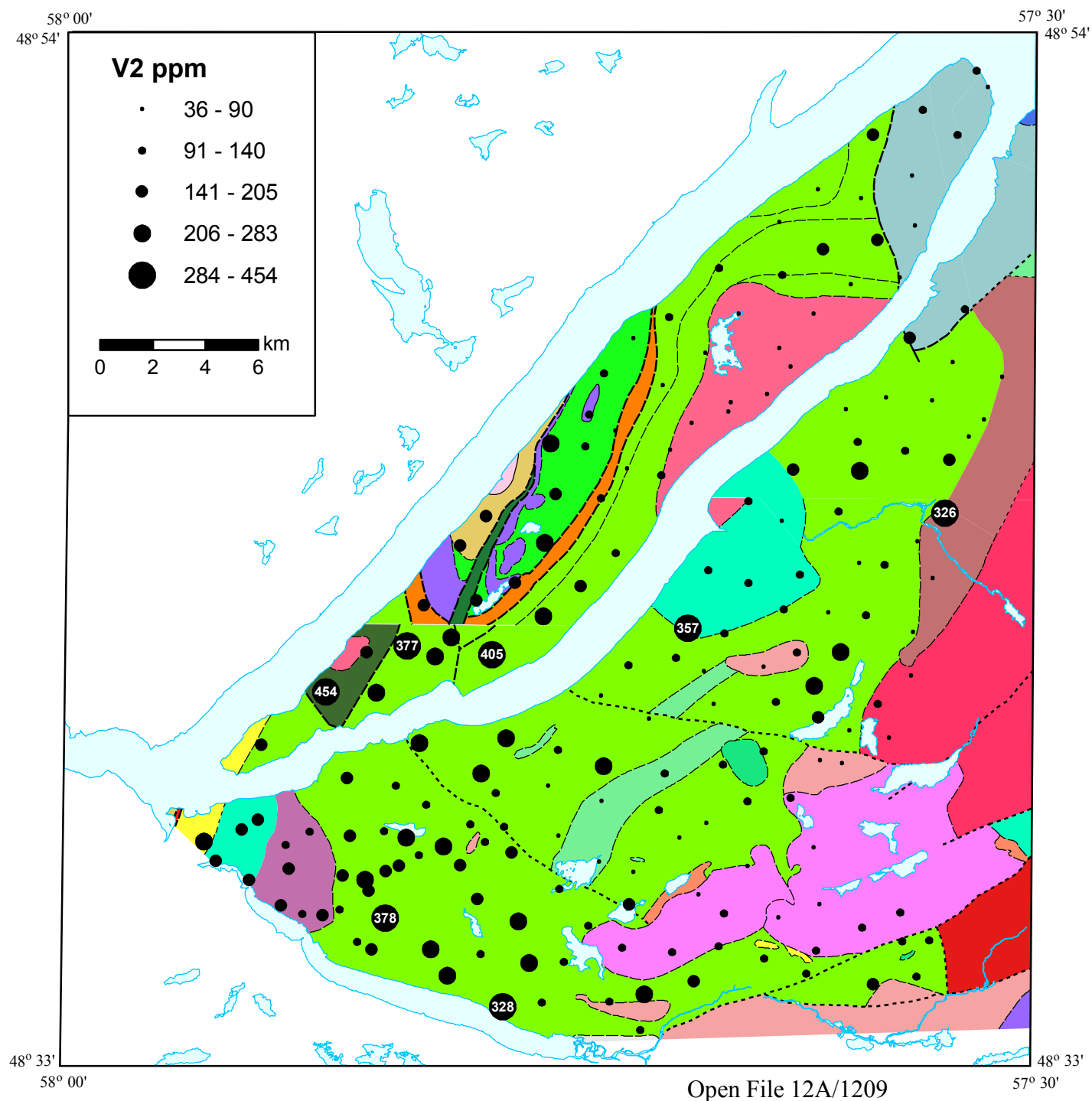
Distribution of terbium in till.



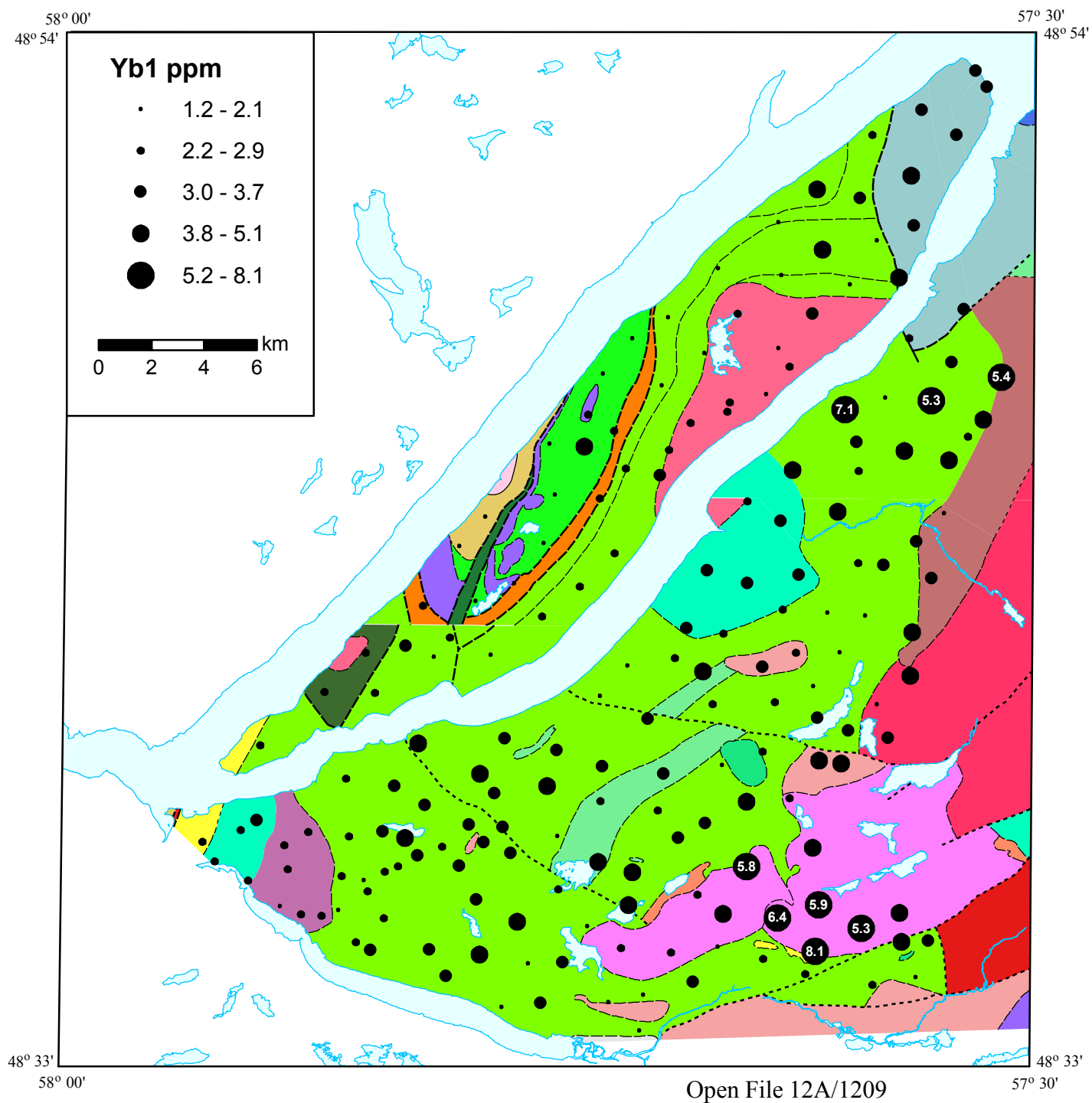
Distribution of thorium in till.



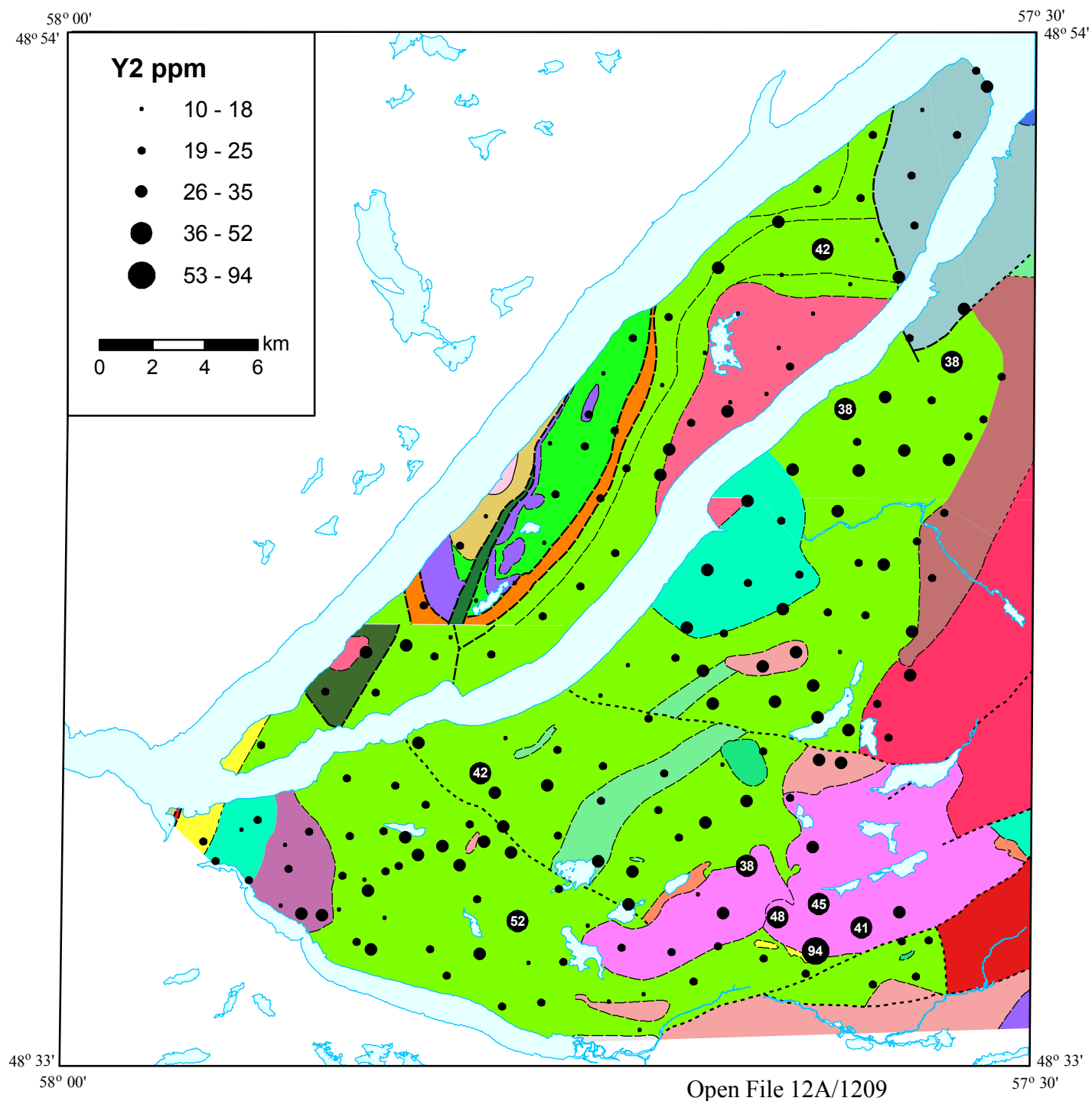
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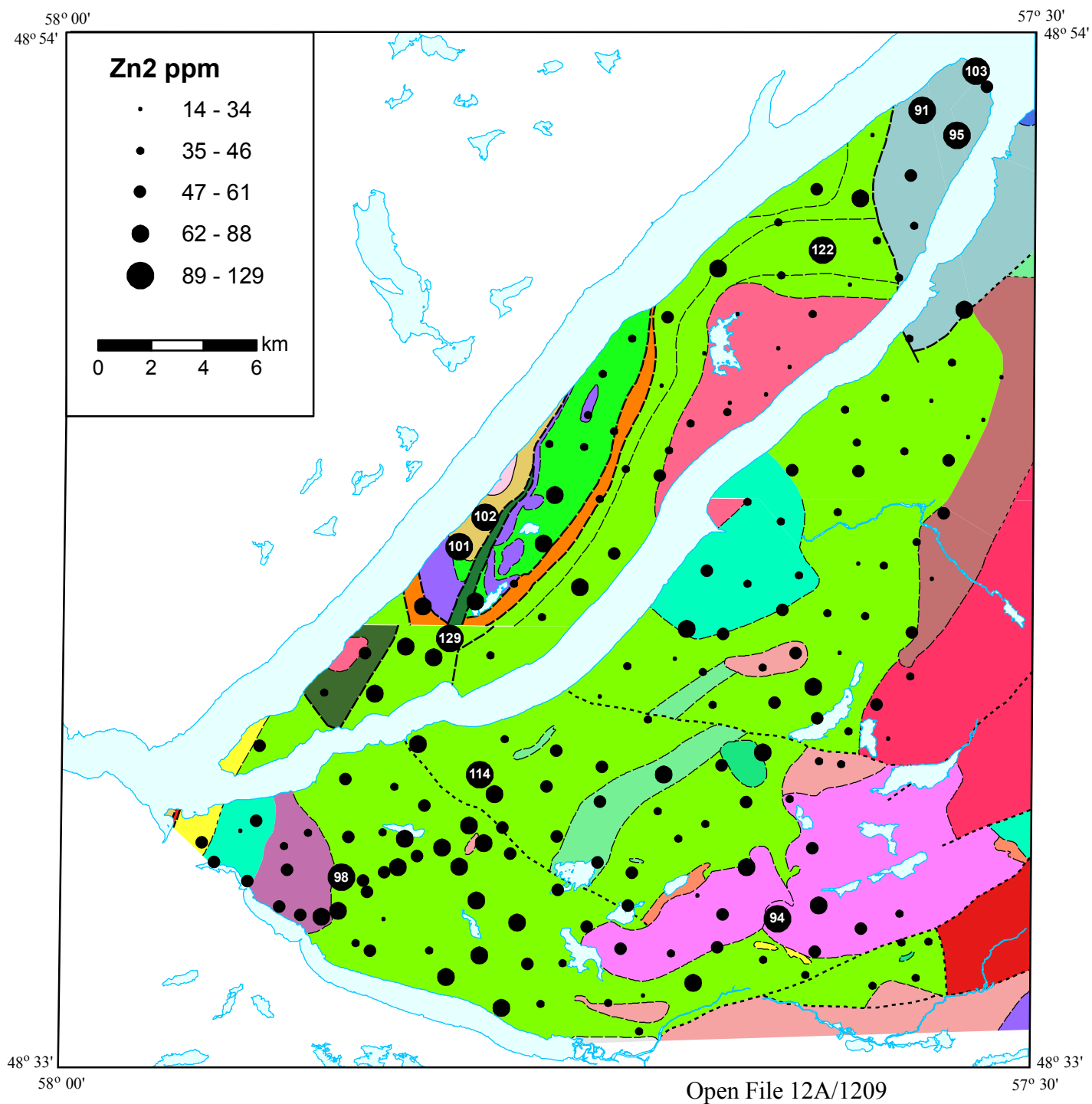
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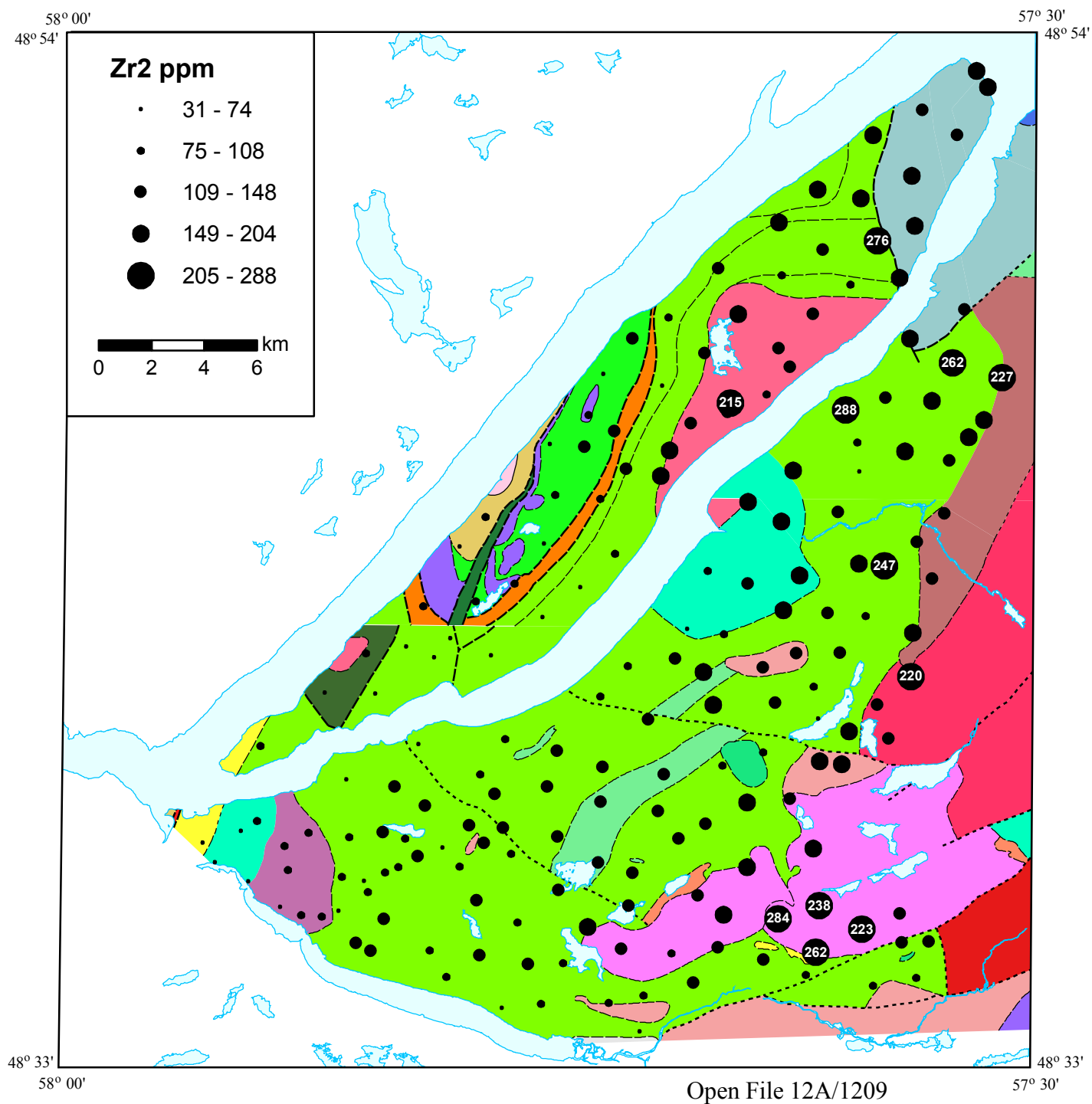
Distribution of ytterbium in till.



Distribution of yttrium in till.



Distribution of zinc in till.



Distribution of zirconium in till.