

HUMUS GEOCHEMICAL SURVEY

Sample Collection

Humus samples were collected from beneath the moss mat that was normally removed prior to digging the till sample pit. Where the humus layer was too thin or had become contaminated with inorganic sediment during the course of digging, the sample site was moved to a suitable location 5-10 m away from the till hole. The humus collected from these sites was generally moderately to well humified and had a fine grained, sooty consistency. Care was taken not to include inorganic material with this sample type. Enough humus was collected to fill a large ZIPLOC freezer bag. At some locations, the humus was a dark brown colour and less humified. In burned areas, humus was collected as residual mats off of boulders or from low-lying areas or small gullies where the temperatures associated with the fire had not been sufficiently high so as to ash the humus. Duplicate samples were collected at approximately every tenth site.

Sample Preparation and Analysis

Humus samples were air dried at room temperature on disposable plastic plates in the laboratories of the Manitoba Geological Services Branch. After drying, the samples were sieved and the -80 mesh size fraction retained. This sample was forwarded to Activation Laboratories Ltd. (Ancaster, Ontario) for INA and ICP-AES analysis. The ICP-AES analysis at Activation Laboratories Ltd. is based on a four acid total digestion. A second portion of the -80 mesh humus sample was submitted to the laboratories of the Manitoba Geological Services Branch for the measurement of pH and conductivity. The pH and conductivity measurements were corrected and converted to H^+ and specific conductance using the formula of Govett (1976) and reproduced with examples in Govett *et al.*, (1984).

Geochemical analyses are listed in Appendix 1 (ICP-AES, H^+ , K and Hg) and 4 (INA). Analyses for duplicate pairs are given in Appendices 2 (ICP-AES, H^+ , K and Hg) and 6 (INA). Percentile bubble plots are given in Appendices 3 (ICP-AES, H^+ , K and Hg) and 5 (INA).

Results

Edmund Lake Belt

Despite somewhat lower contrast in the geochemical responses of humus samples from this belt, the positions of known gold mineralization and geochemically anomalous areas delineated by rock and b-horizon soil geochemical surveys are identified. One area where humus geochemistry did not reproduce rock and soil anomalies occurs at the deflection of the Wolf Bay Shear Zone (WBSZ). A 99th percentile value of 0.76% Mg is documented from this site; no other significant humus geochemical responses were identified.

The most significant multi-element, multi-sample high contrast anomalies occur in the general area of Little Stull Lake, including the Little Stull Lake gold deposits, and in the area south and east of the lake to the Manitoba-Ontario provincial border. The Little Stull Lake gold deposits are marked by 100th percentile responses for Br (63 ppm), Ni (72 ppm) and Ca (71%); a 99th percentile for U (8.8 ppm) and a 98th percentile As response (5 ppm) also occurs at these mineralized zones. The area just east of Ken Bay on Little Stull Lake is marked by significantly more anomalous responses than the known gold mineralization. This area is marked by 100th percentile values for Fe (3.86%), Cr (70 ppm), Hf (7 ppm), Rb (81 ppm), Sc (24 ppm), Th (13 ppm), Zn (200 ppm by INAA and 160 ppm by ICP-AES), REE (189.4 ppm), Ni (31 ppm), V (123 ppm), Ti (0.37%), Al (7.19%), K (1.73%) and Y (24 ppm). Cu (99th percentile at 46 ppm and 98th percentile at 40 ppm) and Co (98th percentile at 9 ppm) are also documented from this area. These responses may be attributed to the eastern extension of a previously unrecognized variably sheared and altered gabbro that contains a >1m thick sulphide zone situated on the north shore of Ken Bay (Corkery, 1997). Assay samples collected from this indicate low metal contents (T. Corkery, pers. comm.).

Southeast of the Little Stull Lake gold deposits along the WBSZ, a 100th percentile value for As (5.9 ppm), Zn (200 ppm) and Ba (570 ppm) are documented. West of the gold deposits the 100th percentile for REE (189.4 ppm), as well as the 99th and 98th percentiles for Ni (44 ppm and 25 ppm) respectively and Hf (6 ppm) as well as 99th percentiles for Co (10 ppm) and Y (20 ppm) are observed. The 98th percentile for Sr (130 ppm) occurs west of the northwest end of Little Stull Lake.

Southeast of Little Stull Lake in an area that has previously been defined as geochemically anomalous by rock and b-horizon soil surveys, multiple significant base metal responses in humus are documented. Probable lithologic and alteration-related 100th percentile responses are recorded for Ni (72 ppm by INAA and 31 ppm by ICP-AES), Mg (1.25%), Ca (7.1% as well as two 98th percentile values of 5.81%), K (1.73%), Y (24 ppm) and Sr (159 ppm). Ninety-ninth percentiles for Al (4.36% as well as a 98th percentile of 4.28%), REE (183.9 ppm), Rb (51 ppm plus a 98th percentile of 49 ppm), U (8.8 ppm) and Th (9.2 ppm and a 98th percentile of 6.9 ppm) are also recorded. Base metal signatures in the area are marked by 98th percentile values for Cu (40 ppm), Zn (117 ppm by INAA and 120 ppm by ICP-AES), Bi (7 ppm) as well as V (57 ppm), Mn (1564 ppm), Ti (0.19%) and Sc (8.3 ppm and a 95th percentile of 5 ppm).

Some interesting high contrast responses are localized at the margin of the Edmund Lake belt, southwest of Little Stull Lake. In this area, probable faulting and/or shearing at the volcanic-intrusive contact, is marked by 100th percentile responses for As (5.9 ppm and a 99th percentile of 5.5 ppm), Hg (445 ppb as well as 99th and 98th percentiles of 377 and 356 ppb, respectively), U (23 ppm), Sr (159 ppm) and Mn (2856 ppm). Ninety-eighth percentiles for Bi (7 ppm) and Ca (5.81%) are also present.

Humus geochemical results identify the peripheral area of the Margaret Lake granite intrusion as being

marked by numerous anomalous responses. The southern area of the intrusion is marked by 100th percentile values for Mo (7 ppm) and specific conductance (49 mhos cm⁻¹; water-extractable metal) and 98th percentiles for Cr (39 ppm), REE (155.2 ppm) and Ti (0.19%). North and northeast of the intrusion 100th percentile responses for specific conductance (49 mhos cm⁻¹), Rb (81 ppm) and Al (7.19%), 99th percentiles for K (1.16%), Ti (0.20% and a 0.19% 98th percentile), P (0.166%), V (62 ppm), Zn (128 ppm by INAA), Th (9.2 ppm), Sc (9.7 ppm) and Cr (44 ppm) are documented. A 98th percentile value for REE (155.2 ppm) is also present. The east end of the intrusion and related rocks is marked by a 100th percentile concentration for Zn (200 ppm by INAA and 160 ppm by ICP-AES) and Mn (2856 ppm). Scattered about the periphery of the intrusion are clusters of 98th, 95th and 90th percentiles for Pb (34, 26 and 23 ppm, respectively) and 98th and 95th percentiles for specific conductance (33.7 and 30.2, respectively). The area at the west end of Margaret Lake is also anomalous with a 100th percentile response for H⁺ (139.16 mhos cm⁻¹) and a 98th percentile for Pb (34 ppm). These responses reflect proximity to a magnetite-rich iron formation that outcrops in this area.

The Edmund Lake area at the western extremity of the belt is transected by the WBSZ and intruded by an earlier granitic intrusion in the central portion of the lake. This is the White House tonalite, a strongly foliated, fine to medium grained equigranular intrusion and a younger plagioclase porphyritic biotite tonalite (Corkery, 1997). Alteration of these units is restricted to epidotization of feldspars and biotite altered to chlorite. Humus geochemical responses from the Edmund Lake area includes the 100th percentile for Au (43 ppb) and P (0.183%), 98th percentile for U (6.2 ppm) and the 95th percentile for Cr (32 ppm), all of which occur on the west shore of the lake. The islands in the central portion of the lake are marked by a 100th percentile value for P (0.183%), 98th percentile for U (6.2 ppm) and H⁺ (85.1 ppb as well as a cluster of three 95th percentiles of 75.6 ppb). The east shore, in proximity to the WBSZ has a 99th percentile response for specific conductance (35.3 mhos cm⁻¹) and a 98th percentile for Zn (118 ppm). A 98th percentile response for Bi (7 ppm) is reported from the south portion of the lake.

Two final areas in the Edmund Lake greenstone belt are noteworthy for their moderately high contrast humus geochemical responses. These areas occur on Rorke Lake near the Manitoba-Ontario provincial boundary and on the west shore of Kistigan Lake. The north Rorke Lake area is marked by 100th percentiles for Cu (82 ppm – 2 responses), Co (21 ppm), Fe (3.86%) and V (123 ppm) and 99th percentile responses for Cr (44 ppm), Sc (9.7 ppm) and Hf (6 ppm). The Fe, V and Cr responses are probably attributable to an occurrence of high-Mg volcanic flows (komatiite?) documented on the north shore of Rorke Lake by Corkery (1997a). A deformation zone occurs to the north of this unit. The west shore of Kistigan Lake has 100th percentile values for Mg (1.25%) and Ti (0.37%) and 98th percentiles for Bi (7 ppm – 2 responses) and H⁺ (85.1 ppb). A 99th H⁺ response (87.1 ppb) occurs west of Kistigan Lake midway to Margaret Lake.

Sharpe Lake Belt

Significant humus geochemical responses were also obtained from sites within the Sharpe Lake belt that were previously deemed “anomalous” by rock and b-horizon soil surveys. Interestingly, exceptions appear to be the Twin Lakes area (site of the Twin Lakes and Seeber River gold deposits) and a very limited response on the west shore of Makataysip Lake where 98th percentile values for Cu (22 ppm) and specific conductance (30.86 mhos cm⁻¹) were obtained. The Makataysip Lake area is marked by a circular 6700nT aeromagnetic anomaly that has multiple rock and b-horizon soil geochemical responses associated with it.

The Monument Bay area contains multiple high contrast geochemical responses that are concentrated primarily at the north end of the lake, at or near the contact between the Oxford Lake Group volcanic on the north and the sedimentary subgroup on the south. This contact localizes gold mineralization at the Twin Lakes and Seeber River gold deposits and is undoubtedly faulted and/or sheared. The area is characterized by 100th percentile values for Pb (29 ppm), REE (169.4 ppm and a 98th percentile of 125.7 ppm), Rb (44 ppm) and two specific conductance responses of 47.39 mhos cm⁻¹ and 99th percentiles for Cu (26 ppm and a 98th percentile response of 22 ppm), Au (8 ppb), Ni (20 ppm), Bi (8 ppm – 3 responses and a 7 ppm 98th percentile), Mn (901 ppm) and Y (16 ppm). It is noteworthy that the Bi responses trend southwards to the Manitoba-Ontario provincial border from the north end of Monument Bay. Additionally, 98th percentile values for Zn (93 ppm by INA and 58 ppm by ICP-AES), Fe (1.58%), Cr (37 ppm), Co (7 ppm), Br (33 ppm), V (34 ppm), Hg (356 ppb), Th (6.5 ppm), and U (6.6 ppm and a 95th percentile of 4 ppm). The U response appears to track westward towards Twin Lakes along the volcanic-sedimentary contact. A 98th percentile response for Ni (72 ppm) is also noted from the south end of Monument Bay.

The area south of Monument Bay comprises another east-west geological contact that is probably faulted. The contact occurs at the south end of Monument Bay where Hayes River basalts (south) are in contact with Oxford Lake Group sedimentary rocks to the north. This contact and the Hayes River basalts to the south are marked by 100th percentile values for Ni (57 ppm), Co (27 ppm), Fe (3.6% and two 98th percentile responses of 1.58%), Sc (13 ppm and a 98th percentile of 4.8 ppm), V (111 ppm), Ti (0.46%), Al (5.09% and two 98th percentiles of 3.49%), Na (1.35%) and Mg (0.95% with 99th and 98th percentile values of 0.61 and 0.57%, respectively). Ninety-ninth percentile responses include Zn (61 ppm), Cu (26 ppm), Th (6.8 ppm), K (0.78%) and Hf (5 ppm). The 98th percentile responses documented from the area are Cr (37 ppm), Mn (680 ppm), Y (13 ppm) and H⁺ (79.2 ppb).

Despite the relative paucity of anomalous responses in proximity to the Twin Lakes area, south of the lakes, multiple high contrast responses are documented from samples collected over the Oxford Lake Group sedimentary rocks and their east-west contact with granitic intrusions at the southern margin of the belt. The southern margin of the belt is marked by a 100th percentile value for Ca (5.81%), a 99th percentile for Co (8

ppm) and a 98th percentile V response of 34 ppm. This modest geochemical response is significant in that it is suggestive of the need for more Fe-rich rocks, such as the Hayes River or Oxford Lake Group basalts, to react (reduce) with hydrothermal fluids that may be using the faulted contact as a plumbing system. Within the Oxford Lake Group sedimentary rocks, multiple responses are obtained but appear to be restricted to lithologically or structurally-related elements. These include 100th percentile values for K (1.22%), Sr (182 ppm), Na (1.35% and 99th and 98th percentiles of 0.94 and 0.9%, respectively), REE (169.4 ppm), Hf (6 ppm) and H⁺ (123.9 ppb). Ni responses may be indicative of a mineralized zone or of a high-Mg lithology. It is measured as a 100th, 99th and 98th percentile (89, 75 and 72 ppm, respectively) in this area. Ninety-ninth and 98th percentiles are also present for Ba (2 responses, 400 ppm), Rb (38 ppm) and Ti (0.19%), U (6.8 ppm) and Sc (4.8 ppm), respectively. West of the south end of Twin Lakes is a 99th percentile response for Y (16 ppm). A 99th percentile for P (0.186%) and a 98th percentile for Mn (680 ppm) are noted mid-way to southern Makataysip Lake.

The area south of Makataysip Lake is marked by two geological contacts. West and south of the lakeshore in the Oxford Lake Group sedimentary rock contact with Hayes River basalts. Further south is the contact of the Hayes River basalts and the granitic intrusive rocks. The southernmost Hayes River basalt/granite contact just west of the south end of Makataysip Lake is marked by 100th percentile values for Ni (57 ppm), Ti (0.46%), Al (5.09%), Y (24 ppm), Mn (2065) and H⁺ (123.9 ppb and a 98th percentile of (79.2 ppb). A 99th percentile for V (75 ppm) and a 95th percentile for Pb (22 ppm) also characterize this area. In the area immediately south of Makataysip Lake, which includes the sediment-volcanic rock contact 100th percentile values for Au (28 ppb and a 99th percentile of 8 ppb), As (1300 ppm and 99th and 98th percentile values of 38 ppm and 7.7 ppm, respectively) are documented. The 1300 ppm analysis represents the highest As measured in humus in the 1997 survey. Additional 100th percentiles include Co (27 ppm), Cr (50 ppm and a 99th percentile of 40 ppm), Fe (3.6%), Sc (13 ppm), Th (13 ppm), Ca (5.81% and a 99th percentile of 5.65%) and Cu (130 ppm). Ninety-ninth percentile responses for REE (129.7 ppm) and Ba (37 ppm and a 98th percentile of 33 ppm) and 98th percentiles for Mo (2 responses, 9 ppm), Na (0.94%) and Hf (4 ppm) are also documented. A 99th percentile for H⁺ (85.1 ppb) occurs east of the south end of Makataysip Lake as well as a 100th percentile response for Ba (63 ppm). West of the south end of the lake, a 99th percentile value for REE (129.7 ppm) and a 98th percentile for Na (0.94%) are documented. The area west of Makataysip Lake is geologically characterized by Hayes River basaltic and chemical sedimentary rocks.

The east Sharpe Lake area contains 100th percentile values for Hg (445 ppb and 99th and 98th percentiles of 377 and 356, respectively), U (15 ppm), P (0.207%) and Rb (44 ppm). A 99th percentile response of 10 ppm for Mo and 98th percentiles for Zn (93 ppm) and Pb (22 ppm) are also documented.

The west-central portion of Sharpe Lake, including southern Webber Lake is marked by moderate to high contrast base and precious metal anomalies. One hundredth percentile values for Mo (19 ppm and a 98th

percentile of 9 ppm), U (15 ppm), Zn (2 responses at 167 ppm and a 98th percentile of 93 ppm), Pb (29 ppm), Mn (2065 ppm), P (0.207%), Mg (0.95%), Ba (430 ppm and a 98th percentile of 350 ppm), Br (47 ppm) and K (1.22%) are documented. The 99th percentile responses include Fe (1.9%), Cr (40 ppm), As (38 ppm), Sc (5.4 ppm) and specific conductance (32.66 mhos cm⁻¹). Ninety-eight percentile values were obtained for REE (125.7 ppm), Na (0.9%) and Ni (72 ppm). A 100th percentile for Al (4.13%) and Sr (182 ppm) were obtained from samples south of Webber Lake.

The small area of greenstone centered on Barclay Lake and marked by a small aeromagnetic anomaly on its west shore is characterized by a 99th percentile response for Mo (10 ppm) southwest of the lake. Ninety-eighth percentile values for U (6.6 ppm) and Zn (93 ppm) were also documented. The area of the aeromagnetic response is characterized by weakly mineralized (1% pyrite) carbonate-altered and locally epidotized diorite.

Synthesis

Humus geochemical survey results for the Edmund Lake and Sharpe Lake greenstone belts have successfully identified regional metallogenetic features associated with known structural, lithological and stratigraphic associations for both base and precious metals. The WBSZ in the Edmund Lake belt is confirmed as a highly prospective precious metal target. Its importance is demonstrated by the fact that out of 9 Au analyses (INAA) above the lower limit of detection in humus samples collected over the Edmund Lake belt, 7 of these were from samples collected over the WBSZ. The 100th percentile response for Au (43 ppb) in the belt occurs at the west end of the WBSZ at Edmund Lake, while the Little Stull Lake gold deposits are situated within the eastern portions of this regional structural feature. These gold deposits have high contrast, multi-element and multi-sample humus geochemical responses. The area east and south of the gold mineralization is identified as a high priority area for exploration follow-up based on multiple geochemical anomalies revealed by the humus survey. Of some interest is the apparent lack of geochemical response in humus samples collected in proximity to the WBSZ deflection. Rock and b-horizon soil samples collected in the area of the deflection illustrated base and precious metal responses. The observation of multiple geochemical responses peripheral to the Margaret Lake granite intrusion in rock and b-horizon soil samples is re-confirmed by the humus survey results, including an obvious pattern of elevated specific conductance in samples from the vicinity of the contact between the mineralized granite intrusion and basaltic country rocks.

The coincidence between a possible komatiite occurrence on the north shore of Rorke Lake and the coincident anomalies for Cu, Co, Fe, V, and Cr indicate the successful recognition of “unique” lithologies by the sampling media. The gold mineralization at Ken Bay (Little Stull Lake) in association with altered gabbros would be another example of the positive correlation between humus geochemistry and unique lithologies.

The results of the humus geochemical survey in the Sharpe Lake belt has been equally successful with one exception. This is the absence of any significant geochemical response in association with the Twin Lakes and Seeber River gold deposits. It is curious that the Oxford Lake Group sediment-volcanic contact that localizes the gold mineralization in the Twin Lakes area is highly geochemically anomalous between Twin Lakes and Monument Bay but geochemically “flat” over the deposits. The sheared and altered contact, however, is pinpointed as a highly prospective exploration target as is the Oxford Lake Group sedimentary subgroup – Hayes River basalt contact south of Monument Bay and west to Makataysip Lake. In fact, the geochemical responses from the Makataysip Lake area (including a 1300 ppm As analysis) are amongst the most significant in rock, till, b-horizon soil and humus surveys conducted in 1997. Conversely, the Oxford Lake Group sedimentary – granite contact at the southern margin of the Sharpe Lake belt has few commodity-related responses. It is postulated that the absence of Fe-rich rocks (basalt/iron formation) at this sheared contact precludes hydrothermal mineralization. This contact with Hayes River basalts to the east and west is marked by multiple geochemical responses.

The western portion of the Sharpe Lake belt is inferred to have a somewhat different metallogenetic signature based on the humus geochemical survey results. In this part of the belt, base metal and U-REE signatures appear to predominate over those for precious metals, although this may simply be a function of sample distribution. A U-REE-Sb association has been documented in humus samples collected in proximity to a bleached, fractured, pyritic and yellow stained felsic intrusions that occur on the north shore of central Sharpe Lake. These highly altered are exposed over 4-5 km in an east-west zone exposed by intense forest fires. Platinum group element analyses should be undertaken on these samples.

Despite its small areal distribution the greenstone outlier at Barclay Lake should be examined closely on the basis of its circular aeromagnetic anomaly on the west shore, the altered mafic intrusive rocks exposed sporadically along the lakeshore and its Mo, U and Zn geochemical responses.

Conclusions

The results of this humus geochemical survey in the Edmund Lake and Sharpe Lake greenstone belts indicate the following:

- 1) humus geochemical surveys undertaken at approximately 1 km sample spacing have successfully delineated known gold deposits and their associated stratigraphic structural rock “packages”;
- 2) the exceptions to 1) are the Twin Lakes and Seeber River gold deposits;

- 3) regional metallogenetic features such as the WBSZ and Oxford Lake Group sediment – volcanic contact are identified as highly prospective targets for precious metals;
- 4) the area south and west of Makataysip Lake displays exceptional geochemical relief in terms of the high contrast, multi-element and multi-sample of the anomalies;
- 5) geochemical anomalies peripheral to the Margaret Lake intrusion are established on the basis of humus geochemistry, particularly water-extractable metals as measured by specific conductance;
- 6) elevated specific conductance measurements usually coincide with elevated metal contents in humus;
- 7) an U-REE-Sb association in highly altered felsic intrusions exposed as a result of an intense forest fire in central Sharpe Lake is recognized and analysis of samples from this zone for platinum group elements is warranted.

Appendix 1

Humus Geochemistry: Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES), Hydrogen Ion (H⁺), Specific Conductance (K) and Hg (FIMS) Analyses.

Sample Site	UTM		Cu	Pb	Zn	Ni	Mn	Sr	Bi	V	Ca	P	Mg	Ti	Al	K
	EAST	NORTH	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%
97H-2	520028	6046856	7	23.0	41	5	127	138	5.0	14	0.74	0.090	0.16	0.05	1.41	0.35
97H-4	523123	6047360	6	2.5	33	3	290	25	2.5	4	0.86	0.093	0.07	0.01	0.28	0.15
97H-6	518401	6043035	5	16.0	28	4	161	53	2.5	10	0.42	0.039	0.09	0.04	1.08	0.23
97H-7	517331	6040220	8	21.0	41	8	1504	39	2.5	16	1.44	0.083	0.17	0.08	1.22	0.30
97H-8	524367	6055073	6	19.0	32	4	171	25	6.0	8	0.88	0.114	0.08	0.03	0.56	0.19
97H-9	524733	6056170	3	10.0	15	3	20	15	5.0	5	0.36	0.071	0.05	0.04	0.36	0.12
97H-10	525113	6057420	24	17.0	32	11	84	91	2.5	23	1.25	0.158	0.22	0.16	2.91	0.87
97H-11	522988	6055725	4	13.0	17	4	64	29	2.5	8	0.26	0.059	0.06	0.04	0.68	0.23
97H-12	519560	6055914	6	13.0	29	5	76	76	7.0	17	0.86	0.047	0.17	0.10	2.08	0.60
97H-13	520245	6058104	5	17.0	25	6	60	56	2.5	13	0.66	0.054	0.12	0.08	1.45	0.44
97H-14	511198	6058043	3	7.0	6	4	39	24	2.5	5	0.34	0.035	0.05	0.03	0.70	0.16
97H-15	502125	6054351	9	17.0	16	7	1564	31	2.5	8	1.72	0.126	0.15	0.03	0.68	0.25
97H-16	501813	6056254	5	18.0	32	6	889	29	2.5	10	0.95	0.099	0.11	0.04	0.81	0.28
97H-17	501778	6057331	7	17.0	23	6	191	21	2.5	8	0.65	0.104	0.10	0.03	0.60	0.23
97H-18	502316	6058450	15	21.0	50	7	583	58	2.5	13	0.98	0.116	0.12	0.08	1.35	0.36
97H-19	503981	6058302	8	19.0	48	7	357	28	2.5	11	1.22	0.070	0.16	0.04	0.90	0.29
97H-20	504550	6057806	7	14.0	12	5	57	23	2.5	7	0.94	0.086	0.10	0.03	0.58	0.20
97H-22	509841	6054884	7	9.0	19	5	61	66	2.5	13	1.44	0.042	0.16	0.08	1.66	0.47
97H-23	509948	6053778	6	22.0	14	4	30	26	2.5	9	1.12	0.046	0.08	0.03	0.75	0.19
97H-24	509040	6054136	14	22.0	32	6	234	30	2.5	22	0.77	0.089	0.22	0.09	1.21	0.25
97H-25	509160	6053238	8	2.5	4	3	53	34	2.5	5	3.41	0.040	0.14	0.02	0.81	0.10
97H-27	503212	6061166	9	14.0	160	9	2010	43	2.5	11	1.91	0.116	0.16	0.05	0.93	0.41
97H-28	500798	6058006	13	23.0	41	10	362	86	2.5	25	1.72	0.053	0.23	0.14	2.49	0.67
97H-29	500018	6058670	6	20.0	30	6	277	33	2.5	12	1.10	0.081	0.14	0.05	0.99	0.36
97H-30	498526	6059429	7	19.0	28	6	191	30	2.5	10	1.20	0.074	0.13	0.04	0.83	0.28
97H-31	494124	6062419	14	34.0	44	9	575	63	2.5	17	1.42	0.152	0.17	0.08	1.79	0.52
97H-32	495219	6061599	7	15.0	49	6	697	30	2.5	7	1.40	0.126	0.12	0.03	0.62	0.25
97H-33	502168	6064279	4	16.0	20	4	34	21	2.5	7	0.37	0.080	0.08	0.03	0.60	0.19
97H-34	519499	6053552	3	12.0	25	3	74	21	2.5	5	0.43	0.079	0.07	0.02	0.32	0.21
97H-35	517033	6052297	8	2.5	26	6	94	64	2.5	15	3.20	0.065	0.27	0.07	1.43	0.35
97H-36	514597	6053054	3	12.0	21	3	38	20	2.5	6	0.61	0.064	0.07	0.02	0.43	0.18
97H-37	512445	6053053	7	15.0	15	4	34	13	2.5	6	0.41	0.063	0.06	0.03	0.40	0.17
97H-38	511021	6053344	5	2.5	8	3	58	40	2.5	7	2.75	0.031	0.24	0.04	1.02	0.22
97H-39	508748	6056431	5	14.0	35	6	315	35	2.5	10	0.74	0.080	0.09	0.05	0.96	0.29
97H-40	506940	6057166	4	11.0	14	2	222	14	2.5	4	0.42	0.060	0.06	0.02	0.29	0.10
97H-41	507184	6058780	4	6.0	23	2	66	22	2.5	5	0.34	0.039	0.05	0.02	0.38	0.16
97H-42	508372	6058594	4	8.0	8	2	21	14	2.5	3	0.48	0.043	0.02	0.01	0.35	0.06
97H-43	504203	6061045	6	16.0	13	7	105	25	2.5	8	1.19	0.111	0.13	0.03	0.67	0.20
97H-44	503423	6060019	18	24.0	23	12	1066	68	2.5	22	3.40	0.077	0.37	0.09	2.20	0.59
97H-45	501781	6059766	10	18.0	100	6	1315	30	2.5	5	2.26	0.119	0.10	0.02	0.43	0.20
97H-46	499940	6063989	6	7.0	57	5	914	42	2.5	4	2.10	0.108	0.14	0.02	0.35	0.17
97H-47	507524	6062152	4	12.0	33	3	221	19	2.5	6	0.65	0.068	0.06	0.03	0.53	0.19
97H-48	505621	6063322	29	28.0	57	17	599	70	2.5	62	3.00	0.166	0.59	0.20	2.84	0.53
97H-49	505397	6061922	3	2.5	12	2	90	25	2.5	3	1.76	0.036	0.11	0.01	0.41	0.09
97H-50	505247	6059379	9	19.0	31	4	78	29	2.5	8	1.40	0.076	0.11	0.03	0.58	0.19
97H-51	504271	6063350	10	21.0	22	6	446	45	2.5	11	3.30	0.079	0.29	0.05	1.09	0.32
97H-52	504799	6056393	12	15.0	31	7	552	43	2.5	11	2.55	0.067	0.22	0.04	0.96	0.24
97H-53	504700	6054812	4	16.0	26	4	180	20	2.5	6	0.48	0.062	0.08	0.03	0.54	0.19
97H-54	486916	6066031	4	11.0	15	3	45	71	2.5	8	0.72	0.046	0.09	0.04	1.36	0.35
97H-55	485756	6066892	9	19.0	51	6	197	51	2.5	12	1.20	0.120	0.12	0.05	1.11	0.40
97H-56	485088	6068682	5	11.0	15	3	116	25	2.5	6	1.09	0.072	0.07	0.03	0.56	0.15
97H-57	485524	6066062	3	2.5	12	2	62	6	2.5	2	0.18	0.016	0.01	0.01	0.09	0.04
97H-58	485360	6065468	12	20.0	83	9	1195	38	2.5	12	2.06	0.152	0.21	0.04	1.15	0.29
97H-59	500719	6060166	10	26.0	18	8	118	37	2.5	11	0.86	0.075	0.10	0.05	0.98	0.25
97H-60	499348	6060438	18	22.0	40	12	115	103	2.5	29	0.86	0.059	0.21	0.17	3.15	0.70
97H-61	497206	6060852	7	11.0	16	4	216	24	2.5	8	1.28	0.020	0.13	0.03	0.93	0.20
97H-62	496583	6059870	10	23.0	20	5	30	30	2.5	8	0.38	0.059	0.05	0.05	0.95	0.18
97H-63	495649	6062459	3	3.8	3	2	16	8	2.5	2	1.08	0.015	0.04	0.01	0.11	0.03
97H-64	495880	6064914	8	9.0	10	4	339	33	2.5	7	1.57	0.029	0.12	0.03	1.06	0.18
97H-65	498817	6064616	14	12.0	37	15	363	124	2.5	40	2.82	0.063	0.51	0.19	4.55	1.16
97H-66	491433	6062854	9	25.0	19	7	408	70	2.5	14	1.38	0.047	0.16	0.08	1.74	0.45

Sample Site	UTM		Cu	Pb	Zn	Ni	Mn	Sr	Bi	V	Ca	P	Mg	Ti	Al	K
	EAST	NORTH	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%
97H-67	491159	6063714	5	15.0	22	4	35	17	2.5	6	0.28	0.044	0.06	0.03	0.47	0.12
97H-68	492958	6064176	5	11.0	13	2	34	20	2.5	6	0.42	0.052	0.05	0.02	0.47	0.14
97H-69	494161	6064535	6	14.0	18	4	213	24	2.5	7	1.68	0.037	0.12	0.03	0.94	0.15
97H-70	492821	6062333	7	12.0	19	3	29	18	2.5	6	0.65	0.059	0.08	0.02	0.51	0.15
97H-71	518287	6046419	10	18.0	31	10	361	88	2.5	24	4.52	0.091	0.40	0.11	2.54	0.69
97H-72	518901	6044811	19	27.0	70	10	707	106	2.5	20	2.32	0.113	0.29	0.09	1.89	0.51
97H-73	520311	6044617	11	2.5	11	6	42	58	2.5	13	3.41	0.047	0.22	0.06	1.72	0.22
97H-74	521245	6042332	46	37.0	76	31	309	130	2.5	70	1.73	0.160	0.65	0.34	7.19	1.73
97H-75	520867	6044001	26	34.0	58	12	1190	56	2.5	28	3.12	0.155	0.34	0.09	2.00	0.36
97H-76	522120	6041844	8	7.0	35	2	477	32	2.5	5	3.36	0.083	0.14	0.02	0.43	0.09
97H-77	524950	6041844	32	25.0	27	16	1323	89	2.5	28	2.95	0.109	0.34	0.13	2.73	0.64
97H-78	522282	6036707	14	2.5	7	6	34	68	2.5	11	4.55	0.062	0.21	0.04	0.96	0.12
97H-79	523264	6036507	6	10.0	20	3	54	21	2.5	4	1.85	0.050	0.08	0.02	0.29	0.10
97H-80	522574	6036479	6	7.0	16	2	50	22	2.5	3	1.90	0.068	0.08	0.01	0.32	0.09
97H-81	519985	6039050	17	9.0	31	15	229	150	2.5	35	4.39	0.062	0.88	0.18	4.36	1.33
97H-82	521310	6040504	30	26.0	118	18	685	100	2.5	29	5.39	0.136	0.52	0.12	2.86	0.77
97H-83	521313	6039495	14	23.0	120	6	1543	37	2.5	6	3.55	0.091	0.19	0.02	0.54	0.15
97H-84	521039	6038827	23	7.0	12	10	135	78	2.5	25	5.81	0.080	0.33	0.09	1.78	0.38
97H-85	521819	6038559	39	51.0	104	23	712	98	2.5	23	1.51	0.137	0.23	0.13	2.45	0.60
97H-86	523226	6037995	14	17.0	45	6	526	49	2.5	9	3.60	0.107	0.23	0.03	0.74	0.19
97H-87	520938	6037469	40	17.0	45	24	574	78	2.5	47	3.59	0.148	0.57	0.17	4.01	0.76
97H-88	520527	6041691	22	9.0	29	14	357	70	2.5	21	3.86	0.079	0.34	0.09	2.07	0.45
97H-89	523975	6039555	33	9.0	19	13	368	55	7.0	7	4.68	0.090	0.23	0.02	0.62	0.11
97H-90	523174	6042220	21	33.0	136	6	710	44	2.5	10	3.90	0.114	0.24	0.04	0.84	0.22
97H-91	518535	6038263	14	22.0	22	7	99	35	2.5	11	1.84	0.133	0.18	0.04	0.98	0.26
97H-92	520156	6037478	12	8.0	18	7	1844	55	7.0	11	4.19	0.087	0.25	0.05	1.13	0.26
97H-93	520504	6036253	8	12.0	38	3	120	46	2.5	8	1.97	0.071	0.14	0.03	0.64	0.16
97H-94	522084	6035823	7	6.0	16	5	210	55	2.5	10	4.02	0.070	0.25	0.04	1.15	0.25
97H-95	519219	6039836	2	2.5	7	2	7	6	2.5	2	0.47	0.012	0.03	0.01	0.08	0.02
97H-96	516558	6040903	14	15.0	46	7	171	69	2.5	15	1.63	0.040	0.21	0.08	2.25	0.43
97H-97	516780	6043256	10	19.0	49	5	157	47	2.5	8	3.58	0.066	0.26	0.03	0.66	0.15
97H-98	517540	6044424	19	7.0	26	13	280	79	2.5	24	5.39	0.075	0.41	0.10	2.32	0.49
97H-99	517575	6045717	9	2.5	11	3	256	90	2.5	6	6.78	0.064	0.32	0.02	0.54	0.11
97H-100	516705	6045308	10	6.0	39	6	233	77	2.5	12	5.56	0.064	0.29	0.05	1.23	0.28
97H-101	518918	6036134	15	6.0	15	6	260	79	2.5	12	7.10	0.073	0.26	0.05	1.19	0.27
97H-102	527707	6043021	5	12.0	68	2	249	37	2.5	6	2.12	0.080	0.13	0.03	0.50	0.13
97H-103	528252	6043105	19	6.0	16	11	170	86	2.5	20	5.53	0.085	0.37	0.08	1.70	0.39
97H-104	527779	6044102	4	14.0	27	3	48	26	2.5	6	1.63	0.075	0.12	0.02	0.42	0.15
97H-105	525805	6044636	3	2.5	24	2	93	24	2.5	3	1.80	0.075	0.14	0.01	0.12	0.06
97H-106	529083	6046462	4	11.0	16	2	21	30	2.5	6	2.33	0.059	0.16	0.02	0.36	0.13
97H-107	528059	6047170	7	2.5	8	4	73	54	2.5	10	5.10	0.076	0.22	0.03	0.54	0.12
97H-108	522025	6044072	3	8.0	15	2	34	13	2.5	5	0.48	0.055	0.09	0.02	0.33	0.19
97H-109	532452	6050373	53	17.0	98	23	736	116	2.5	123	3.12	0.140	1.25	0.37	4.28	0.66
97H-110	531121	6050631	82	11.0	12	8	86	41	2.5	8	2.91	0.088	0.16	0.02	0.65	0.10
97H-111	527183	6049725	3	2.5	12	2	34	9	2.5	3	0.40	0.020	0.03	0.01	0.15	0.04
97H-112	524659	6049276	5	14.0	23	3	220	18	2.5	5	1.14	0.087	0.06	0.01	0.27	0.09
97H-113	525825	6049073	4	11.0	21	2	97	12	2.5	5	0.38	0.077	0.06	0.02	0.31	0.16
97H-114	522154	6047887	18	8.0	25	15	350	94	2.5	31	4.87	0.069	0.45	0.12	2.71	0.82
97H-115	476770	6068319	12	8.0	17	10	326	104	2.5	21	4.13	0.082	0.45	0.11	2.42	0.71
97H-116	476939	6067881	22	14.0	26	11	750	66	2.5	18	3.68	0.179	0.34	0.09	1.93	0.53
97H-117	476804	6064944	8	17.0	17	9	364	62	2.5	17	2.81	0.114	0.28	0.06	1.34	0.38
97H-118	476238	6065100	15	22.0	20	11	244	74	2.5	20	3.40	0.065	0.35	0.09	1.98	0.54
97H-119	477063	6066473	10	16.0	27	15	461	130	2.5	36	1.91	0.164	0.42	0.13	3.51	0.94
97H-120	478086	6066782	5	9.0	16	4	48	55	2.5	12	0.72	0.065	0.10	0.06	1.28	0.36
97H-121	484469	6064950	5	13.0	20	8	107	55	2.5	14	0.77	0.054	0.20	0.06	1.47	0.43
97H-122	483447	6064669	5	15.0	11	5	32	42	7.0	12	0.78	0.060	0.10	0.06	0.98	0.24
97H-123	480778	6065799	8	15.0	23	10	136	52	2.5	20	2.23	0.082	0.33	0.07	1.56	0.38
97H-124	481778	6066491	7	7.0	14	3	40	48	2.5	10	0.61	0.050	0.09	0.07	1.02	0.30
97H-125	480838	6068726	12	9.0	19	7	57	69	2.5	15	1.39	0.082	0.20	0.08	1.54	0.43
97H-126	480508	6066960	10	16.0	17	12	483	73	2.5	19	3.31	0.183	0.34	0.06	1.72	0.42
97H-127	512649	6046145	3	8.0	15	3	255	36	2.5	9	1.48	0.074	0.08	0.03	0.61	0.15
97H-128	512908	6048360	2	2.5	18	2	11	10	2.5	2	0.17	0.016	0.03	0.01	0.07	0.01
97H-129	514002	6047001	4	11.0	31	2	495	27	2.5	6	1.66	0.051	0.12	0.02	0.49	0.07
97H-130	514803	6046016	13	2.5	25	10	73	73	2.5	26	3.58	0.060	0.32	0.11	2.55	0.49
97H-131	515458	6047081	25	19.0	41	16	1307	59	2.5	23	2.88	0.112	0.29	0.08	2.24	0.31
97H-132	513910	6049816	11	21.0	21	9	71	38	2.5	22	0.76	0.104	0.21	0.08	1.62	0.31
97H-133	514916	6050947	3	10.0	10	2	72	24	2.5	3	0.47	0.048	0.04	0.02	0.24	0.06
97H-134	513021	6050137	10	19.0	30	7	355	123	2.5	19	2.75	0.051	0.25	0.12	2.68	0.84
97H-135	513049	6050683	2	5.0	6	2	7	7	2.5	2	0.46	0.015	0.03	0.01	0.14	0.05
97H-136	513377	6052104	13	11.0	21	11	312	68	2.5	18	4.32	0.071	0.35	0.08	1.88	0.46

Sample Site	UTM		Cu	Pb	Zn	Ni	Mn	Sr	Bi	V	Ca	P	Mg	Ti	Al	K
	EAST	NORTH	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%
97H-137	515612	6054401	8	8.0	10	4	29	34	2.5	5	2.84	0.067	0.17	0.02	0.39	0.11
97H-138	513788	6053203	11	13.0	20	8	150	80	2.5	18	4.01	0.066	0.27	0.09	2.02	0.55
97H-139	512201	6047079	14	10.0	76	15	2856	159	2.5	32	4.50	0.084	0.53	0.16	4.00	1.15
97H-140	510561	6051207	33	22.0	35	21	506	105	2.5	57	3.07	0.063	0.76	0.19	4.09	0.56
97H-141	509638	6050746	8	8.0	12	6	483	31	2.5	12	2.23	0.044	0.17	0.04	1.18	0.22
97H-142	508624	6051341	5	12.0	25	4	278	47	2.5	7	4.12	0.071	0.23	0.03	0.55	0.16
97H-143	503707	6055102	8	18.0	30	5	84	21	3.8	8	0.71	0.072	0.10	0.03	0.56	0.16
97H-144	505932	6054078	2	2.5	3	2	59	28	6.0	2	1.46	0.019	0.08	0.01	0.25	0.02
97H-145	506193	6051607	8	2.5	7	5	68	68	2.5	12	3.91	0.045	0.26	0.04	1.19	0.17
97H-146	514730	6044196	3	7.0	9	3	248	35	2.5	2	1.38	0.063	0.05	0.01	0.19	0.05
97H-147	515949	6041823	7	2.5	6	3	37	33	6.0	6	3.18	0.037	0.16	0.03	0.87	0.14
97H-148	515048	6043031	10	2.5	15	8	140	74	2.5	19	5.03	0.067	0.27	0.08	1.72	0.41
97H-149	514154	6044555	17	10.0	14	8	268	114	2.5	14	5.86	0.086	0.40	0.05	1.04	0.26
97H-150	517486	6033988	26	22.0	46	11	557	73	6.0	15	4.84	0.070	0.25	0.07	1.69	0.43
97H-151	517522	6032623	12	17.0	16	9	901	53	2.5	13	2.53	0.087	0.21	0.05	1.39	0.33
97H-152	517917	6030851	9	19.0	17	6	142	38	8.0	6	3.43	0.061	0.19	0.02	0.76	0.11
97H-153	517089	6028676	4	13.0	49	4	53	29	7.0	8	1.27	0.089	0.11	0.03	0.57	0.17
97H-154	516412	6032166	5	18.0	15	6	57	36	5.0	14	2.00	0.082	0.22	0.05	1.11	0.31
97H-155	512777	6028202	5	20.0	21	5	119	13	2.5	5	0.37	0.073	0.04	0.02	0.37	0.17
97H-156	514874	6028199	9	5.0	18	7	45	37	6.0	13	1.12	0.041	0.14	0.08	1.69	0.35
97H-157	514218	6029291	4	18.0	12	4	8	13	5.0	2	0.16	0.033	0.02	0.01	0.22	0.08
97H-158	513703	6027484	9	16.0	34	8	79	42	4.3	19	0.74	0.076	0.15	0.09	1.71	0.46
97H-159	512845	6033996	17	20.0	23	10	348	83	2.5	20	4.91	0.079	0.39	0.07	1.41	0.39
97H-160	495421	6033104	4	10.0	21	4	169	36	5.0	6	2.32	0.061	0.14	0.03	0.62	0.20
97H-161	494348	6031542	7	15.0	21	6	127	33	5.0	8	1.15	0.087	0.13	0.03	0.67	0.24
97H-162	494356	6030881	6	11.0	15	5	61	53	2.5	13	0.68	0.049	0.09	0.06	1.49	0.23
97H-163	514501	6026145	23	12.0	61	43	680	130	8.0	111	3.32	0.065	0.95	0.46	5.09	0.57
97H-164	513589	6026247	17	22.0	33	19	608	66	6.0	34	4.22	0.072	0.61	0.12	2.86	0.67
97H-165	512599	6026335	12	11.0	28	14	184	97	8.0	26	4.14	0.055	0.51	0.11	2.57	0.75
97H-166	511598	6026204	16	9.0	25	13	291	102	6.0	27	5.34	0.071	0.47	0.12	2.79	0.78
97H-167	513297	6027660	6	12.0	12	5	207	43	2.5	11	2.28	0.051	0.23	0.05	1.16	0.20
97H-168	512386	6027803	4	6.0	14	2	13	19	2.5	5	0.80	0.052	0.13	0.02	0.31	0.09
97H-169	501038	6027746	17	7.0	31	19	312	95	2.5	30	4.36	0.072	0.49	0.14	2.96	0.75
97H-170	515084	6033390	21	26.0	35	20	426	67	2.5	32	2.71	0.081	0.45	0.12	2.74	0.70
97H-171	516472	6033483	8	28.0	54	7	326	35	2.5	13	1.28	0.161	0.15	0.05	0.99	0.38
97H-172	513930	6032694	9	13.0	11	6	164	62	2.5	13	4.64	0.100	0.26	0.04	0.94	0.26
97H-173	511989	6032692	3	2.5	2	2	13	56	2.5	4	2.45	0.016	0.11	0.01	0.44	0.03
97H-174	509849	6029481	9	9.0	34	10	379	71	2.5	20	4.46	0.070	0.44	0.06	1.59	0.36
97H-175	508028	6029647	5	2.5	15	3	105	83	2.5	6	5.75	0.065	0.27	0.01	0.33	0.06
97H-176	507855	6030497	4	12.0	21	4	58	43	2.5	11	0.46	0.066	0.10	0.05	1.05	0.33
97H-177	505523	6031030	9	16.0	35	7	256	161	2.5	29	1.81	0.053	0.24	0.17	3.49	0.91
97H-178	508908	6028815	4	5.0	11	2	91	34	2.5	6	1.76	0.054	0.09	0.03	0.81	0.16
97H-179	511145	6030626	13	12.0	25	11	480	58	2.5	17	4.18	0.099	0.35	0.05	1.34	0.32
97H-180	511087	6033247	2	2.5	4	2	9	15	2.5	2	0.89	0.010	0.05	0.01	0.07	0.01
97H-181	510327	6032208	16	17.0	26	11	383	110	2.5	24	3.46	0.119	0.38	0.09	2.41	0.75
97H-182	513479	6031215	12	2.5	17	7	94	144	2.5	18	5.04	0.075	0.38	0.09	1.90	0.41
97H-183	502520	6029633	14	5.8	10	6	139	39	2.5	7	3.46	0.070	0.15	0.02	0.60	0.08
97H-184	521348	6034014	4	2.5	12	2	90	23	2.5	4	2.39	0.049	0.12	0.01	0.24	0.06
97H-185	519147	6033381	10	2.5	15	8	138	42	2.5	11	3.56	0.060	0.20	0.03	1.00	0.17
97H-186	518573	6031574	6	8.0	32	3	231	42	2.5	4	3.72	0.079	0.24	0.01	0.29	0.07
97H-187	499197	6032410	4	11.0	11	3	662	72	2.5	5	4.63	0.103	0.26	0.01	0.30	0.07
97H-188	498282	6033227	10	14.0	21	4	129	61	2.5	7	0.54	0.041	0.08	0.05	1.16	0.32
97H-189	498849	6029766	9	2.5	5	5	42	49	2.5	7	4.21	0.071	0.14	0.01	0.37	0.05
97H-190	498167	6028367	11	16.0	15	8	59	41	2.5	13	0.50	0.110	0.12	0.06	1.43	0.33
97H-191	497208	6028893	10	19.0	19	5	73	39	2.5	12	2.47	0.062	0.19	0.04	1.01	0.27
97H-192	485905	6033746	5	9.0	5	2	18	17	2.5	3	0.16	0.019	0.02	0.01	0.39	0.07
97H-193	489935	6033983	14	6.0	28	10	536	68	2.5	16	4.40	0.099	0.36	0.08	1.75	0.39
97H-194	491164	6032643	130	12.0	35	57	1547	90	2.5	75	3.92	0.131	0.57	0.20	4.34	0.50
97H-195	501211	6032956	13	16.0	19	11	347	44	2.5	20	3.30	0.091	0.34	0.07	1.88	0.40
97H-196	494312	6029503	3	2.5	21	4	28	14	2.5	4	0.19	0.015	0.07	0.01	0.29	0.07
97H-197	496064	6031902	9	9.0	11	8	53	56	2.5	10	1.69	0.083	0.14	0.05	1.35	0.23
97H-198	495940	6029992	8	14.0	12	6	40	46	2.5	12	1.36	0.074	0.12	0.06	1.38	0.27
97H-199	495793	6029002	5	18.0	25	5	87	25	2.5	8	0.36	0.066	0.07	0.03	0.62	0.16
97H-200	491974	6031864	11	6.0	13	7	32	27	2.5	10	1.50	0.064	0.15	0.03	0.79	0.16
97H-201	501310	6029875	6	2.5	3	2	67	29	2.5	4	1.80	0.019	0.07	0.01	0.39	0.02
97H-202	503202	6031243	8	2.5	7	4	72	43	2.5	9	3.59	0.037	0.19	0.03	1.16	0.13
97H-203	504582	6032523	9	20.0	16	6	89	118	6.0	20	1.15	0.048	0.23	0.14	2.67	0.76
97H-204	493311	6034135	21	5.0	9	2	52	23	2.5	4	1.83	0.030	0.08	0.01	0.43	0.07
97H-205	492691	6034939	10	17.0	12	6	85	83	2.5	16	0.55	0.050	0.12	0.10	1.98	0.51
97H-206	492813	6032211	9	6.0	14	7	247	140	2.5	15	5.65	0.063	0.43	0.10	2.21	0.57

Sample Site	UTM		Cu	Pb	Zn	Ni	Mn	Sr	Bi	V	Ca	P	Mg	Ti	Al	K
	EAST	NORTH	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%
97H-207	505903	6027507	2	5.0	11	2	55	8	2.5	2	0.67	0.015	0.05	0.01	0.10	0.04
97H-208	508016	6027463	12	12.0	35	10	536	57	2.5	18	3.60	0.092	0.38	0.06	1.64	0.36
97H-209	506661	6028140	5	2.5	7	3	44	44	2.5	6	3.16	0.042	0.20	0.02	0.86	0.13
97H-210	506619	6029127	8	22.0	23	5	270	66	2.5	10	3.04	0.062	0.23	0.03	0.65	0.16
97H-211	506226	6029915	2	2.5	8	2	18	7	2.5	2	0.22	0.016	0.02	0.01	0.09	0.03
97H-212	504366	6029454	9	13.0	23	6	232	122	2.5	20	2.18	0.040	0.21	0.11	2.64	0.66
97H-213	503971	6027895	21	19.0	30	10	294	71	2.5	22	1.68	0.063	0.26	0.09	1.95	0.39
97H-214	507873	6033627	9	2.5	14	5	103	106	2.5	13	5.05	0.068	0.33	0.05	1.11	0.26
97H-215	502859	6032947	15	15.0	21	13	486	50	2.5	21	2.53	0.082	0.32	0.08	1.87	0.44
97H-216	500430	6031458	22	19.0	58	10	574	88	2.5	14	5.24	0.186	0.22	0.05	1.59	0.32
97H-217	477524	6032937	4	2.5	3	2	50	16	2.5	3	1.03	0.019	0.07	0.01	0.23	0.06
97H-218	479469	6034111	7	2.5	6	4	197	28	2.5	7	2.95	0.039	0.15	0.02	0.80	0.14
97H-219	476476	6033291	9	2.5	22	6	107	37	2.5	9	2.50	0.043	0.21	0.03	1.01	0.18
97H-220	494292	6033037	8	2.5	19	3	205	48	2.5	4	5.81	0.048	0.23	0.02	0.38	0.07
97H-221	491778	6033333	9	2.5	15	8	71	69	2.5	19	4.90	0.080	0.31	0.07	1.67	0.37
97H-222	489734	6033070	7	23.0	16	7	143	98	2.5	16	1.00	0.045	0.16	0.10	2.26	0.69
97H-223	482129	6034706	6	12.0	11	4	40	49	2.5	7	2.34	0.064	0.19	0.03	0.73	0.15
97H-224	481343	6033144	4	2.5	13	2	47	12	2.5	3	1.24	0.021	0.05	0.01	0.18	0.05
97H-225	484355	6033976	9	23.0	21	10	560	101	2.5	21	2.30	0.058	0.30	0.12	2.46	0.74
97H-226	507579	6032592	9	2.5	8	7	11	55	2.5	8	5.09	0.033	0.23	0.03	0.71	0.10
97H-227	509576	6033495	4	7.0	6	2	80	18	2.5	3	0.55	0.015	0.05	0.01	0.13	0.06
97H-228	504672	6033921	8	20.0	25	6	49	28	2.5	10	0.94	0.064	0.09	0.04	0.82	0.21
97H-230	465126	6029280	5	22.0	17	6	227	63	2.5	13	0.95	0.057	0.12	0.08	1.48	0.49
97H-231	468014	6029211	11	14.0	24	8	426	63	2.5	14	2.63	0.061	0.20	0.07	1.43	0.41
97H-232	474714	6032147	9	19.0	22	7	56	40	2.5	13	0.74	0.087	0.13	0.06	1.26	0.32
97H-233	475878	6031424	3	2.5	5	2	12	9	2.5	3	0.50	0.020	0.04	0.01	0.19	0.07
97H-234	472653	6030759	17	26.0	29	13	431	124	2.5	25	2.70	0.156	0.36	0.09	2.09	0.59
97H-235	473647	6031180	6	10.0	40	4	227	15	2.5	6	0.60	0.144	0.08	0.02	0.40	0.18
97H-236	471481	6030684	8	9.0	33	5	168	22	2.5	8	0.82	0.207	0.11	0.03	0.75	0.25
97H-237	467781	6031932	8	20.0	42	6	260	28	2.5	10	1.34	0.123	0.16	0.04	0.76	0.25
97H-238	467303	6030943	8	16.0	35	7	78	23	2.5	10	0.40	0.113	0.08	0.05	0.89	0.28
97H-239	461733	6028498	15	23.0	58	14	310	58	2.5	21	1.31	0.145	0.25	0.08	1.85	0.46
97H-240	460875	6028462	18	6.0	24	14	157	91	2.5	21	4.86	0.086	0.42	0.07	1.87	0.41
97H-241	461875	6027235	6	10.0	12	4	73	30	2.5	7	0.60	0.057	0.08	0.04	0.63	0.18
97H-242	459946	6027489	14	29.0	133	10	2065	69	2.5	20	1.61	0.188	0.24	0.09	1.90	0.62
97H-243	456102	6028120	6	6.0	11	2	37	14	2.5	5	0.50	0.039	0.06	0.02	0.47	0.11
97H-244	453747	6028681	10	2.5	6	6	131	54	2.5	9	4.21	0.072	0.23	0.03	0.74	0.15
97H-245	452251	6028338	5	2.5	6	4	92	47	2.5	5	4.20	0.076	0.21	0.02	0.47	0.10
97H-246	458806	6027939	8	13.0	28	8	76	33	2.5	14	0.65	0.075	0.13	0.06	1.38	0.30
97H-247	455132	6028325	2	2.5	16	2	5	22	2.5	2	1.27	0.022	0.09	0.01	0.21	0.04
97H-248	452495	6028976	6	6.0	10	5	37	64	2.5	8	3.77	0.070	0.21	0.04	1.05	0.25
97H-249	450994	6027808	15	2.5	24	10	258	130	2.5	16	4.79	0.085	0.48	0.08	2.01	0.50
97H-250	449886	6028510	6	2.5	37	2	263	76	2.5	4	5.46	0.067	0.28	0.02	0.31	0.08
97H-251	448682	6028724	5	5.0	22	3	303	22	2.5	6	2.29	0.059	0.13	0.01	0.36	0.10
97H-252	445395	6029398	11	7.0	26	9	89	70	2.5	17	3.11	0.088	0.28	0.10	2.15	0.51
97H-253	443963	6030330	4	6.0	10	3	33	11	2.5	3	0.32	0.018	0.03	0.01	0.24	0.07
97H-254	443423	6028525	5	7.0	9	3	75	23	2.5	6	2.23	0.061	0.15	0.02	0.63	0.13
97H-255	442843	6030013	10	17.0	33	16	283	143	2.5	34	2.70	0.068	0.65	0.16	4.13	1.22
97H-256	442448	6029172	14	5.0	28	6	52	182	2.5	13	4.58	0.062	0.46	0.06	1.69	0.37
97H-257	439225	6030492	14	12.0	34	9	404	53	2.5	14	4.69	0.078	0.29	0.05	1.16	0.28
97H-258	437900	6030559	9	10.0	7	7	28	31	2.5	5	0.32	0.035	0.04	0.03	0.74	0.19
97H-259	438456	6031752	7	19.0	57	6	557	42	2.5	12	1.31	0.128	0.15	0.05	1.12	0.37
97H-260	437640	6031393	3	10.0	6	2	19	12	2.5	5	0.30	0.030	0.04	0.02	0.40	0.09
97H-261	448532	6027763	2	2.5	8	2	19	22	2.5	2	1.67	0.020	0.12	0.01	0.26	0.02
97H-262	435111	6031848	3	11.0	19	2	13	14	2.5	4	0.67	0.052	0.07	0.02	0.30	0.11
97H-263	436445	6031287	6	14.0	15	5	44	35	2.5	9	0.96	0.072	0.11	0.04	0.86	0.26
97H-264	435337	6030452	4	11.0	28	3	80	17	2.5	5	0.43	0.089	0.07	0.02	0.43	0.18
97H-265	440681	6030640	10	8.0	20	7	286	58	2.5	14	4.48	0.066	0.30	0.05	1.37	0.27
97H-266	447639	6028463	13	6.0	19	10	215	77	2.5	13	5.23	0.066	0.39	0.04	1.06	0.26
97H-267	449222	6028541	8	7.0	41	5	149	48	2.5	6	3.62	0.075	0.22	0.01	0.34	0.12
97H-268	457373	6028180	12	20.0	19	8	46	37	2.5	13	1.81	0.058	0.20	0.05	1.08	0.28
97H-269	457918	6028804	7	18.0	17	5	43	19	2.5	8	0.44	0.066	0.10	0.03	0.67	0.23
97H-270	457492	6027529	7	19.0	53	7	395	29	2.5	12	0.80	0.091	0.11	0.05	1.01	0.26
97H-271	465155	6030614	12	20.0	15	8	147	46	2.5	12	2.93	0.057	0.25	0.04	0.92	0.23
97H-272	467904	6033232	12	10.0	21	8	29	80	2.5	12	1.48	0.052	0.23	0.06	1.21	0.28
97H-273	466096	6029651	15	19.0	29	11	310	48	3.8	17	3.02	0.105	0.27	0.06	1.35	0.37
97H-274	468869	6031353	6	15.0	41	5	304	31	2.5	9	0.97	0.075	0.10	0.03	0.69	0.24
97H-275	441854	6030334	11	6.0	33	4	64	70	2.5	6	4.36	0.048	0.23	0.03	0.51	0.11
97H-276	441356	6029317	3	2.5	8	3	87	46	2.5	2	3.24	0.077	0.14	0.01	0.23	0.04
97H-277	455200	6033531	12	6.0	30	6	190	94	2.5	15	4.76	0.063	0.24	0.08	1.93	0.49

Sample Site	UTM		Cu	Pb	Zn	Ni	Mn	Sr	Bi	V	Ca	P	Mg	Ti	Al	K
	EAST	NORTH	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%
97H-278	456290	6033898	11	7.0	11	6	117	53	2.5	6	5.03	0.082	0.26	0.02	0.38	0.10
97H-279	455920	6035035	7	8.0	13	4	76	44	2.5	6	4.46	0.078	0.24	0.03	0.60	0.15
97H-280	456272	6032489	16	6.0	22	15	153	61	2.5	27	3.96	0.093	0.41	0.10	2.34	0.45
97H-281	458988	6036919	9	5.0	7	3	12	16	2.5	2	1.45	0.057	0.11	0.01	0.14	0.07
97H-282	459526	6035375	8	12.0	13	5	107	39	2.5	5	3.54	0.087	0.27	0.02	0.44	0.14
97H-283	457995	6036193	7	11.0	18	6	97	34	2.5	8	1.10	0.075	0.11	0.04	0.70	0.20
97H-284	457394	6031755	16	14.0	34	10	227	57	2.5	17	3.73	0.067	0.38	0.08	1.80	0.46
97H-285	454410	6030342	12	6.0	15	8	192	67	2.5	14	3.35	0.068	0.29	0.04	1.15	0.24
97H-286	453991	6031977	9	6.0	42	6	187	49	2.5	7	5.21	0.085	0.24	0.03	0.51	0.13

Sample Site	Y	H ⁺	K	Hg
	ppm	ppb	mhos cm ⁻¹	ppb
97H-2	2	19.3	4.2	260
97H-4	2	12.4	33.2	266
97H-6	2	11.8	1.8	127
97H-7	4	0.4	16.2	311
97H-8	2	17.5	21.2	302
97H-9	2	83.1	-6.2	356
97H-10	7	9.4	15.1	98
97H-11	2	77.4	-4.7	228
97H-12	5	32.6	7.2	178
97H-13	4	36.9	4.3	151
97H-14	2	87.1	-13.2	206
97H-15	2	-1.4	41.6	153
97H-16	2	4.1	31.1	176
97H-17	2	14.2	15.8	178
97H-18	4	14.9	14.4	179
97H-19	4	2.4	17.0	179
97H-20	2	8.9	10.3	132
97H-22	4	7.3	10.0	114
97H-23	4	43.7	1.6	137
97H-24	4	45.8	1.0	219
97H-25	4	-1.8	9.3	81
97H-27	3	-1.5	30.2	378
97H-28	6	0.9	13.0	140
97H-29	4	4.4	21.0	163
97H-30	2	2.4	14.6	194
97H-31	7	8.0	10.8	136
97H-32	2	1.7	32.2	192
97H-33	2	41.6	-0.3	192
97H-34	2	38.7	7.1	331
97H-35	6	-1.1	11.7	75
97H-36	2	21.4	9.7	173
97H-37	2	48.1	9.2	114
97H-38	2	-2.0	14.1	69
97H-39	2	18.9	11.7	256
97H-40	2	64.0	-4.4	154
97H-41	2	55.5	0.8	141
97H-42	2	51.7	-0.4	205
97H-43	2	4.4	17.1	184
97H-44	8	-1.9	23.6	219
97H-45	2	-0.7	33.6	293
97H-46	2	-0.9	49.0	225
97H-47	2	56.8	-4.6	210
97H-48	11	-1.7	25.8	134
97H-49	2	-1.4	17.5	142
97H-50	2	2.4	14.0	151
97H-51	5	-2.0	22.1	118
97H-52	5	-1.8	23.9	176
97H-53	2	50.4	-4.5	160
97H-54	2	77.3	-6.8	224
97H-55	2	6.0	35.3	253
97H-56	2	17.0	8.7	255
97H-57	2	65.5	-3.2	300
97H-58	6	-0.5	25.6	206
97H-59	2	24.2	-0.1	199
97H-60	6	21.4	0.0	109
97H-61	2	-2.0	18.2	113
97H-62	4	35.1	1.6	166
97H-63	2	20.8	7.9	93
97H-64	2	-2.0	17.5	130
97H-65	14	-2.0	11.4	80
97H-66	4	3.8	8.6	154

Sample Site	Y ppm	H ⁺ ppb	K mhos cm ⁻¹	Hg ppb
97H-67	2	139.2	-24.7	209
97H-68	2	105.1	-14.2	271
97H-69	2	-1.7	30.9	124
97H-70	2	35.9	3.8	142
97H-71	6	-2.1	23.3	89
97H-72	6	-1.2	9.5	154
97H-73	5	-1.8	7.9	79
97H-74	24	-2.1	15.9	21
97H-75	8	-1.9	14.0	132
97H-76	2	-1.7	15.2	214
97H-77	14	-1.9	22.1	143
97H-78	4	1.5	7.1	71
97H-79	2	7.7	10.9	130
97H-80	2	6.4	9.6	93
97H-81	13	-2.1	11.1	37
97H-82	14	-2.0	26.2	116
97H-83	2	-1.9	18.2	164
97H-84	8	-2.0	9.6	83
97H-85	7	1.3	5.7	70
97H-86	4	-1.9	16.5	158
97H-87	24	-1.9	13.5	90
97H-88	14	-2.0	16.4	115
97H-89	4	-2.0	24.3	162
97H-90	4	-2.0	23.7	196
97H-91	4	0.3	21.8	142
97H-92	6	-1.7	8.2	102
97H-93	2	0.4	9.6	193
97H-94	4	-2.0	19.4	112
97H-95	2	4.3	5.5	111
97H-96	5	-1.3	9.4	88
97H-97	2	-1.7	17.8	132
97H-98	13	-2.0	16.9	69
97H-99	2	-2.0	15.6	91
97H-100	5	-2.0	15.6	97
97H-101	6	-2.0	22.6	81
97H-102	2	-0.8	12.3	151
97H-103	10	-2.0	12.7	73
97H-104	2	4.0	18.0	160
97H-105	2	0.3	16.5	116
97H-106	2	-0.3	16.2	96
97H-107	4	-2.0	18.0	103
97H-108	2	14.9	11.3	232
97H-109	17	23.7	-2.8	68
97H-110	5	-0.7	20.6	171
97H-111	2	50.4	-2.1	147
97H-112	2	18.4	11.8	178
97H-113	2	65.6	0.8	179
97H-114	11	-2.0	12.8	75
97H-115	8	-2.0	17.7	94
97H-116	8	-1.8	22.2	128
97H-117	10	-1.5	27.3	136
97H-118	7	-1.9	18.5	121
97H-119	11	-1.4	10.5	63
97H-120	4	75.6	-10.8	275
97H-121	4	77.4	-11.5	222
97H-122	2	85.1	-13.4	240
97H-123	5	-0.3	15.1	135
97H-124	2	56.9	-10.6	123
97H-125	4	12.5	5.7	178
97H-126	7	-1.8	21.5	152
97H-127	2	2.4	12.1	287
97H-128	2	28.9	1.3	161
97H-129	2	-0.9	15.8	445
97H-130	11	-1.2	7.9	83
97H-131	20	-1.5	13.9	97
97H-132	6	23.7	4.1	105
97H-133	2	72.1	-8.9	224
97H-134	6	-1.9	14.4	156
97H-135	2	11.2	13.2	161
97H-136	10	-1.6	15.0	179

Sample Site	Y ppm	H ⁺ ppb	K mhos cm ⁻¹	Hg ppb
97H-137	2	-1.4	16.0	182
97H-138	6	-1.9	14.9	133
97H-139	11	-2.0	8.1	91
97H-140	17	-1.7	7.0	148
97H-141	4	-1.5	18.2	242
97H-142	2	-1.8	18.9	377
97H-143	2	36.9	9.0	247
97H-144	2	-1.7	14.9	123
97H-145	4	-1.9	4.5	70
97H-146	2	13.5	10.3	287
97H-147	2	-1.9	11.6	93
97H-148	6	-1.9	11.0	78
97H-149	6	-2.0	20.5	130
97H-150	6	-2.0	26.3	122
97H-151	12	-0.2	14.8	157
97H-152	2	-1.9	20.5	166
97H-153	2	17.1	8.6	261
97H-154	4	1.0	13.8	192
97H-155	2	65.6	-3.8	294
97H-156	5	23.7	-5.5	94
97H-157	2	72.1	-14.3	325
97H-158	5	39.7	0.5	276
97H-159	6	-2.0	14.2	134
97H-160	2	0.0	7.1	270
97H-161	2	6.9	23.0	162
97H-162	2	27.5	-1.6	230
97H-163	13	23.1	-1.7	52
97H-164	12	-1.9	18.8	143
97H-165	7	-2.0	19.4	149
97H-166	11	-2.0	13.7	112
97H-167	4	-1.9	15.1	198
97H-168	2	12.1	9.4	192
97H-169	10	-1.7	6.7	77
97H-170	20	-0.8	37.8	160
97H-171	6	3.8	47.4	166
97H-172	4	-1.9	22.3	190
97H-173	2	-1.9	9.8	104
97H-174	7	-1.9	16.5	139
97H-175	2	-2.0	17.7	108
97H-176	2	49.3	0.1	206
97H-177	7	2.4	11.1	228
97H-178	2	0.3	8.2	213
97H-179	13	-1.9	20.4	195
97H-180	2	-0.9	13.3	112
97H-181	10	-1.9	18.3	132
97H-182	7	-1.8	9.7	84
97H-183	4	24.3	2.8	229
97H-184	2	-1.8	20.0	190
97H-185	6	-1.8	20.5	166
97H-186	2	-1.9	22.4	183
97H-187	2	-1.9	19.0	178
97H-188	2	85.1	-19.7	173
97H-189	2	-1.7	9.5	138
97H-190	5	42.7	1.8	250
97H-191	6	-1.7	16.6	162
97H-192	2	87.1	-18.0	184
97H-193	11	-1.8	4.7	162
97H-194	24	-1.9	11.9	83
97H-195	12	-1.1	11.3	137
97H-196	2	68.8	-11.6	124
97H-197	8	4.7	6.7	170
97H-198	7	12.7	12.8	191
97H-199	2	68.8	-8.6	205
97H-200	7	1.7	13.0	128
97H-201	2	-1.8	11.1	97
97H-202	4	-1.9	11.4	66
97H-203	6	19.3	3.9	95
97H-204	2	-2.0	28.1	133
97H-205	5	65.6	-14.0	117
97H-206	7	-2.0	24.9	60

Sample Site	Y ppm	H ⁺ ppb	K mhos cm ⁻¹	Hg ppb
97H-207	2	-1.5	16.5	113
97H-208	7	-1.9	18.7	125
97H-209	2	-2.0	16.4	74
97H-210	4	-1.9	19.5	30
97H-211	2	123.9	-24.8	11
97H-212	6	3.2	7.3	58
97H-213	8	7.3	9.2	275
97H-214	5	-2.0	13.5	71
97H-215	16	-1.4	16.3	194
97H-216	6	-2.0	27.4	92
97H-217	2	-2.0	22.8	104
97H-218	2	-2.0	17.5	121
97H-219	4	-1.9	15.2	103
97H-220	2	-1.8	11.4	89
97H-221	7	-1.8	12.7	69
97H-222	5	12.1	1.9	81
97H-223	5	-1.2	19.0	180
97H-224	2	-1.9	17.9	178
97H-225	9	4.7	12.9	127
97H-226	5	-1.8	8.5	95
97H-227	2	-1.6	15.5	114
97H-228	4	17.0	7.9	11
97H-230	4	17.5	2.7	26
97H-231	5	0.8	14.1	151
97H-232	5	23.1	3.5	143
97H-233	2	10.3	7.8	154
97H-234	8	-1.8	27.0	118
97H-235	2	33.4	26.6	227
97H-236	4	8.7	23.9	153
97H-237	2	3.3	20.4	145
97H-238	2	26.8	7.8	80
97H-239	11	5.7	18.7	198
97H-240	7	-2.0	15.0	82
97H-241	2	58.2	-6.2	166
97H-242	5	-0.6	17.5	256
97H-243	2	14.6	8.4	137
97H-244	4	-1.9	18.0	98
97H-245	2	-2.0	22.6	100
97H-246	10	14.9	7.6	141
97H-247	2	-1.4	19.9	103
97H-248	4	-1.9	14.8	73
97H-249	7	-2.0	19.0	71
97H-250	2	-2.0	18.5	75
97H-251	2	-2.0	30.9	125
97H-252	7	-0.2	7.1	64
97H-253	2	18.9	4.4	190
97H-254	2	-2.0	19.2	143
97H-255	11	-2.0	12.1	61
97H-256	5	-1.9	10.7	82
97H-257	6	-2.0	19.3	178
97H-258	2	79.2	-12.9	140
97H-259	4	0.6	21.7	157
97H-260	2	28.2	12.8	178
97H-261	2	-1.9	32.7	107
97H-262	2	20.3	9.4	167
97H-263	2	21.4	7.4	225
97H-264	2	61.1	0.1	471
97H-265	6	-2.0	18.1	98
97H-266	7	-2.0	21.3	163
97H-267	2	-2.0	22.4	132
97H-268	6	0.0	12.8	153
97H-269	2	35.1	2.5	185
97H-270	4	13.1	9.6	367
97H-271	6	-1.6	18.6	441
97H-272	4	15.3	13.0	147
97H-273	12	-1.6	28.3	146
97H-274	2	9.7	14.9	342
97H-275	2	-1.6	11.7	74
97H-276	2	-0.8	15.9	49
97H-277	6	-2.0	11.8	59

Sample Site	Y ppm	H ⁺ ppb	K mhos cm ⁻¹	Hg ppb
97H-278	2	-2.0	18.5	69
97H-279	2	-2.0	19.6	98
97H-280	7	-1.7	11.3	91
97H-281	2	9.7	10.0	89
97H-282	2	-2.0	24.4	98
97H-283	2	12.7	11.3	315
97H-284	7	-2.0	19.3	108
97H-285	10	-1.4	17.0	89
97H-286	2	-2.0	25.4	86

Appendix 2

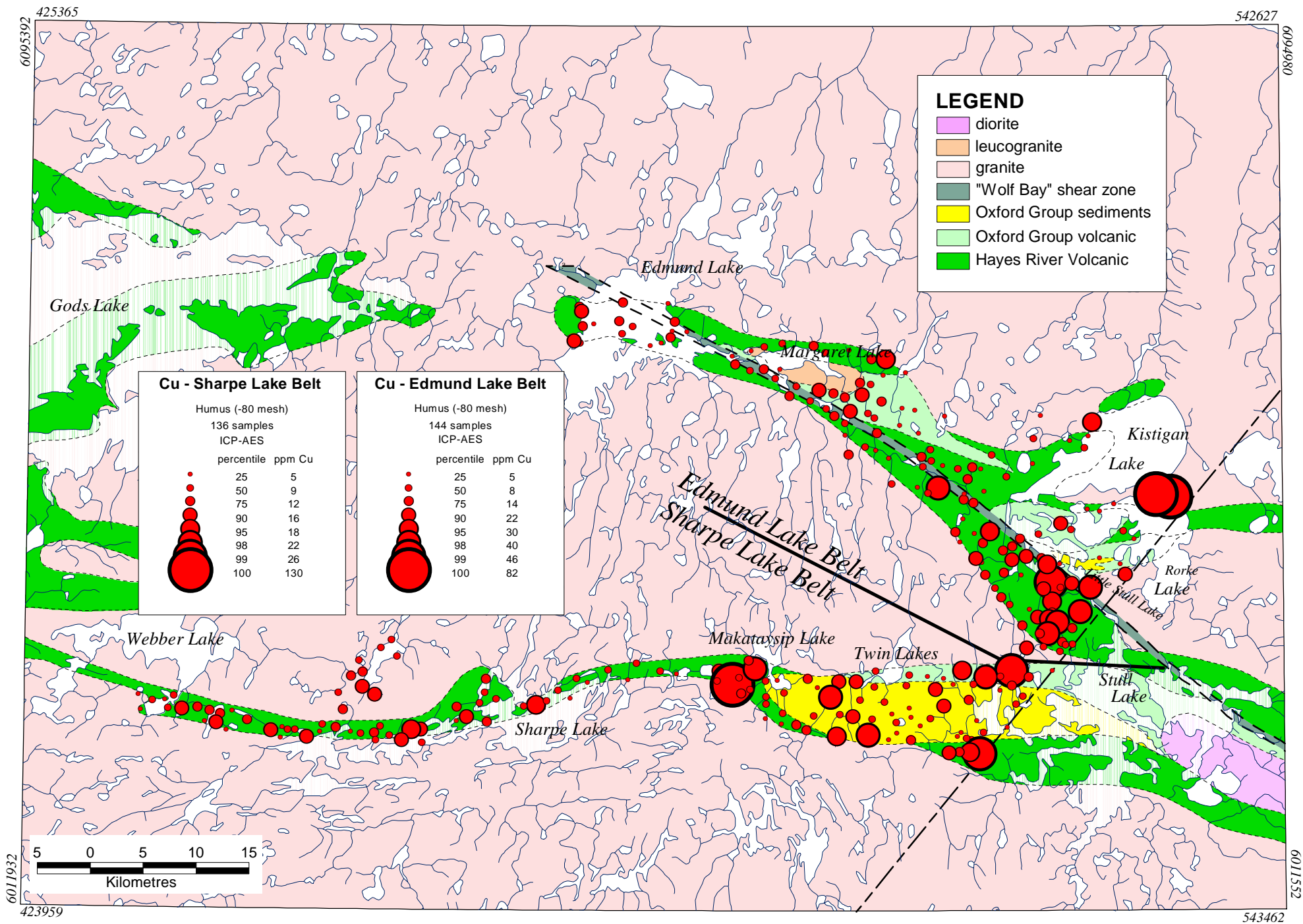
Humus Geochemistry: Duplicate Pair ICP-AES, Hydrogen Ion (H⁺), Specific Conductance (K) and Hg (FIMS) Analyses.

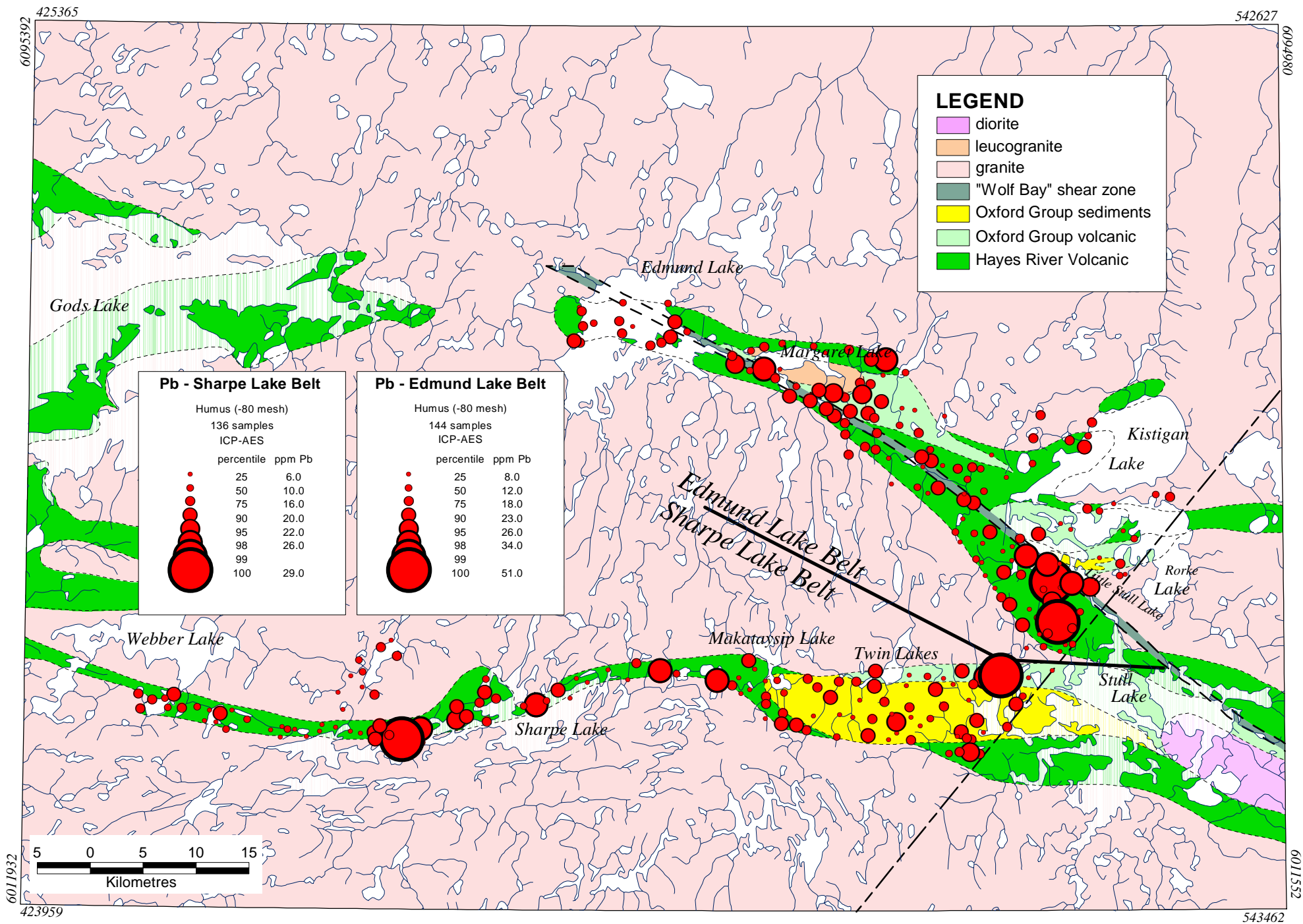
Sample Site	UTM		Cu ppm	Pb ppm	Zn ppm	Ni ppm	Mn ppm	Sr ppm	Bi ppm	V ppm	Ca %	P %	Mg %	Ti %	Al %	K %	Y ppm
	EAST	NORTH															
97H-27-1	503212	6061166	9	11.0	144	7	1726	27	2.5	5	1.74	0.123	0.12	0.02	0.38	0.23	2
97H-27-2	503212	6061166	8	16	175	10	2294	58	2.5	16	2.08	0.109	0.2	0.08	1.48	0.58	4
97H-52-1	504799	6056393	16	23.0	21	10	81	47	2.5	16	2.57	0.051	0.25	0.06	1.40	0.30	8
97H-52-2	504799	6056393	7	16.0	41	3	1022	39	2.5	6	2.53	0.083	0.18	0.02	0.52	0.18	2
97H-63-1	495649	6062459	2	5.0	4	2	8	5	2.5	2	0.28	0.015	0.02	0.01	0.09	0.02	2
97H-63-2	495649	6062459	4	2.5	2	2	24	11	2.5	2	0.80	0.016	0.05	0.01	0.13	0.04	2
97H-67-1	491159	6063714	5	16.0	16	4	42	17	2.5	6	0.26	0.047	0.06	0.03	0.49	0.12	2
97H-67-2	491159	6063714	5	14.0	27	4	27	16	2.5	5	0.29	0.041	0.06	0.02	0.44	0.11	2
97H-88-1	520527	6041691	30	9.0	30	18	316	97	2.5	28	4.85	0.093	0.46	0.12	3.05	0.70	14
97H-88-2	520527	6041691	13	10.0	27	9	398	42	2.5	13	2.86	0.065	0.22	0.05	1.80	0.20	13
97H-110-1	531121	6050631	82	11.0	12	8	101	39	2.5	9	2.70	0.090	0.16	0.02	0.67	0.11	5
97H-110-2	531121	6050631	82	10.0	12	8	71	42	2.5	6	3.12	0.086	0.17	0.02	0.63	0.08	6
97H-143-1	503707	6055102	9	18.0	28	6	114	25	2.5	11	0.89	0.070	0.14	0.04	0.75	0.15	2
97H-143-2	503707	6055102	6	18.0	32	4	53	17	5.0	5	0.52	0.074	0.05	0.02	0.37	0.17	2
97H-158-1	513703	6027484	10	16.0	36	9	90	47	2.5	21	0.83	0.083	0.18	0.10	2.03	0.52	5
97H-158-2	513703	6027484	7	15.0	31	7	68	37	6.0	16	0.65	0.068	0.12	0.08	1.39	0.39	4
97H-183-1	502520	6029633	20	2.5	8	7	254	49	2.5	7	6.19	0.074	0.21	0.02	0.55	0.07	5
97H-183-2	502520	6029633	8	9.0	11	5	24	28	2.5	6	0.72	0.066	0.09	0.02	0.64	0.09	2
97H-204-1	493311	6034135	26	5.0	9	2	52	26	2.5	4	2.08	0.032	0.09	0.01	0.48	0.07	2
97H-204-2	493311	6034135	15	5.0	10	2	51	20	2.5	3	1.57	0.027	0.07	0.01	0.38	0.06	2
97H-225-1	484355	6033976	8	17.0	17	10	700	125	2.5	24	2.86	0.056	0.39	0.13	2.93	0.89	10
97H-225-2	484355	6033976	10	28.0	24	9	419	76	2.5	18	1.73	0.060	0.21	0.10	1.99	0.58	7
97H-253-1	443963	6030330	4	6.0	10	3	33	10	2.5	3	0.28	0.018	0.03	0.01	0.22	0.07	2
97H-253-2	443963	6030330	5	6.0	10	3	32	12	2.5	3	0.35	0.019	0.04	0.01	0.26	0.08	2
97H-273-1	466096	6029651	15	17.0	27	11	303	49	5.0	19	2.89	0.105	0.29	0.06	1.55	0.41	12
97H-273-2	466096	6029651	15	20.0	31	11	316	47	2.5	15	3.14	0.104	0.24	0.05	1.15	0.32	11

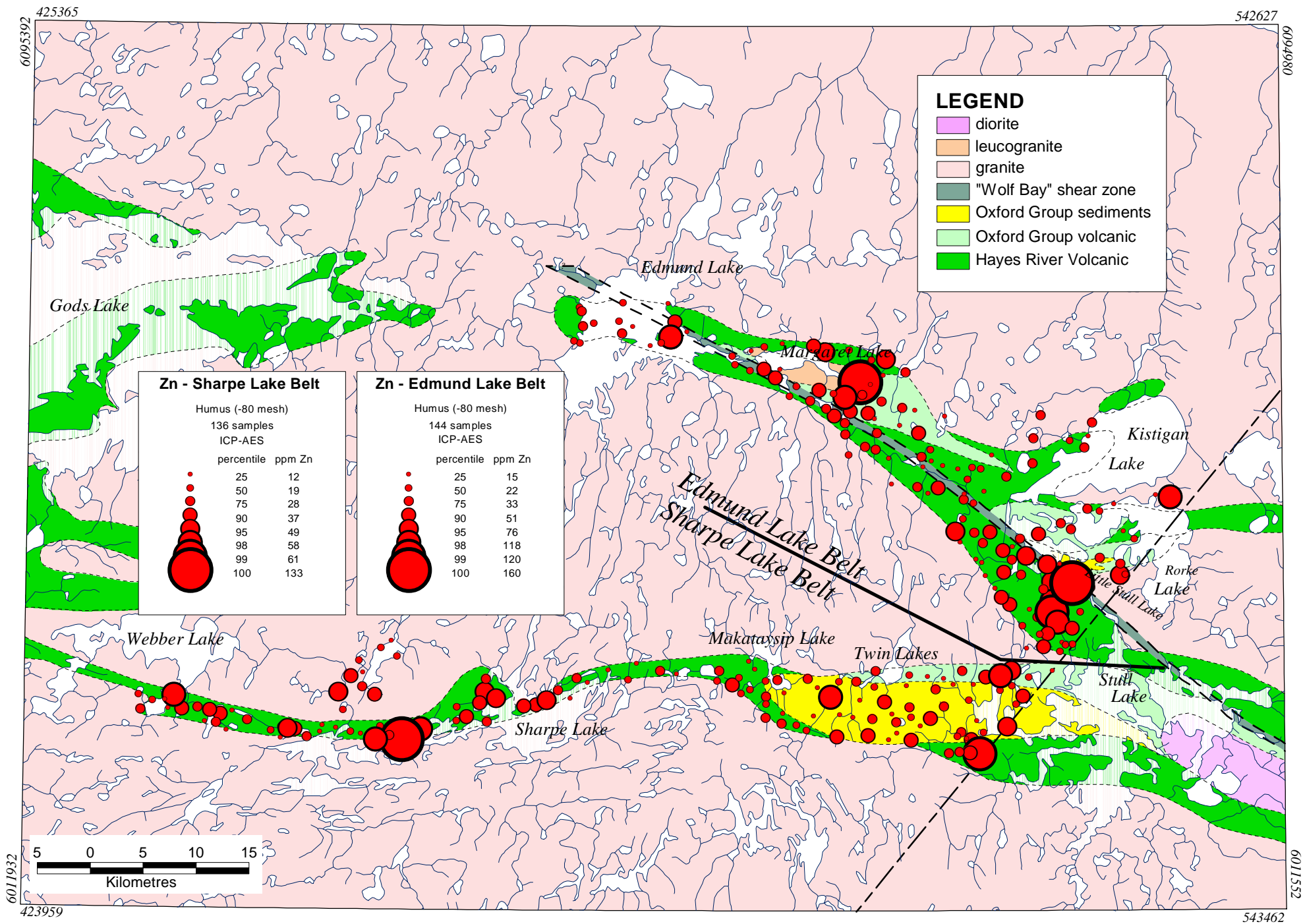
Sample Site	H ⁺ ppb	K mhos cm-1	Hg ppb
97H-27-1	0.9	29.00	393
97H-27-2	-1.4	30.00	362
97H-52-1	-1.5	18.00	142
97H-52-2	-1.8	24.00	209
97H-63-1	0.2	8.00	98
97H-63-2	-0.3	11.00	87
97H-67-1	93.0	-16.00	239
97H-67-2	139.0	-25.00	179
97H-88-1	-2.0	13.00	101
97H-88-2	-2.0	12.00	129
97H-110-1	-0.7	21.00	183
97H-110-2	-1.4	16.00	158
97H-143-1	34.0	2.00	205
97H-143-2	37.0	9.00	289
97H-158-1	40.0	0.01	272
97H-158-2	40.0	0.05	280
97H-183-1	-2.0	14.00	114
97H-183-2	24.0	3.00	343
97H-204-1	-2.0	28.00	130
97H-204-2	-1.9	19.00	136
97H-225-1	-1.9	14.00	113
97H-225-2	5.0	13.00	145
97H-253-1	13.0	4.00	193
97H-253-2	19.0	4.00	187
97H-273-1	-1.6	28.00	133
97H-273-2	-1.8	27.00	159

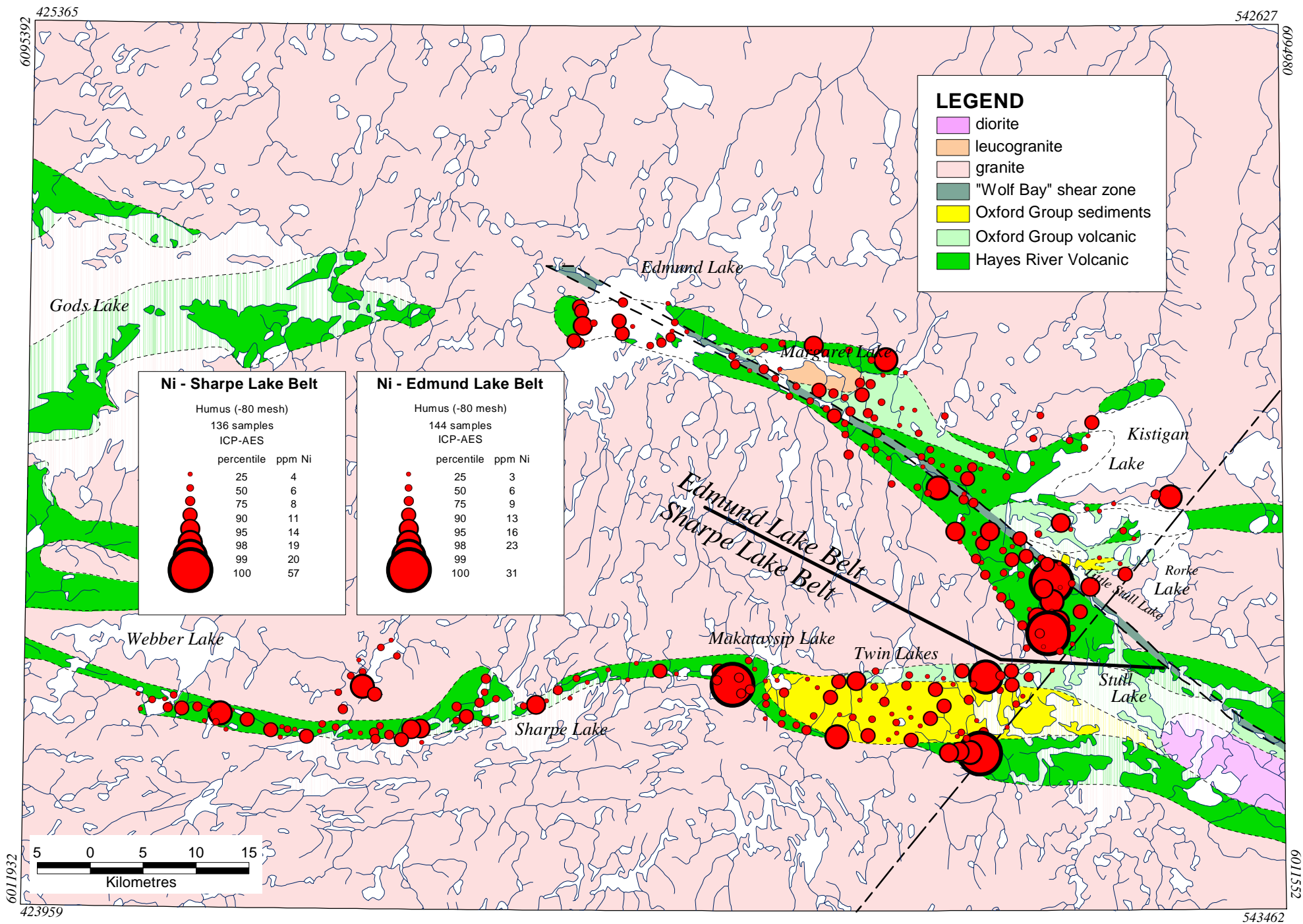
Appendix 3

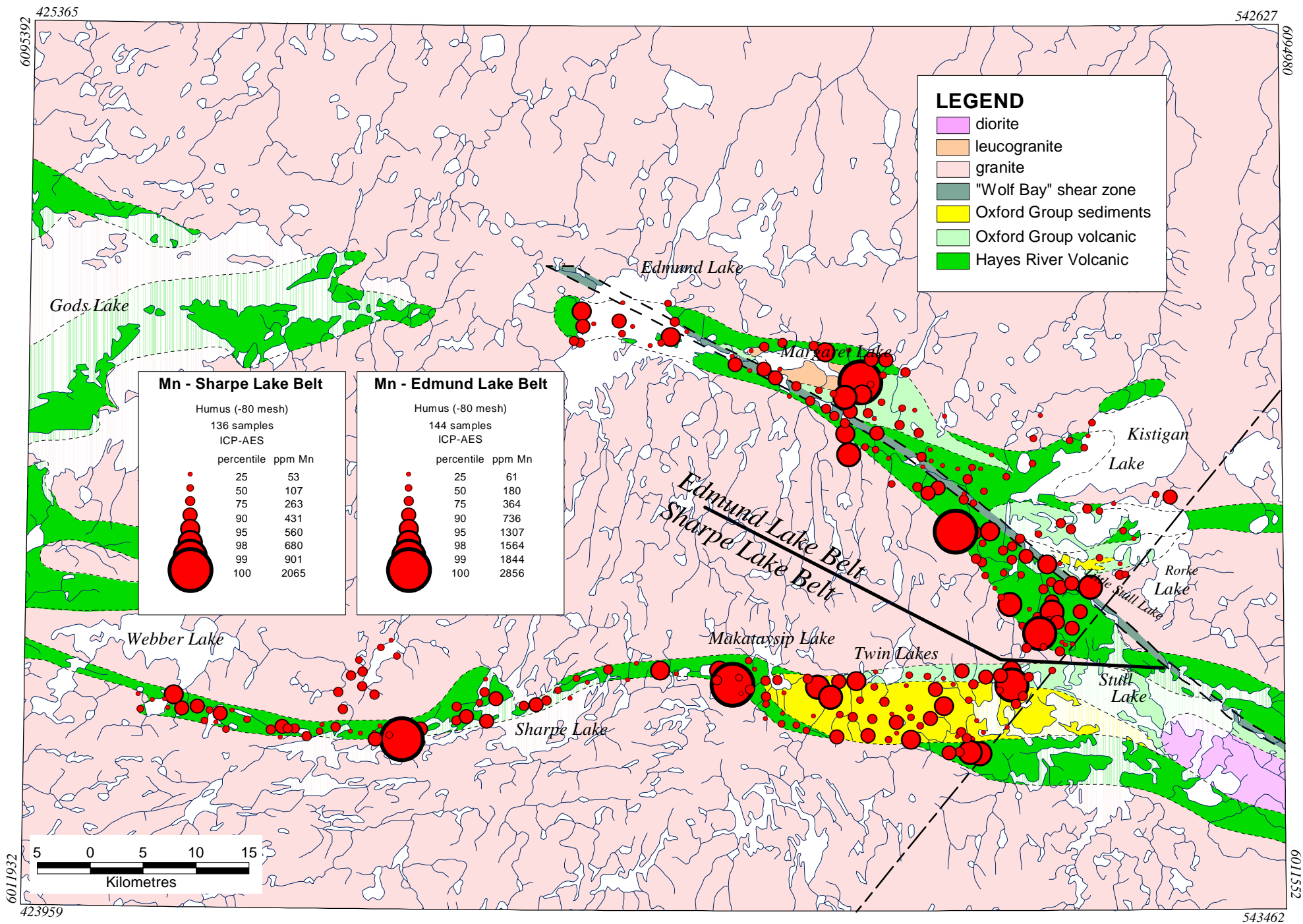
Humus Geochemistry: ICP-AES, H⁺, K and Hg Percentile Bubble Plots.

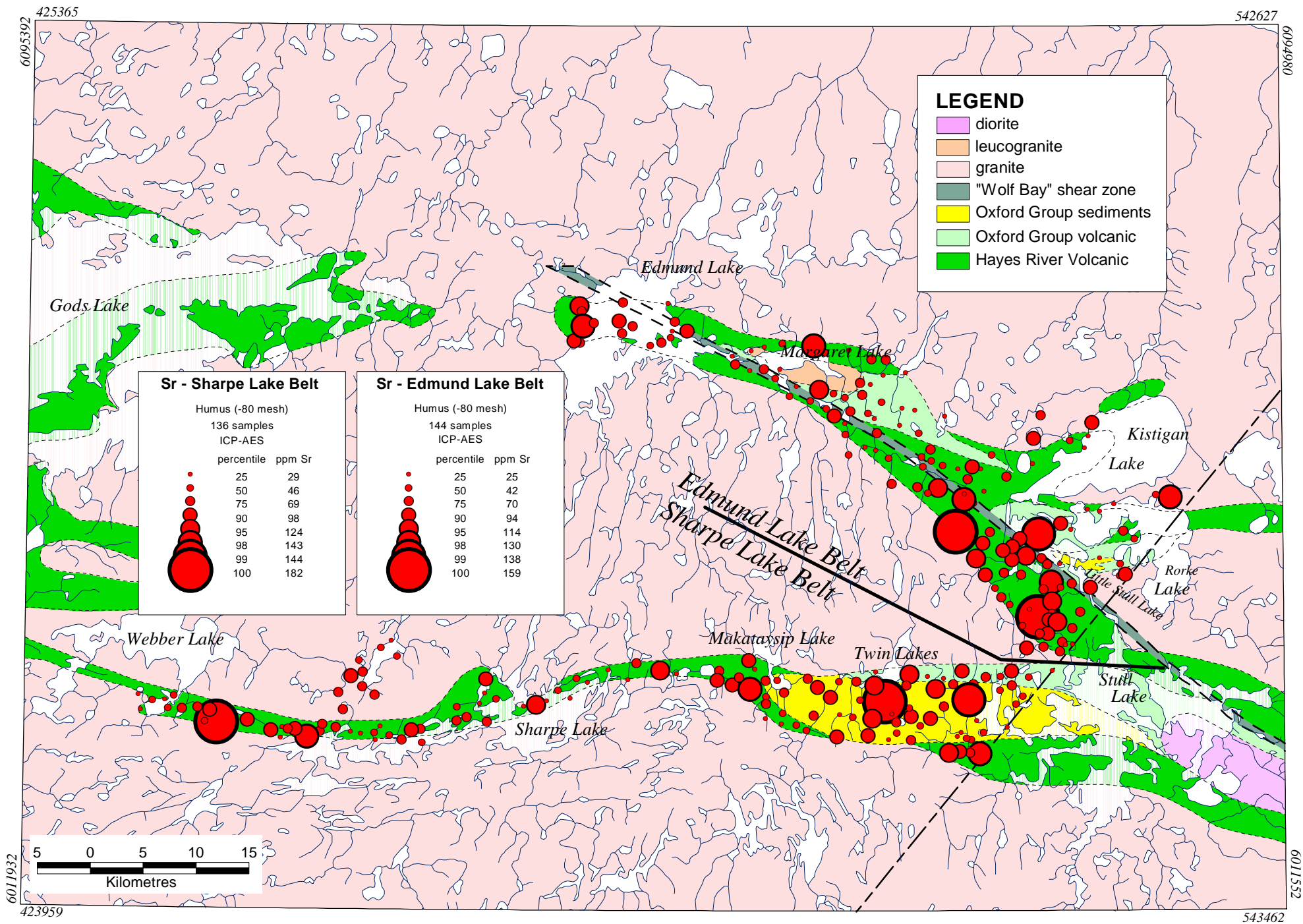


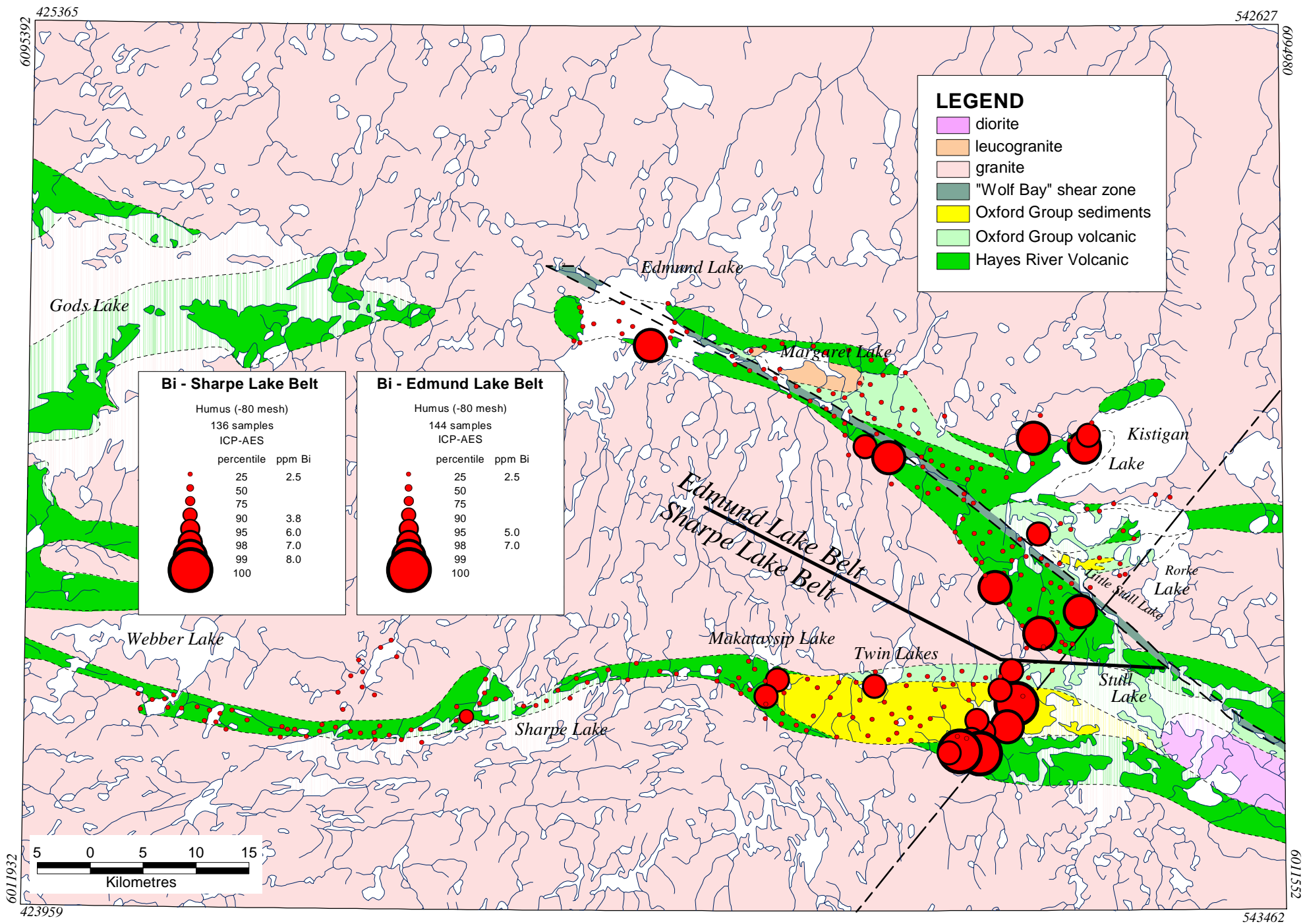


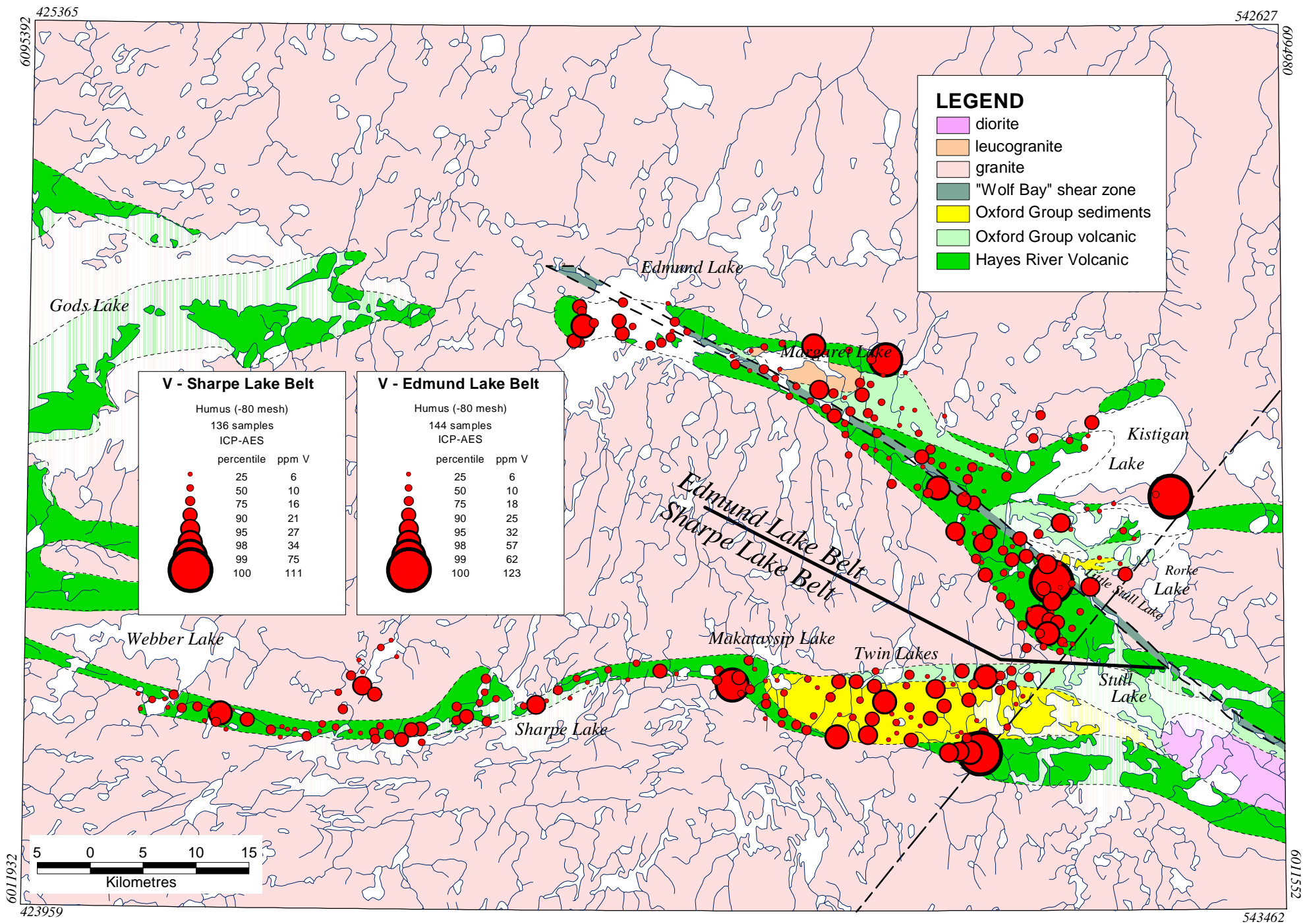


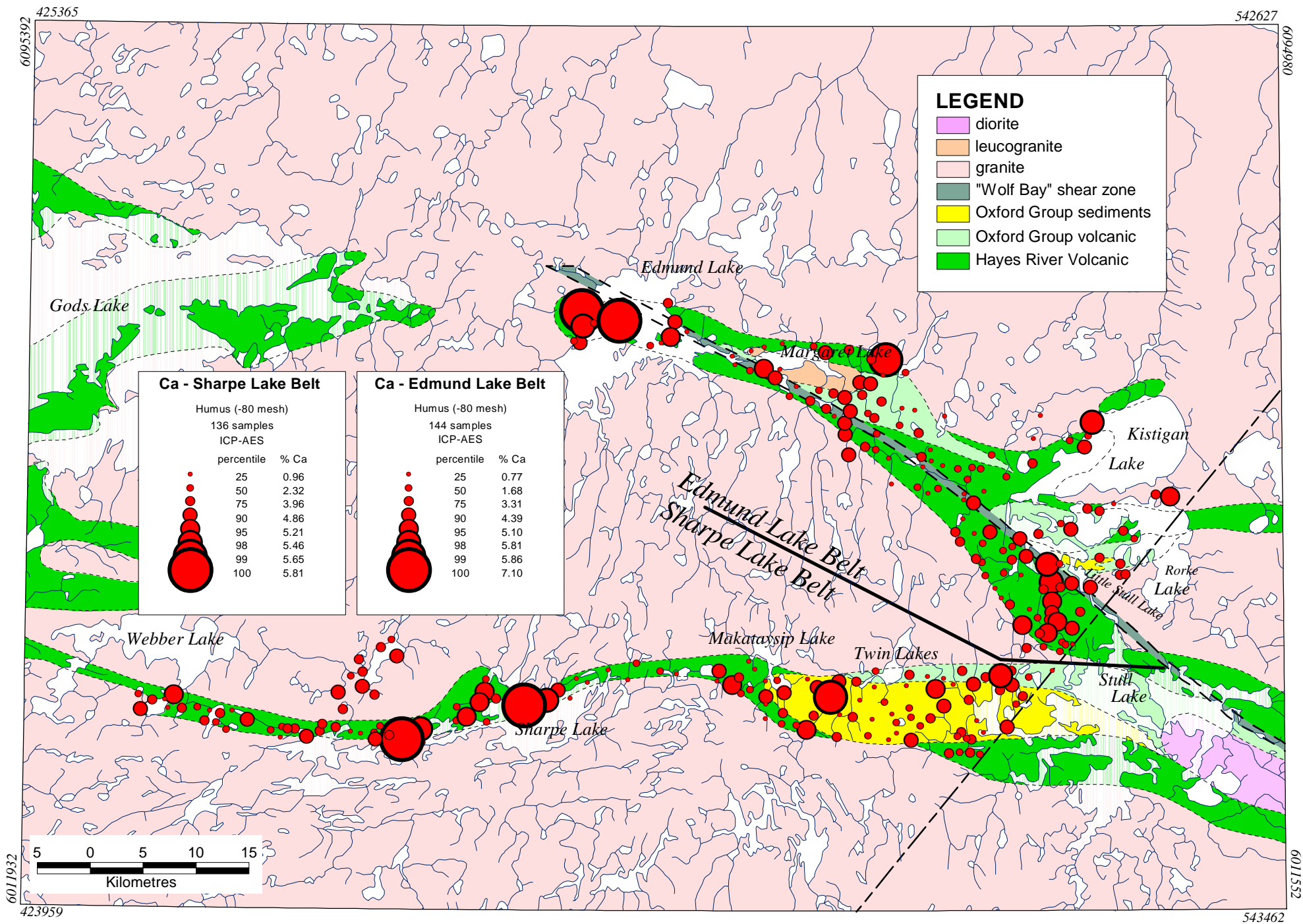


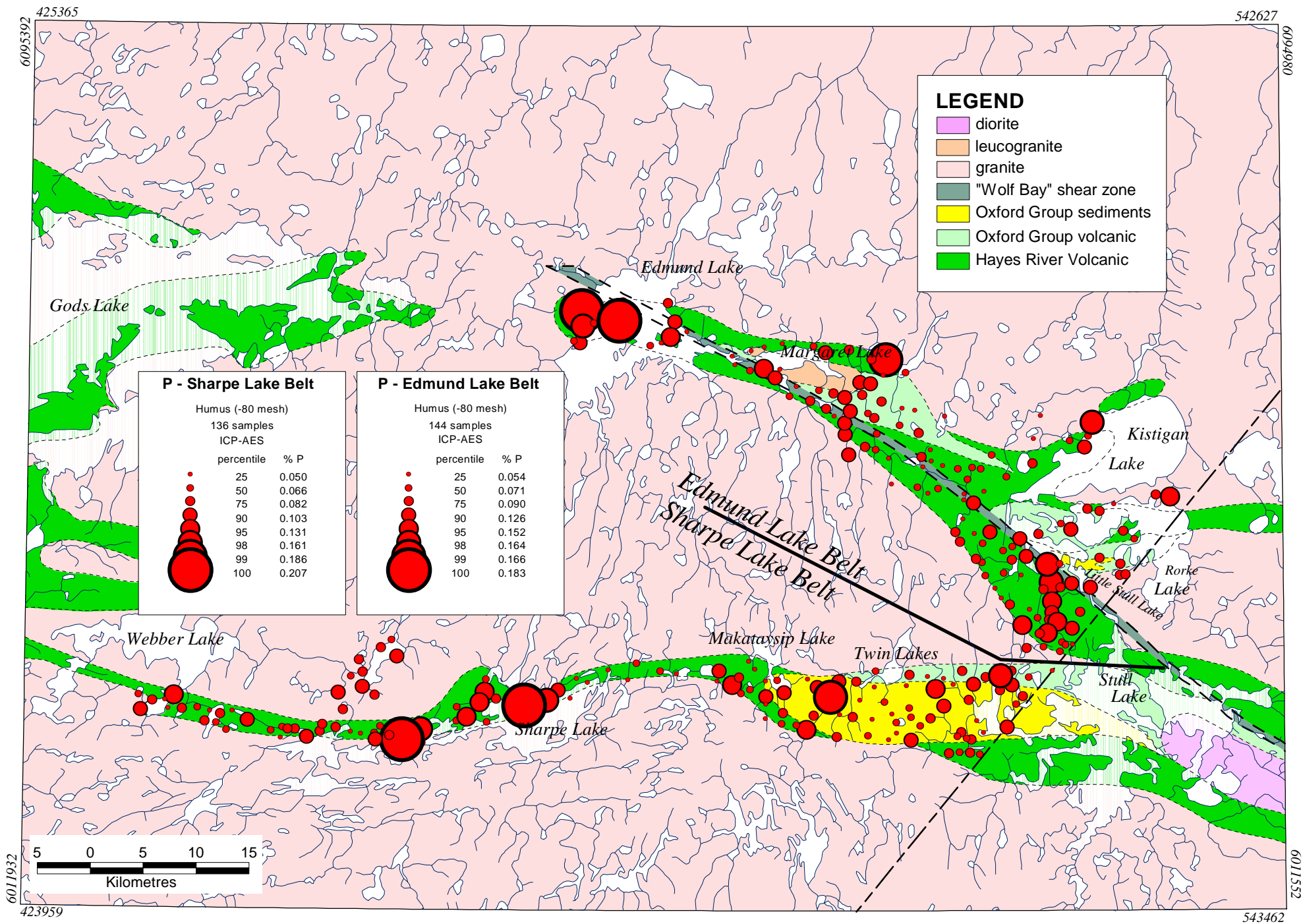


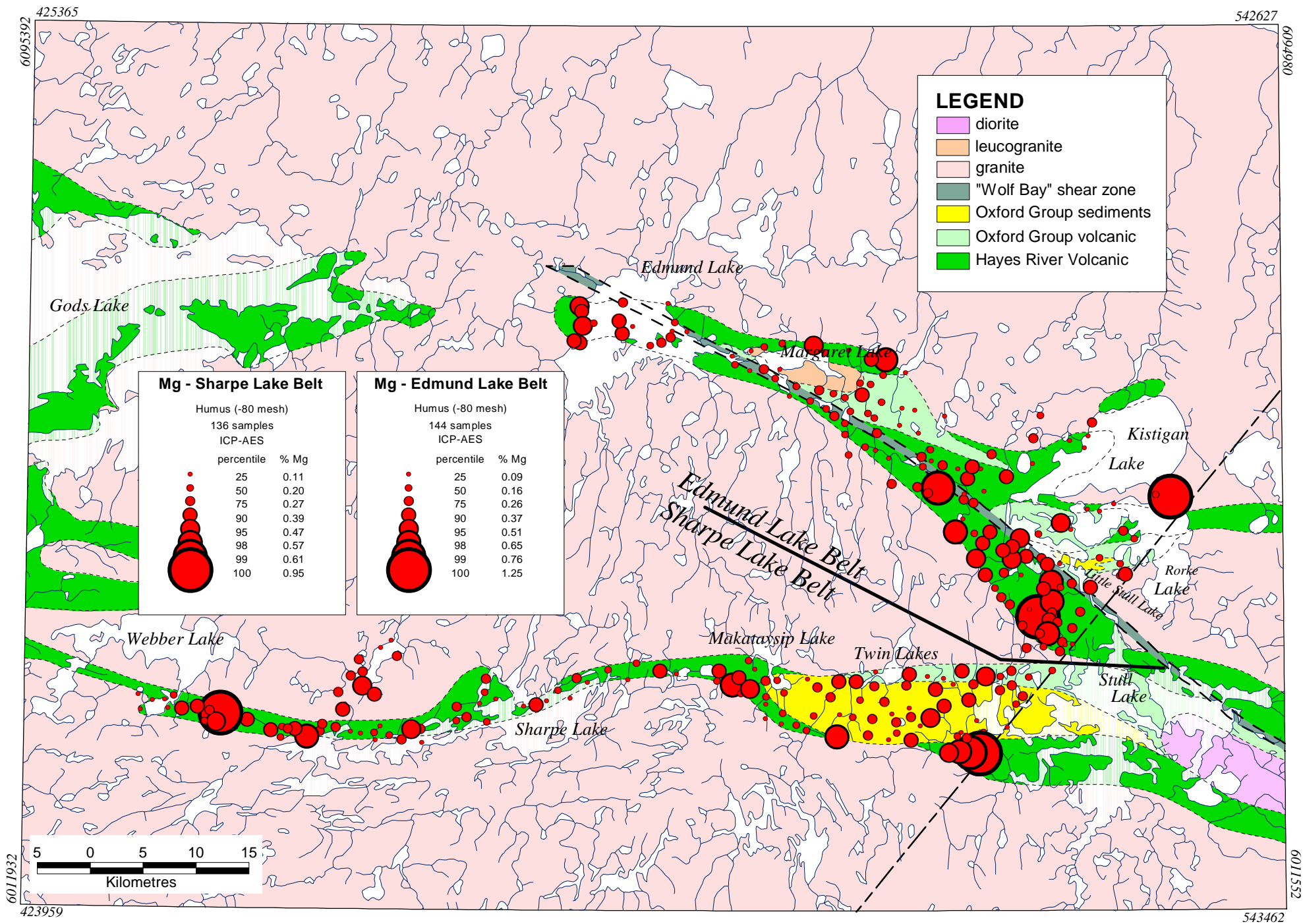


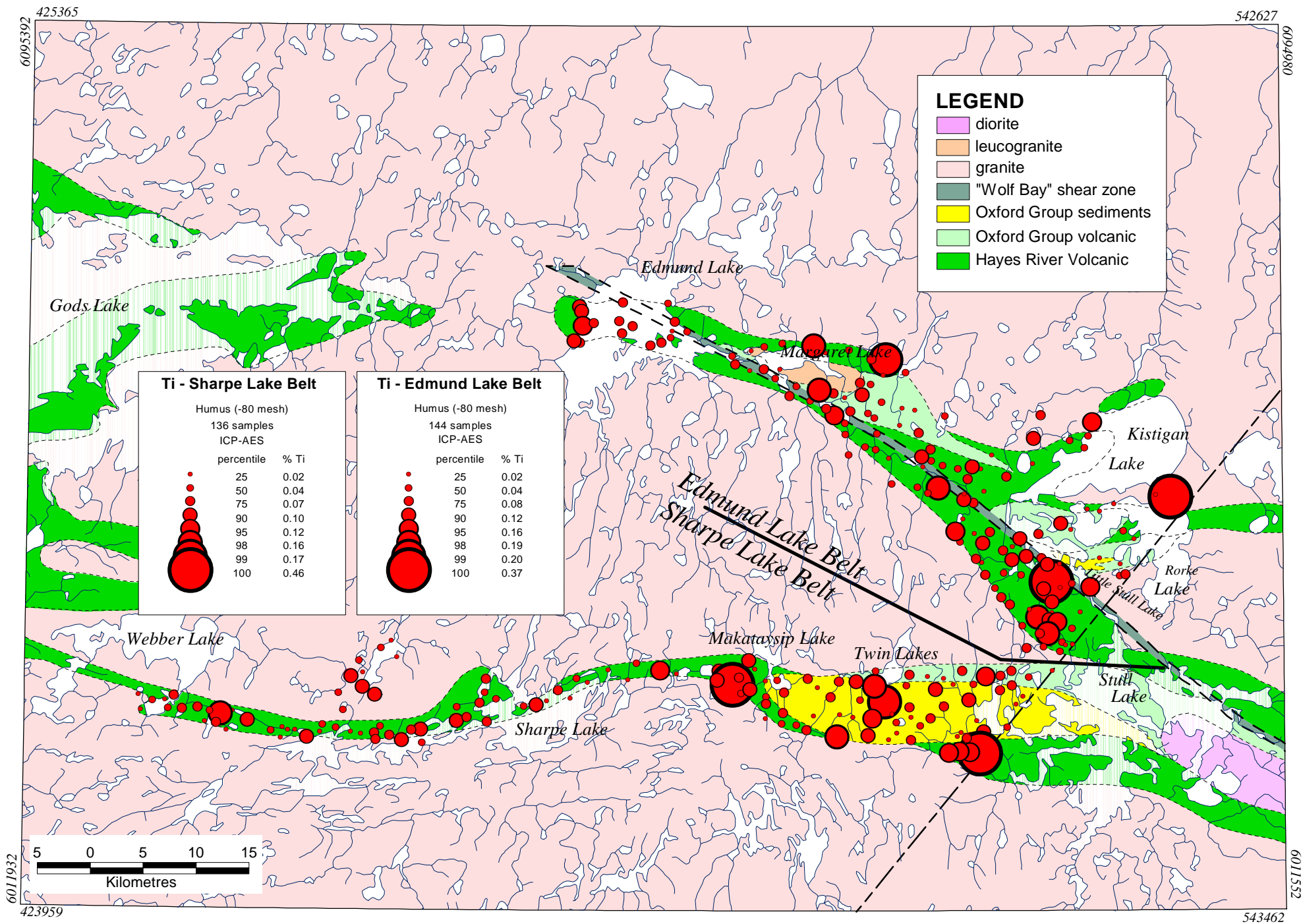


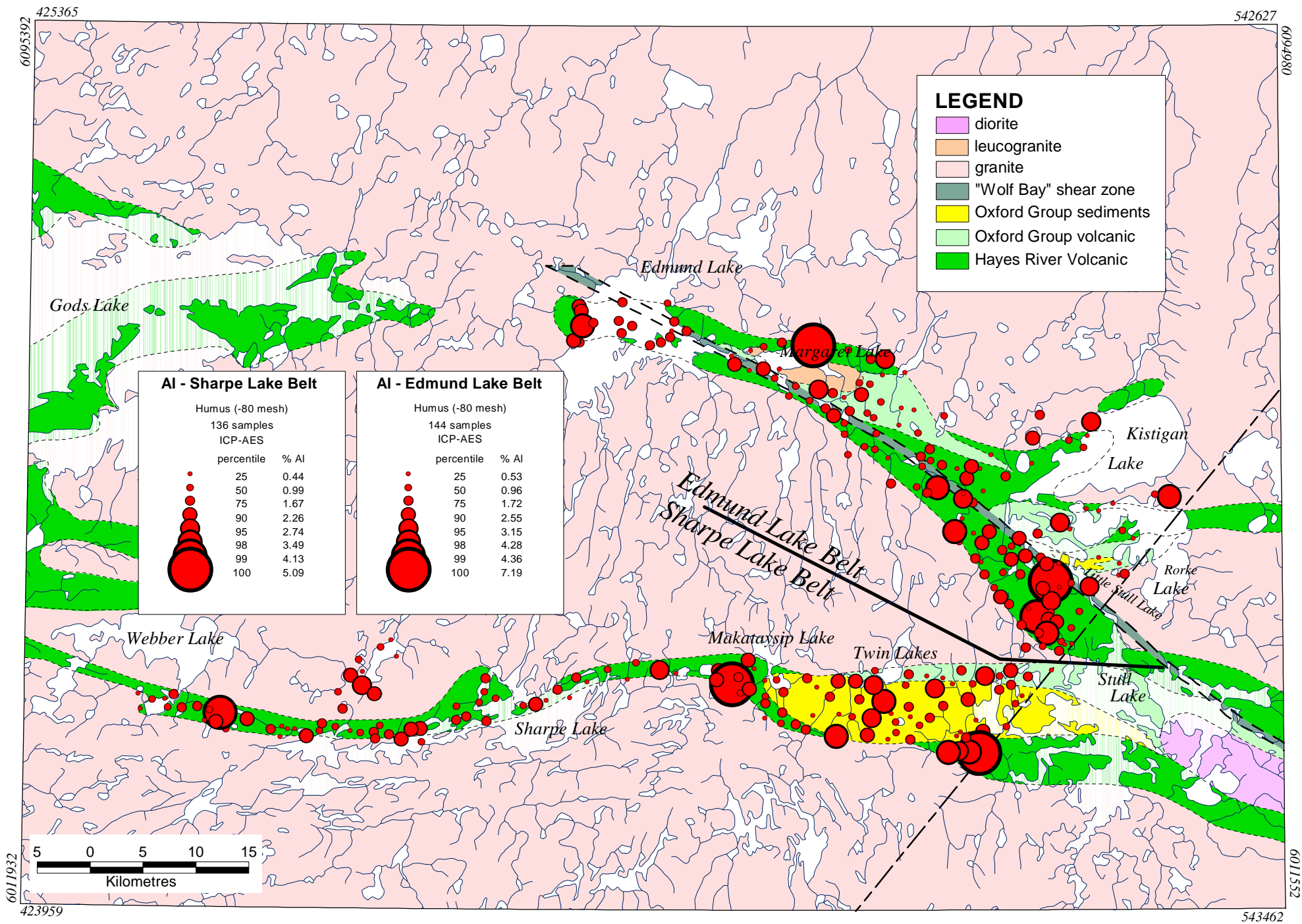


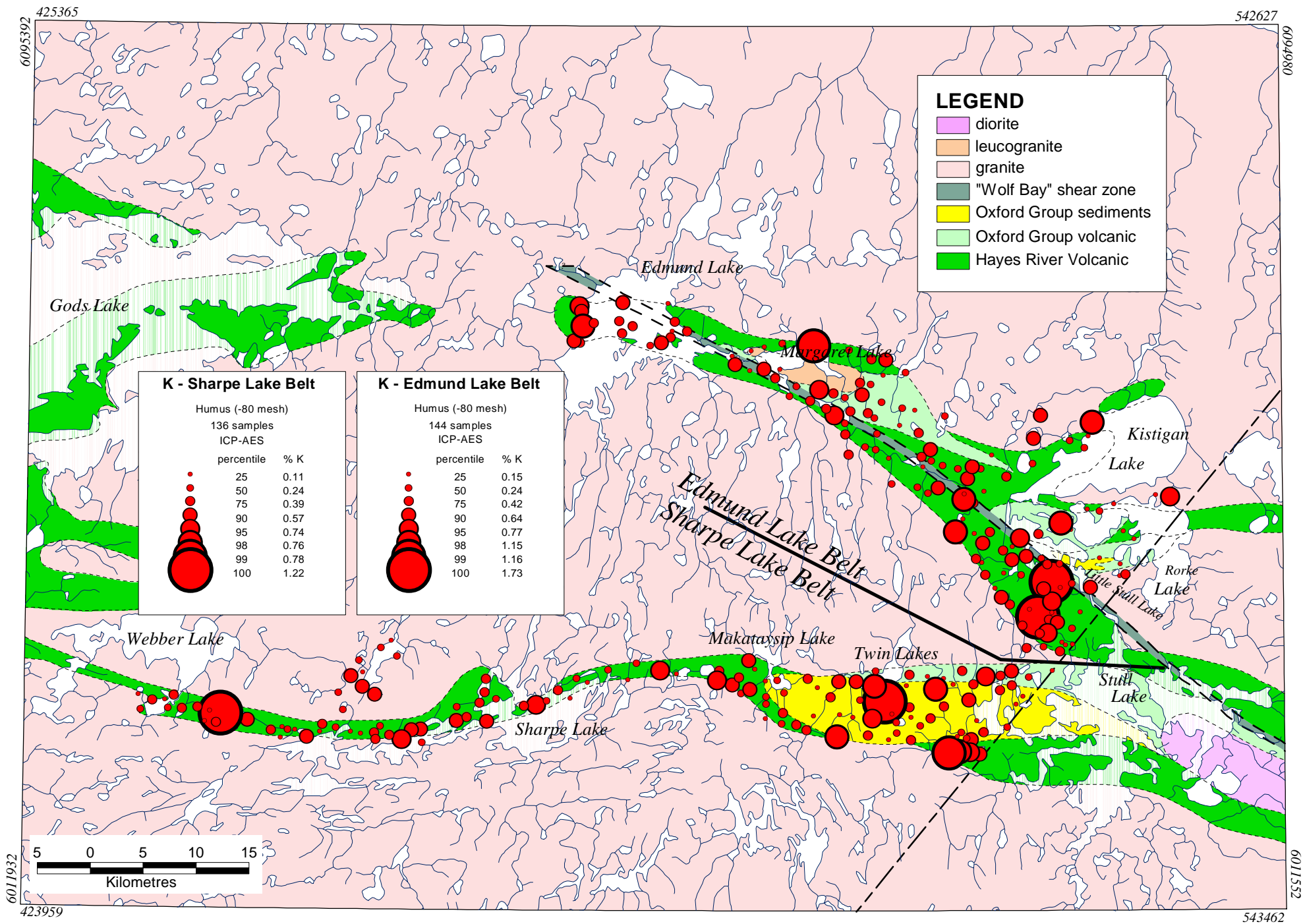


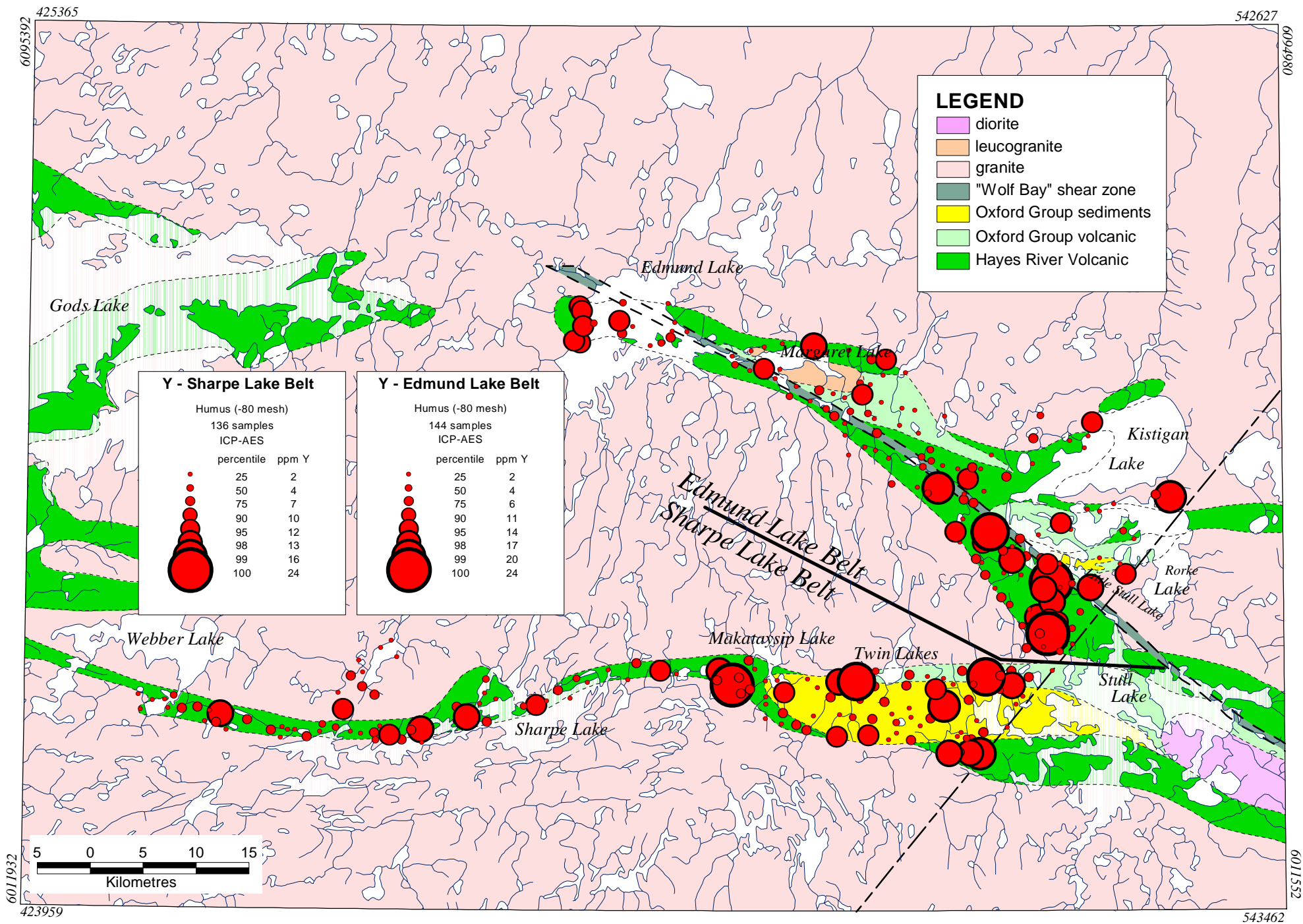


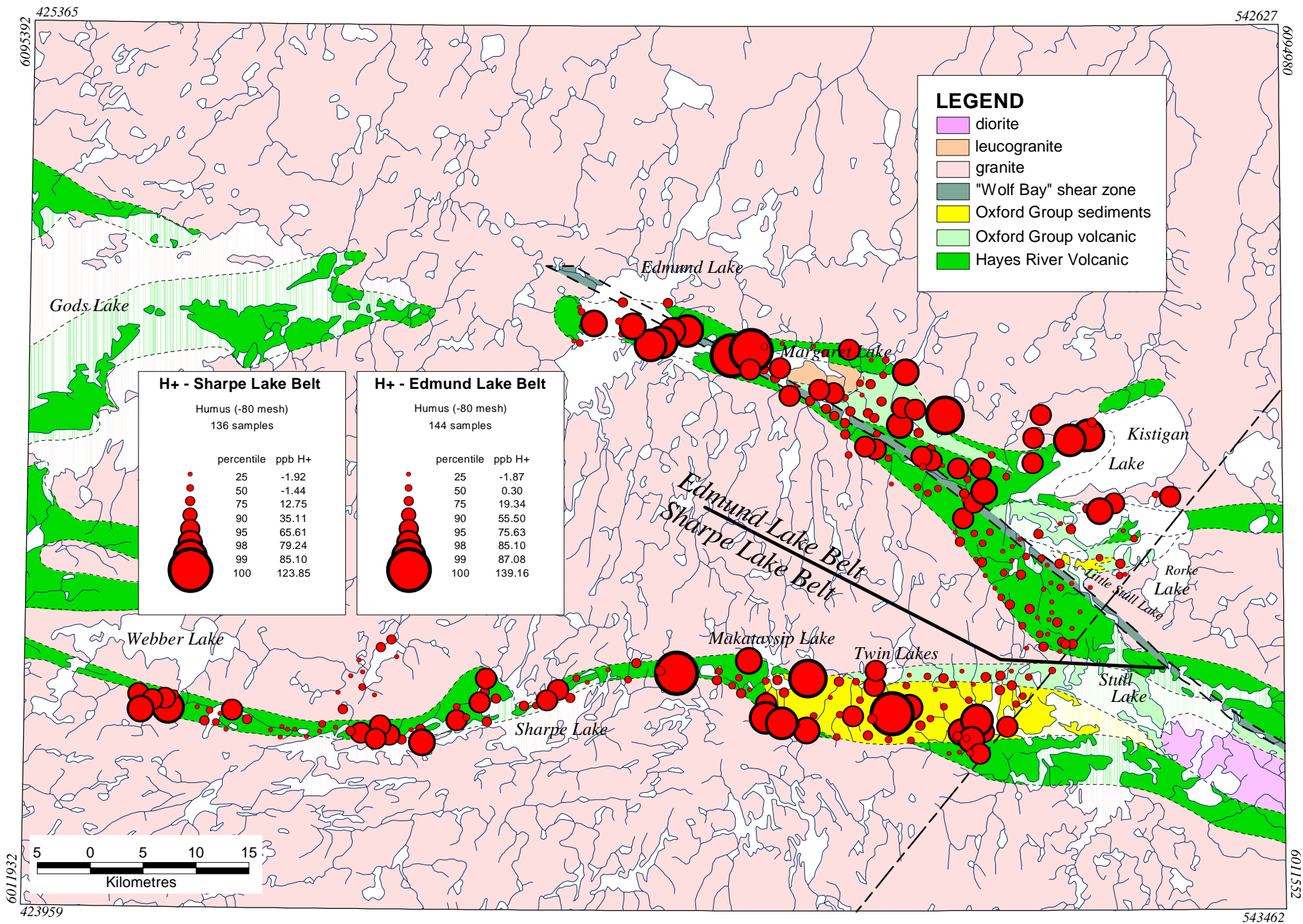


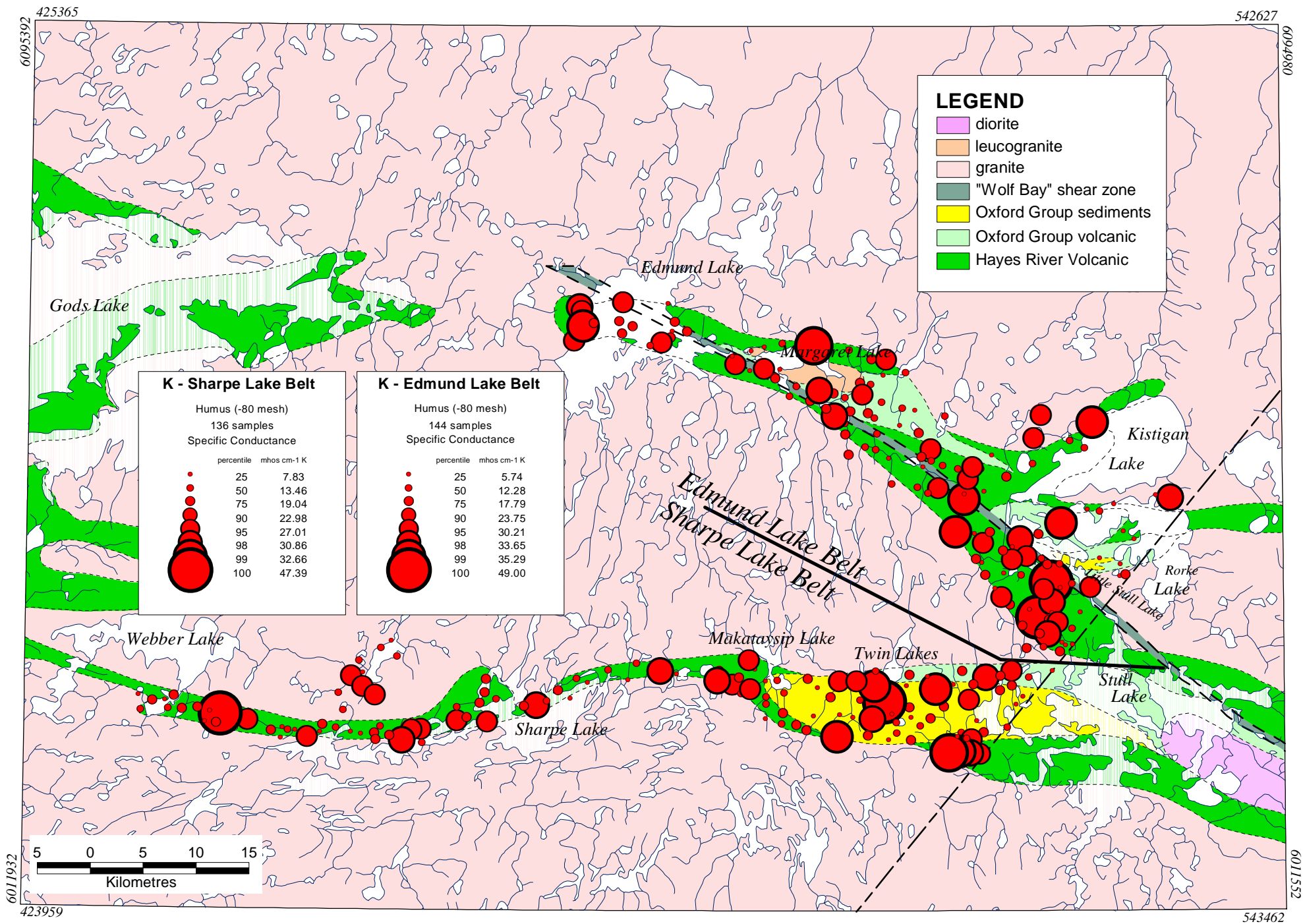


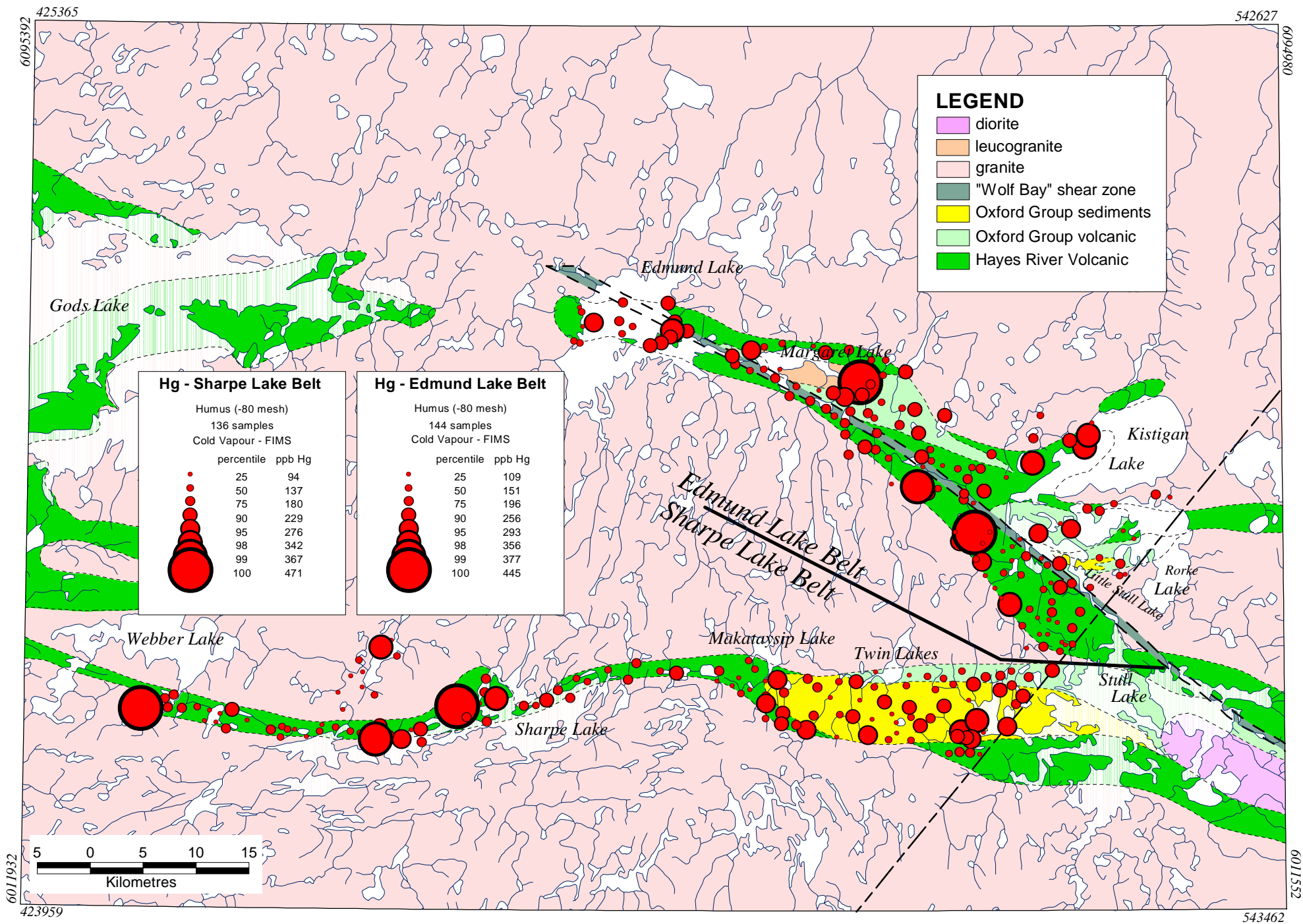


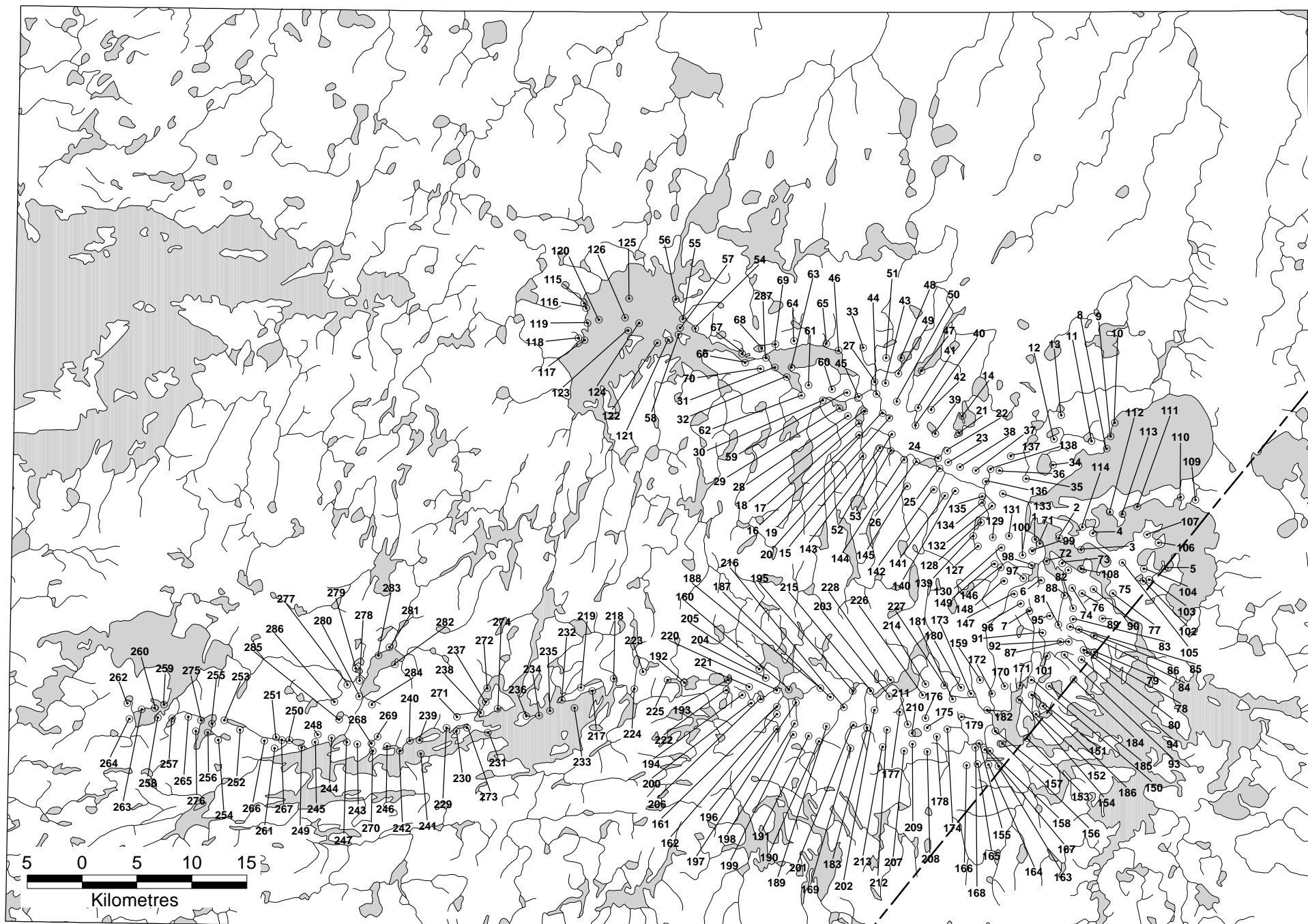












Appendix 4

Humus Geochemistry: Instrumental Neutron Activation Analyses (INAA)

Sample Site	UTM		Au ppb	As ppm	Ba ppm	Br ppm	Ca %	Co ppm	Cr ppm	Fe %	Hf ppm	Mo ppm	Na %	Ni ppm	Rb ppm
	EAST	NORTH													
97H-2	520028	6046856	1	3.1	420	17.0	0.5	3.0	14.0	0.64	2.0	0.5	0.40	10	7.5
97H-4	523123	6047360	1	0.8	98	22.0	1.0	3.0	2.5	0.22	0.5	0.5	0.09	10	7.5
97H-6	518401	6043035	1	1.6	290	7.9	0.5	3.0	17.0	0.91	2.0	0.5	0.49	10	7.5
97H-7	517331	6040220	1	3.2	260	16.0	2.0	5.0	14.0	0.72	2.0	0.5	0.22	10	7.5
97H-8	524367	6055073	1	3.5	120	12.0	0.5	2.0	2.5	0.32	0.5	0.5	0.10	10	7.5
97H-9	524733	6056170	1	2.9	25	17.0	1.0	2.0	2.5	0.20	0.5	0.5	0.07	10	7.5
97H-10	525113	6057420	1	2.5	290	14.0	2.0	3.0	23.0	0.86	5.0	0.5	0.63	10	33.0
97H-11	522988	6055725	3	1.8	130	13.0	0.5	2.0	6.0	0.29	0.5	0.5	0.16	10	7.5
97H-12	519560	6055914	1	3.1	220	14.0	0.5	4.0	16.0	0.68	4.0	0.5	0.63	10	7.5
97H-13	520245	6058104	1	2.7	270	8.3	0.5	3.0	17.0	0.47	3.0	0.5	0.39	10	7.5
97H-14	511198	6058043	1	2.8	260	8.4	0.5	3.0	9.0	0.40	1.0	0.5	0.18	10	7.5
97H-15	502125	6054351	1	1.0	150	7.7	1.0	3.0	6.0	0.36	0.5	0.5	0.11	10	7.5
97H-16	501813	6056254	1	1.1	150	11.0	0.5	2.0	11.0	0.36	1.0	0.5	0.20	10	7.5
97H-17	501778	6057331	1	2.0	140	8.1	0.5	2.0	6.0	0.27	0.5	0.5	0.10	10	7.5
97H-18	502316	6058450	1	1.9	230	9.4	0.5	3.0	15.0	0.61	3.0	0.5	0.32	10	7.5
97H-19	503981	6058302	1	3.0	230	14.0	1.0	3.0	10.0	0.42	1.0	0.5	0.13	10	19.0
97H-20	504550	6057806	1	1.7	80	10.0	0.5	3.0	2.5	0.29	0.5	0.5	0.09	10	7.5
97H-22	509841	6054884	1	2.9	240	11.0	0.5	2.0	17.0	0.51	3.0	0.5	0.43	10	7.5
97H-23	509948	6053778	1	3.0	70	9.8	0.5	2.0	5.0	0.35	0.5	0.5	0.13	10	18.0
97H-24	509040	6054136	1	2.7	130	10.0	0.5	4.0	17.0	0.89	0.5	0.5	0.20	10	7.5
97H-25	509160	6053238	1	0.3	110	17.0	6.0	2.0	14.0	0.45	0.5	1.0	0.09	10	18.0
97H-27	503212	6061166	1	2.6	255	31.0	1.3	3.0	7.3	0.38	1.3	0.5	0.15	10	25.3
97H-28	500798	6058006	1	2.3	240	7.3	1.0	4.0	21.0	0.81	4.0	3.0	0.54	10	35.0
97H-29	500018	6058670	1	1.4	130	8.2	0.5	2.0	12.0	0.43	1.0	0.5	0.17	10	20.0
97H-30	498526	6059429	1	2.0	140	11.0	0.5	2.0	2.5	0.35	1.0	0.5	0.17	10	7.5
97H-31	494124	6062419	1	0.9	220	7.3	1.0	4.0	18.0	0.63	2.0	0.5	0.37	10	21.0
97H-32	495219	6061599	1	1.5	150	11.0	2.0	2.0	6.0	0.26	0.5	4.0	0.10	10	7.5
97H-33	502168	6064279	1	2.8	80	8.1	0.5	1.0	2.5	0.26	0.5	0.5	0.09	10	7.5
97H-34	519499	6053552	1	3.1	60	19.0	0.5	0.5	2.5	0.20	0.5	0.5	0.05	10	7.5
97H-35	517033	6052297	1	1.3	81	16.0	3.0	2.0	11.0	0.58	2.0	0.5	0.23	10	7.5
97H-36	514597	6053054	1	1.6	70	15.0	0.5	1.0	7.0	0.27	0.5	0.5	0.08	10	7.5
97H-37	512445	6053053	1	2.3	25	9.5	0.5	2.0	8.0	0.35	0.5	0.5	0.10	44	7.5
97H-38	511021	6053344	1	2.3	190	26.0	6.0	2.0	16.0	0.72	3.0	0.5	0.38	10	7.5
97H-39	508748	6056431	1	2.2	160	13.0	0.5	1.0	10.0	0.35	1.0	0.5	0.17	10	7.5
97H-40	506940	6057166	1	1.6	69	9.7	0.5	0.5	2.5	0.15	0.5	0.5	0.04	25	7.5
97H-41	507184	6058780	1	1.3	66	11.0	0.5	1.0	2.5	0.18	0.5	0.5	0.06	10	7.5
97H-42	508372	6058594	1	2.8	88	18.0	1.0	0.5	6.0	0.54	0.5	6.0	0.07	10	7.5
97H-43	504203	6061045	1	1.4	74	8.3	1.0	3.0	9.0	0.36	0.5	0.5	0.09	10	7.5
97H-44	503423	6060019	1	2.5	210	9.5	3.0	4.0	17.0	0.89	2.0	0.5	0.36	10	7.5
97H-45	501781	6059766	1	1.5	150	26.0	2.0	3.0	2.5	0.19	0.5	0.5	0.05	10	7.5
97H-46	499940	6063989	1	1.1	170	22.0	2.0	2.0	2.5	0.18	0.5	0.5	0.06	10	17.0
97H-47	507524	6062152	1	3.2	120	20.0	0.5	0.5	6.0	0.27	0.5	4.0	0.08	10	7.5
97H-48	505621	6063322	1	2.9	170	14.0	3.0	9.0	27.0	2.01	2.0	0.5	0.50	10	7.5
97H-49	505397	6061922	1	2.5	25	24.0	3.0	2.0	2.5	0.28	0.5	0.5	0.09	10	17.0
97H-50	505247	6059379	1	3.0	80	15.0	2.0	1.0	6.0	0.20	0.5	0.5	0.08	10	7.5
97H-51	504271	6063350	1	1.9	140	8.1	3.0	2.0	13.0	0.46	1.0	0.5	0.22	10	22.0
97H-52	504799	6056393	1	2.8	140	23.0	3.0	3.0	8.0	0.53	0.8	0.5	0.16	10	21.3
97H-53	504700	6054812	1	1.6	90	6.0	0.5	0.5	6.0	0.22	0.5	0.5	0.10	10	7.5
97H-54	486916	6066031	1	2.9	200	18.0	0.5	2.0	6.0	0.33	1.0	0.5	0.41	10	7.5
97H-55	485756	6066892	1	2.4	190	8.9	0.5	1.0	10.0	0.36	2.0	4.0	0.22	10	7.5
97H-56	485088	6068682	1	2.3	100	13.0	1.0	2.0	2.5	0.25	0.5	0.5	0.11	10	7.5
97H-57	485524	6066062	1	2.5	130	19.0	0.5	1.0	5.0	0.21	0.5	0.5	0.10	10	7.5
97H-58	485360	6065468	2	1.8	180	13.0	2.0	3.0	11.0	0.59	0.5	0.5	0.14	10	7.5
97H-59	500719	6060166	1	3.0	210	16.0	0.5	2.0	10.0	0.44	0.5	0.5	0.16	10	7.5
97H-60	499348	6060438	5	2.7	510	9.0	1.0	4.0	34.0	1.24	5.0	7.0	0.71	10	30.0
97H-61	497206	6060852	1	3.3	210	14.0	4.0	4.0	21.0	0.99	2.0	0.5	0.34	10	7.5
97H-62	496583	6059870	1	3.6	120	21.0	0.5	3.0	12.0	0.91	2.0	4.0	0.24	10	7.5
97H-63	495649	6062459	1	1.7	25	20.0	1.9	1.0	2.5	0.30	0.5	0.5	0.06	10	7.5
97H-64	495880	6064914	1	2.1	210	9.1	3.0	4.0	17.0	0.69	3.0	2.0	0.38	10	7.5
97H-65	498817	6064616	1	3.7	400	8.8	2.0	7.0	41.0	1.81	5.0	4.0	0.80	10	70.0
97H-66	491433	6062854	1	1.7	370	9.7	1.0	3.0	19.0	0.60	5.0	0.5	0.57	10	32.0
97H-67	491159	6063714	3	2.9	74	13.0	0.5	0.8	4.3	0.23	0.5	0.5	0.09	10	7.5
97H-68	492958	6064176	1	2.8	65	15.0	0.5	0.5	2.5	0.17	0.5	0.5	0.08	10	7.5

Sample Site	UTM		Au	As	Ba	Br	Ca	Co	Cr	Fe	Hf	Mo	Na	Ni	Rb
	EAST	NORTH	ppb	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
97H-69	494161	6064535	1	2.0	65	8.0	2.0	3.0	12.0	0.54	0.5	0.5	0.13	10	7.5
97H-70	492821	6062333	1	2.4	65	11.0	0.5	2.0	2.5	0.17	0.5	0.5	0.07	10	7.5
97H-71	518287	6046419	4	5.0	220	16.0	4.0	4.0	30.0	1.10	2.0	3.0	0.47	10	7.5
97H-72	518901	6044811	1	2.6	200	53.0	1.0	4.0	17.0	0.75	1.0	5.0	0.25	72	27.0
97H-73	520311	6044617	1	1.1	230	17.0	4.0	2.0	17.0	0.83	1.0	0.5	0.13	10	7.5
97H-74	521245	6042332	1	5.6	480	5.8	0.5	8.0	70.0	2.48	7.0	0.5	0.73	10	81.0
97H-75	520867	6044001	1	2.1	190	12.0	3.0	7.0	19.0	0.95	1.0	0.5	0.18	10	35.0
97H-76	522120	6041844	1	2.1	65	18.0	3.0	2.0	2.5	0.20	0.5	0.5	0.04	10	7.5
97H-77	524950	6041844	1	3.5	230	8.7	4.0	6.0	27.0	1.05	3.0	0.5	0.40	10	7.5
97H-78	522282	6036707	1	0.3	70	40.0	4.0	3.0	10.0	0.35	0.5	0.5	0.17	10	7.5
97H-79	523264	6036507	1	0.3	25	14.0	0.5	0.5	8.0	0.23	0.5	0.5	0.09	10	7.5
97H-80	522574	6036479	1	2.9	25	24.0	2.0	2.0	2.5	0.15	0.5	0.5	0.05	10	7.5
97H-81	519985	6039050	1	2.5	390	9.8	4.0	5.0	36.0	1.50	5.0	0.5	0.92	10	51.0
97H-82	521310	6040504	1	3.7	270	18.0	4.0	4.0	25.0	1.20	3.0	0.5	0.38	10	34.0
97H-83	521313	6039495	1	2.2	100	18.0	3.0	2.0	6.0	0.26	0.5	0.5	0.08	10	7.5
97H-84	521039	6038827	1	1.7	200	22.0	5.0	4.0	20.0	0.63	2.0	0.5	0.28	10	7.5
97H-85	521819	6038559	1	3.9	450	12.0	2.0	7.0	24.0	0.90	4.0	0.5	0.49	10	28.0
97H-86	523226	6037995	1	2.6	170	23.0	4.0	3.0	8.0	0.37	0.5	0.5	0.08	10	18.0
97H-87	520938	6037469	1	4.1	260	23.0	4.0	15.0	39.0	2.26	2.0	4.0	0.27	66	46.0
97H-88	520527	6041691	1	3.8	275	17.0	4.0	6.0	29.0	1.33	1.8	0.5	0.29	10	37.0
97H-89	523975	6039555	1	1.8	190	63.0	4.0	4.0	2.5	0.35	0.5	0.5	0.05	10	7.5
97H-90	523174	6042220	4	4.2	150	23.0	4.0	2.0	7.0	0.42	0.5	0.5	0.15	10	21.0
97H-91	518535	6038263	1	2.2	100	21.0	2.0	2.0	14.0	0.57	0.5	0.5	0.15	10	7.5
97H-92	520156	6037478	1	2.6	180	19.0	4.0	4.0	13.0	0.58	0.5	0.5	0.18	10	7.5
97H-93	520504	6036253	1	1.5	120	36.0	2.0	0.5	2.5	0.18	0.5	0.5	0.10	10	7.5
97H-94	522084	6035823	1	3.5	150	23.0	5.0	2.0	13.0	0.52	0.5	5.0	0.20	10	21.0
97H-95	519219	6039836	1	1.2	96	16.0	0.5	1.0	2.5	0.18	0.5	0.5	0.07	10	7.5
97H-96	516558	6040903	1	1.7	300	6.9	3.0	3.0	25.0	0.92	3.0	3.0	0.66	10	21.0
97H-97	516780	6043256	1	3.1	100	12.0	4.0	1.0	6.0	0.33	0.5	0.5	0.11	10	7.5
97H-98	517540	6044424	1	2.9	210	17.0	4.0	4.0	28.0	1.18	1.0	0.5	0.20	10	30.0
97H-99	517575	6045717	1	0.9	110	22.0	6.0	1.0	6.0	0.25	0.5	0.5	0.07	10	7.5
97H-100	516705	6045308	1	2.3	130	21.0	5.0	3.0	15.0	0.60	0.5	0.5	0.16	10	16.0
97H-101	518918	6036134	4	1.4	130	18.0	7.0	2.0	14.0	0.52	1.0	2.0	0.23	10	7.5
97H-102	527707	6043021	1	2.1	120	21.0	3.0	1.0	2.5	0.22	0.5	4.0	0.10	10	7.5
97H-103	528252	6043105	1	1.8	220	18.0	5.0	3.0	15.0	0.85	0.5	0.5	0.19	10	7.5
97H-104	527779	6044102	1	3.0	65	22.0	2.0	1.0	2.5	0.19	0.5	5.0	0.09	10	7.5
97H-105	525805	6044636	1	4.6	25	32.0	2.0	2.0	2.5	0.39	0.5	0.5	0.05	10	20.0
97H-106	529083	6046462	1	3.6	25	19.0	3.0	1.0	2.5	0.17	0.5	0.5	0.06	10	7.5
97H-107	528059	6047170	2	1.8	75	20.0	6.0	1.0	2.5	0.35	0.5	0.5	0.08	10	7.5
97H-108	522025	6044072	1	4.5	25	22.0	0.5	1.0	2.5	0.16	0.5	0.5	0.07	10	7.5
97H-109	532452	6050373	1	3.6	220	5.3	3.0	21.0	44.0	3.86	6.0	0.5	1.04	10	25.0
97H-110	531121	6050631	1	2.7	105	18.0	2.0	5.0	2.5	0.45	0.5	0.5	0.06	10	7.5
97H-111	527183	6049725	1	3.4	25	19.0	1.0	1.0	2.5	0.28	0.5	0.5	0.07	10	7.5
97H-112	524659	6049276	1	1.4	25	23.0	1.0	2.0	2.5	0.13	0.5	0.5	0.04	10	7.5
97H-113	525825	6049073	1	3.0	60	9.1	0.5	1.0	2.5	0.14	0.5	0.5	0.05	10	7.5
97H-114	522154	6047887	1	2.1	250	18.0	4.0	5.0	25.0	1.07	3.0	2.0	0.46	10	32.0
97H-115	476770	6068319	1	3.2	270	30.0	3.0	4.0	20.0	1.10	3.0	0.5	0.53	10	33.0
97H-116	476939	6067881	1	3.3	190	22.0	4.0	5.0	16.0	0.76	2.0	1.0	0.30	10	41.0
97H-117	476804	6064944	1	2.6	200	13.0	3.0	5.0	17.0	0.79	2.0	3.0	0.22	10	26.0
97H-118	476238	6065100	1	2.8	160	11.0	3.0	4.0	16.0	0.78	2.0	0.5	0.38	10	23.0
97H-119	477063	6066473	43	4.5	280	26.0	2.0	5.0	33.0	1.88	4.0	2.0	0.80	10	27.0
97H-120	478086	6066782	1	3.2	130	19.0	0.5	2.0	9.0	0.44	2.0	0.5	0.30	10	7.5
97H-121	484469	6064950	1	3.6	130	16.0	0.5	3.0	17.0	0.67	2.0	0.5	0.36	10	15.0
97H-122	483447	6064669	1	3.5	110	13.0	0.5	2.0	10.0	0.49	0.5	0.5	0.16	10	7.5
97H-123	480778	6065799	1	3.0	110	13.0	1.0	5.0	19.0	1.18	1.0	2.0	0.19	10	22.0
97H-124	481778	6066491	1	1.0	140	10.0	0.5	2.0	11.0	0.33	3.0	0.5	0.34	10	18.0
97H-125	480838	6068726	1	2.9	150	14.0	2.0	3.0	14.0	0.52	3.0	0.5	0.43	10	7.5
97H-126	480508	6066960	1	4.4	94	48.0	3.0	6.0	21.0	1.40	2.0	4.0	0.28	10	26.0
97H-127	512649	6046145	1	4.7	75	17.0	0.5	2.0	7.0	0.42	0.5	4.0	0.09	10	7.5
97H-128	512908	6048360	1	2.9	25	21.0	0.5	1.0	2.5	0.18	0.5	0.5	0.06	10	7.5
97H-129	514002	6047001	1	4.7	55	35.0	1.0	2.0	5.0	0.29	0.5	0.5	0.08	10	7.5
97H-130	514803	6046016	1	2.9	200	13.0	3.0	4.0	26.0	1.33	2.0	0.5	0.27	10	28.0
97H-131	515458	6047081	4	4.1	170	18.0	3.0	10.0	22.0	1.28	1.0	0.5	0.14	10	7.5
97H-132	513910	6049816	1	3.8	140	13.0	0.5	4.0	19.0	1.02	1.0	0.5	0.22	10	30.0
97H-133	514916	6050947	1	2.5	130	12.0	0.5	1.0	2.5	0.16	0.5	0.5	0.04	10	7.5
97H-134	513021	6050137	1	3.2	340	7.0	2.0	4.0	22.0	0.76	6.0	0.5	0.91	10	27.0
97H-135	513049	6050683	1	3.8	25	14.0	2.0	2.0	2.5	0.30	0.5	0.5	0.07	10	7.5
97H-136	513377	6052104	1	3.5	240	15.0	3.0	5.0	20.0	1.09	0.5	0.5	0.21	10	7.5
97H-137	515612	6054401	1	3.0	25	21.0	0.5	2.0	2.5	0.23	0.5	0.5	0.04	10	7.5
97H-138	513788	6053203	1	2.9	200	16.0	3.0	4.0	18.0	0.81	3.0	0.5	0.48	10	7.5

Sample Site	UTM		Au	As	Ba	Br	Ca	Co	Cr	Fe	Hf	Mo	Na	Ni	Rb
	EAST	NORTH	ppb	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
97H-139	512201	6047079	1	5.9	400	18.0	3.0	6.0	32.0	1.79	5.0	0.5	0.77	10	49.0
97H-140	510561	6051207	1	3.6	350	10.0	2.0	9.0	39.0	2.26	3.0	6.0	0.68	10	7.5
97H-141	509638	6050746	1	3.1	250	13.0	4.0	4.0	7.0	0.90	1.0	0.5	0.14	10	24.0
97H-142	508624	6051341	1	3.5	65	36.0	4.0	2.0	2.5	0.34	0.5	0.5	0.08	10	7.5
97H-143	503707	6055102	1	4.2	113	12.0	0.5	3.0	7.3	0.47	0.5	0.5	0.11	10	7.5
97H-144	505932	6054078	1	1.4	25	30.0	5.0	3.0	2.5	0.25	0.5	0.5	0.06	10	7.5
97H-145	506193	6051607	1	0.3	150	16.0	4.0	3.0	13.0	0.69	0.5	0.5	0.08	10	7.5
97H-146	514730	6044196	1	5.5	25	38.0	2.0	3.0	2.5	0.81	0.5	0.5	0.03	10	7.5
97H-147	515949	6041823	1	0.3	92	23.0	5.0	2.0	11.0	0.40	0.5	0.5	0.16	10	7.5
97H-148	515048	6043031	1	2.6	160	16.0	4.0	4.0	16.0	1.10	2.0	0.5	0.22	10	7.5
97H-149	514154	6044555	1	2.1	110	27.0	5.0	2.0	10.0	0.51	0.5	0.5	0.10	10	7.5
97H-150	517486	6033988	1	3.9	200	9.5	6.0	3.0	13.0	0.56	2.0	0.5	0.25	10	7.5
97H-151	517522	6032623	8	3.4	140	11.0	3.0	5.0	10.0	0.63	0.5	0.5	0.16	10	7.5
97H-152	517917	6030851	1	3.3	25	11.0	4.0	2.0	2.5	0.26	0.5	0.5	0.06	10	7.5
97H-153	517089	6028676	1	3.7	130	14.0	0.5	1.0	5.0	0.28	1.0	2.0	0.08	54	7.5
97H-154	516412	6032166	1	3.2	85	16.0	2.0	3.0	11.0	0.65	1.0	0.5	0.16	10	21.0
97H-155	512777	6028202	1	2.2	100	5.4	0.5	1.0	2.5	0.18	0.5	0.5	0.05	10	7.5
97H-156	514874	6028199	1	0.3	150	11.0	1.0	2.0	15.0	0.76	1.0	6.0	0.16	10	7.5
97H-157	514218	6029291	1	2.6	120	12.0	0.5	2.0	2.5	0.24	0.5	0.5	0.08	10	7.5
97H-158	513703	6027484	1	2.7	205	9.5	0.8	3.0	17.0	0.82	1.0	0.5	0.21	10	20.0
97H-159	512845	6033996	1	2.0	160	22.0	4.0	4.0	13.0	1.18	3.0	0.5	0.29	10	7.5
97H-160	495421	6033104	1	2.1	84	10.0	2.0	2.0	2.5	0.24	1.0	0.5	0.14	10	7.5
97H-161	494348	6031542	1	0.3	76	11.0	0.5	2.0	8.0	0.31	0.5	0.5	0.15	10	7.5
97H-162	494356	6030881	1	2.6	230	9.7	0.5	1.0	15.0	0.51	2.0	0.5	0.30	10	7.5
97H-163	514501	6026145	1	0.3	280	4.4	3.0	18.0	37.0	3.60	5.0	0.5	1.35	10	28.0
97H-164	513589	6026247	3	2.8	310	13.0	2.0	5.0	30.0	1.58	1.0	0.5	0.17	10	37.0
97H-165	512599	6026335	1	3.9	220	31.0	4.0	5.0	29.0	1.35	3.0	3.0	0.48	10	36.0
97H-166	511598	6026204	1	3.5	250	15.0	4.0	4.0	27.0	1.29	3.0	0.5	0.53	10	31.0
97H-167	513297	6027660	1	5.8	80	13.0	2.0	5.0	12.0	0.65	0.5	0.5	0.22	10	7.5
97H-168	512386	6027803	1	4.0	59	9.7	0.5	2.0	5.0	0.17	0.5	0.5	0.04	10	7.5
97H-169	501038	6027746	5	3.9	190	13.0	4.0	5.0	30.0	1.27	2.0	0.5	0.35	10	34.0
97H-170	515084	6033390	1	3.9	330	8.7	3.0	7.0	31.0	1.50	2.0	0.5	0.25	10	40.0
97H-171	516472	6033483	1	3.2	140	8.0	0.5	4.0	13.0	0.48	0.5	0.5	0.12	10	7.5
97H-172	513930	6032694	1	5.0	72	33.0	0.5	3.0	7.0	0.68	1.0	0.5	0.14	10	7.5
97H-173	511989	6032692	1	2.1	140	11.0	6.0	2.0	7.0	0.53	0.5	0.5	0.06	10	7.5
97H-174	509849	6029481	1	4.7	170	9.8	2.0	3.0	22.0	0.97	0.5	0.5	0.12	10	33.0
97H-175	508028	6029647	1	2.2	96	17.0	5.0	1.0	2.5	0.21	0.5	5.0	0.05	10	7.5
97H-176	507855	6030497	4	3.4	230	9.5	0.5	2.0	11.0	0.50	1.0	0.5	0.25	75	7.5
97H-177	505523	6031030	1	4.9	400	8.6	0.5	3.0	26.0	0.94	4.0	0.5	1.06	83	20.0
97H-178	508908	6028815	1	3.1	200	17.0	3.0	2.0	9.0	0.48	1.0	0.5	0.25	10	7.5
97H-179	511145	6030626	1	5.1	130	14.0	5.0	2.0	11.0	0.72	1.0	0.5	0.12	10	24.0
97H-180	511087	6033247	1	0.3	25	15.0	4.0	0.5	2.5	0.17	0.5	0.5	0.04	10	7.5
97H-181	510327	6032208	1	4.3	220	29.0	3.0	3.0	26.0	1.29	2.0	0.5	0.57	89	27.0
97H-182	513479	6031215	1	2.8	310	14.0	5.0	3.0	17.0	0.82	1.0	0.5	0.19	10	29.0
97H-183	502520	6029633	1	4.7	120	17.0	2.8	3.0	3.8	0.39	0.5	0.5	0.07	10	7.5
97H-184	521348	6034014	1	3.4	25	11.0	4.0	1.0	2.5	0.23	0.5	0.5	0.04	10	7.5
97H-185	519147	6033381	1	2.7	120	12.0	4.0	2.0	14.0	0.75	0.5	0.5	0.06	10	7.5
97H-186	518573	6031574	1	1.8	25	18.0	4.0	1.0	2.5	0.17	0.5	0.5	0.04	10	7.5
97H-187	499197	6032410	1	4.7	57	47.0	4.0	2.0	2.5	0.35	0.5	0.5	0.04	10	7.5
97H-188	498282	6033227	1	3.0	240	8.3	0.5	2.0	7.0	0.28	2.0	0.5	0.30	10	7.5
97H-189	498849	6029766	1	3.7	65	23.0	3.0	1.0	10.0	0.53	0.5	0.5	0.03	10	7.5
97H-190	498167	6028367	1	3.3	200	9.9	0.5	3.0	9.0	0.82	1.0	9.0	0.21	10	7.5
97H-191	497208	6028893	1	3.3	90	8.9	1.0	2.0	10.0	0.43	0.5	0.5	0.14	10	26.0
97H-192	485905	6033746	1	3.7	290	8.6	0.5	1.0	5.0	0.32	1.0	0.5	0.14	10	7.5
97H-193	489935	6033983	1	0.3	130	21.0	3.0	3.0	21.0	0.92	1.0	0.5	0.20	10	17.0
97H-194	491164	6032643	28	1300.0	310	31.0	4.0	27.0	50.0	3.40	4.0	0.5	0.50	10	16.0
97H-195	501211	6032956	3	4.6	160	11.0	2.0	5.0	20.0	1.09	1.0	0.5	0.14	10	7.5
97H-196	494312	6029503	1	7.7	160	9.2	0.5	3.0	40.0	0.58	1.0	0.5	0.21	10	7.5
97H-197	496064	6031902	1	3.9	230	9.8	3.0	4.0	6.0	0.89	1.0	0.5	0.22	10	7.5
97H-198	495940	6029992	1	3.5	260	8.1	0.5	3.0	14.0	0.99	0.5	9.0	0.14	10	7.5
97H-199	495793	6029002	1	3.3	100	7.8	0.5	2.0	8.0	0.30	0.5	0.5	0.12	10	7.5
97H-200	491974	6031864	7	38.0	68	14.0	2.0	4.0	2.5	0.51	0.5	6.0	0.08	10	7.5
97H-201	501310	6029875	1	1.7	25	13.0	4.0	3.0	2.5	0.63	0.5	4.0	0.05	72	7.5
97H-202	503202	6031243	1	0.9	200	14.0	5.0	2.0	12.0	0.67	0.5	0.5	0.11	10	7.5
97H-203	504582	6032523	1	1.7	290	5.7	0.5	3.0	20.0	0.76	6.0	0.5	0.79	10	7.5
97H-204	493311	6034135	1	3.3	25	27.0	2.8	0.5	5.8	0.40	0.5	6.0	0.10	10	7.5
97H-205	492691	6034939	1	2.8	260	4.6	0.5	2.0	24.0	0.63	3.0	0.5	0.55	10	36.0
97H-206	492813	6032211	1	2.4	280	37.0	4.0	3.0	19.0	0.75	4.0	0.5	0.61	10	7.5
97H-207	505903	6027507	1	3.1	120	9.5	3.0	2.0	2.5	0.29	0.5	0.5	0.07	10	7.5
97H-208	508016	6027463	1	3.9	160	12.0	5.0	4.0	25.0	0.99	0.5	7.0	0.11	10	7.5

Sample Site	UTM		Au ppb	As ppm	Ba ppm	Br ppm	Ca %	Co ppm	Cr ppm	Fe %	Hf ppm	Mo ppm	Na %	Ni ppm	Rb ppm
	EAST	NORTH													
97H-209	506661	6028140	1	1.7	150	15.0	5.0	2.0	8.0	0.50	0.5	0.5	0.16	10	7.5
97H-210	506619	6029127	1	2.9	100	16.0	3.0	2.0	10.0	0.53	0.5	4.0	0.10	10	7.5
97H-211	506226	6029915	1	2.2	25	10.0	1.0	1.0	2.5	0.20	0.5	0.5	0.06	10	7.5
97H-212	504366	6029454	1	2.4	390	6.6	0.5	3.0	26.0	0.89	5.0	0.5	0.94	10	7.5
97H-213	503971	6027895	1	7.4	210	9.4	2.0	8.0	20.0	1.03	1.0	0.5	0.22	10	38.0
97H-214	507873	6033627	4	1.4	210	14.0	4.0	2.0	6.0	0.47	2.0	4.0	0.14	10	7.5
97H-215	502859	6032947	4	3.7	180	12.0	2.0	5.0	21.0	1.12	2.0	6.0	0.20	10	7.5
97H-216	500430	6031458	1	5.6	220	15.0	5.0	3.0	17.0	0.88	1.0	4.0	0.26	10	7.5
97H-217	477524	6032937	1	2.3	160	16.0	0.5	4.0	11.0	0.62	1.0	0.5	0.27	10	21.0
97H-218	479469	6034111	1	2.8	120	19.0	5.0	2.0	12.0	0.54	0.5	0.5	0.12	10	22.0
97H-219	476476	6033291	1	2.1	130	17.0	4.0	4.0	17.0	0.60	1.0	0.5	0.10	10	7.5
97H-220	494292	6033037	1	0.8	80	13.0	5.0	1.0	5.0	0.18	0.5	0.5	0.05	10	7.5
97H-221	491778	6033333	1	1.4	150	14.0	4.0	2.0	15.0	0.67	1.0	4.0	0.20	10	7.5
97H-222	489734	6033070	3	1.7	290	4.2	1.0	2.0	15.0	0.56	3.0	0.5	0.64	10	7.5
97H-223	482129	6034706	3	3.1	90	11.0	2.0	2.0	6.0	0.34	0.5	0.5	0.09	10	7.5
97H-224	481343	6033144	1	2.7	200	21.0	3.0	3.0	7.0	0.23	0.5	10.0	0.07	10	7.5
97H-225	484355	6033976	2	3.2	310	5.7	1.3	4.0	20.0	0.91	4.0	0.5	0.67	10	28.8
97H-226	507579	6032592	1	0.9	110	11.0	4.0	1.0	8.0	0.38	0.5	6.0	0.06	10	7.5
97H-227	509576	6033495	1	3.2	140	9.8	2.0	3.0	12.0	0.57	1.0	0.5	0.15	10	7.5
97H-228	504672	6033921	1	3.6	150	10.0	0.5	3.0	9.0	0.51	0.5	5.0	0.13	10	7.5
97H-230	465126	6029280	1	2.4	340	5.1	0.5	2.0	19.0	0.45	3.0	0.5	0.57	10	29.0
97H-231	468014	6029211	1	2.7	200	10.0	2.0	3.0	14.0	0.60	1.0	4.0	0.30	10	7.5
97H-232	474714	6032147	1	2.8	150	6.5	1.0	2.0	14.0	0.63	1.0	0.5	0.22	10	7.5
97H-233	475878	6031424	5	0.3	160	22.0	2.0	3.0	9.0	0.51	0.5	0.5	0.16	10	7.5
97H-234	472653	6030759	3	2.5	200	14.0	3.0	5.0	25.0	1.32	2.0	1.0	0.31	10	44.0
97H-235	473647	6031180	4	4.1	120	12.0	0.5	0.5	10.0	0.23	0.5	0.5	0.08	10	7.5
97H-236	471481	6030684	1	1.7	170	6.0	1.0	2.0	6.0	0.40	0.5	0.5	0.08	10	7.5
97H-237	467781	6031932	1	2.2	140	6.1	0.5	2.0	8.0	0.36	0.5	0.5	0.13	10	7.5
97H-238	467303	6030943	1	1.5	150	7.0	1.0	2.0	7.0	0.46	0.5	4.0	0.15	10	7.5
97H-239	461733	6028498	1	2.7	260	8.3	0.5	6.0	19.0	1.18	1.0	0.5	0.19	10	28.0
97H-240	460875	6028462	1	2.3	180	17.0	5.0	4.0	19.0	1.05	0.5	9.0	0.15	10	20.0
97H-241	461875	6027235	1	2.5	160	10.0	0.5	1.0	6.0	0.28	0.5	0.5	0.14	10	7.5
97H-242	459946	6027489	1	2.9	430	8.9	2.0	4.0	22.0	0.88	2.0	2.0	0.41	10	7.5
97H-243	456102	6028120	1	2.1	100	8.5	0.5	2.0	9.0	0.44	0.5	0.5	0.13	10	16.0
97H-244	453747	6028681	1	2.1	88	23.0	5.0	2.0	9.0	0.46	0.5	3.0	0.10	10	18.0
97H-245	452251	6028338	1	1.1	160	28.0	4.0	2.0	6.0	0.28	0.5	3.0	0.07	10	7.5
97H-246	458806	6027939	1	3.7	220	6.2	0.5	5.0	16.0	0.83	1.0	0.5	0.18	10	7.5
97H-247	455132	6028325	1	3.1	25	14.0	0.5	1.0	2.5	0.15	0.5	4.0	0.04	10	7.5
97H-248	452495	6028976	1	2.4	96	14.0	3.0	2.0	11.0	0.43	1.0	2.0	0.30	10	7.5
97H-249	450994	6027808	1	2.8	240	16.0	5.0	3.0	22.0	0.93	2.0	19.0	0.51	10	27.0
97H-250	449886	6028510	1	1.0	91	14.0	6.0	0.5	2.5	0.18	0.5	4.0	0.05	10	7.5
97H-251	448682	6028724	1	2.6	53	16.0	4.0	2.0	5.0	0.27	0.5	1.0	0.05	10	7.5
97H-252	445395	6029398	1	1.0	270	13.0	3.0	3.0	19.0	1.01	2.0	2.0	0.38	10	7.5
97H-253	443963	6030330	1	2.5	150	8.7	0.8	2.0	9.0	0.39	0.5	0.5	0.15	10	7.5
97H-254	443423	6028525	4	3.9	98	12.0	4.0	0.5	9.0	0.34	0.5	0.5	0.11	10	7.5
97H-255	442843	6030013	5	4.7	350	21.0	3.0	6.0	40.0	1.90	3.0	0.5	0.90	10	36.0
97H-256	442448	6029172	2	1.2	180	22.0	4.0	2.0	16.0	0.48	1.0	0.5	0.26	10	7.5
97H-257	439225	6030492	1	2.4	130	16.0	5.0	2.0	9.0	0.51	0.5	0.5	0.13	10	21.0
97H-258	437900	6030559	1	2.4	190	7.7	1.0	3.0	10.0	0.38	2.0	0.5	0.30	10	7.5
97H-259	438456	6031752	1	1.8	140	6.1	2.0	2.0	13.0	0.50	1.0	0.5	0.23	10	7.5
97H-260	437640	6031393	1	2.8	180	9.6	0.5	2.0	12.0	0.35	0.5	0.5	0.13	10	7.5
97H-261	448532	6027763	1	1.3	25	24.0	4.0	1.0	2.5	0.18	0.5	0.5	0.05	10	7.5
97H-262	435111	6031848	1	2.5	25	8.9	0.5	0.5	2.5	0.22	0.5	0.5	0.07	10	7.5
97H-263	436445	6031287	1	3.6	260	12.0	0.5	2.0	9.0	0.37	0.5	0.5	0.19	10	7.5
97H-264	435337	6030452	1	2.7	140	14.0	0.5	1.0	2.5	0.28	0.5	0.5	0.09	10	7.5
97H-265	440681	6030640	1	4.4	170	12.0	5.0	3.0	14.0	0.52	1.0	0.5	0.22	10	7.5
97H-266	447639	6028463	1	2.0	140	18.0	5.0	4.0	17.0	0.85	0.5	8.0	0.14	10	7.5
97H-267	449222	6028541	1	8.2	25	23.0	2.0	2.0	2.5	0.33	0.5	0.5	0.05	10	7.5
97H-268	457373	6028180	1	3.6	150	5.4	0.5	2.0	9.0	0.61	0.5	0.5	0.12	10	21.0
97H-269	457918	6028804	1	3.2	160	7.6	0.5	2.0	7.0	0.30	0.5	0.5	0.08	72	7.5
97H-270	457492	6027529	1	1.9	97	14.0	2.0	3.0	6.0	0.46	0.5	0.5	0.14	10	7.5
97H-271	465155	6030614	1	2.6	180	5.3	0.5	3.0	9.0	0.67	0.5	0.5	0.12	10	7.5
97H-272	467904	6033232	1	2.8	150	17.0	2.0	3.0	10.0	0.67	0.5	0.5	0.19	10	7.5
97H-273	466096	6029651	1	2.6	135	7.7	2.0	3.0	13.0	0.70	0.5	1.3	0.17	10	24.0
97H-274	468869	6031353	1	3.3	120	22.0	0.5	1.0	2.5	0.41	0.5	0.5	0.10	10	7.5
97H-275	441854	6030334	4	1.1	150	13.0	3.0	1.0	2.5	0.30	0.5	0.5	0.06	10	17.0
97H-276	441356	6029317	1	2.1	25	42.0	4.0	1.0	2.5	0.32	0.5	0.5	0.03	10	7.5
97H-277	455200	6033531	1	1.7	170	13.0	5.0	2.0	15.0	0.58	3.0	2.0	0.47	10	7.5
97H-278	456290	6033898	4	2.5	200	15.0	4.0	2.0	6.0	0.24	0.5	4.0	0.05	10	7.5
97H-279	455920	6035035	5	3.3	100	15.0	4.0	2.0	2.5	0.37	0.5	6.0	0.07	10	7.5

Sample Site	UTM		Au	As	Ba	Br	Ca	Co	Cr	Fe	Hf	Mo	Na	Ni	Rb
	EAST	NORTH	ppb	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
97H-280	456272	6032489	1	1.9	150	14.0	4.0	5.0	28.0	1.40	1.0	0.5	0.13	10	28.0
97H-281	458988	6036919	1	2.4	25	8.6	1.0	0.5	2.5	0.08	0.5	0.5	0.02	10	7.5
97H-282	459526	6035375	1	3.0	100	8.5	3.0	0.5	2.5	0.26	0.5	0.5	0.05	10	7.5
97H-283	457995	6036193	1	4.4	130	14.0	0.5	2.0	7.0	0.30	0.5	0.5	0.13	10	7.5
97H-284	457394	6031755	4	3.1	210	9.6	4.0	3.0	21.0	0.87	1.0	0.5	0.24	10	36.0
97H-285	454410	6030342	1	2.8	100	9.6	0.5	4.0	16.0	0.68	0.5	0.5	0.11	10	7.5
97H-286	453991	6031977	1	3.3	260	20.0	4.0	2.0	2.5	0.38	0.5	10.0	0.05	10	7.5

Sample Site	Sc ppm	Th ppm	U ppm	Zn ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Yb ppm	Lu ppm	TREE ppm
97H-2	2.4	1.4	0.25	60	8.0	13.0	2.5	1.0	0.3	0.6	0.090	25.5
97H-4	0.8	0.7	0.25	73	2.0	5.0	2.5	0.3	0.1	0.1	0.025	10.0
97H-6	2.9	3.8	2.90	64	14.0	23.0	2.5	1.5	0.4	0.7	0.110	42.2
97H-7	2.7	1.5	0.25	68	6.3	10.0	2.5	0.8	0.1	0.4	0.080	20.2
97H-8	1.2	1.1	0.25	25	3.4	7.0	2.5	0.5	0.1	0.1	0.025	13.6
97H-9	0.7	0.1	0.25	25	1.7	5.0	2.5	0.3	0.1	0.1	0.025	9.7
97H-10	4.1	3.5	1.20	25	15.0	27.0	17.0	1.9	0.4	1.1	0.220	62.6
97H-11	1.2	0.7	0.25	25	3.3	5.0	2.5	0.5	0.1	0.2	0.080	11.7
97H-12	2.8	2.3	0.70	25	10.0	19.0	10.0	1.4	0.1	0.8	0.180	41.5
97H-13	2.3	1.9	0.25	25	7.5	13.0	6.0	1.1	0.1	0.7	0.110	28.5
97H-14	1.6	1.5	0.25	25	5.2	7.0	2.5	0.6	0.3	0.4	0.060	16.1
97H-15	1.1	1.3	0.25	25	6.1	12.0	6.0	0.7	0.1	0.3	0.025	25.2
97H-16	1.3	0.9	0.25	25	4.4	8.0	2.5	0.5	0.1	0.1	0.025	15.6
97H-17	1.1	0.7	0.25	25	3.5	5.0	2.5	0.4	0.1	0.2	0.070	11.8
97H-18	2.3	2.0	0.25	25	8.1	14.0	2.5	1.0	0.1	0.6	0.100	26.4
97H-19	1.6	1.7	0.25	82	8.5	16.0	11.0	1.0	0.2	0.2	0.070	37.0
97H-20	1.0	0.8	0.60	25	5.4	9.0	2.5	0.6	0.1	0.3	0.050	18.0
97H-22	2.1	2.4	0.25	25	8.7	17.0	2.5	1.1	0.2	0.5	0.090	30.1
97H-23	1.4	1.4	1.00	25	6.5	10.0	2.5	0.8	0.1	0.2	0.025	20.1
97H-24	3.9	1.4	0.25	25	5.4	9.0	2.5	0.7	0.1	0.6	0.110	18.4
97H-25	1.8	3.1	1.30	25	9.5	15.0	10.0	1.3	0.3	0.4	0.080	36.6
97H-27	1.4	1.0	0.25	200	4.5	7.0	2.5	0.6	0.1	0.4	0.060	15.2
97H-28	3.5	2.7	0.90	25	14.0	21.0	7.0	1.6	0.3	0.9	0.170	45.0
97H-29	1.5	1.4	0.60	25	8.3	15.0	2.5	1.0	0.3	0.4	0.100	27.6
97H-30	1.3	0.7	0.25	25	4.5	11.0	2.5	0.6	0.1	0.3	0.080	19.1
97H-31	2.6	2.2	0.25	25	15.0	30.0	9.0	1.9	0.4	0.9	0.140	57.3
97H-32	1.0	0.6	0.25	64	3.5	6.0	2.5	0.4	0.1	0.3	0.070	12.9
97H-33	1.1	0.8	0.25	25	3.1	5.0	2.5	0.3	0.1	0.2	0.070	11.3
97H-34	0.6	0.3	0.25	25	1.6	4.0	2.5	0.3	0.1	0.1	0.025	8.6
97H-35	2.2	2.3	0.70	25	12.0	19.0	2.5	1.5	0.4	0.6	0.100	36.1
97H-36	0.9	0.9	0.25	25	2.5	5.0	2.5	0.3	0.1	0.2	0.025	10.6
97H-37	1.4	0.9	0.25	25	2.7	5.0	2.5	0.4	0.1	0.2	0.025	10.9
97H-38	2.6	3.0	1.40	25	13.0	20.0	8.0	1.6	0.3	0.8	0.140	43.8
97H-39	1.3	1.3	0.25	25	4.4	8.0	2.5	0.6	0.1	0.3	0.070	16.0
97H-40	0.5	0.3	0.25	25	1.7	1.5	2.5	0.2	0.1	0.1	0.025	6.1
97H-41	0.7	0.6	0.25	25	1.9	5.0	2.5	0.3	0.1	0.2	0.025	10.0
97H-42	1.0	0.6	0.25	25	3.8	6.0	2.5	0.5	0.2	0.1	0.025	13.1
97H-43	1.3	1.2	0.25	25	7.0	13.0	2.5	0.9	0.1	0.4	0.060	24.0
97H-44	3.5	3.6	1.20	25	18.0	30.0	15.0	2.1	0.4	0.8	0.160	66.5
97H-45	0.8	0.9	0.25	113	3.9	8.0	2.5	0.6	0.1	0.2	0.025	15.3
97H-46	0.6	0.6	0.25	128	2.0	3.0	2.5	0.3	0.1	0.1	0.025	8.0
97H-47	0.9	0.3	0.25	25	2.8	5.0	2.5	0.4	0.1	0.1	0.025	10.9
97H-48	8.7	2.5	0.25	72	12.0	24.0	11.0	1.9	0.5	1.1	0.220	50.7
97H-49	1.0	1.3	0.25	25	7.0	11.0	2.5	0.6	0.1	0.2	0.025	21.4
97H-50	1.0	0.7	0.25	25	3.1	5.0	2.5	0.4	0.1	0.1	0.025	11.2
97H-51	1.8	1.7	0.25	25	9.6	15.0	9.0	1.4	0.3	0.5	0.090	35.9
97H-52	1.8	2.3	0.53	25	12.1	21.0	10.0	1.5	0.5	0.6	0.100	45.7
97H-53	0.9	0.5	0.25	25	2.5	4.0	2.5	0.3	0.1	0.2	0.025	9.6
97H-54	1.2	1.1	0.25	25	4.1	6.0	2.5	0.5	0.1	0.2	0.060	13.5
97H-55	1.7	1.3	0.25	25	5.0	8.0	2.5	0.7	0.2	0.3	0.070	16.8
97H-56	0.9	0.6	0.25	25	3.2	6.0	2.5	0.4	0.1	0.3	0.025	12.5
97H-57	0.9	0.6	0.25	25	2.8	5.0	2.5	0.4	0.1	0.1	0.025	10.9
97H-58	2.3	2.6	0.25	115	15.0	29.0	13.0	1.9	0.4	0.6	0.100	60.0
97H-59	1.8	1.3	0.25	25	5.5	8.0	2.5	0.7	0.1	0.4	0.070	17.3
97H-60	4.4	5.1	1.00	25	21.0	35.0	10.0	2.1	0.5	1.2	0.200	70.0
97H-61	3.5	4.1	1.10	25	20.0	29.0	8.0	2.3	0.5	0.9	0.150	60.9
97H-62	2.7	5.9	3.20	25	42.0	64.0	19.0	3.1	0.5	0.7	0.140	129.4
97H-63	1.0	1.4	0.25	25	5.1	10.0	2.5	0.7	0.2	0.3	0.043	18.8
97H-64	2.6	2.6	0.90	25	16.0	26.0	9.0	1.9	0.5	0.8	0.130	54.3
97H-65	6.6	7.2	1.80	25	36.0	57.0	22.0	4.2	0.9	1.5	0.300	121.9
97H-66	2.5	2.6	0.25	25	10.0	16.0	10.0	1.3	0.3	0.9	0.150	38.7
97H-67	0.9	0.6	0.25	25	2.8	5.0	2.5	0.4	0.1	0.2	0.043	11.0
97H-68	0.8	0.5	0.25	25	2.4	1.5	8.0	0.3	0.1	0.1	0.025	12.4

Sample Site	Sc ppm	Th ppm	U ppm	Zn ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Yb ppm	Lu ppm	TREE ppm
97H-69	1.9	2.2	0.25	25	9.8	11.0	2.5	1.2	0.2	0.4	0.090	25.2
97H-70	0.7	0.4	0.25	25	2.2	3.0	2.5	0.3	0.1	0.2	0.025	8.3
97H-71	3.7	3.4	3.20	54	12.0	26.0	12.0	1.5	0.4	0.7	0.170	52.8
97H-72	2.6	2.4	0.25	80	9.2	20.0	2.5	1.2	0.3	0.5	0.120	33.8
97H-73	2.8	3.7	7.50	25	14.0	21.0	12.0	1.5	0.4	0.8	0.140	49.8
97H-74	9.9	13.0	2.70	81	56.0	84.0	34.0	6.3	1.2	2.0	0.460	184.0
97H-75	4.6	2.1	0.25	90	17.0	30.0	17.0	2.1	0.5	0.7	0.110	67.4
97H-76	0.7	0.1	0.25	25	2.2	5.0	2.5	0.3	0.1	0.1	0.025	10.2
97H-77	4.2	4.9	0.90	25	29.0	41.0	21.0	3.4	0.8	1.0	0.190	96.4
97H-78	1.6	1.9	1.50	25	6.6	11.0	2.5	0.9	0.1	0.3	0.050	21.5
97H-79	0.6	0.5	0.25	25	1.6	1.5	2.5	0.2	0.1	0.1	0.025	6.0
97H-80	0.6	0.3	0.25	25	2.3	6.0	2.5	0.3	0.1	0.1	0.025	11.3
97H-81	5.5	6.1	1.80	25	24.0	34.0	15.0	3.1	0.8	1.3	0.220	78.4
97H-82	4.1	5.3	1.90	112	30.0	37.0	15.0	3.3	0.8	1.0	0.210	87.3
97H-83	1.1	0.9	0.25	117	3.6	6.0	6.0	0.5	0.1	0.3	0.025	16.5
97H-84	3.1	3.3	0.70	25	13.0	22.0	2.5	1.9	0.4	0.8	0.150	40.8
97H-85	3.7	3.3	0.25	108	19.0	29.0	10.0	1.9	0.4	1.0	0.200	61.5
97H-86	1.5	1.2	0.25	25	6.5	12.0	2.5	0.8	0.1	0.3	0.050	22.3
97H-87	6.8	9.2	1.60	25	55.0	82.0	37.0	6.6	1.3	1.7	0.330	183.9
97H-88	5.0	6.9	1.33	39	46.0	69.0	32.0	5.4	1.1	1.4	0.270	155.2
97H-89	1.2	1.4	1.30	25	7.3	12.0	2.5	0.9	0.3	0.3	0.025	23.3
97H-90	1.6	1.3	0.25	170	4.6	8.0	2.5	0.6	0.1	0.4	0.060	16.3
97H-91	1.9	2.0	0.80	25	11.0	18.0	8.0	1.3	0.3	0.6	0.090	39.3
97H-92	1.8	2.0	8.80	25	13.0	18.0	6.0	1.5	0.4	0.6	0.100	39.6
97H-93	1.2	1.0	0.25	25	3.7	6.0	2.5	0.5	0.1	0.2	0.025	13.0
97H-94	2.1	2.1	1.70	25	8.3	14.0	5.0	1.1	0.4	0.4	0.060	29.3
97H-95	0.8	0.8	0.25	25	3.1	5.0	2.5	0.4	0.1	0.1	0.025	11.2
97H-96	3.7	3.9	1.30	92	17.0	30.0	15.0	2.2	0.4	1.1	0.080	65.8
97H-97	1.3	1.1	0.25	67	4.5	7.0	2.5	0.6	0.1	0.5	0.080	15.3
97H-98	3.8	5.5	2.30	25	31.0	39.0	15.0	3.6	0.7	1.2	0.060	90.6
97H-99	1.2	1.7	1.00	25	3.8	8.0	2.5	0.6	0.1	0.3	0.050	15.4
97H-100	2.1	3.0	1.00	25	9.5	15.0	2.5	1.2	0.1	0.5	0.080	28.9
97H-101	2.0	2.2	2.20	25	11.0	15.0	7.0	1.4	0.4	0.7	0.090	35.6
97H-102	1.0	0.7	0.25	62	3.2	5.0	2.5	0.3	0.1	0.1	0.025	11.2
97H-103	2.8	3.9	6.20	25	19.0	22.0	16.0	2.0	0.5	0.7	0.140	60.3
97H-104	0.8	0.8	0.25	25	3.5	7.0	8.0	0.4	0.1	0.2	0.025	19.2
97H-105	0.4	0.1	0.25	25	1.2	1.5	2.5	0.2	0.1	0.1	0.025	5.6
97H-106	0.6	0.6	0.25	25	2.2	1.5	2.5	0.3	0.1	0.1	0.025	6.7
97H-107	1.1	1.5	0.80	25	5.4	8.0	2.5	0.7	0.1	0.2	0.025	16.9
97H-108	0.7	0.5	0.25	25	2.1	4.0	2.5	0.3	0.1	0.1	0.025	9.1
97H-109	24.0	2.9	0.25	116	12.0	20.0	13.0	2.3	0.7	2.4	0.430	50.8
97H-110	1.8	0.9	0.25	25	11.0	14.0	9.0	1.6	0.4	0.4	0.110	36.5
97H-111	1.1	1.4	0.25	25	4.1	6.0	2.5	0.6	0.1	0.3	0.025	13.6
97H-112	0.6	0.4	0.25	25	1.9	5.0	2.5	0.3	0.1	0.1	0.025	9.9
97H-113	0.6	0.5	0.25	25	1.7	1.5	2.5	0.3	0.1	0.1	0.025	6.2
97H-114	4.1	5.2	4.00	25	19.0	29.0	15.0	2.4	0.6	1.1	0.170	67.3
97H-115	3.4	4.3	3.70	25	15.0	23.0	10.0	1.7	0.4	0.8	0.140	51.0
97H-116	3.1	4.4	1.20	25	21.0	32.0	13.0	2.4	0.5	0.8	0.140	69.8
97H-117	2.4	3.0	1.50	25	24.0	50.0	17.0	2.9	0.7	0.8	0.130	95.5
97H-118	3.1	3.4	1.40	25	16.0	26.0	11.0	2.0	0.5	0.7	0.160	56.4
97H-119	4.7	5.2	5.20	25	19.0	31.0	12.0	2.3	0.7	1.1	0.190	66.3
97H-120	1.8	1.2	0.25	25	5.8	11.0	2.5	0.8	0.1	0.3	0.060	20.6
97H-121	2.3	3.2	0.25	25	9.9	21.0	2.5	1.3	0.2	0.5	0.100	35.5
97H-122	1.8	1.7	0.25	25	6.1	10.0	2.5	0.8	0.1	0.4	0.060	20.0
97H-123	2.6	2.8	3.30	25	9.4	14.0	6.0	1.1	0.1	0.4	0.080	31.1
97H-124	1.6	1.9	0.25	25	6.4	11.0	2.5	0.9	0.1	0.6	0.090	21.6
97H-125	2.4	2.0	0.25	25	7.1	13.0	2.5	1.0	0.1	0.5	0.110	24.3
97H-126	2.8	3.5	5.90	25	13.0	21.0	8.0	1.5	0.4	0.5	0.110	44.5
97H-127	0.9	0.8	0.25	25	2.6	7.0	2.5	0.3	0.1	0.3	0.060	12.9
97H-128	0.6	0.6	0.25	51	1.8	3.0	2.5	0.3	0.1	0.1	0.025	7.8
97H-129	1.0	0.9	0.25	72	3.5	6.0	2.5	0.6	0.1	0.3	0.025	13.0
97H-130	3.9	4.7	2.30	25	26.0	36.0	17.0	2.9	0.7	0.9	0.160	83.7
97H-131	4.3	5.5	2.30	25	53.0	85.0	42.0	6.2	1.4	1.5	0.250	189.4
97H-132	3.6	2.9	0.25	25	16.0	29.0	8.0	1.8	0.4	0.6	0.150	56.0
97H-133	0.6	0.7	0.70	25	1.8	3.0	2.5	0.2	0.1	0.2	0.025	7.8
97H-134	3.3	3.0	1.00	25	14.0	23.0	2.5	1.8	0.6	1.0	0.140	43.0
97H-135	1.1	0.1	0.25	25	3.0	4.0	2.5	0.5	0.1	0.4	0.060	10.6
97H-136	3.3	4.3	3.30	25	25.0	29.0	15.0	2.8	0.5	1.0	0.130	73.4
97H-137	0.9	1.1	0.25	64	2.3	8.0	2.5	0.4	0.1	0.1	0.025	13.4
97H-138	3.1	3.2	1.10	25	13.0	19.0	2.5	1.7	0.3	0.7	0.140	37.3

Sample Site	Sc ppm	Th ppm	U ppm	Zn ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Yb ppm	Lu ppm	TREE ppm
97H-139	5.3	6.6	5.50	95	22.0	38.0	15.0	2.8	0.7	1.2	0.200	79.9
97H-140	8.3	3.7	1.70	25	40.0	60.0	26.0	4.4	1.0	1.7	0.240	133.3
97H-141	2.9	3.4	1.40	25	16.0	26.0	14.0	1.9	0.3	0.6	0.100	58.9
97H-142	1.0	0.7	0.25	78	2.4	5.0	2.5	0.4	0.1	0.1	0.025	10.5
97H-143	1.8	0.7	0.25	25	2.9	6.0	2.5	0.5	0.1	0.1	0.025	12.1
97H-144	0.9	1.2	0.25	25	3.3	6.0	2.5	0.5	0.1	0.1	0.025	12.5
97H-145	2.0	3.3	0.25	25	11.0	14.0	2.5	1.4	0.1	0.5	0.025	29.5
97H-146	0.5	0.5	0.25	25	1.9	1.5	2.5	0.3	0.1	0.1	0.025	6.4
97H-147	1.6	2.2	1.40	25	8.1	15.0	2.5	1.0	0.2	0.4	0.070	27.3
97H-148	2.8	3.4	2.20	25	13.0	23.0	11.0	1.6	0.4	0.5	0.150	49.7
97H-149	1.9	2.8	23.00	25	15.0	16.0	10.0	1.3	0.3	0.4	0.060	43.1
97H-150	2.7	3.3	0.25	63	15.0	18.0	11.0	1.9	0.3	0.7	0.140	47.0
97H-151	2.3	2.7	0.25	25	33.0	61.0	26.0	3.9	0.8	0.9	0.120	125.7
97H-152	1.0	1.0	0.25	25	4.1	6.0	2.5	0.6	0.1	0.3	0.025	13.6
97H-153	1.1	0.7	0.25	25	4.5	8.0	10.0	0.5	0.1	0.1	0.025	23.2
97H-154	1.9	2.3	1.00	25	7.6	13.0	6.0	0.9	0.1	0.4	0.060	28.1
97H-155	0.8	0.4	0.25	25	1.9	4.0	2.5	0.3	0.1	0.1	0.025	8.9
97H-156	2.7	3.5	1.20	25	15.0	27.0	2.5	1.6	0.3	0.5	0.100	47.0
97H-157	0.9	0.5	0.25	25	3.7	7.0	2.5	0.4	0.1	0.2	0.025	13.9
97H-158	3.2	2.3	0.25	25	10.1	19.0	8.0	1.2	0.3	0.5	0.070	39.2
97H-159	2.0	2.8	3.30	25	11.0	18.0	9.0	1.4	0.1	0.7	0.100	40.3
97H-160	0.9	0.9	0.25	25	3.2	7.0	2.5	0.5	0.1	0.3	0.025	13.6
97H-161	1.0	0.6	0.90	25	4.0	5.0	2.5	0.5	0.1	0.3	0.080	12.5
97H-162	2.3	1.7	0.70	25	8.0	13.0	2.5	0.9	0.2	0.3	0.090	25.0
97H-163	13.0	2.6	1.30	25	9.6	15.0	2.5	1.8	0.6	1.6	0.280	31.4
97H-164	4.3	6.8	2.40	25	31.0	28.0	22.0	3.4	0.7	1.0	0.170	86.3
97H-165	4.2	5.4	2.20	51	17.0	27.0	13.0	2.1	0.6	0.9	0.140	60.7
97H-166	4.5	5.8	1.20	25	25.0	34.0	23.0	2.9	0.8	1.3	0.260	87.3
97H-167	2.7	3.1	0.25	51	11.0	19.0	16.0	1.3	0.4	0.5	0.080	48.3
97H-168	0.6	0.1	0.25	25	2.0	4.0	2.5	0.2	0.1	0.1	0.025	8.9
97H-169	4.5	4.6	0.25	25	17.0	28.0	14.0	2.0	0.5	0.7	0.120	62.3
97H-170	4.8	6.2	0.25	75	53.0	71.0	37.0	5.4	1.2	1.6	0.230	169.4
97H-171	2.0	1.9	0.25	89	17.0	22.0	22.0	1.8	0.6	0.5	0.080	64.0
97H-172	1.6	2.1	0.25	25	6.7	11.0	2.5	0.9	0.1	0.4	0.060	21.7
97H-173	1.1	1.6	6.60	25	5.6	8.0	5.0	0.7	0.3	0.1	0.025	19.7
97H-174	2.7	3.9	0.25	25	15.0	18.0	20.0	1.8	0.5	0.5	0.090	55.9
97H-175	0.6	0.8	1.40	25	2.6	4.0	2.5	0.4	0.2	0.1	0.025	9.8
97H-176	1.9	1.8	0.25	25	6.0	11.0	2.5	0.7	0.3	0.4	0.060	21.0
97H-177	4.2	4.0	0.25	25	14.0	23.0	9.0	1.8	0.6	0.9	0.170	49.5
97H-178	1.8	2.4	1.20	57	8.4	15.0	2.5	1.0	0.1	0.5	0.070	27.6
97H-179	2.3	2.8	0.25	25	33.0	39.0	35.0	3.7	0.7	0.8	0.160	112.4
97H-180	0.9	1.1	0.25	25	3.7	5.0	2.5	0.7	0.1	0.4	0.060	12.5
97H-181	3.2	4.5	4.00	52	20.0	29.0	20.0	2.3	0.7	1.0	0.180	73.2
97H-182	3.4	4.7	3.50	25	16.0	21.0	2.5	1.7	0.4	0.6	0.060	42.3
97H-183	1.7	1.4	0.90	25	7.1	10.0	2.5	0.9	0.3	0.3	0.060	21.2
97H-184	0.6	0.6	0.25	25	2.5	5.0	2.5	0.4	0.1	0.2	0.025	10.7
97H-185	2.1	3.6	1.30	25	18.0	26.0	12.0	1.8	0.6	0.5	0.070	59.0
97H-186	0.5	0.8	0.25	25	2.2	1.5	2.5	0.4	0.1	0.1	0.025	6.8
97H-187	0.6	0.7	0.25	25	2.2	5.0	2.5	0.3	0.2	0.1	0.025	10.3
97H-188	1.1	1.0	0.25	25	4.8	7.0	2.5	0.6	0.1	0.1	0.025	15.1
97H-189	0.5	1.4	1.20	25	5.1	10.0	2.5	0.4	0.1	0.1	0.025	18.2
97H-190	2.8	3.2	0.25	54	16.0	28.0	2.5	1.6	0.4	0.7	0.070	49.3
97H-191	1.7	2.0	0.25	25	15.0	21.0	11.0	1.6	0.3	0.5	0.120	49.5
97H-192	1.4	1.0	0.25	25	5.5	12.0	2.5	0.7	0.3	0.3	0.080	21.4
97H-193	3.4	5.1	1.70	25	24.0	41.0	20.0	2.6	0.7	0.8	0.150	89.3
97H-194	9.9	13.0	2.80	25	37.0	50.0	33.0	5.5	1.3	2.5	0.400	129.7
97H-195	4.1	6.5	1.00	25	29.0	42.0	24.0	3.0	0.8	1.2	0.180	100.2
97H-196	2.3	1.1	0.25	82	4.3	6.0	2.5	0.6	0.2	0.4	0.080	14.1
97H-197	2.6	3.9	0.25	25	26.0	42.0	21.0	2.7	0.6	0.8	0.110	93.2
97H-198	2.7	3.3	0.25	58	30.0	52.0	22.0	2.7	0.7	0.8	0.170	108.4
97H-199	1.4	1.0	0.25	65	5.4	11.0	2.5	0.5	0.4	0.3	0.060	20.2
97H-200	1.7	2.3	0.25	25	22.0	37.0	16.0	2.2	0.1	0.7	0.025	78.0
97H-201	0.9	1.1	3.00	25	4.3	7.0	2.5	0.5	0.1	0.1	0.025	14.5
97H-202	2.1	3.2	2.10	25	11.0	18.0	11.0	1.2	0.3	0.5	0.100	42.1
97H-203	3.4	3.3	0.90	25	14.0	27.0	13.0	1.6	0.4	1.2	0.240	57.4
97H-204	1.6	1.3	1.80	64	8.4	6.3	2.5	1.1	0.3	0.3	0.025	18.9
97H-205	2.8	2.8	1.50	25	10.0	18.0	7.0	1.1	0.4	0.8	0.140	37.4
97H-206	2.7	3.9	1.00	65	13.0	20.0	10.0	1.6	0.5	0.7	0.130	45.9
97H-207	0.8	1.2	0.25	67	3.5	6.0	2.5	0.5	0.2	0.3	0.025	13.0
97H-208	2.6	3.8	0.25	25	17.0	18.0	14.0	1.7	0.3	0.5	0.080	51.6

Sample Site	Sc ppm	Th ppm	U ppm	Zn ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Yb ppm	Lu ppm	TREE ppm
97H-209	1.6	1.8	0.60	56	7.4	10.0	7.0	0.9	0.3	0.5	0.100	26.2
97H-210	1.3	1.3	6.60	58	6.5	13.0	2.5	0.7	0.2	0.1	0.025	23.0
97H-211	0.7	0.5	0.25	25	2.0	5.0	2.5	0.3	0.1	0.2	0.025	10.1
97H-212	3.5	2.9	0.70	25	12.0	23.0	6.0	1.5	0.5	0.9	0.120	44.0
97H-213	3.0	3.1	0.25	25	22.0	42.0	16.0	2.2	0.7	0.7	0.140	83.7
97H-214	1.6	1.8	1.20	25	6.4	11.0	2.5	0.8	0.3	0.5	0.070	21.6
97H-215	3.9	5.7	0.25	25	44.0	70.0	28.0	4.3	1.0	1.4	0.220	148.9
97H-216	3.0	3.3	1.30	60	13.0	23.0	11.0	1.5	0.5	0.5	0.110	49.6
97H-217	2.5	3.6	1.30	25	12.0	21.0	2.5	1.3	0.2	0.6	0.070	37.7
97H-218	1.7	2.2	1.30	25	12.0	14.0	8.0	1.1	0.3	0.4	0.060	35.9
97H-219	2.2	2.8	0.80	25	10.0	15.0	7.0	1.0	0.3	0.3	0.080	33.7
97H-220	0.7	0.7	0.80	25	3.0	6.0	2.5	0.4	0.1	0.1	0.025	12.1
97H-221	2.3	2.8	2.30	25	13.0	17.0	10.0	1.4	0.4	0.8	0.080	42.7
97H-222	2.5	2.6	0.60	63	10.0	19.0	10.0	1.2	0.3	0.8	0.130	41.4
97H-223	1.4	1.5	0.25	25	12.0	22.0	7.0	1.4	0.4	0.3	0.090	43.2
97H-224	1.0	1.2	12.00	57	3.6	7.0	12.0	0.6	0.1	0.1	0.025	23.4
97H-225	3.4	3.4	0.48	46	18.0	30.0	15.0	2.0	0.6	1.0	0.160	66.7
97H-226	1.3	1.9	5.10	25	7.9	12.0	2.5	0.9	0.3	0.3	0.070	24.0
97H-227	2.1	2.4	0.25	25	15.0	20.0	8.0	1.6	0.4	0.5	0.080	45.6
97H-228	1.9	1.6	0.25	25	10.0	20.0	2.5	1.1	0.5	0.5	0.070	34.7
97H-230	2.3	1.8	0.25	25	8.0	13.0	2.5	1.0	0.4	0.7	0.110	25.7
97H-231	2.6	2.8	0.25	25	11.0	20.0	7.0	1.2	0.4	0.6	0.120	40.3
97H-232	2.5	2.2	0.25	25	13.0	26.0	8.0	1.4	0.4	0.7	0.100	49.6
97H-233	2.3	2.3	0.25	25	9.8	16.0	2.5	1.2	0.2	0.6	0.110	30.4
97H-234	3.6	3.9	2.10	25	18.0	31.0	9.0	2.0	0.5	0.8	0.130	61.4
97H-235	0.8	0.3	0.25	62	2.6	1.5	2.5	0.3	0.1	0.1	0.060	7.2
97H-236	1.8	1.4	0.25	51	9.5	20.0	7.0	1.1	0.3	0.3	0.060	38.3
97H-237	1.5	1.2	0.25	74	5.3	8.0	2.5	0.6	0.1	0.3	0.070	16.9
97H-238	1.8	1.3	0.25	57	5.5	9.0	2.5	0.6	0.4	0.3	0.025	18.3
97H-239	3.9	4.6	1.40	67	30.0	56.0	21.0	2.9	0.8	1.0	0.130	111.8
97H-240	3.2	4.6	5.20	25	15.0	22.0	11.0	1.7	0.5	0.7	0.120	51.0
97H-241	1.1	0.8	0.25	25	3.8	9.0	2.5	0.4	0.3	0.2	0.025	16.2
97H-242	3.1	2.9	0.25	167	9.7	17.0	7.0	1.1	0.1	0.6	0.130	35.6
97H-243	1.5	1.1	0.25	25	5.5	9.0	5.0	0.7	0.1	0.3	0.060	20.7
97H-244	1.5	2.1	3.00	25	7.0	9.0	2.5	0.8	0.3	0.3	0.070	20.0
97H-245	1.0	1.1	2.10	25	3.8	6.0	2.5	0.5	0.1	0.2	0.070	13.2
97H-246	3.2	4.0	0.90	61	32.0	52.0	25.0	3.0	0.7	1.0	0.140	113.8
97H-247	0.6	0.9	0.25	54	2.5	6.0	2.5	0.4	0.1	0.1	0.025	11.6
97H-248	1.6	1.3	0.90	25	6.5	10.0	5.0	0.8	0.3	0.3	0.070	23.0
97H-249	3.0	3.7	15.00	25	15.0	23.0	11.0	1.9	0.5	0.7	0.130	52.2
97H-250	0.6	0.9	2.40	64	2.4	3.0	2.5	0.3	0.1	0.1	0.025	8.4
97H-251	0.9	1.4	2.00	25	3.4	7.0	2.5	0.5	0.1	0.2	0.025	13.7
97H-252	3.5	3.8	1.00	25	16.0	27.0	14.0	1.8	0.5	0.9	0.140	60.3
97H-253	1.6	1.6	0.38	25	8.2	13.0	4.3	0.9	0.3	0.4	0.070	27.2
97H-254	1.3	1.9	0.60	25	5.8	9.0	6.0	0.7	0.2	0.3	0.070	22.1
97H-255	5.4	7.1	1.10	74	22.0	42.0	18.0	2.5	0.7	1.1	0.230	86.5
97H-256	1.9	2.2	1.10	25	7.5	11.0	5.0	0.8	0.1	0.5	0.080	25.0
97H-257	2.1	3.5	1.30	25	14.0	20.0	9.0	1.4	0.4	0.5	0.070	45.4
97H-258	1.7	1.5	0.90	25	9.0	13.0	6.0	0.8	0.1	0.4	0.060	29.4
97H-259	1.6	1.4	0.25	85	6.9	9.0	2.5	0.8	0.1	0.4	0.050	19.8
97H-260	1.6	1.3	0.25	25	4.6	8.0	2.5	0.6	0.1	0.3	0.025	16.1
97H-261	0.4	0.6	0.90	25	1.7	5.0	9.0	0.2	0.1	0.1	0.025	16.1
97H-262	0.6	0.6	0.25	25	2.5	8.0	2.5	0.3	0.1	0.1	0.025	13.5
97H-263	1.4	1.6	0.25	25	5.2	8.0	2.5	0.7	0.1	0.3	0.080	16.9
97H-264	0.8	0.1	0.90	53	1.8	1.5	2.5	0.3	0.3	0.1	0.025	6.5
97H-265	2.3	2.6	1.70	25	12.0	16.0	9.0	1.4	0.1	0.7	0.025	39.2
97H-266	1.7	2.2	2.90	25	15.0	21.0	11.0	1.6	0.1	0.4	0.090	49.2
97H-267	0.6	1.0	1.60	104	2.8	1.5	2.5	0.3	0.1	0.1	0.025	7.3
97H-268	2.0	2.8	0.25	25	15.0	22.0	9.0	1.6	0.4	0.6	0.080	48.7
97H-269	1.0	0.9	0.25	83	4.2	7.0	11.0	0.4	0.2	0.1	0.025	22.9
97H-270	1.9	1.3	0.80	93	8.3	16.0	2.5	0.9	0.1	0.4	0.070	28.3
97H-271	2.1	2.4	0.25	25	23.0	30.0	13.0	2.0	0.5	0.7	0.025	69.2
97H-272	2.4	3.0	1.00	74	12.0	20.0	11.0	1.2	0.4	0.6	0.150	45.4
97H-273	2.7	4.2	0.25	52	34.0	39.0	22.0	3.1	0.8	1.1	0.190	100.2
97H-274	1.3	1.1	0.25	93	3.7	5.0	2.5	0.5	0.1	0.4	0.025	12.2
97H-275	1.0	1.4	1.10	25	5.8	10.0	2.5	0.6	0.3	0.1	0.025	19.3
97H-276	0.4	0.1	0.25	25	1.2	1.5	2.5	0.2	0.2	0.2	0.025	5.8
97H-277	2.5	2.9	1.60	77	10.0	17.0	12.0	1.2	0.1	0.6	0.120	41.0
97H-278	0.7	0.9	0.25	25	2.6	6.0	2.5	0.4	0.1	0.2	0.025	11.8
97H-279	1.0	1.1	0.25	62	3.0	6.0	2.5	0.4	0.1	0.1	0.070	12.2

Sample Site	Sc ppm	Th ppm	U ppm	Zn ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Yb ppm	Lu ppm	TREE ppm
97H-280	4.0	6.1	0.90	25	15.0	27.0	13.0	1.6	0.3	0.6	0.170	57.7
97H-281	0.3	0.3	0.25	25	0.9	1.5	2.5	0.1	0.1	0.1	0.025	5.2
97H-282	0.7	1.0	0.25	25	2.6	5.0	2.5	0.4	0.1	0.1	0.025	10.7
97H-283	1.1	0.9	0.25	67	3.1	7.0	2.5	0.5	0.3	0.4	0.025	13.8
97H-284	3.1	4.7	1.20	92	19.0	22.0	16.0	1.7	0.5	0.8	0.160	60.2
97H-285	2.3	4.9	1.30	25	23.0	38.0	10.0	2.4	0.5	0.9	0.140	74.9
97H-286	1.1	1.3	4.50	51	3.1	9.0	2.5	0.5	0.1	0.1	0.025	15.3

Appendix 5

Humus Geochemistry: Duplicate pair INA Analyses.

Sample Site	UTM		Au	As	Ba	Br	Ca	Co	Cr	Fe	Hf	Mo	Na	Ni	Rb	Sc
	EAST	NORTH	ppb	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
97H-27-1	503212	6061166	1	2.4	180	29.0	0.5	3.0	2.5	0.22	0.5	0.5	0.06	10	7.5	0.7
97H-27-2	503212	6061166	1	2.7	330	32.0	2.0	4.0	12.0	0.54	2.0	0.5	0.23	10	43.0	2.0
97H-52-1	504799	6056393	1	3.0	160	15.0	3.0	4.0	11.0	0.71	1.0	0.5	0.17	10	35.0	2.5
97H-52-2	504799	6056393	1	2.6	120	30.0	3.0	2.0	5.0	0.34	0.5	0.5	0.14	10	7.5	1.0
97H-63-1	495649	6062459	1	2.4	-50	19.0	0.5	1.0	2.5	0.18	0.5	0.5	0.06	10	7.5	0.8
97H-63-2	495649	6062459	1	1.0	-50	21.0	3.0	2.0	2.5	0.41	0.5	0.5	0.05	10	7.5	1.1
97H-67-1	491159	6063714	4	2.9	78	12.0	0.5	0.5	6.0	0.26	0.5	0.5	0.09	10	7.5	1.0
97H-67-2	491159	6063714	1	2.9	70	14.0	0.5	1.0	2.5	0.19	0.5	0.5	0.08	10	7.5	0.8
97H-88-1	520527	6041691	1	3.8	280	21.0	4.0	6.0	37.0	1.53	3.0	0.5	0.43	10	45.0	5.7
97H-88-2	520527	6041691	1	3.7	270	13.0	4.0	6.0	20.0	1.12	0.5	0.5	0.14	10	29.0	4.0
97H-110-1	531121	6050631	1	2.4	110	18.0	2.0	5.0	2.5	0.45	0.5	0.5	0.06	10	7.5	1.8
97H-110-2	531121	6050631	1	3.0	100	18.0	2.0	4.0	2.5	0.45	0.5	0.5	0.05	10	7.5	1.8
97H-143-1	503707	6055102	1	4.5	85	12.0	0.5	3.0	12.0	0.57	0.5	0.5	0.14	10	7.5	2.4
97H-143-2	503707	6055102	1	3.8	140	11.0	0.5	2.0	2.5	0.36	0.5	0.5	0.07	10	7.5	1.1
97H-158-1	513703	6027484	1	2.7	230	11.0	0.5	3.0	20.0	0.96	1.0	0.5	0.23	10	20.0	3.7
97H-158-2	513703	6027484	1	2.6	160	7.9	1.0	2.0	13.0	0.68	1.0	0.5	0.19	10	19.0	2.6
97H-183-1	502520	6029633	1	4.6	100	23.0	5.0	3.0	5.0	0.35	0.5	0.5	0.05	10	7.5	1.8
97H-183-2	502520	6029633	1	4.8	140	11.0	0.5	3.0	2.5	0.42	0.5	0.5	0.08	10	7.5	1.5
97H-204-1	493311	6034135	1	4.0	25	25.0	0.5	0.5	9.0	0.43	0.5	4.0	0.09	10	7.5	1.7
97H-204-2	493311	6034135	1	2.5	25	28.0	5.0	0.5	2.5	0.36	0.5	7.0	0.11	10	7.5	1.5
97H-225-1	484355	6033976	1	3.2	330	5.1	2.0	5.0	25.0	1.07	4.0	0.5	0.81	10	7.5	3.6
97H-225-2	484355	6033976	3	3.1	290	6.3	0.5	3.0	15.0	0.74	3.0	0.5	0.52	10	50.0	3.1
97H-253-1	443963	6030330	1	2.9	170	8.4	1.0	2.0	10.0	0.38	0.5	0.5	0.15	10	7.5	1.6
97H-253-2	443963	6030330	1	2.0	130	9.0	0.5	2.0	7.0	0.40	0.5	0.5	0.16	10	7.5	1.7
97H-273-1	466096	6029651	1	2.8	130	7.8	2.0	3.0	16.0	0.78	0.5	0.5	0.18	10	21.0	3.0
97H-273-2	466096	6029651	1	2.3	140	7.6	3.0	3.0	9.0	0.62	1.0	2.0	0.15	10	26.0	2.3

Sample Site	Th ppm	U ppm	Zn ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Yb ppm	Lu ppm	TREE ppm
97H-27-1	0.4	0.25	187	2.3	4.0	2.5	0.3	0.1	0.1	0.025	9.3
97H-27-2	1.6	0.25	213	6.6	10.0	2.5	0.8	0.1	0.6	0.100	20.7
97H-52-1	3.3	0.80	25	21.0	37.0	17.0	2.5	0.6	0.8	0.150	79.1
97H-52-2	1.2	0.25	25	3.1	5.0	2.5	0.5	0.3	0.3	0.050	11.8
97H-63-1	0.9	0.25	25	2.2	6.0	2.5	0.3	0.1	0.3	0.025	11.4
97H-63-2	1.9	0.25	25	8.0	13.0	2.5	1.0	0.3	0.4	0.060	25.3
97H-67-1	0.6	0.25	25	3.1	5.0	2.5	0.4	0.1	0.2	0.060	11.4
97H-67-2	0.6	0.60	25	2.4	4.0	2.5	0.3	0.1	0.1	0.025	9.4
97H-88-1	7.9	2.40	53	31.0	47.0	23.0	4.2	0.9	1.2	0.240	107.5
97H-88-2	5.9	0.25	25	60.0	91.0	41.0	6.5	1.3	1.6	0.300	201.7
97H-110-1	0.9	0.25	25	11.0	14.0	9.0	1.5	0.4	0.4	0.130	36.4
97H-110-2	1.0	0.25	25	12.0	14.0	10.0	1.6	0.4	0.5	0.080	38.6
97H-143-1	0.9	0.25	25	3.7	7.0	2.5	0.6	0.1	0.1	0.025	14.0
97H-143-2	0.5	0.25	25	2.0	4.0	2.5	0.3	0.1	0.1	0.025	9.0
97H-158-1	2.7	0.25	25	12.0	23.0	8.0	1.3	0.3	0.5	0.080	45.2
97H-158-2	1.8	0.25	25	8.2	15.0	8.0	1.0	0.2	0.4	0.060	32.9
97H-183-1	1.5	1.50	25	7.8	10.0	2.5	1.0	0.3	0.5	0.080	22.2
97H-183-2	1.2	0.25	25	6.3	10.0	2.5	0.7	0.2	0.1	0.025	19.8
97H-204-1	1.3	2.10	62	9.9	11.0	2.5	1.2	0.3	0.4	0.025	25.3
97H-204-2	1.4	1.50	66	6.9	1.5	2.5	0.9	0.3	0.1	0.025	12.2
97H-225-1	3.8	0.25	25	21.0	36.0	18.0	2.4	0.7	1.0	0.180	79.3
97H-225-2	3.0	0.70	66	15.0	23.0	11.0	1.6	0.4	0.9	0.140	52.0
97H-253-1	1.5	0.25	25	7.8	12.0	2.5	0.9	0.3	0.4	0.060	24.0
97H-253-2	1.7	0.50	25	8.5	14.0	6.0	0.9	0.3	0.4	0.080	30.2
97H-273-1	4.5	0.25	25	35.0	40.0	20.0	3.1	0.8	1.2	0.180	100.3
97H-273-2	3.8	0.25	79	33.0	38.0	24.0	3.1	0.9	0.9	0.200	100.1

Appendix 6

Humus Geochemistry: INA Percentile Bubble Plots.

