

TILL GEOCHEMICAL SURVEY

Introduction

Till samples were collected for geochemical and kimberlite indicator mineral analyses at 152 of the 287 field stops made in the Edmund Lake and Sharpe Lake greenstone belts. Observations on the ice-flow history, indicated by the orientation of glacial striations and drumlins, as well as observations on the Quaternary geology and sediment provenance relevant to the interpretation of the till geochemistry and kimberlite indicator mineral distribution were an integral component of the field work. As in previous years, particular attention and effort was made to collect only those sediment samples that met the most rigorous criteria of what might be classified as till.

Methods

Field Methods

All till samples were collected from hand-dug pits. The pits were dug to bedrock, to a maximum depth of about one metre or until the first unoxidized gray to buff, silty C-horizon till was intersected. Of the 152 till samples collected, 121 were obtained from under a relatively impervious layer of fine textured glaciolacustrine clay or silty clay. For this reason these samples are considered to be relatively unweathered C-horizon tills. Of the remaining 31 samples only 11 (6, 23, 28, 62, 79, 95, 109, 189, 196, 199 and 256) showed visible signs of oxidation. A half kilogram of till was collected for geochemical analyses and an 11 litre pail of till was collected for diamond indicator mineral processing from each site.

Laboratory Methods

Two size fractions, a <2µm (clay-sized) fraction and a <63µm (silt and clay) sized fraction, were prepared in the Manitoba Energy and Mines rock laboratory. The <2µm fraction was prepared following standard procedures of centrifuging and decanting. The <63µm fraction was prepared by dry sieving on a 63µm stainless steel sieve. The <2µm fraction was analyzed by ICP-AES (34 element suite). In addition arsenic was analyzed by hydride generation and mercury was analyzed by cold vapour. The <63µm fraction was analyzed by INAA (Au +34 element suite).

Results

<2µm Fraction

The results of the analyses on the <2µm size fraction are listed in Appendix 1. The data was divided into an Edmund Lake and a Sharpe Lake data set because of anticipated differences in the regional background.

The two data sets have been plotted on the same map. Only those elements with a 'sufficient' number of determinations above the detection limits to make a map are shown in the accompanying bubble plots. In all instances, values at or below the detection limits were taken to be .50 times that value. Percentile bubble plots for the analytical data contained in Appendix 1 are presented in Appendix 2.

Edmund Lake area

The highest copper value, at 143 ppm, though only marginally anomalous, is found over the Hayes River basalts at the southeastern end of the belt associated with several other marginally anomalous samples. The highest lead value (26 ppm) occurs in the area south of the eastern tip of Margaret Lake in sample 15, which was collected over granite bedrock. Zinc concentrations are highest at site 7, situated near the southern margin of the belt, and a single sample (site 52) over the Wolf Bay Shear Zone is also considered marginally anomalous. The only significant nickel value at 60 ppm, occurs at site 92 coincident with the previously mentioned copper anomaly. Cobalt is also slightly elevated at site 92 but the highest value is found over the shear zone south of Margaret Lake coincident with elevated iron values. Manganese is high at site 15 coincident with elevated lead values. Anomalous manganese values also occur at site 78 near the eastern end of the belt. Barium is highest at site 6 south of Little Stull Lake and several marginally anomalous samples are found associated with the Wolf Bay Shear Zone between Little Stull Lake and Margaret Lake. Sites 6 and 85, near the east end of the belt, and site 28 south of Margaret Lake are anomalous in chromium, coincident with elevated nickel values. Sites 6 and 28 also have elevated vanadium levels. The highest mercury value, though only marginally anomalous, occurs at site 15 coincident with elevated lead and manganese values.

Other notable anomalous values include aluminum, sodium, lithium and scandium at site 28 and aluminum, lithium and scandium at site 6. Magnesium is elevated in several samples collected over the Hayes River basalt and down ice from the Wolf Bay Shear Zone at the east end of the belt. Sample 15 is anomalous in sodium and yttrium in addition to the elements mentioned previously. The highest arsenic levels (60.9 ppm) occurs at site 90 collected over the shear zone southeast of Little Stull Lake. Other sites with anomalous arsenic occur down ice from this same area.

Sharpe Lake area

A single sample copper anomaly is found at site 200 located southwest of Makataysip Lake. A multi-sample copper anomaly occurs north of Monument Bay that appears to be a continuation of the prominent anomaly described previously at the southeast end of the Edmund Lake belt. Lead and zinc values are high (up to 17 ppm and 99 ppm respectively) in several samples overlying the Oxford Lake sedimentary rocks east and southeast of Makataysip Lake. The highest zinc value is a single sample anomaly collected near the east

end of Sharpe Lake. The highest nickel value (122 ppm) is from site 200 coincident with elevated copper. Several samples south of Makataysip Lake to the east of sample 200 and also underlain by Hayes River basalts have elevated nickel, cobalt, iron, barium, chromium, vanadium, aluminum, lithium, and scandium values.

Sample 217 located near the east end of Sharpe Lake is anomalous in zinc, barium, chromium, lanthanum, potassium, strontium, as well as, yttrium, lithium, niobium, and scandium. Sample 223 is anomalous in mercury and sodium.

<63 μ m Fraction

Analytical results (INAA) for the <63 micron fraction are listed in Appendix 3. Percentile bubble plots based on these data are reproduced in Appendix 4.

Edmund Lake area

The highest concentration of gold (54 ppb) occurs at site 90, located on the Wolf Bay Shear Zone, near the east end of Little Stull Lake. Other anomalous concentrations of gold are found down ice from site 90 and along the shear zone towards Margaret Lake. Elevated gold values south of Little Stull Lake are coincident with high arsenic values in the same area, although the highest concentrations occur, not in association with known mineralization at sites 1 and 71, but farther east at site 90. Elevated concentrations of arsenic across the Hayes River basalt, south of Little Stull Lake may be related to glacial dispersion from the Wolf Bay Shear Zone or to unknown mineralization in the area.

Barium, cobalt, chromium, cesium, iron, molybdenum, rubidium, scandium, thorium, uranium and the rare earth elements are highly anomalous at site 6, south of Little Stull Lake. Cobalt, chromium, iron, hafnium, sodium, scandium, tantalum, thorium, uranium and the rare earth elements are anomalous in several samples south of the eastern end of Margaret Lake, notably at site 28. Molybdenum concentrations up to 9 ppm occur in several samples over the Hayes River basalt, south of Little Stull Lake and may be related to glacial dispersion or local variation in the bedrock. Zinc and antimony attain their highest values (408 ppm and .6 ppm) at site 1, adjacent to known gold mineralization along the south shore of Little Stull Lake. Sample 2, collected to the north of the Wolf Bay Shear Zone, is also anomalous in zinc.

Sharpe Lake area

The highest concentration of gold (60 ppb) in the till was not found in the area of known gold occurrences at Monument Bay, but over the granite in the area south of Barclay Lake. Arsenic and antimony values are also

anomalous in several samples around Barclay Lake. The highest arsenic values are associated with a multi-sample multi-element anomaly south of Makataysip Lake. Other anomalous elements in this area include barium, bromine, cobalt, chromium, cesium, iron, hafnium, sodium, rubidium, scandium, thorium, uranium and the rare earth elements. Other notable anomalies include a multi-element anomaly of barium, cobalt, chromium, cesium, iron, molybdenum, sodium, rubidium, scandium, tantalum, thorium and rare earth elements at site 217 near the east end of Sharpe Lake. Samples 254, 262 and 264, south of Webber Lake are noteworthy for their high concentrations of molybdenum.

Calcium, with concentrations between 1 and 20 percent, is derived almost exclusively from Paleozoic carbonate rocks in the Hudson Bay Lowland and is an indicator of long distance glacial transport. The well developed drumlins in the Monument Bay area have slightly elevated calcium levels suggesting they may have a higher allochthonous component than the non drumlinized till. This conclusion is not supported by the carbonate content of the drumlins in the Barclay Lake area.

Synthesis

Edmund Lake Area

A prominent multi-element and multi-sample anomaly comprising Cu, Pb, Zn, Ni, Co, Fe, Mn, Ba, Cr, Hg, Mo, Mg and As is found over the Hayes River basalt south of Little Stull Lake. A similar multi-sample anomaly of Pb, Ni, Co, Fe, Mn, Cr, V and Hg is situated over the Hayes River basalt south of the east end of Margaret Lake. Approximately halfway between Margaret and Little Stull Lakes, over the Hayes River basalt, is a minor multi-sample anomaly of Ba, Br, Co, Mo, Ta, Th, U, Zn, K and Ti. The Wolf Bay Shear Zone is characterized by anomalous levels of Au, As and Sb.

Sharpe Lake Area

Au is anomalous south of Barclay Lake in an area of no known supracrustal rocks. The till occurs in drumlins and the anomaly may be the result of long distance glacial transport from some unknown source, possibly the Edmund-Margaret Lake area or farther north. A prominent multi-element multi-sample anomaly comprising Cu, Ni, V, As, Ba, Br, Co, Cr, Fe, Cs, Rb, Sc, Th, Al, Li and U occurs over the Hayes River basalt south of Makataysip Lake. In the same area over the Oxford Lake sedimentary rocks anomalous levels of Pb, Zn, and Y occur.

The drumlinized till in the Monument Bay area is anomalous only in copper. Copper distribution in this area may be part of a southerly trending glacial dispersion train emanating from the Hayes River basalts south of Little Stull Lake. Although, the generally low concentrations of other elements in the Monument Bay area suggests that the drumlinized till in this area has a larger allochthonous component than other areas and

does not reflect the composition of the underlying bedrock to the same degree as the nondrumlinized till; a conclusion borne out in part by elevated levels of calcium in this area compared to other areas such as south of Little Stull Lake. However, the low calcium levels of the drumlinized till in the Barclay Lake area does not support this conclusion.

Appendix 1

Till Geochemistry: Inductively Coupled Plasma-Atomic Emmission Spectrometry (ICP-AES), Hg (cold vapour - AAS) and As (hydride generation) <2 micron fraction.

Sample Site	UTM		Cu	Pb	Zn	Ni	Co	Fe	Mn	Ba	Cr	V	Hg	La	Al	Mg	Ca
	EAST	NORTH	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
97T-1	517844	6046787	50	9	65	35	13	3.62	418	92	48	48	0.065	31	2.35	1.82	8.28
97T-2	520028	6046856	32	10	62	33	13	3.20	491	89	41	42	0.051	33	2.16	1.80	7.65
97T-6	518401	6043035	34	21	74	50	21	5.21	272	165	74	78	0.038	40	5.68	1.03	0.18
97T-7	517331	6040220	103	11	128	42	16	4.42	483	90	61	59	0.083	32	2.92	2.02	2.95
97T-9	524733	6056170	30	9	59	30	12	3.08	489	93	41	43	0.029	32	2.02	1.72	9.71
97T-11	522988	6055725	51	11	81	49	20	4.57	623	104	71	59	0.101	65	3.54	1.73	3.91
97T-12	519560	6055914	44	11	68	37	14	3.44	488	83	45	43	0.088	30	2.24	1.89	7.95
97T-15	502125	6054351	64	26	73	46	24	4.45	1235	115	58	63	0.137	37	2.82	1.76	2.71
97T-17	501778	6057331	26	9	43	19	8	1.97	311	59	23	26	0.027	21	1.32	1.19	10.00
97T-18	502316	6058450	33	10	83	39	14	3.89	526	90	53	53	0.027	31	2.67	1.85	7.88
97T-19	503981	6058302	37	15	65	37	17	3.55	639	100	43	48	0.041	32	2.33	1.45	8.51
97T-20	504550	6057806	29	12	72	42	16	3.90	519	91	54	50	0.050	33	2.87	1.70	4.66
97T-22	509841	6054884	44	12	68	38	14	3.68	462	99	49	47	0.093	32	2.49	1.69	7.55
97T-23	509948	6053778	44	15	94	44	20	3.90	681	93	51	49	0.083	36	2.73	1.79	5.44
97T-25	509160	6053238	42	13	88	46	17	4.42	482	122	61	59	0.063	37	3.30	1.76	2.57
97T-26	507026	6053858	34	10	73	36	14	3.77	496	118	49	50	0.021	35	2.56	1.90	8.41
97T-28	500798	6058006	75	19	64	58	31	6.19	378	80	82	85	0.083	45	5.09	1.02	0.34
97T-30	498526	6059429	41	14	76	43	20	3.96	708	92	56	51	0.109	35	3.02	1.85	4.05
97T-37	512445	6053053	39	13	76	43	16	4.24	524	105	56	56	0.066	36	3.20	1.67	3.50
97T-38	511021	6053344	43	11	83	46	17	4.06	476	108	57	54	0.042	31	2.73	1.91	3.80
97T-39	508748	6056431	24	11	53	27	11	2.93	387	73	38	39	0.035	27	2.08	1.45	10.00
97T-45	501781	6059766	37	11	65	34	14	3.41	475	103	43	45	0.045	30	2.45	1.49	9.37
97T-52	504799	6056393	55	13	108	43	14	3.79	476	88	52	53	0.061	29	2.68	1.66	5.59
97T-55	485756	6066892	20	10	52	26	11	2.75	466	76	35	37	0.032	26	1.85	1.54	10.00
97T-57	485524	6066062	13	5	29	14	5	1.44	210	35	17	17	0.047	13	1.08	0.95	10.00
97T-58	485360	6065468	22	9	41	19	8	2.06	331	85	26	27	0.012	22	1.41	1.27	10.00
97T-59	500719	6060166	31	14	70	34	15	3.41	529	67	46	48	0.100	38	2.32	1.84	4.63
97T-60	499348	6060438	26	9	61	29	12	3.18	442	80	41	42	0.031	30	2.02	1.65	10.00
97T-61	497206	6060852	35	10	67	29	13	3.15	449	73	41	42	0.038	26	1.80	1.91	8.90
97T-62	496583	6059870	51	17	87	46	20	4.51	700	100	63	61	0.107	41	3.26	1.86	2.81
97T-65	498817	6064616	29	9	66	27	11	2.91	382	68	38	40	0.033	29	1.81	1.73	10.00
97T-69	494161	6064535	37	12	55	23	12	2.46	470	68	28	31	0.037	25	1.34	1.68	10.00
97T-71	518287	6046419	48	10	73	34	14	3.29	525	87	41	41	0.027	29	1.98	1.99	9.70
97T-72	518901	6044811	33	9	59	28	11	2.82	444	79	34	38	0.032	30	1.70	1.69	10.00
97T-74	521245	6042332	64	11	61	36	16	3.18	574	85	39	40	0.053	30	1.95	1.83	10.00
97T-75	520867	6044001	43	9	55	28	16	2.57	426	73	31	33	0.032	27	1.59	1.68	10.00
97T-76	522120	6041844	75	12	54	34	18	3.25	700	67	39	41	0.046	29	1.82	2.02	8.22
97T-78	522282	6036707	86	14	74	36	21	3.29	1088	71	34	38	0.077	31	1.40	1.82	10.00
97T-79	523264	6036507	45	10	83	41	15	3.90	428	101	54	52	0.030	32	2.45	1.78	5.55
97T-80	522574	6036479	87	16	92	52	24	4.67	724	109	61	61	0.052	30	2.45	1.91	5.82
97T-82	521310	6040504	61	14	86	44	20	4.12	632	106	54	54	0.041	33	2.60	1.89	5.47
97T-83	521313	6039495	67	12	87	45	19	3.81	685	104	54	52	0.057	30	2.76	1.90	6.96
97T-85	521819	6038559	39	10	56	31	12	3.07	458	70	40	41	0.058	30	1.96	1.65	10.00
97T-86	523226	6037995	64	13	70	58	18	3.75	607	89	83	49	0.072	42	2.30	2.06	4.29
97T-87	520938	6037469	74	9	72	40	17	3.22	606	79	43	41	0.031	30	1.94	1.84	9.94
97T-88	520527	6041691	95	10	80	49	19	4.15	629	82	61	53	0.121	31	2.60	1.74	4.52
97T-89	523975	6039555	50	8	66	39	14	3.30	552	84	47	42	0.024	32	2.12	2.05	10.00
97T-90	523174	6042220	81	22	88	46	24	4.59	822	106	57	59	0.104	47	2.70	2.04	3.84
97T-91	518535	6038263	37	9	63	33	12	3.32	459	83	43	45	0.031	28	2.13	1.73	10.00
97T-92	520156	6037478	143	13	100	60	28	4.39	591	140	59	55	0.112	32	2.62	1.95	4.69
97T-93	520504	6036253	54	10	57	30	14	3.10	512	76	40	41	0.063	30	1.88	1.78	10.00

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	EAST	NORTH	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
97T-94	522084	6035823	70	12	77	42	18	3.92	613	104	50	50	0.070	32	2.39	1.85	6.09
97T-95	519219	6039836	61	12	73	37	16	3.73	582	97	47	47	0.037	32	2.26	1.88	7.64
97T-96	516558	6040903	76	13	73	42	16	3.65	532	82	48	46	0.052	37	2.27	1.96	7.28
97T-97	516780	6043256	51	11	68	31	13	3.35	547	88	41	41	0.054	30	1.90	1.83	10.00
97T-99	517575	6045717	52	11	80	37	18	3.51	759	95	45	44	0.048	34	2.08	1.87	8.53
97T-100	516705	6045308	46	11	61	28	11	2.88	464	84	37	41	0.038	27	1.83	1.64	10.00
97T-101	518918	6036134	63	12	76	41	16	4.07	539	114	54	52	0.063	31	2.59	1.90	7.63
97T-104	527779	6044102	41	12	100	41	17	3.87	581	102	55	52	0.061	35	2.63	1.93	5.18
97T-106	529083	6046462	47	8	66	34	13	3.15	580	82	44	41	0.026	36	1.88	1.94	10.00
97T-109	532452	6050373	55	15	58	38	16	4.42	277	78	63	54	0.017	35	3.78	1.00	0.43
97T-111	527183	6049725	72	8	56	35	19	2.74	571	76	38	37	0.038	30	1.53	1.88	10.00
97T-115	476770	6068319	37	10	74	38	15	3.69	568	97	50	47	0.026	32	2.39	1.93	9.30
97T-116	476939	6067881	29	9	45	23	11	2.38	422	80	29	29	0.055	22	1.57	1.33	10.00
97T-135	513049	6050683	39	11	74	38	14	3.84	522	95	51	52	0.025	33	2.60	1.88	7.55
97T-136	513377	6052104	37	13	74	38	15	3.67	551	101	50	48	0.025	32	2.44	1.90	7.99
97T-138	513788	6053203	46	11	88	44	16	4.08	511	98	54	52	0.046	32	2.84	1.85	6.78
97T-140	510561	6051207	50	13	65	36	14	3.57	540	103	44	45	0.081	33	2.32	1.82	9.09
97T-141	509638	6050746	47	19	91	41	20	4.07	657	105	50	52	0.060	32	2.55	1.94	9.41
97T-143	503707	6055102	26	9	64	36	14	3.35	496	72	45	44	0.036	29	2.21	1.79	8.89
97T-144	505932	6054078	34	11	79	40	15	3.99	499	124	52	53	0.015	38	2.65	2.06	7.33
97T-150	517486	6033988	48	9	74	36	13	3.57	582	102	49	46	0.031	33	2.30	1.91	10.00
97T-151	517522	6032623	51	12	64	31	14	3.12	550	84	42	41	0.027	32	1.95	1.88	10.00
97T-152	517917	6030851	65	12	67	36	18	3.29	653	102	44	42	0.042	32	1.86	1.86	10.00
97T-153	517089	6028676	54	11	65	29	16	2.93	558	99	37	40	0.022	31	1.75	1.75	10.00
97T-154	516412	6032166	35	10	64	31	14	3.04	561	93	39	39	0.033	31	1.91	1.85	10.00
97T-163	514501	6026145	34	10	64	34	12	3.38	487	104	43	44	0.021	33	2.27	1.84	9.25
97T-164	513589	6026247	57	11	77	40	17	3.90	675	122	51	50	0.040	31	2.48	1.82	8.84
97T-165	512599	6026335	50	14	80	42	18	3.28	387	82	51	45	0.042	28	1.99	2.09	6.90
97T-166	511598	6026204	34	10	79	40	17	3.47	396	91	54	49	0.032	33	2.24	1.84	7.92
97T-171	516472	6033483	57	12	69	30	13	2.97	583	101	38	38	0.020	32	1.82	1.85	10.00
97T-172	513930	6032694	47	10	74	37	14	3.63	555	107	47	46	0.048	32	2.46	1.86	9.49
97T-184	521348	6034014	59	11	76	40	16	3.97	579	112	52	51	0.045	34	2.49	1.88	9.03
97T-185	519147	6033381	53	11	70	38	17	3.73	575	107	48	49	0.055	32	2.35	1.83	10.00
97T-186	518573	6031574	53	11	66	36	14	3.40	632	98	46	45	0.043	34	2.00	1.92	10.00
97T-187	499197	6032410	55	17	96	46	17	4.95	505	147	66	67	0.060	39	3.30	1.95	3.73
97T-189	498849	6029766	46	16	98	49	20	5.49	501	153	69	70	0.034	38	3.18	1.82	1.89
97T-190	498167	6028367	46	14	99	49	18	4.99	541	163	69	68	0.045	40	3.73	1.75	2.01
97T-191	497208	6028893	35	11	58	30	13	3.06	483	91	39	41	0.068	28	1.97	1.63	10.00
97T-192	485905	6033746	54	9	64	41	13	3.24	574	88	50	38	0.025	31	2.14	2.03	10.00
97T-195	501211	6032956	41	8	76	38	15	3.74	438	111	52	52	0.035	35	2.55	1.97	5.88
97T-196	494312	6029503	30	12	83	67	23	5.50	472	210	90	82	0.028	37	5.29	1.36	0.59
97T-197	496064	6031902	25	10	51	26	11	2.77	365	66	35	36	0.055	32	1.66	1.59	10.00
97T-199	495793	6029002	50	13	85	60	26	5.70	570	187	89	81	0.036	35	5.56	1.35	0.31
97T-200	491974	6031864	95	14	77	122	33	3.58	540	90	47	44	0.035	31	2.26	1.87	7.16
97T-204	493311	6034135	25	9	59	30	13	3.13	462	77	40	41	0.042	32	2.05	1.70	10.00
97T-205	492691	6034939	40	9	72	34	15	3.44	595	84	42	44	0.035	36	2.17	2.11	10.00
97T-206	492813	6032211	41	16	76	48	20	5.52	609	165	58	62	0.043	36	2.80	1.55	5.87
97T-212	504366	6029454	45	11	85	42	16	3.74	522	105	50	46	0.043	29	2.57	1.76	7.52
97T-213	503971	6027895	90	11	88	54	20	4.80	488	169	71	70	0.073	40	3.68	1.71	3.63
97T-215	502859	6032947	41	10	75	37	15	3.65	542	105	49	49	0.049	31	2.39	1.77	8.62
97T-216	500430	6031458	41	12	74	34	14	3.57	472	112	48	47	0.067	30	2.27	1.80	8.56
97T-217	477524	6032937	29	10	101	47	17	4.39	392	195	73	57	0.056	52	3.97	1.55	0.89
97T-218	479469	6034111	39	11	77	41	15	4.05	435	148	58	57	0.047	37	3.07	1.86	4.24
97T-219	476476	6033291	50	11	75	39	18	3.54	849	117	46	46	0.048	37	2.10	1.91	10.00
97T-221	491778	6033333	35	11	69	35	15	3.50	596	110	48	48	0.038	32	2.27	1.82	9.02
97T-222	489734	6033070	36	12	61	30	12	3.05	461	76	39	39	0.068	30	2.10	1.67	10.00
97T-223	482129	6034706	46	14	62	33	16	4.02	555	93	48	54	0.121	35	2.62	1.67	7.22
97T-225	484355	6033976	56	14	79	50	25	5.13	552	153	75	75	0.038	41	4.47	1.30	0.38
97T-228	504672	6033921	41	13	77	35	16	3.54	624	118	45	48	0.051	28	2.13	1.83	7.53

Sample Site	UTM		Cu	Pb	Zn	Ni	Co	Fe	Mn	Ba	Cr	V	Hg	La	Al	Mg	Ca
	EAST	NORTH	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
97T-230	465126	6029280	31	9	67	31	12	3.22	499	86	42	41	0.027	29	2.07	1.77	10.00
97T-232	474714	6032147	24	9	42	20	8	2.10	397	95	25	28	0.026	25	1.22	1.46	10.00
97T-234	472653	6030759	18	7	32	16	6	1.61	300	76	19	20	0.039	19	1.03	1.25	10.00
97T-236	471481	6030684	36	11	62	31	12	3.32	419	98	43	44	0.036	39	2.13	1.68	10.00
97T-237	467781	6031932	42	10	78	37	15	3.72	561	108	50	51	0.028	33	2.37	1.97	8.87
97T-239	461733	6028498	41	10	84	38	17	3.89	677	111	51	51	0.046	33	2.43	2.01	7.93
97T-244	453747	6028681	63	9	73	34	13	3.18	497	118	40	41	0.039	31	1.99	1.95	10.00
97T-245	452251	6028338	34	11	65	30	13	3.32	477	105	41	45	0.011	32	2.09	1.89	10.00
97T-247	455132	6028325	52	13	85	42	16	4.00	509	103	53	53	0.051	31	2.68	1.99	6.11
97T-248	452495	6028976	47	10	76	38	15	3.62	521	101	51	49	0.051	31	2.31	2.07	9.05
97T-249	450994	6027808	42	14	74	36	14	3.82	467	117	47	52	0.025	36	2.42	1.95	8.19
97T-250	449886	6028510	42	10	73	36	15	3.47	597	107	46	46	0.033	32	2.17	2.01	10.00
97T-251	448682	6028724	41	10	67	33	14	3.38	570	98	45	44	0.053	33	2.08	1.88	10.00
97T-252	445395	6029398	35	9	66	34	14	3.27	588	99	43	43	0.033	34	2.03	1.99	9.80
97T-253	443963	6030330	31	10	58	27	11	2.84	529	100	36	36	0.035	30	1.88	1.78	10.00
97T-254	443423	6028525	33	9	63	29	12	3.08	532	96	38	41	0.022	31	1.94	1.89	10.00
97T-255	442843	6030013	45	9	68	36	15	3.68	592	108	50	47	0.072	29	2.33	1.99	7.69
97T-256	442448	6029172	43	10	73	35	15	3.97	629	104	48	50	0.057	28	2.17	1.89	7.29
97T-257	439225	6030492	34	9	70	34	14	3.49	536	119	45	46	0.025	36	2.32	1.95	9.78
97T-259	438456	6031752	35	10	77	35	15	3.39	531	121	43	46	0.033	32	2.21	2.01	9.19
97T-261	448532	6027763	35	10	76	43	18	4.00	587	131	57	51	0.030	33	2.72	1.68	7.31
97T-262	435111	6031848	39	11	66	33	16	3.19	627	95	42	41	0.039	34	1.91	1.86	10.00
97T-263	436445	6031287	33	9	58	30	13	2.98	574	105	38	38	0.030	31	1.87	1.71	10.00
97T-264	435337	6030452	31	10	72	36	15	3.34	589	107	45	45	0.032	37	2.05	1.94	8.28
97T-265	440681	6030640	37	9	67	34	14	3.38	549	110	43	43	0.036	33	2.32	1.93	10.00
97T-266	447639	6028463	35	8	62	31	13	3.06	517	81	41	43	0.044	31	1.97	1.87	10.00
97T-267	449222	6028541	25	9	62	33	13	3.14	487	83	40	40	0.029	29	2.09	1.95	9.95
97T-268	457373	6028180	31	8	70	35	13	3.30	517	102	45	44	0.027	35	2.11	1.94	8.67
97T-271	465155	6030614	30	8	56	29	12	2.96	518	90	39	43	0.045	31	1.91	1.75	10.00
97T-272	467904	6033232	39	12	74	39	17	3.50	753	92	48	47	0.034	33	2.10	1.93	8.24
97T-273	466096	6029651	43	9	68	31	13	3.16	539	92	42	41	0.037	31	1.89	1.84	9.66
97T-274	468869	6031353	33	9	57	27	11	2.79	453	80	37	37	0.031	29	1.70	1.77	10.00
97T-275	441854	6030334	26	9	77	38	16	3.66	531	121	52	49	0.034	33	2.41	1.81	5.48
97T-277	455200	6033531	26	10	61	30	12	3.00	502	79	38	38	0.038	30	2.02	1.87	9.94
97T-278	456290	6033898	33	9	58	28	13	2.93	573	97	39	41	0.036	32	1.77	1.75	10.00
97T-279	455920	6035035	30	9	61	24	10	2.69	465	77	33	36	0.006	26	1.60	1.92	10.00
97T-280	456272	6032489	28	9	57	28	11	3.01	442	78	40	42	0.022	29	1.92	1.75	8.89
97T-281	458988	6036919	28	8	39	21	8	2.13	342	73	27	28	0.034	23	1.34	1.38	10.00
97T-282	459526	6035375	35	9	65	31	13	3.18	521	94	43	43	0.030	29	2.03	1.78	9.20
97T-283	457995	6036193	17	8	35	18	7	1.89	266	74	23	25	0.032	21	1.25	1.26	10.00
97T-284	457394	6031755	33	8	65	29	11	3.11	495	94	40	40	0.024	31	1.89	1.85	9.38
97T-285	454410	6030342	62	11	69	29	13	3.08	575	86	35	39	0.056	29	1.72	1.95	10.00

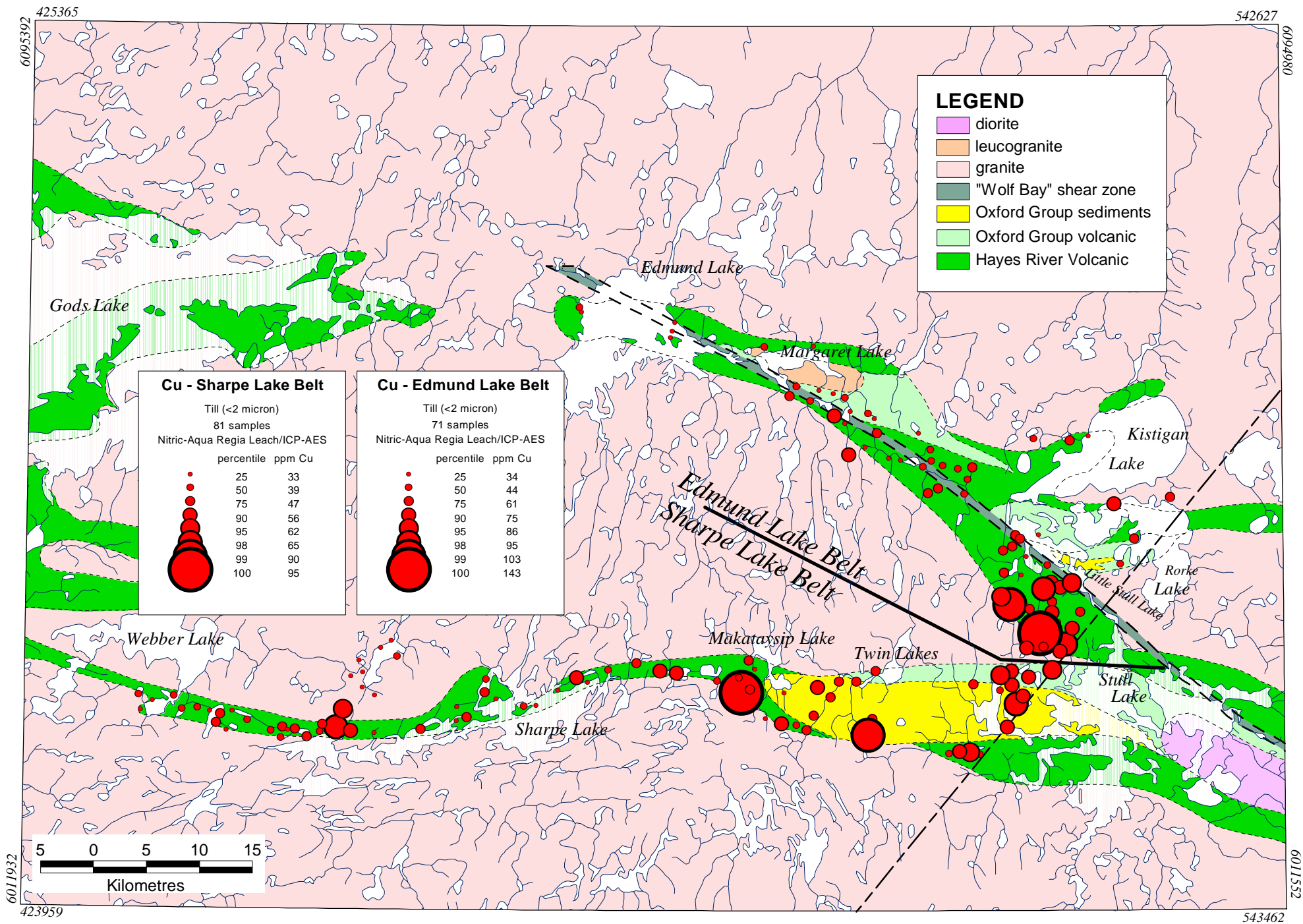
Sample Site	Na %	K %	Sr ppm	Y ppm	Li ppm	Nb ppm	Sc ppm	Ti %	Zr ppm	AsHY ppm
97T-1	0.72	0.23	64	15	37	6	7.0	0.11	4	16.30
97T-2	0.54	0.33	68	12	33	5	6.0	0.11	7	4.70
97T-6	0.77	0.28	26	9	58	5	10.0	0.12	21	6.90
97T-7	0.96	0.29	42	15	40	5	10.0	0.10	5	6.90
97T-9	0.47	0.27	82	12	34	5	6.0	0.11	11	4.00
97T-11	0.94	0.30	48	29	46	4	13.0	0.12	8	3.70
97T-12	0.75	0.21	61	16	33	6	7.0	0.10	3	6.20
97T-15	1.72	0.26	41	23	39	5	7.0	0.06	2	16.50
97T-17	0.52	0.15	80	11	18	5	2.5	0.07	3	6.60
97T-18	0.62	0.41	71	13	40	4	8.0	0.13	18	4.50
97T-19	0.71	0.29	61	13	36	4	7.0	0.10	7	9.30
97T-20	0.67	0.31	52	14	39	4	8.0	0.12	7	5.40
97T-22	0.71	0.24	60	15	36	5	7.0	0.12	6	6.50
97T-23	0.75	0.36	57	17	40	5	9.0	0.11	4	12.60
97T-25	0.73	0.43	48	15	52	5	9.0	0.13	8	6.20
97T-26	0.56	0.42	80	13	41	5	8.0	0.13	20	4.80
97T-28	1.23	0.21	27	16	53	6	14.0	0.10	15	14.60
97T-30	0.86	0.30	48	15	40	6	8.0	0.10	4	7.40
97T-37	0.82	0.38	50	14	45	5	8.0	0.11	6	5.30
97T-38	0.52	0.33	50	14	44	4	8.0	0.15	11	6.50
97T-39	0.60	0.26	66	11	30	6	6.0	0.09	5	4.30
97T-45	0.59	0.27	67	12	35	5	6.0	0.10	7	5.60
97T-52	0.84	0.31	54	12	37	5	7.0	0.11	6	6.00
97T-55	0.55	0.23	84	11	26	5	5.0	0.09	4	3.70
97T-57	0.51	0.14	71	7	14	6	2.5	0.03	2	2.20
97T-58	0.39	0.17	101	11	21	6	2.5	0.07	5	3.00
97T-59	0.95	0.23	51	18	30	6	7.0	0.09	2	7.90
97T-60	0.59	0.27	74	12	31	5	6.0	0.11	9	4.10
97T-61	0.58	0.26	70	11	30	5	6.0	0.13	11	5.80
97T-62	0.95	0.28	45	19	47	5	9.0	0.11	5	9.60
97T-65	0.55	0.22	77	12	28	5	6.0	0.11	6	4.90
97T-69	0.44	0.16	91	11	21	5	2.5	0.09	9	8.70
97T-71	0.50	0.33	82	11	33	5	6.0	0.12	14	12.00
97T-72	0.47	0.26	85	12	29	7	6.0	0.10	7	10.60
97T-74	0.55	0.23	76	13	30	5	6.0	0.10	6	11.50
97T-75	0.47	0.20	78	12	25	5	2.5	0.09	5	14.20
97T-76	0.55	0.13	66	15	25	5	6.0	0.09	3	14.10
97T-78	0.44	0.21	93	12	23	5	6.0	0.10	9	18.10
97T-79	0.53	0.47	61	13	43	5	7.0	0.13	18	8.00
97T-80	0.66	0.39	62	14	41	5	9.0	0.13	14	11.20
97T-82	0.67	0.41	57	14	42	5	7.0	0.13	11	13.40
97T-83	0.79	0.33	63	12	42	7	7.0	0.12	6	10.10
97T-85	0.77	0.21	68	12	29	5	6.0	0.08	3	7.10
97T-86	0.73	0.28	50	21	34	5	9.0	0.12	6	10.20
97T-87	0.51	0.25	72	14	32	5	6.0	0.11	7	10.50
97T-88	0.95	0.25	48	17	37	5	8.0	0.09	5	16.60
97T-89	0.55	0.28	92	13	31	5	6.0	0.11	10	10.90
97T-90	1.12	0.31	50	19	40	5	9.0	0.10	6	60.90
97T-91	0.58	0.32	76	12	33	6	6.0	0.11	13	9.40
97T-92	1.07	0.46	52	14	44	6	8.0	0.12	10	24.30
97T-93	0.54	0.25	84	12	31	6	6.0	0.10	5	9.00

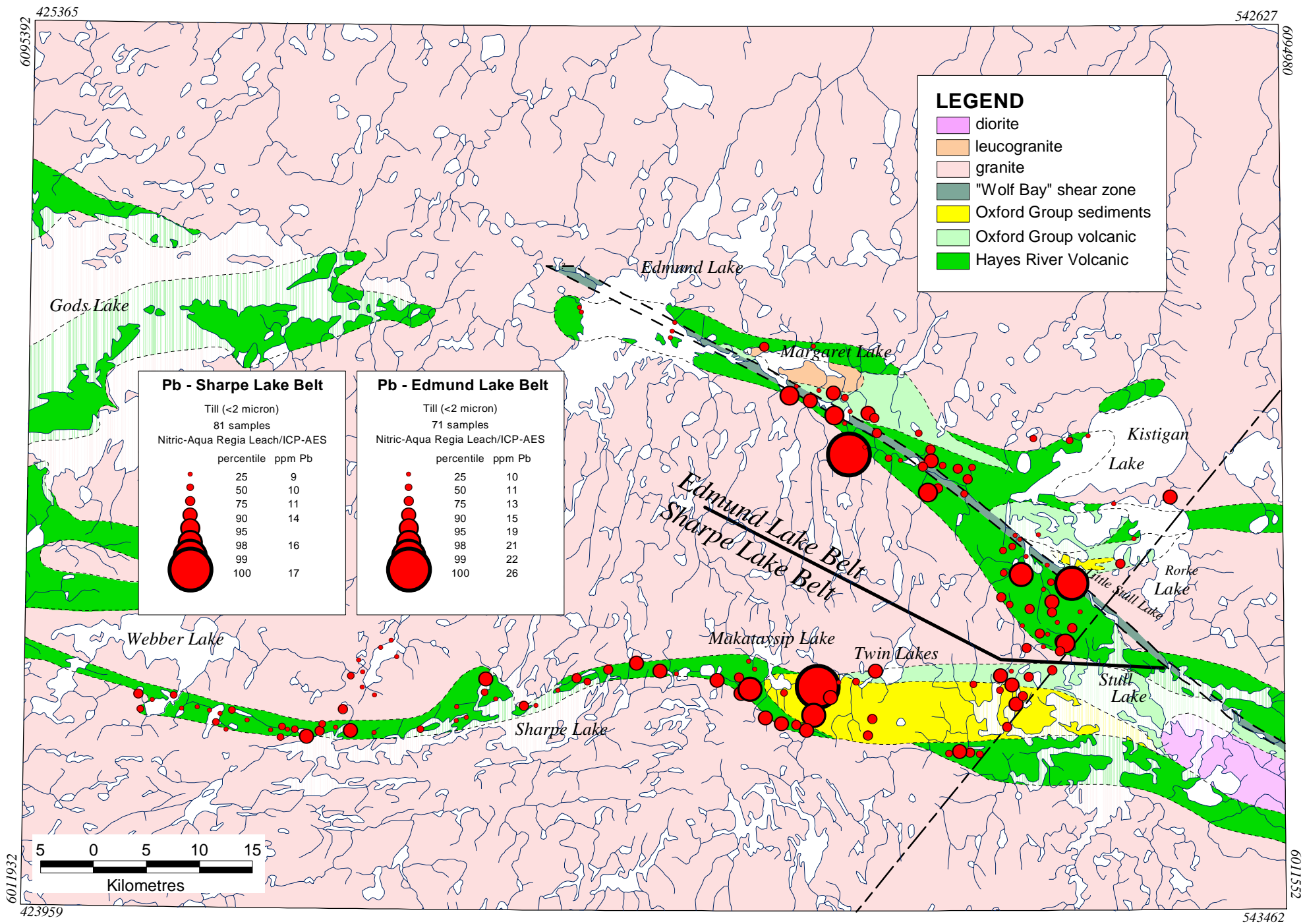
Sample Site	Na %	K %	Sr ppm	Y ppm	Li ppm	Nb ppm	Sc ppm	Ti %	Zr ppm	AsHY ppm
97T-94	0.66	0.33	63	14	40	5	7.0	0.12	7	11.30
97T-95	0.55	0.40	79	12	39	4	7.0	0.13	14	8.50
97T-96	0.76	0.26	67	14	36	5	7.0	0.11	4	7.20
97T-97	0.64	0.24	78	12	32	5	6.0	0.11	11	8.50
97T-99	0.49	0.38	77	13	36	5	7.0	0.13	18	10.10
97T-100	0.61	0.24	80	11	29	5	5.0	0.10	5	6.90
97T-101	0.73	0.28	66	13	44	5	8.0	0.13	10	9.40
97T-104	0.77	0.37	62	14	42	5	8.0	0.12	6	6.70
97T-106	0.49	0.33	87	13	34	5	6.0	0.12	13	5.10
97T-109	1.35	0.18	36	6	37	5	7.0	0.08	3	4.90
97T-111	0.58	0.19	88	12	28	5	5.0	0.10	6	4.80
97T-115	0.61	0.36	79	13	39	5	7.0	0.13	18	6.50
97T-116	0.51	0.20	84	10	24	6	2.5	0.07	3	4.30
97T-135	0.63	0.38	74	13	40	4	8.0	0.13	16	6.30
97T-136	0.65	0.36	75	12	39	5	8.0	0.13	18	6.30
97T-138	0.62	0.49	67	14	43	5	8.0	0.13	24	7.50
97T-140	0.66	0.24	68	14	35	6	7.0	0.10	6	8.70
97T-141	0.82	0.31	60	15	42	6	7.0	0.12	7	13.40
97T-143	0.63	0.30	70	12	33	6	7.0	0.12	6	6.90
97T-144	0.62	0.51	75	13	45	6	8.0	0.13	25	5.90
97T-150	0.56	0.32	81	13	36	5	7.0	0.12	20	6.10
97T-151	0.54	0.26	87	12	31	6	6.0	0.11	16	6.50
97T-152	0.55	0.27	90	12	32	5	6.0	0.11	10	11.30
97T-153	0.53	0.23	97	11	29	5	5.0	0.10	12	8.90
97T-154	0.51	0.29	86	12	32	5	6.0	0.10	11	5.50
97T-163	0.53	0.34	75	12	35	5	6.0	0.10	12	6.30
97T-164	0.70	0.35	74	13	39	5	7.0	0.11	12	9.10
97T-165	0.43	0.35	63	11	37	4	6.0	0.11	20	4.00
97T-166	0.45	0.42	71	13	40	4	7.0	0.14	20	2.70
97T-171	0.52	0.26	94	13	30	5	6.0	0.09	13	6.80
97T-172	0.62	0.36	80	13	37	5	7.0	0.11	10	6.20
97T-184	0.69	0.32	74	14	42	5	7.0	0.12	11	11.20
97T-185	0.60	0.28	77	13	37	5	7.0	0.11	9	7.90
97T-186	0.52	0.24	88	13	34	5	6.0	0.11	12	8.80
97T-187	1.10	0.36	47	20	53	6	9.0	0.13	10	11.40
97T-189	0.79	0.50	44	16	55	5	9.0	0.14	16	6.70
97T-190	0.92	0.44	44	16	58	5	10.0	0.14	13	9.00
97T-191	0.62	0.25	81	12	31	6	6.0	0.10	7	6.50
97T-192	0.45	0.30	101	12	31	5	6.0	0.09	12	17.80
97T-195	0.61	0.37	63	14	41	6	7.0	0.15	14	5.60
97T-196	0.90	0.27	35	11	64	6	11.0	0.13	18	15.80
97T-197	0.51	0.21	75	17	25	5	6.0	0.10	5	5.60
97T-199	0.95	0.35	35	7	62	4	10.0	0.15	22	11.30
97T-200	0.84	0.32	62	12	36	5	7.0	0.10	7	237.40
97T-204	0.57	0.28	74	13	31	6	6.0	0.11	8	5.80
97T-205	0.59	0.37	91	12	36	7	6.0	0.11	10	7.80
97T-206	0.71	0.40	70	15	41	5	8.0	0.12	18	11.50
97T-212	0.63	0.42	66	12	40	5	7.0	0.13	16	7.20
97T-213	0.98	0.31	45	18	55	5	10.0	0.12	10	102.60
97T-215	0.59	0.35	74	13	37	6	7.0	0.13	12	6.00
97T-216	0.69	0.31	69	13	39	5	7.0	0.12	6	7.00
97T-217	0.84	0.51	39	17	61	5	11.0	0.13	8	2.80
97T-218	0.74	0.44	54	14	47	5	9.0	0.14	10	4.90
97T-219	0.62	0.40	90	13	35	4	7.0	0.14	15	7.50
97T-221	0.59	0.31	75	13	37	5	7.0	0.13	15	6.20
97T-222	0.62	0.23	75	13	30	6	6.0	0.10	5	4.80
97T-223	1.53	0.30	55	14	37	5	7.0	0.08	3	7.10
97T-225	0.90	0.23	29	16	53	6	11.0	0.15	18	7.80
97T-228	0.64	0.35	62	11	36	5	7.0	0.12	9	8.40

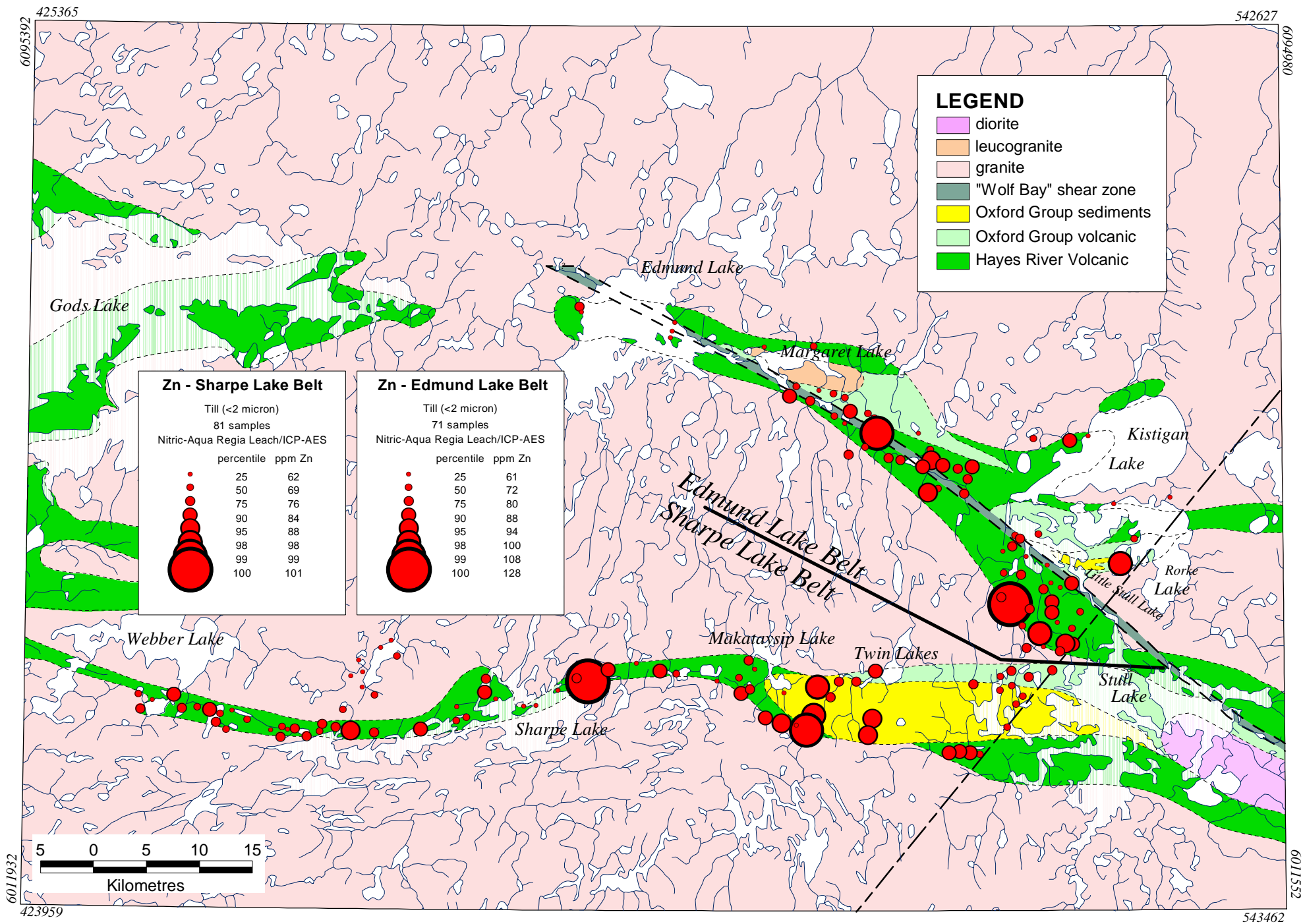
Sample Site	Na %	K %	Sr ppm	Y ppm	Li ppm	Nb ppm	Sc ppm	Ti %	Zr ppm	AsHY ppm
97T-230	0.55	0.32	83	12	33	6	6.0	0.11	12	6.10
97T-232	0.42	0.18	106	12	19	7	2.5	0.07	5	5.80
97T-234	0.58	0.15	110	9	17	7	2.5	0.05	3	4.20
97T-236	0.88	0.31	72	16	34	5	7.0	0.10	6	6.30
97T-237	0.58	0.42	81	13	40	4	8.0	0.14	21	6.20
97T-239	0.52	0.47	80	13	44	4	8.0	0.15	22	20.50
97T-244	0.51	0.35	89	13	34	6	6.0	0.12	8	5.60
97T-245	0.69	0.30	81	12	34	6	7.0	0.11	13	5.30
97T-247	0.75	0.41	63	13	42	5	8.0	0.14	11	5.80
97T-248	0.57	0.33	79	13	42	5	7.0	0.15	14	4.90
97T-249	0.65	0.46	75	12	41	5	7.0	0.13	18	6.30
97T-250	0.54	0.34	87	14	39	5	7.0	0.14	17	5.20
97T-251	0.51	0.32	88	13	35	5	7.0	0.13	12	5.10
97T-252	0.49	0.35	88	13	35	5	7.0	0.14	17	4.90
97T-253	0.50	0.31	87	13	30	5	6.0	0.11	17	4.10
97T-254	0.48	0.33	85	12	32	5	6.0	0.12	22	4.70
97T-255	0.69	0.35	74	13	40	5	7.0	0.13	9	4.90
97T-256	0.61	0.39	80	12	36	5	7.0	0.14	15	15.00
97T-257	0.55	0.43	83	13	40	5	7.0	0.13	16	4.30
97T-259	0.53	0.46	78	11	37	6	7.0	0.14	18	6.80
97T-261	0.57	0.51	103	14	48	5	8.0	0.14	10	3.50
97T-262	0.48	0.31	84	13	34	5	7.0	0.12	13	5.70
97T-263	0.46	0.32	79	12	33	5	6.0	0.11	14	4.30
97T-264	0.45	0.46	81	13	40	5	7.0	0.14	20	4.10
97T-265	0.60	0.35	83	13	37	5	7.0	0.12	12	12.70
97T-266	0.51	0.28	86	13	32	5	6.0	0.13	11	4.60
97T-267	0.65	0.30	80	12	32	6	6.0	0.11	6	5.40
97T-268	0.45	0.41	80	13	39	4	7.0	0.14	19	4.30
97T-271	0.46	0.28	94	13	32	5	6.0	0.12	9	5.10
97T-272	0.49	0.41	92	13	37	5	7.0	0.14	18	5.80
97T-273	0.59	0.36	82	13	34	5	6.0	0.12	12	5.50
97T-274	0.48	0.24	83	12	29	5	6.0	0.11	13	5.30
97T-275	0.55	0.48	68	12	45	5	7.0	0.14	12	3.50
97T-277	0.65	0.30	76	13	31	6	6.0	0.11	5	4.90
97T-278	0.52	0.26	86	12	32	5	6.0	0.12	12	5.70
97T-279	0.53	0.28	86	11	26	5	5.0	0.11	10	5.30
97T-280	0.48	0.30	76	12	30	5	6.0	0.12	14	5.40
97T-281	0.47	0.15	90	11	21	6	2.5	0.08	4	5.20
97T-282	0.45	0.29	77	12	33	5	6.0	0.12	14	6.00
97T-283	0.40	0.16	102	10	20	5	2.5	0.07	3	5.10
97T-284	0.47	0.32	81	12	33	4	6.0	0.12	19	4.80
97T-285	0.55	0.34	82	12	31	6	6.0	0.11	13	9.10

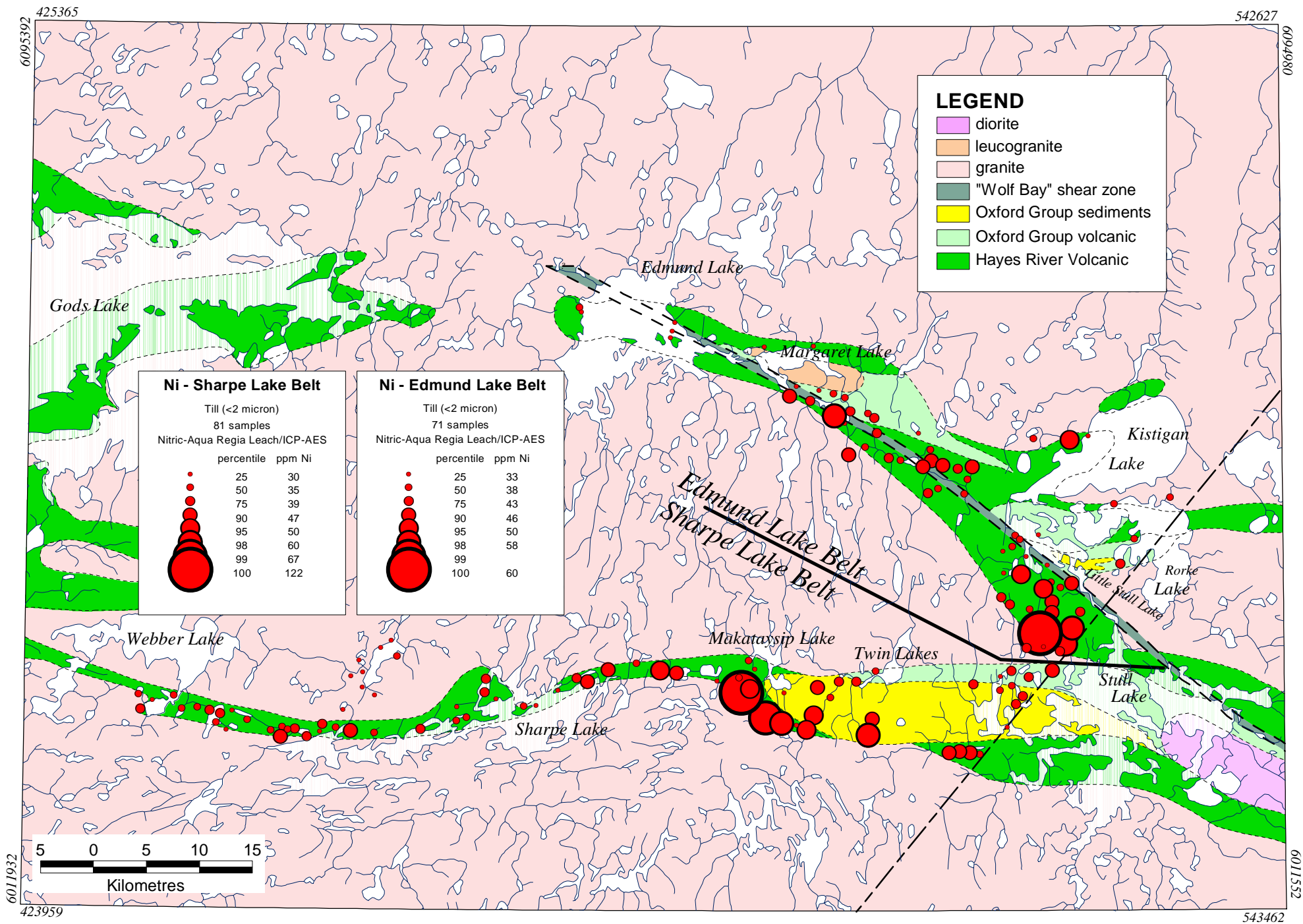
Appendix 2

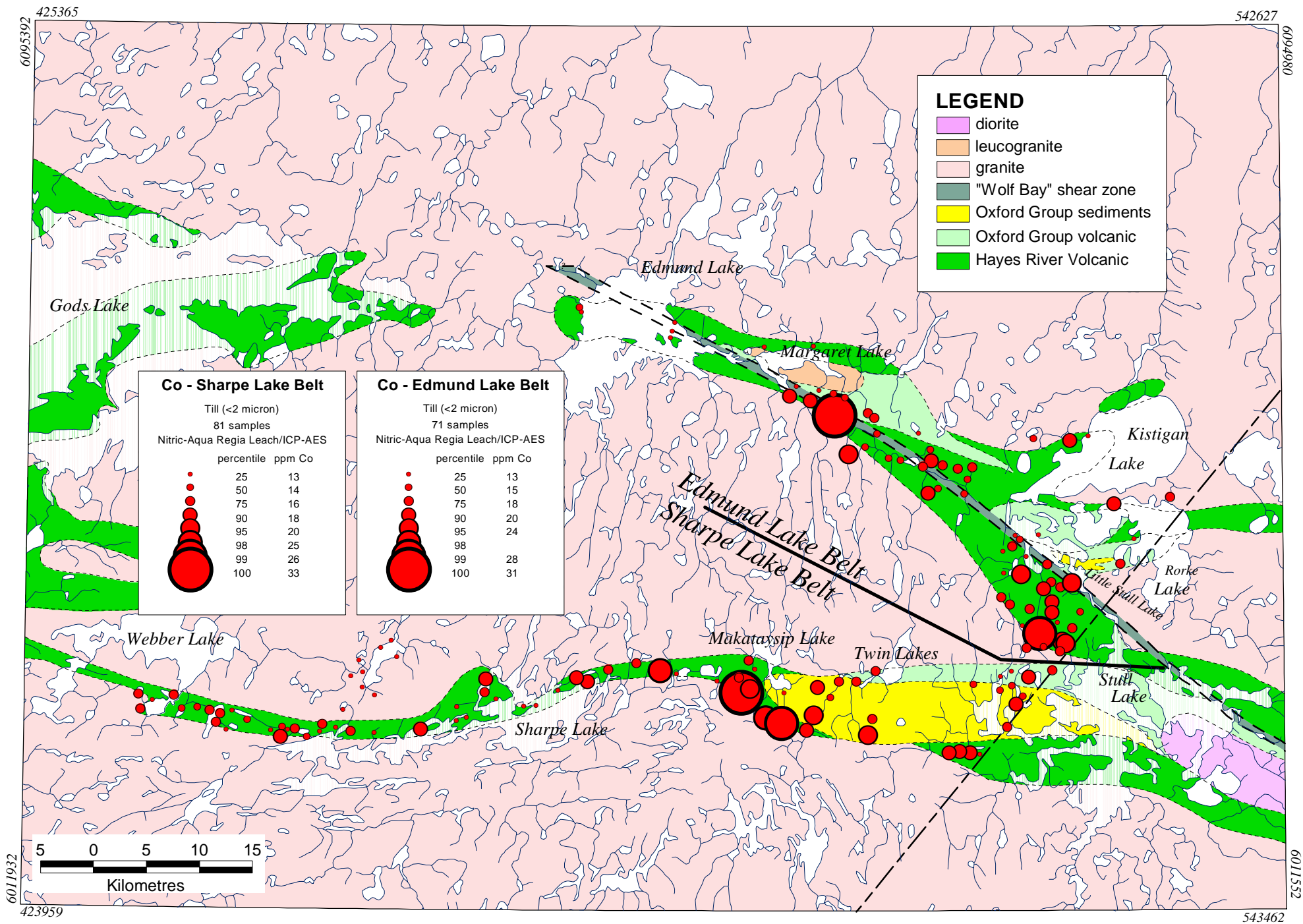
Till Geochemistry: Inductively Coupled Plasma-Atomic Emmission Spectrometry (ICP-AES), Hg (cold vapour - AAS) and As (hydride generation) Percentile Bubble Plots (<2 micron fraction).

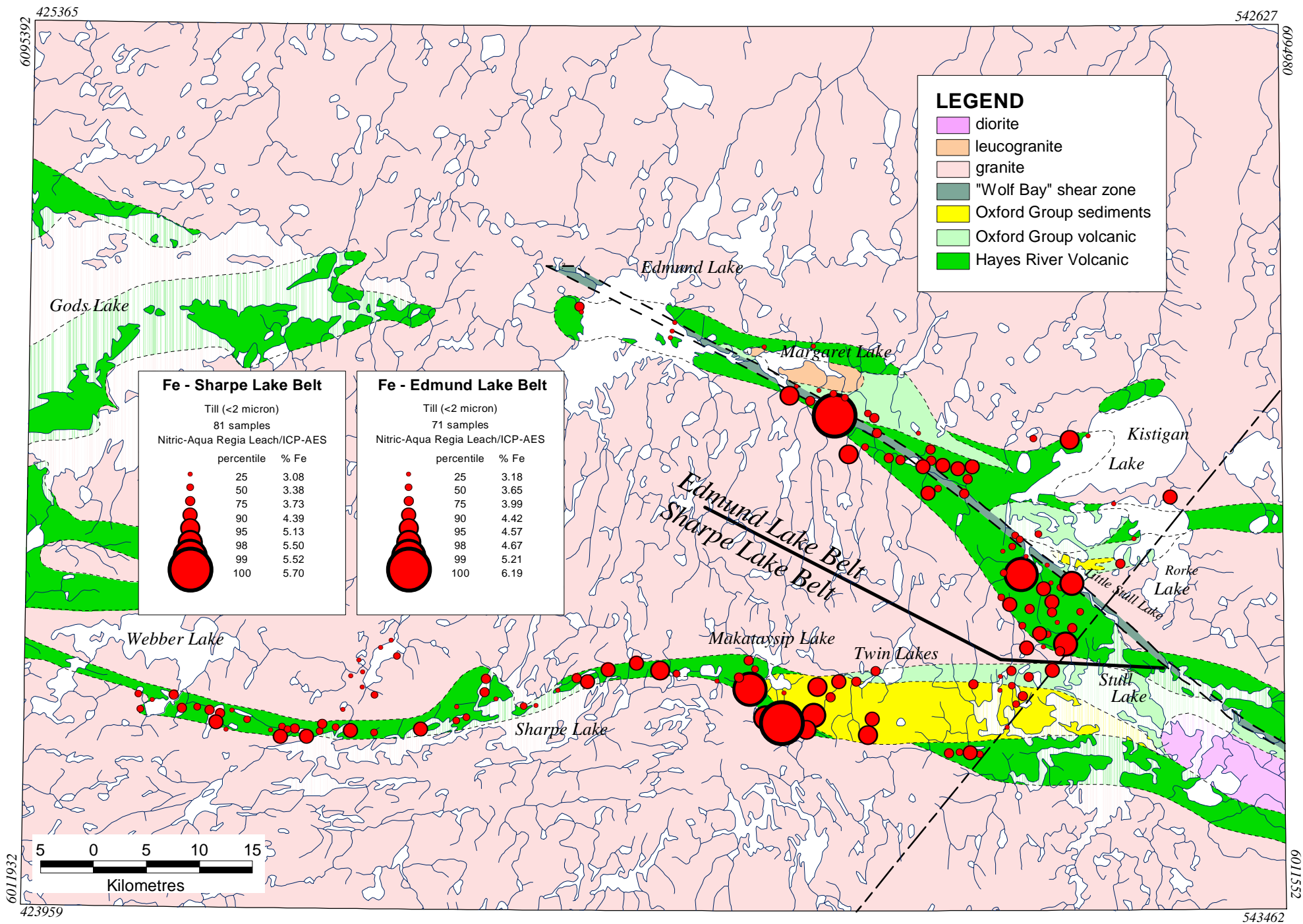


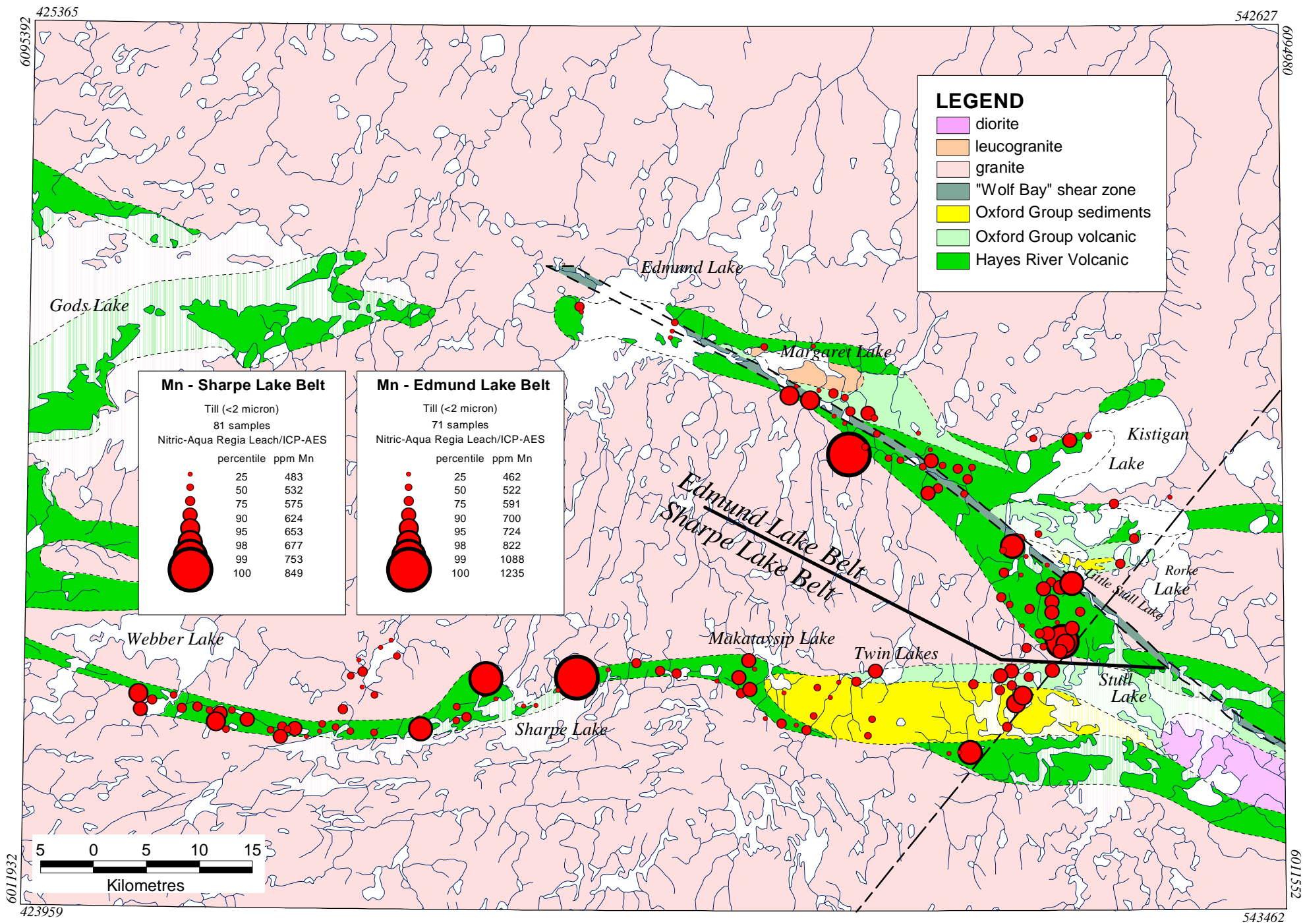


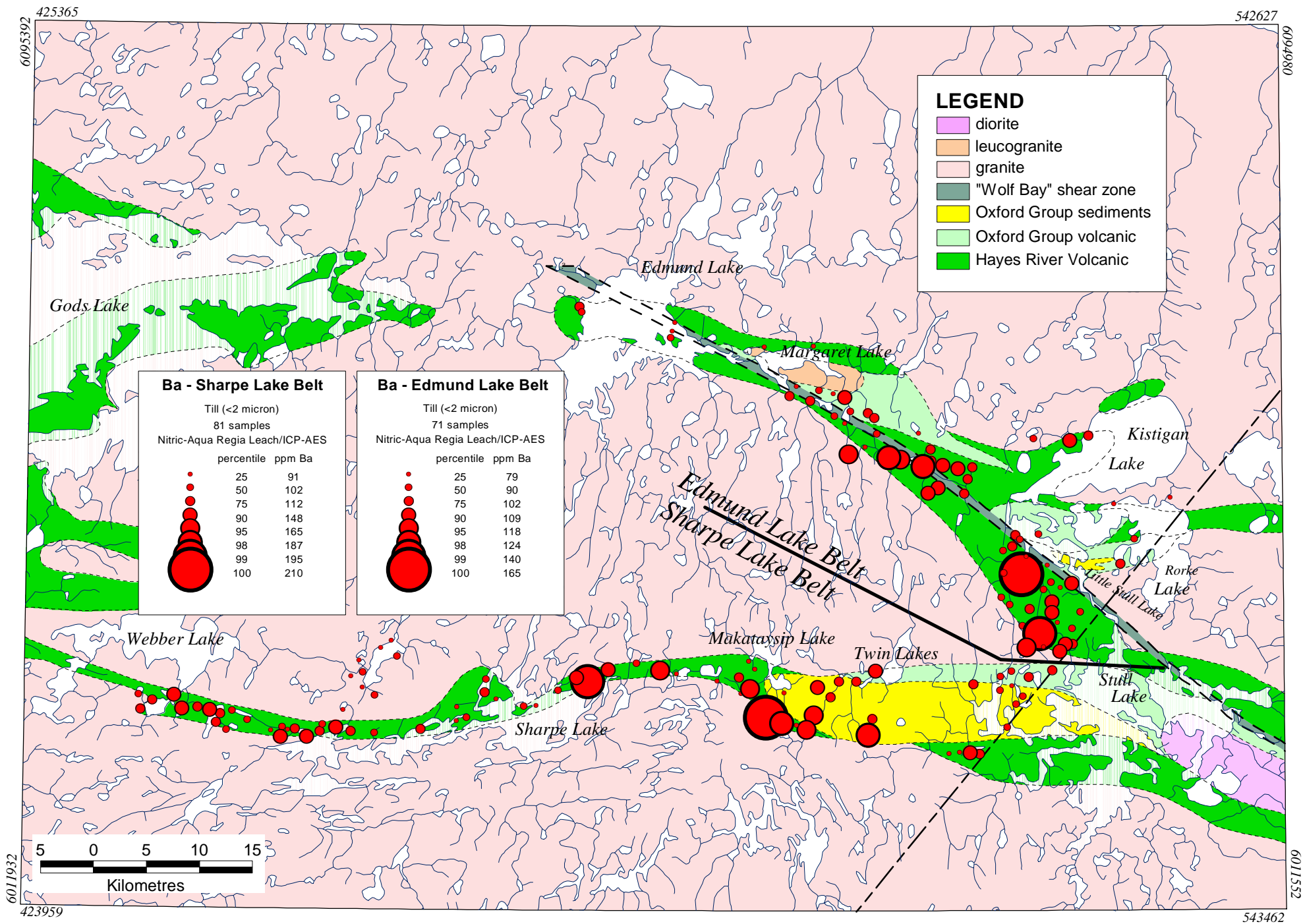


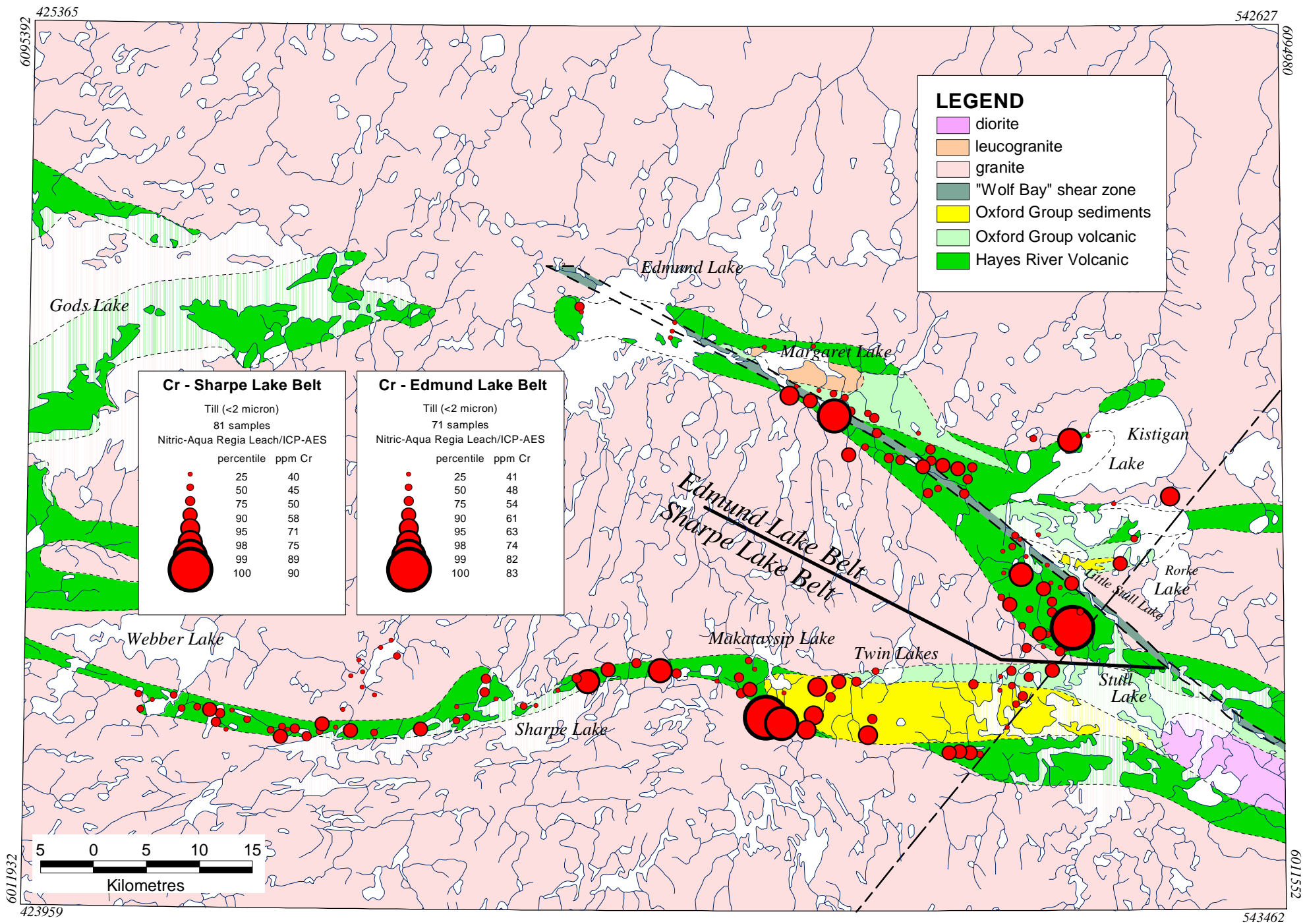


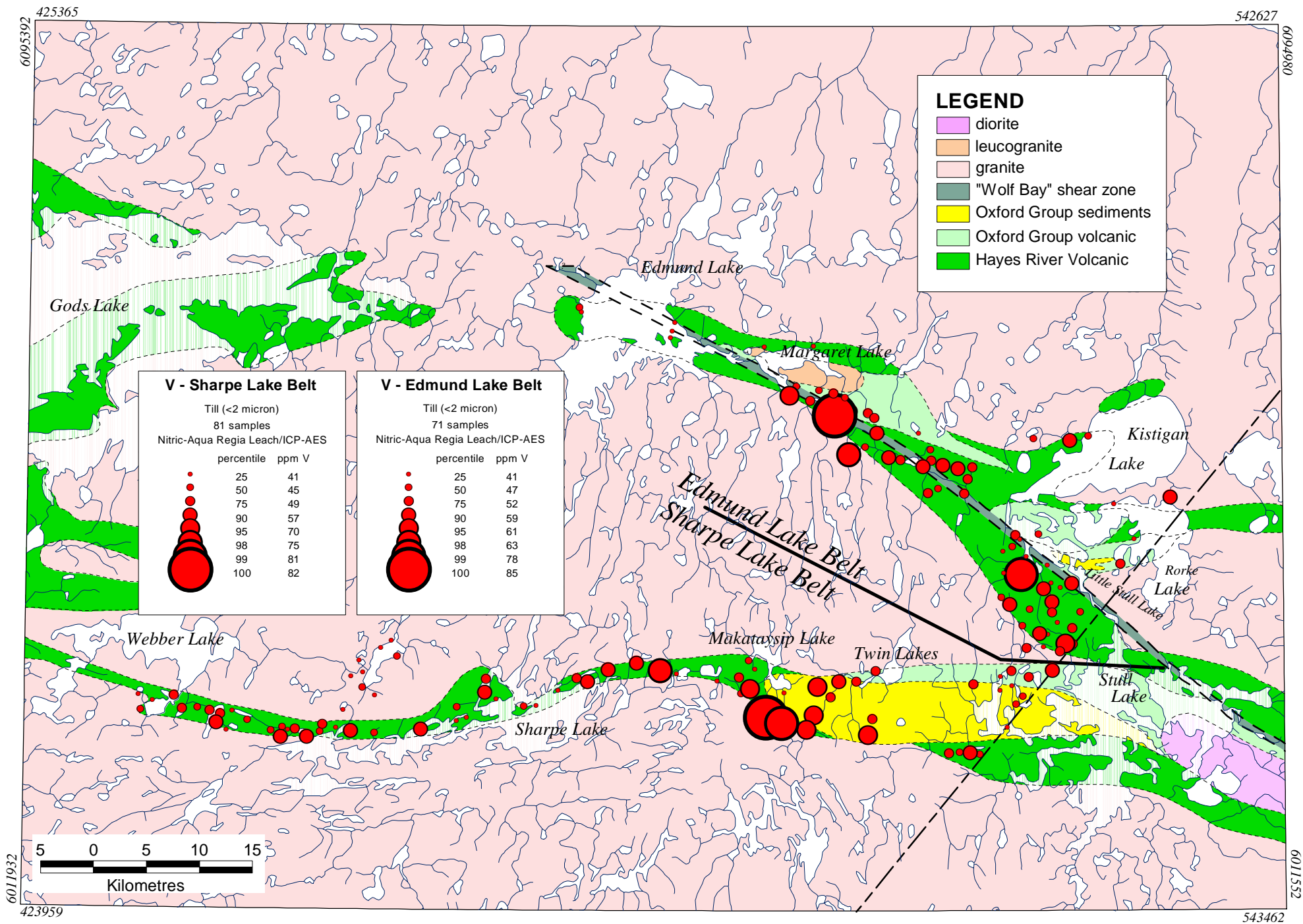


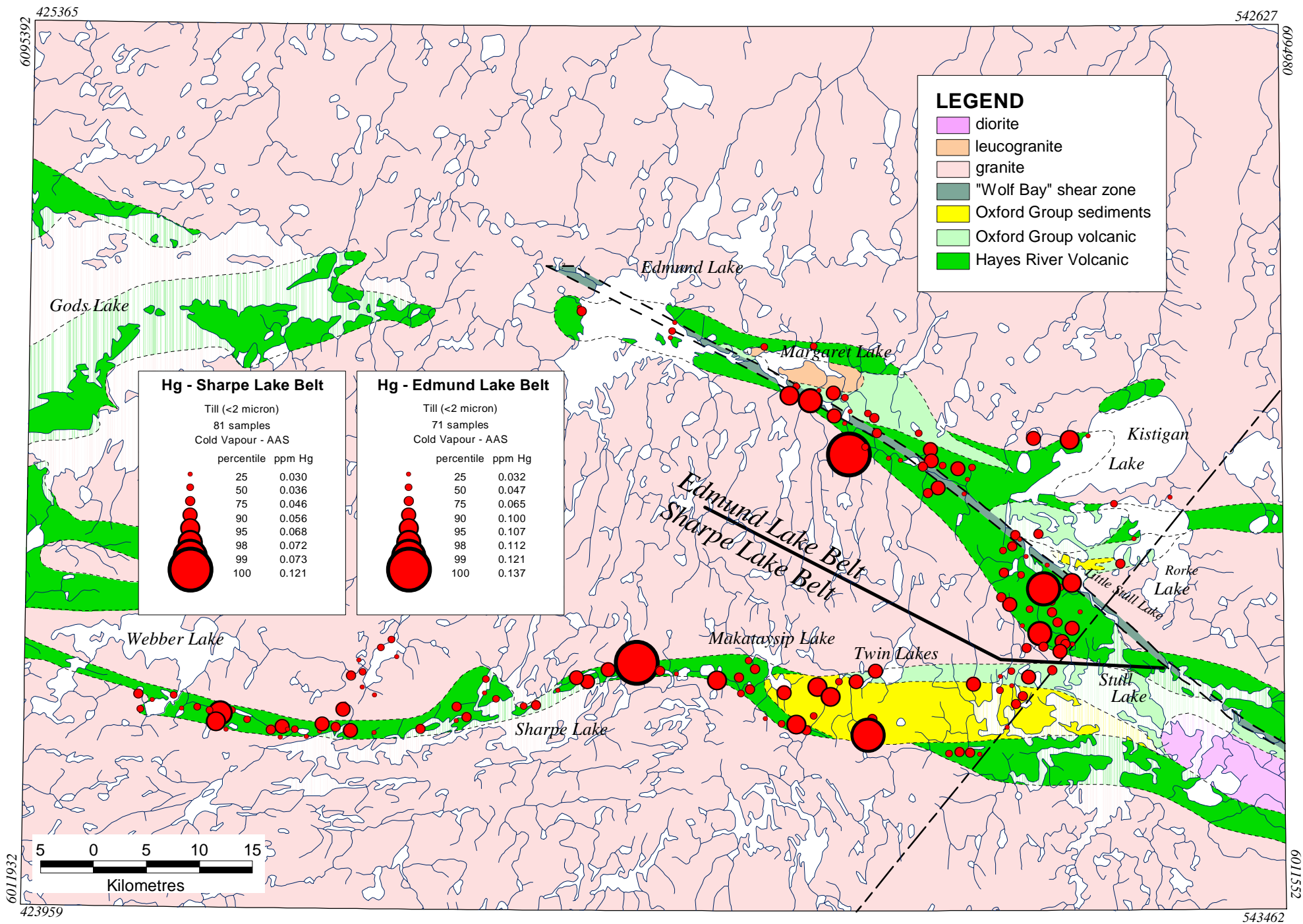


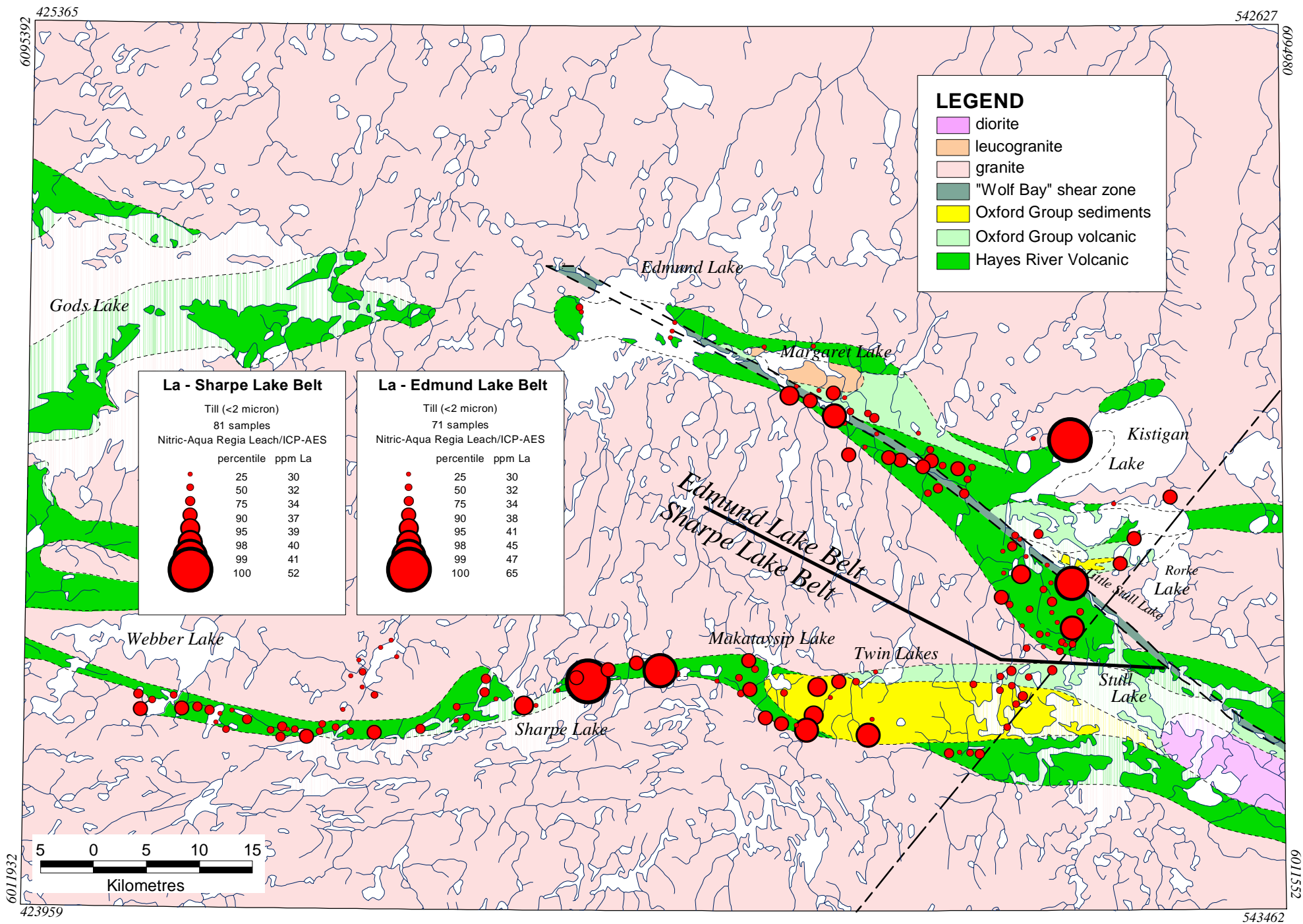


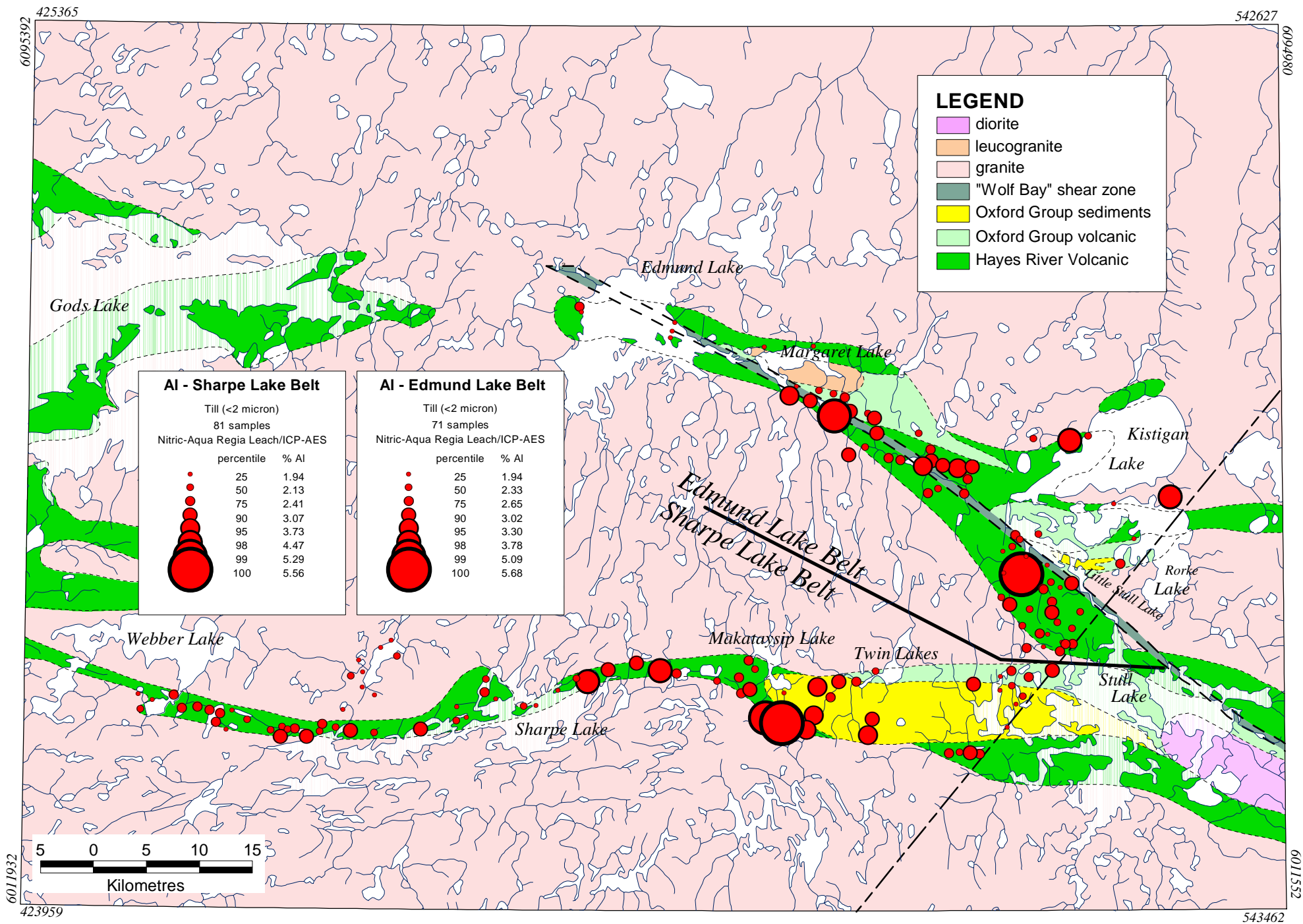


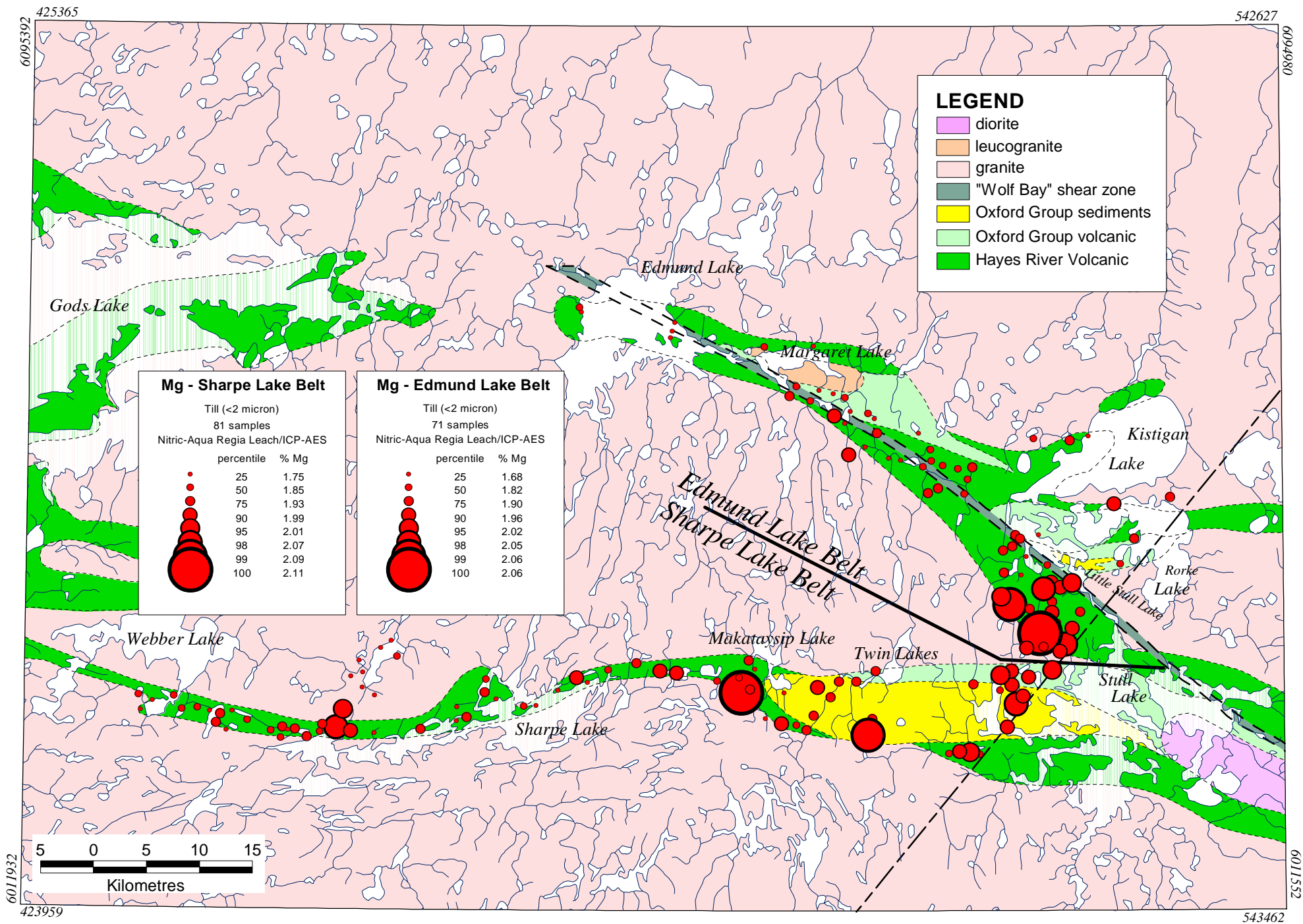


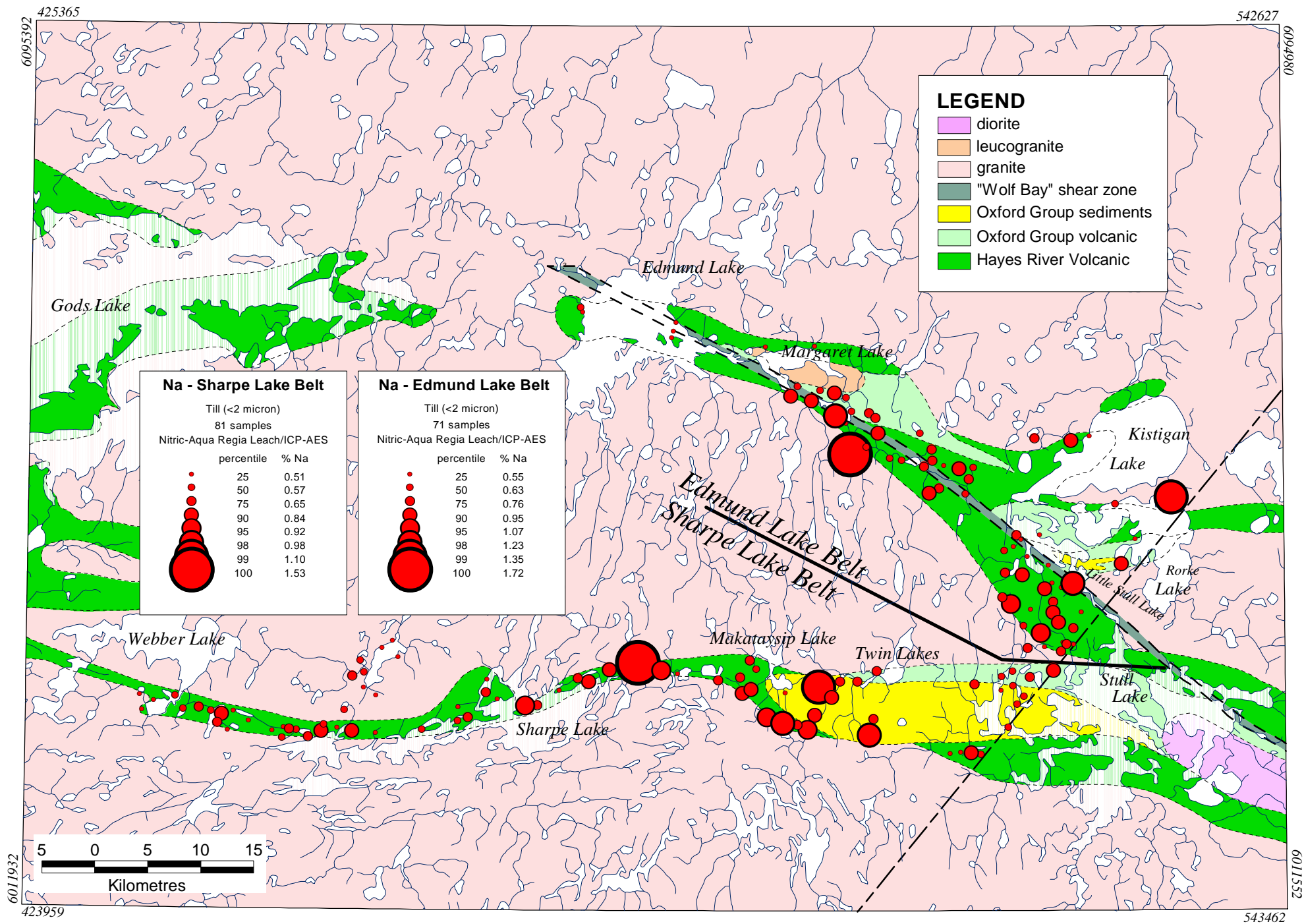


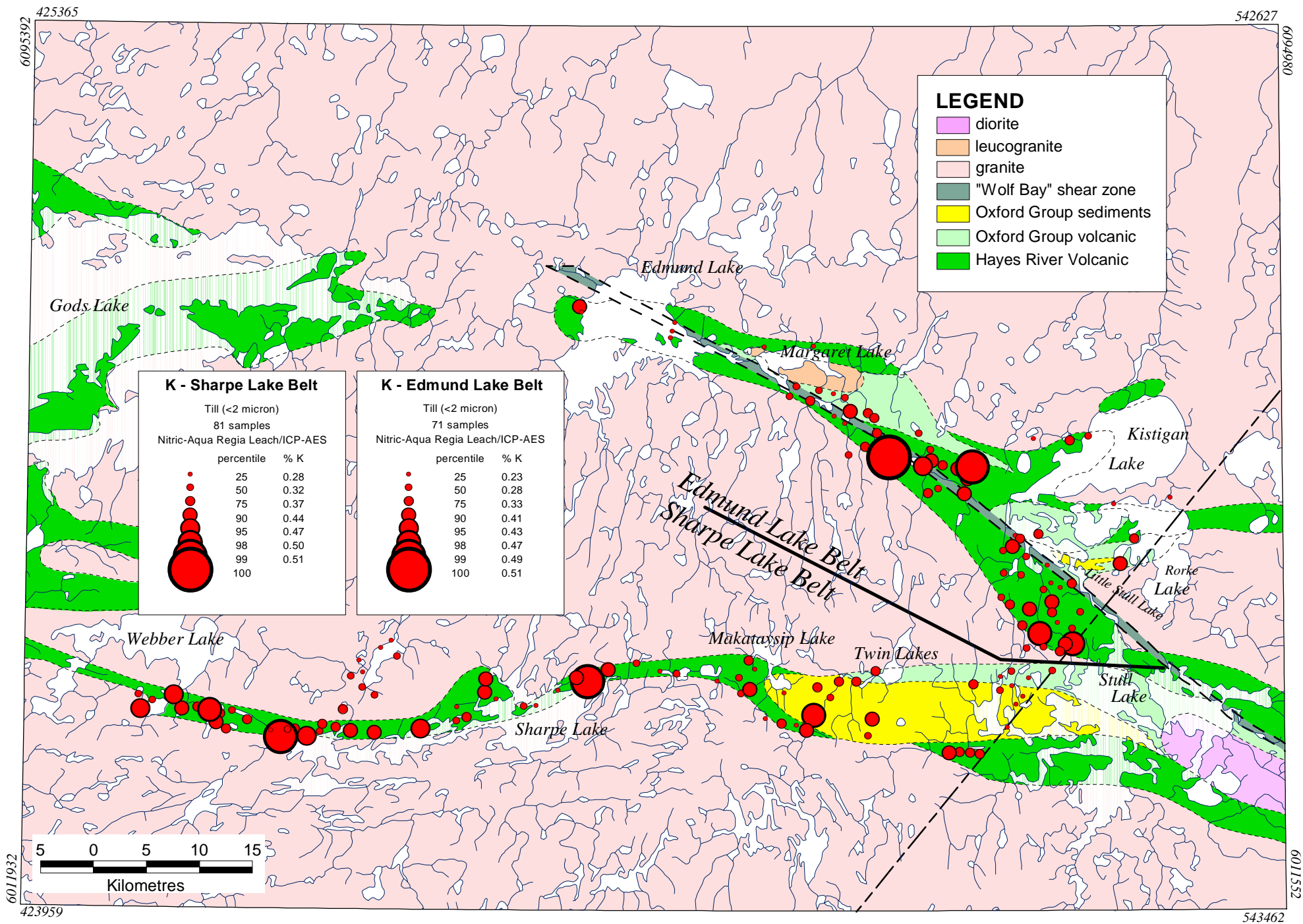


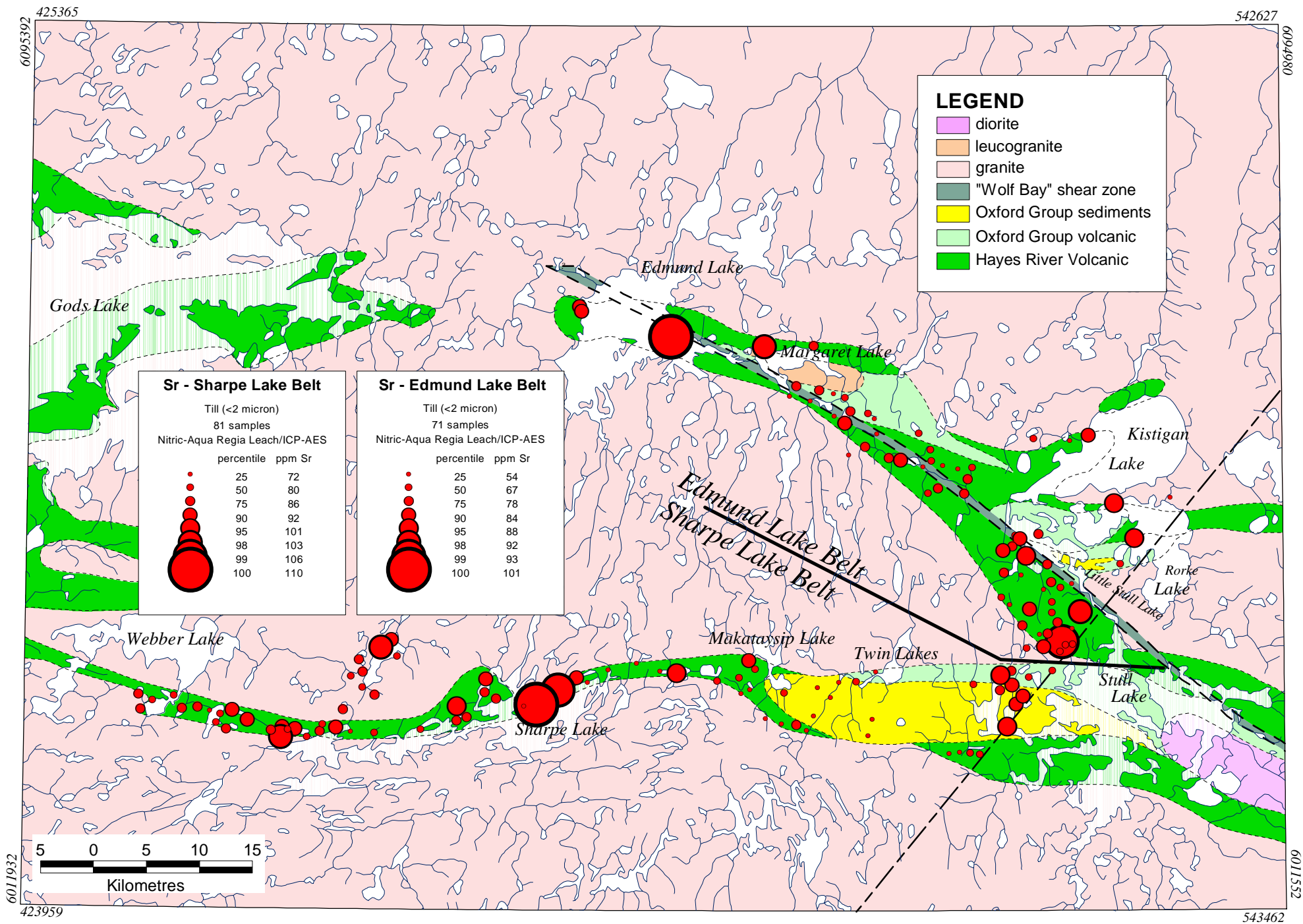


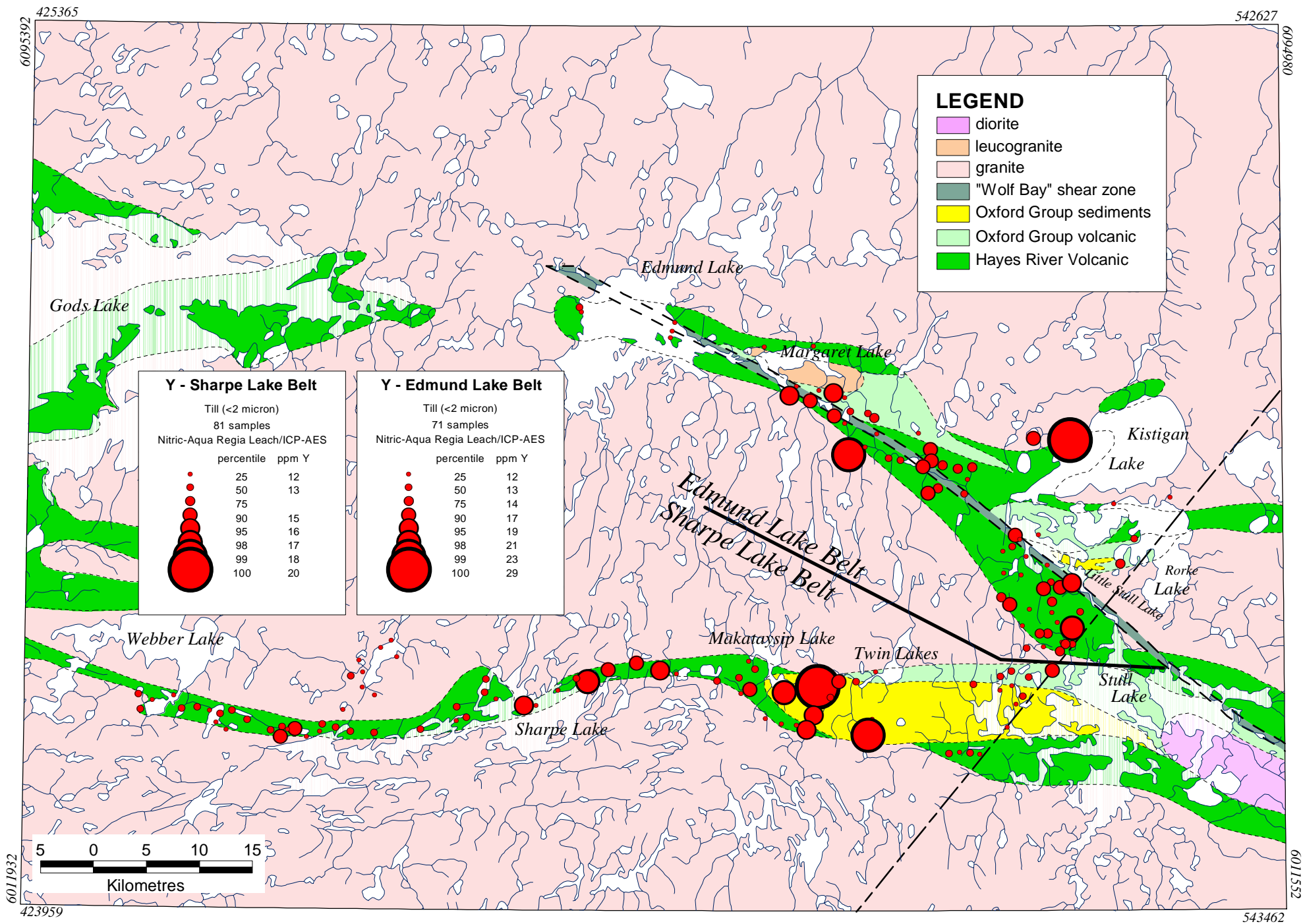


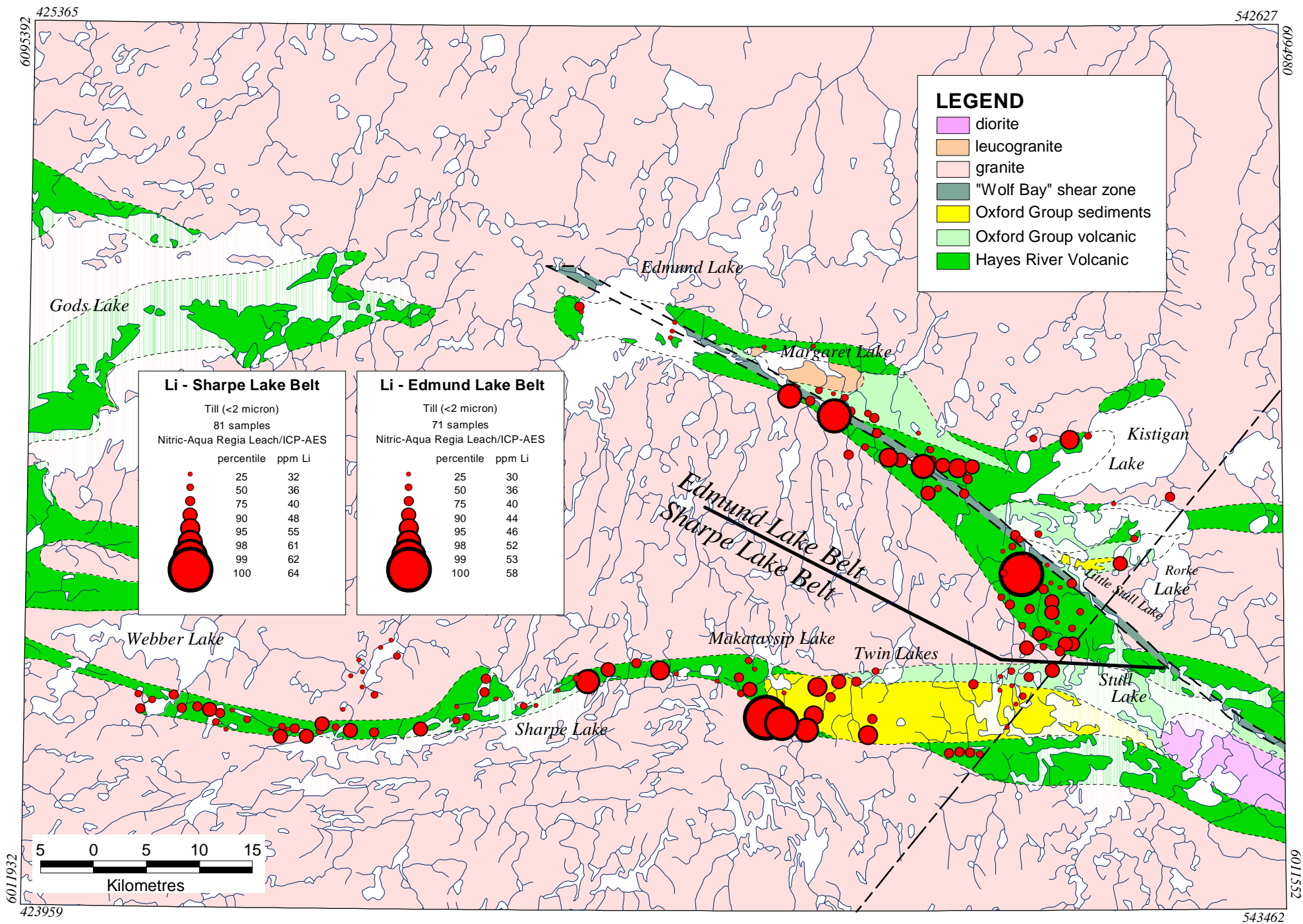


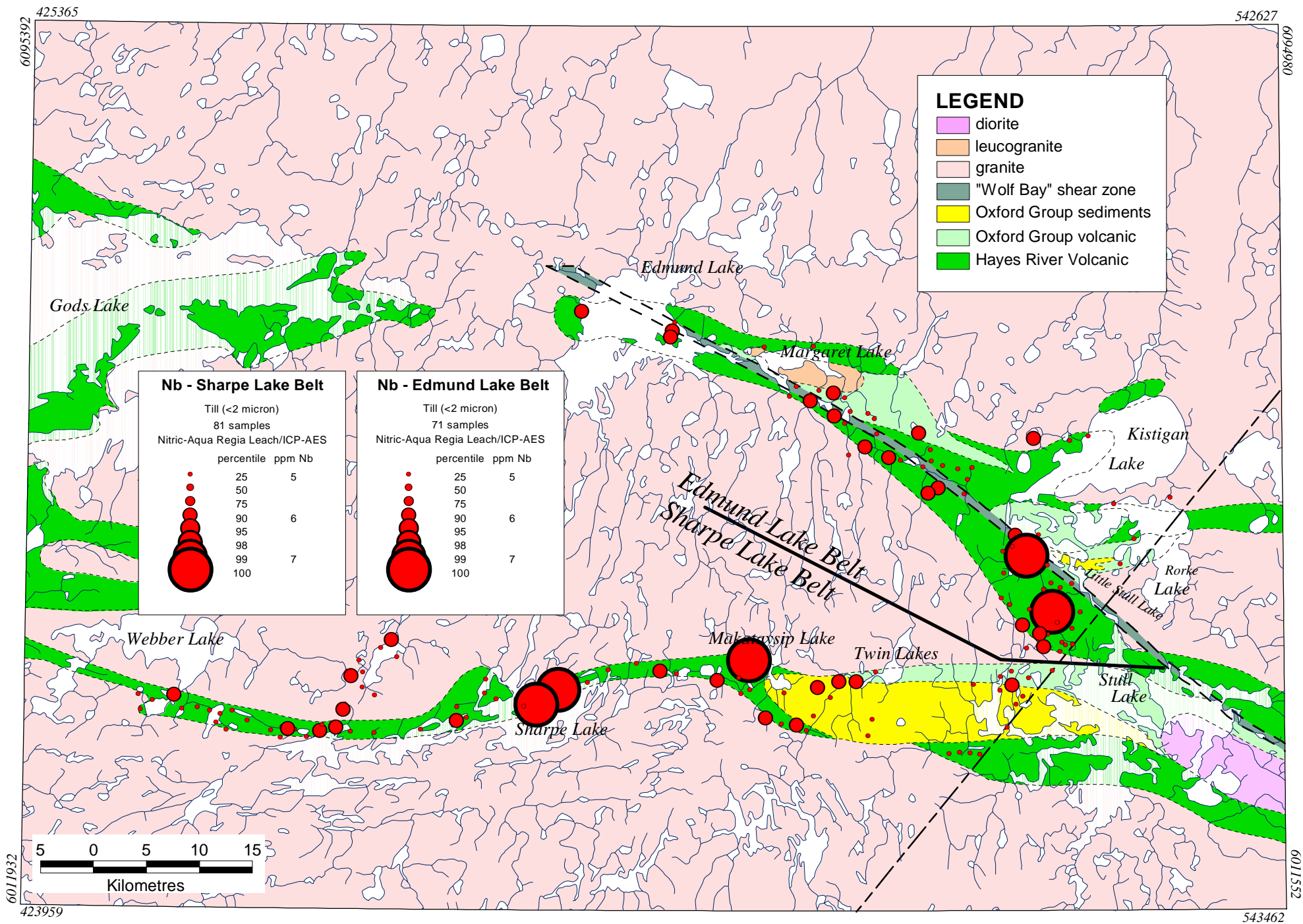


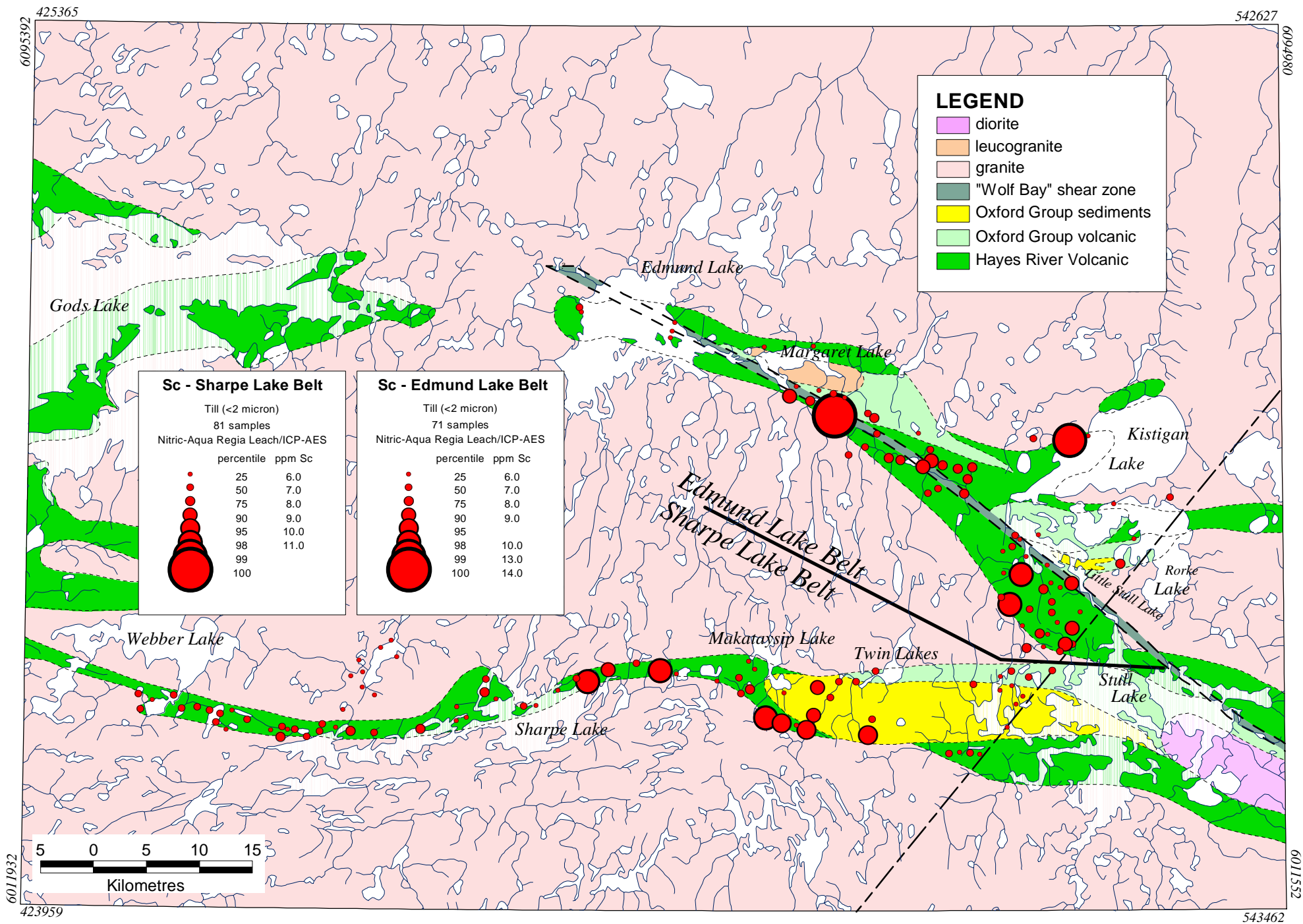


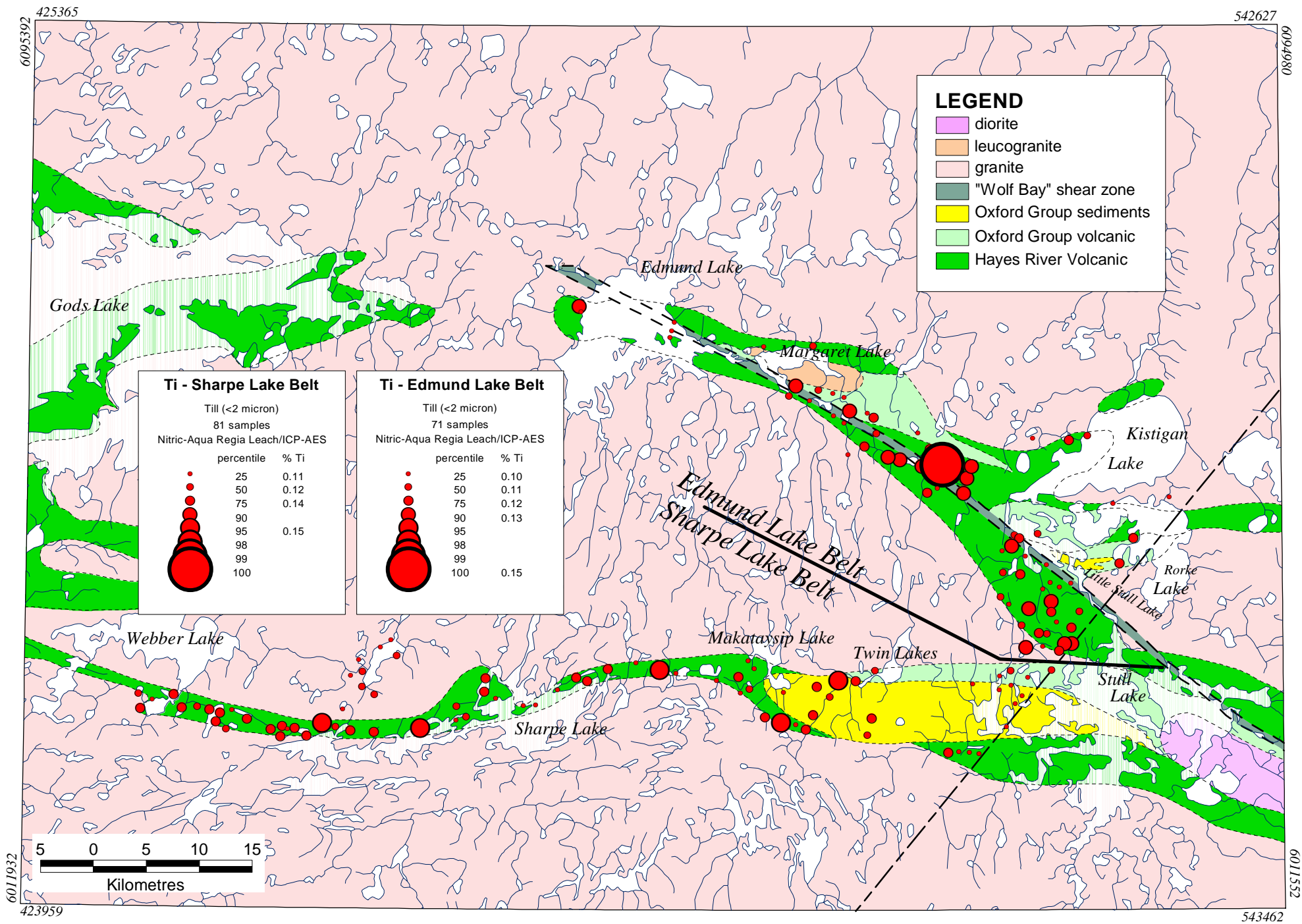


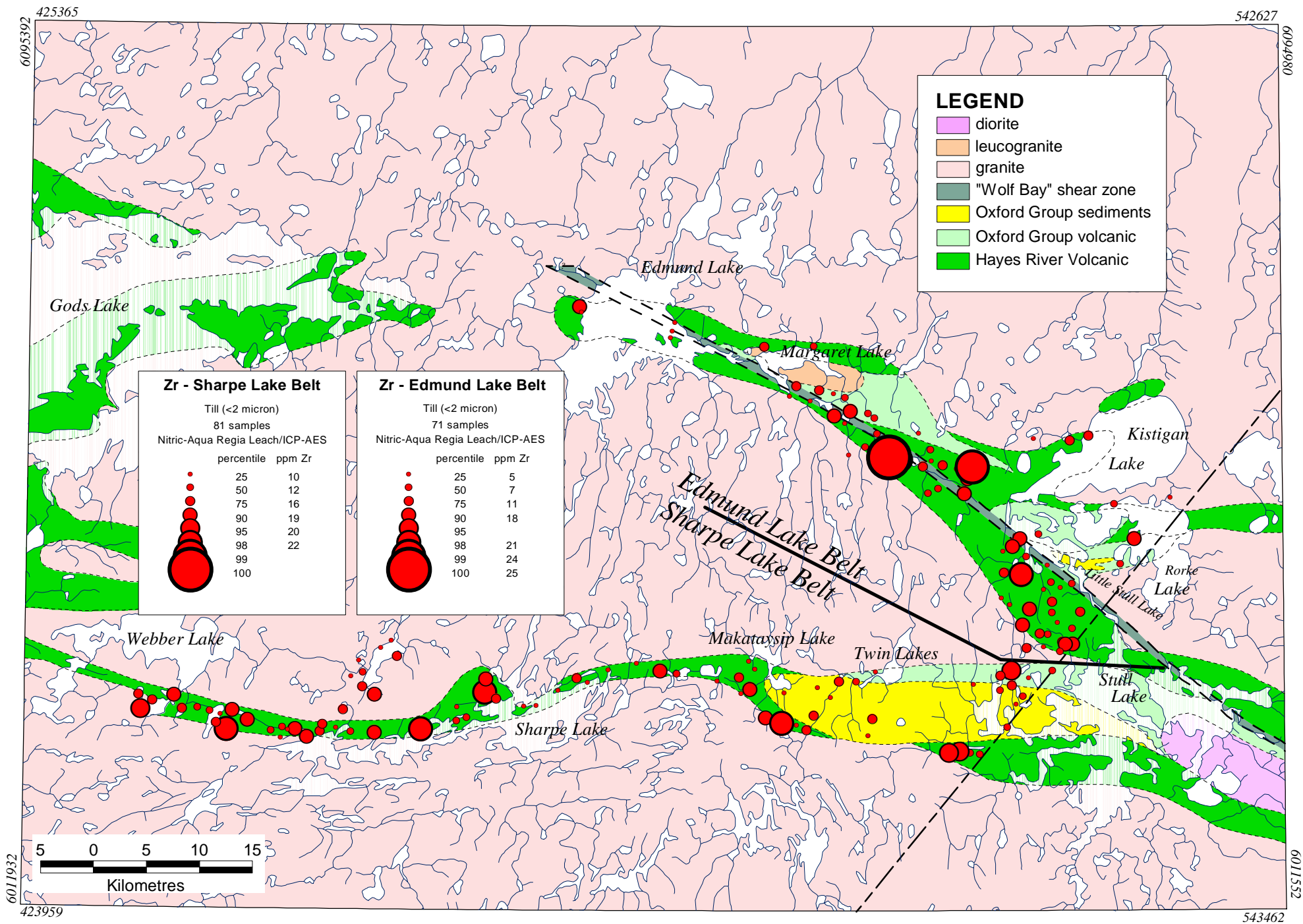


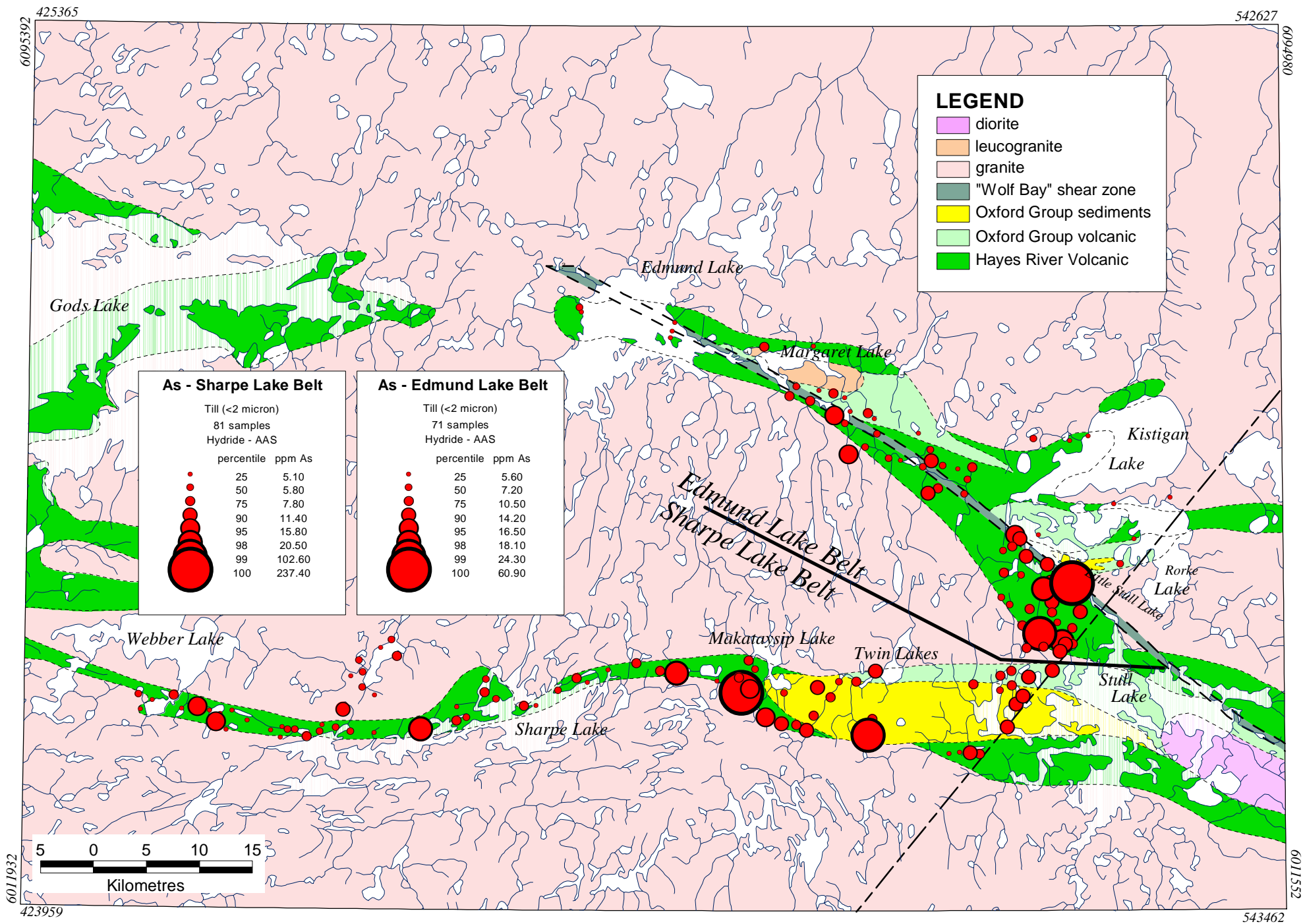


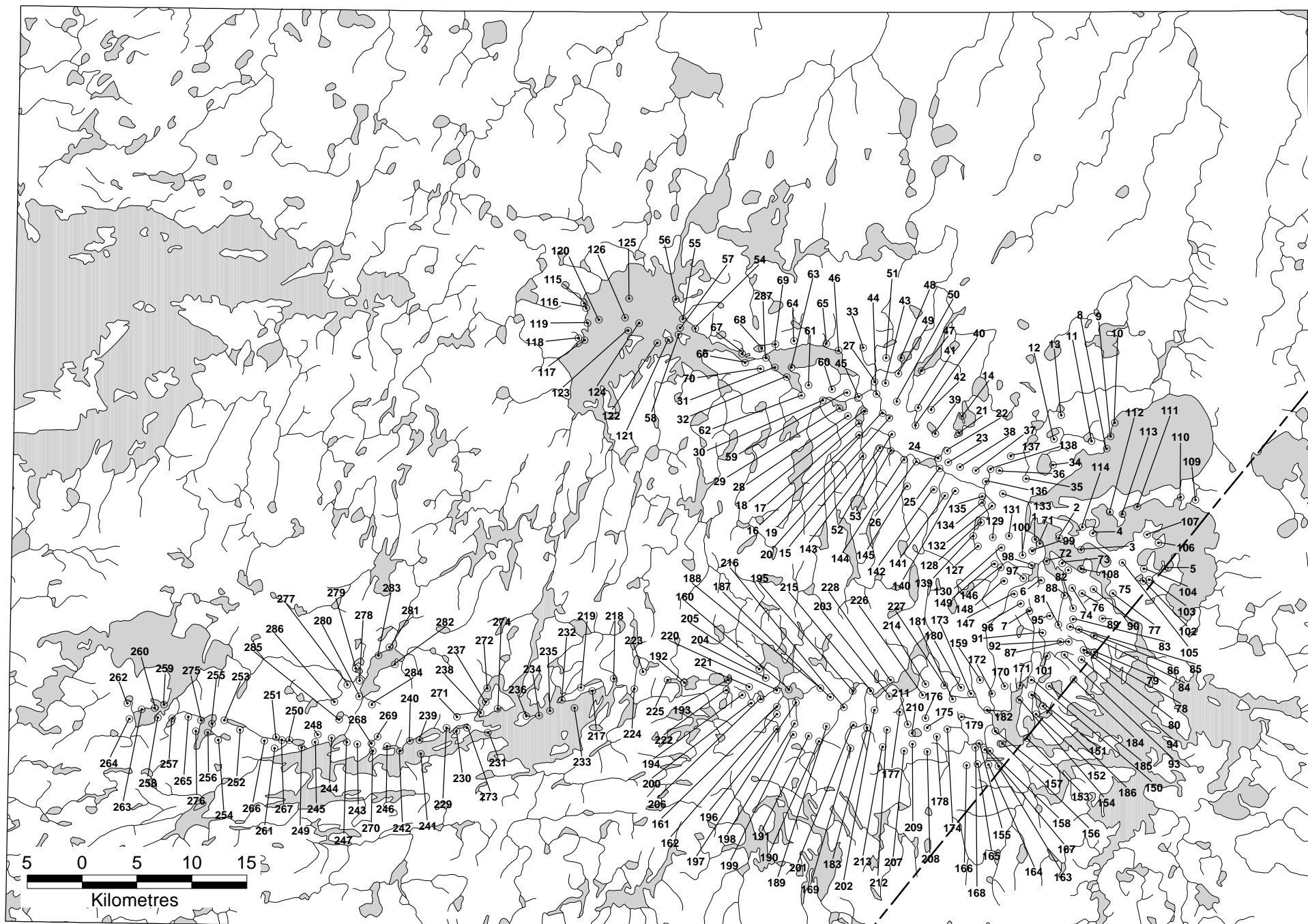












Appendix 3

Till Geochemistry: Instrumental Neutron Activation Analyses (INAA) <63 micron fraction.

Sample Site	UTM		Au	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Mo	Na	Rb	Sb	Sc
	EAST	NORTH	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
97T-1	517844	6046787	1	9.90	460	5.80	15.0	6	52	2.0	1.60	7	0.5	1.27	73.0	0.60	6.4
97T-2	520028	6046856	1	3.30	470	4.10	16.0	4	41	0.5	1.53	7	0.5	1.25	61.0	0.30	5.6
97T-6	518401	6043035	1	7.70	730	4.30	4.0	15	94	5.0	4.15	11	9.0	1.65	120.0	0.30	11.0
97T-7	517331	6040220	1	2.90	320	5.90	12.0	6	48	0.5	1.65	8	0.5	1.33	56.0	0.20	6.4
97T-9	524733	6056170	1	4.10	510	5.00	16.0	7	53	2.0	2.10	6	0.5	1.08	71.0	0.05	6.7
97T-11	522988	6055725	1	2.20	530	5.50	14.0	6	57	1.0	2.24	8	0.5	1.54	59.0	0.30	8.2
97T-12	519560	6055914	1	2.40	440	4.80	13.0	5	37	0.5	1.19	8	0.5	1.20	53.0	0.05	5.2
97T-15	502125	6054351	7	0.25	440	5.30	10.0	5	38	0.5	1.18	10	0.5	1.34	39.0	0.05	5.0
97T-17	501778	6057331	6	2.50	400	3.40	15.0	4	36	0.5	1.22	9	0.5	1.21	46.0	0.05	4.8
97T-18	502316	6058450	1	2.40	450	4.50	16.0	9	54	2.0	2.24	8	0.5	1.25	62.0	0.40	7.1
97T-19	503981	6058302	2	3.60	380	4.50	18.0	5	45	1.0	1.57	14	0.5	1.32	42.0	0.20	6.0
97T-20	504550	6057806	7	3.10	460	5.70	15.0	6	47	2.0	1.76	10	4.0	1.33	55.0	0.20	6.8
97T-22	509841	6054884	3	1.20	380	5.40	14.0	4	39	1.0	1.36	11	0.5	1.25	41.0	0.20	5.2
97T-23	509948	6053778	1	4.90	270	5.90	15.0	7	41	1.0	1.51	10	0.5	1.21	46.0	0.30	5.7
97T-25	509160	6053238	12	2.50	480	4.70	11.0	5	49	1.0	1.67	14	2.0	1.48	78.0	0.10	6.5
97T-26	507026	6053858	1	2.90	310	3.90	17.0	6	38	0.5	1.71	9	0.5	1.21	50.0	0.20	5.9
97T-28	500798	6058006	12	5.50	550	0.25	2.0	13	76	2.0	2.79	18	0.5	2.03	63.0	0.20	12.0
97T-30	498526	6059429	4	4.40	420	7.60	12.0	8	42	2.0	1.71	10	0.5	1.32	48.0	0.20	6.7
97T-37	512445	6053053	1	1.90	390	8.60	15.0	6	44	2.0	1.80	9	4.0	1.29	50.0	0.40	6.9
97T-38	511021	6053344	6	2.30	510	4.70	17.0	6	50	2.0	1.74	10	0.5	1.34	54.0	0.20	6.7
97T-39	508748	6056431	1	2.80	400	8.00	18.0	5	34	2.0	1.34	8	0.5	1.06	33.0	0.05	5.0
97T-45	501781	6059766	3	3.60	380	5.00	15.0	5	46	1.0	1.51	12	0.5	1.11	39.0	0.20	5.7
97T-52	504799	6056393	4	0.25	330	5.20	14.0	4	34	1.0	1.02	9	0.5	1.15	26.0	0.30	4.4
97T-55	485756	6066892	1	2.20	290	5.50	16.0	4	35	1.0	1.25	10	0.5	1.13	32.0	0.30	4.8
97T-57	485524	6066062	1	1.10	360	7.30	16.0	4	34	0.5	1.12	9	3.0	1.07	24.0	0.40	4.5
97T-58	485360	6065468	3	1.80	370	4.20	15.0	4	33	0.5	1.20	7	0.5	1.05	27.0	0.20	4.5
97T-59	500719	6060166	1	2.40	300	5.30	13.0	4	33	1.0	1.15	10	0.5	1.20	29.0	0.20	4.9
97T-60	499348	6060438	1	2.20	310	4.00	14.0	4	32	0.5	1.18	7	0.5	1.02	28.0	0.30	4.6
97T-61	497206	6060852	5	1.80	380	4.00	16.0	4	36	0.5	1.19	10	0.5	1.18	26.0	0.30	4.8
97T-62	496583	6059870	3	2.80	290	5.90	13.0	5	40	1.0	1.38	9	0.5	1.13	33.0	0.30	5.7
97T-65	498817	6064616	1	1.30	370	4.20	15.0	4	37	1.0	1.31	10	0.5	1.10	7.5	0.30	5.1
97T-69	494161	6064535	1	2.90	340	4.30	16.0	5	34	1.0	1.23	10	0.5	1.05	33.0	0.40	4.6
97T-71	518287	6046419	4	4.90	400	3.90	18.0	5	35	0.5	1.37	9	4.0	1.15	38.0	0.60	5.3
97T-72	518901	6044811	1	9.70	340	4.50	17.0	5	33	2.0	1.28	9	0.5	1.08	28.0	0.30	5.1
97T-74	521245	6042332	1	2.90	390	4.00	13.0	5	36	0.5	1.17	8	3.0	1.18	7.5	0.30	5.0
97T-75	520867	6044001	1	4.60	330	4.30	14.0	6	30	0.5	1.10	7	0.5	1.08	33.0	0.05	4.6
97T-76	522120	6041844	3	4.60	350	4.10	14.0	4	34	0.5	1.27	8	0.5	1.13	47.0	0.40	5.1
97T-78	522282	6036707	5	3.50	340	3.60	15.0	6	37	0.5	1.22	9	0.5	1.20	33.0	0.20	5.0
97T-79	523264	6036507	2	3.00	380	2.30	17.0	5	45	1.0	1.31	8	3.0	1.20	45.0	0.30	5.6
97T-80	522574	6036479	4	2.20	400	3.60	14.0	5	40	1.0	1.27	10	0.5	1.31	41.0	0.30	5.6
97T-82	521310	6040504	3	3.40	440	3.70	15.0	5	47	0.5	1.43	10	0.5	1.35	25.0	0.20	5.7
97T-83	521313	6039495	1	4.90	420	4.00	16.0	6	43	1.0	1.52	9	5.0	1.27	37.0	0.30	6.2
97T-85	521819	6038559	2	3.20	420	4.50	14.0	5	41	1.0	1.42	10	0.5	1.39	36.0	0.20	5.8
97T-86	523226	6037995	5	3.30	360	4.50	13.0	5	56	1.0	1.40	9	0.5	1.29	36.0	0.05	6.0
97T-87	520938	6037469	3	4.40	320	4.40	15.0	7	43	1.0	1.50	9	0.5	1.21	30.0	0.20	5.9
97T-88	520527	6041691	3	3.60	350	6.00	15.0	5	44	0.5	1.38	9	0.5	1.24	37.0	0.40	5.6
97T-89	523975	6039555	8	6.10	330	5.00	14.0	7	50	1.0	1.59	10	0.5	1.34	41.0	0.30	5.9
97T-90	523174	6042220	54	26.00	430	4.60	14.0	6	48	1.0	1.67	12	0.5	1.41	45.0	0.40	6.3
97T-91	518535	6038263	1	2.70	350	4.90	15.0	4	37	0.5	1.26	9	0.5	1.16	39.0	0.30	5.2
97T-92	520156	6037478	4	6.20	470	4.10	15.0	6	43	1.0	1.55	11	3.0	1.35	42.0	0.40	6.2
97T-93	520504	6036253	3	4.30	340	8.10	16.0	5	41	1.0	1.31	8	3.0	1.22	31.0	0.30	5.4
97T-94	522084	6035823	3	3.70	370	6.20	14.0	5	42	0.5	1.37	11	0.5	1.30	32.0	0.05	5.6
97T-95	519219	6039836	3	4.20	330	4.30	14.0	5	35	1.0	1.21	8	0.5	1.13	33.0	0.20	5.1
97T-96	516558	6040903	2	2.30	420	5.50	14.0	5	43	1.0	1.46	9	0.5	1.23	47.0	0.30	5.9
97T-97	516780	6043256	1	4.30	230	4.40	16.0	4	30	1.0	1.09	7	0.5	1.08	39.0	0.05	4.5
97T-99	517575	6045717	7	4.90	310	3.50	16.0	6	43	1.0	1.52	9	0.5	1.23	41.0	0.40	5.9
97T-100	516705	6045308	3	3.30	320	5.60	15.0	4	30	1.0	1.13	7	0.5	1.03	34.0	0.05	4.4
97T-101	518918	6036134	1	3.70	420	5.40	16.0	5	38	0.5	1.47	9	0.5	1.24	39.0	0.30	5.7
97T-104	527779	6044102	1	3.20	350	6.90	14.0	6	56	1.0	1.63	11	0.5	1.48	39.0	0.05	6.6
97T-106	529083	6046462	1	3.90	380	4.20	14.0	6	42	1.0	1.31	8	0.5	1.23	47.0	0.40	5.5
97T-109	532452	6050373	1	2.50	660	0.25	0.5	10	76	3.0	2.77	10	0.5	2.11	95.0	0.05	9.2
97T-111	527183	6049725	2	2.60	430	5.90	18.0	8	45	2.0	1.54	10	0.5	1.45	40.0	0.05	6.5

Sample Site	UTM		Au	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Mo	Na	Rb	Sb	Sc
	EAST	NORTH	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
97T-115	476770	6068319	2	4.30	310	4.40	17.0	7	41	2.0	1.82	9	0.5	1.27	76.0	0.20	6.6
97T-116	476939	6067881	1	3.20	310	8.00	20.0	6	34	2.0	1.33	9	0.5	1.14	68.0	0.30	5.1
97T-135	513049	6050683	4	5.10	400	5.90	17.0	6	44	0.5	1.78	9	0.5	1.22	63.0	0.40	6.4
97T-136	513377	6052104	1	5.00	390	5.10	14.0	8	54	2.0	1.94	9	0.5	1.24	66.0	0.40	6.8
97T-138	513788	6053203	1	4.40	470	4.70	16.0	10	53	2.0	2.02	10	0.5	1.19	74.0	0.05	7.3
97T-140	510561	6051207	1	3.10	370	6.20	14.0	5	37	0.5	1.43	8	0.5	1.22	65.0	0.20	5.6
97T-141	509638	6050746	4	3.80	450	5.20	17.0	6	38	1.0	1.41	13	0.5	1.26	30.0	0.20	5.6
97T-143	503707	6055102	1	2.80	350	6.60	15.0	6	39	0.5	1.51	9	0.5	1.23	58.0	0.20	5.8
97T-144	505932	6054078	1	2.70	460	5.70	18.0	7	45	2.0	1.68	9	1.0	1.34	75.0	0.05	6.0
97T-150	517486	6033988	1	4.00	500	4.40	17.0	7	57	0.5	1.71	9	0.5	1.36	59.0	0.40	6.6
97T-151	517522	6032623	4	3.50	400	5.30	17.0	7	47	0.5	1.72	9	0.5	1.35	36.0	0.30	6.6
97T-152	517917	6030851	1	5.00	330	4.80	15.0	6	42	0.5	1.60	10	0.5	1.32	30.0	0.30	6.1
97T-153	517089	6028676	1	3.90	250	5.20	17.0	6	48	1.0	1.51	10	0.5	1.36	37.0	0.30	5.8
97T-154	516412	6032166	1	3.40	360	5.30	19.0	5	44	0.5	1.30	6	0.5	1.28	37.0	0.20	5.6
97T-163	514501	6026145	1	5.50	340	4.80	17.0	6	48	0.5	1.78	9	0.5	1.24	35.0	0.20	6.7
97T-164	513589	6026247	8	4.00	490	4.80	16.0	6	45	2.0	1.51	10	0.5	1.37	54.0	0.05	6.2
97T-165	512599	6026335	5	2.10	500	3.60	16.0	5	50	2.0	1.46	10	5.0	1.43	58.0	0.30	7.0
97T-166	511598	6026204	1	3.70	420	3.10	13.0	7	55	2.0	1.96	7	0.5	1.12	65.0	0.30	6.9
97T-171	516472	6033483	1	3.00	350	4.50	17.0	6	40	0.5	1.33	7	0.5	1.21	49.0	0.20	5.1
97T-172	513930	6032694	1	2.90	350	5.90	15.0	4	40	0.5	1.32	9	0.5	1.22	48.0	0.20	5.3
97T-184	521348	6034014	1	5.90	470	4.90	15.0	5	46	1.0	1.51	8	0.5	1.24	48.0	0.30	6.0
97T-185	519147	6033381	1	3.40	370	5.10	17.0	6	46	1.0	1.50	8	0.5	1.29	55.0	0.30	5.7
97T-186	518573	6031574	1	4.80	420	4.40	16.0	7	49	1.0	1.67	8	0.5	1.29	48.0	0.30	6.2
97T-187	499197	6032410	1	3.20	400	5.10	15.0	4	37	0.5	1.25	11	2.0	1.27	34.0	0.20	4.8
97T-189	498849	6029766	4	2.60	400	4.90	13.0	5	50	0.5	1.75	12	0.5	1.40	42.0	0.20	6.0
97T-190	498167	6028367	1	4.20	400	7.70	13.0	7	52	2.0	1.87	12	4.0	1.33	68.0	0.30	6.7
97T-191	497208	6028893	1	3.60	430	4.80	15.0	5	39	1.0	1.27	10	0.5	1.20	46.0	0.20	4.9
97T-192	485905	6033746	1	12.00	400	4.40	11.0	6	49	1.0	1.74	7	0.5	1.58	36.0	0.50	6.5
97T-195	501211	6032956	1	4.80	470	5.30	15.0	5	42	2.0	1.50	9	6.0	1.35	36.0	0.60	5.6
97T-196	494312	6029503	1	9.00	520	3.40	1.0	12	110	3.0	2.93	11	3.0	1.78	62.0	0.50	9.7
97T-197	496064	6031902	1	4.20	390	4.70	15.0	4	38	1.0	1.20	9	0.5	1.20	41.0	0.40	5.2
97T-199	495793	6029002	1	7.90	690	1.90	0.5	14	91	3.0	3.30	12	0.5	2.04	87.0	0.40	10.0
97T-200	491974	6031864	2	59.00	430	4.10	13.0	9	35	0.5	1.31	11	0.5	1.27	32.0	0.50	4.7
97T-204	493311	6034135	1	4.20	390	5.50	16.0	3	35	1.0	1.25	9	0.5	1.23	40.0	0.30	4.9
97T-205	492691	6034939	1	3.50	530	6.20	13.0	6	42	0.5	1.63	8	0.5	1.53	54.0	0.50	6.0
97T-206	492813	6032211	4	6.40	460	4.20	15.0	7	45	1.0	1.91	9	4.0	1.26	75.0	0.50	6.5
97T-212	504366	6029454	1	3.70	460	4.30	14.0	5	43	1.0	1.42	11	0.5	1.29	39.0	0.40	5.1
97T-213	503971	6027895	1	36.00	400	6.60	13.0	7	57	5.0	1.77	10	2.0	1.52	36.0	0.30	7.1
97T-215	502859	6032947	1	3.90	420	6.10	14.0	6	40	0.5	1.30	7	3.0	1.15	37.0	0.30	5.5
97T-216	500430	6031458	4	3.40	330	5.80	14.0	4	41	1.0	1.42	11	0.5	1.30	45.0	0.30	5.2
97T-217	477524	6032937	1	3.50	650	5.40	0.5	11	96	4.0	3.18	10	7.0	1.62	110.0	0.50	11.0
97T-218	479469	6034111	1	2.70	430	4.70	13.0	4	35	1.0	1.41	8	0.5	1.17	50.0	0.20	5.6
97T-219	476476	6033291	3	3.20	320	4.00	14.0	4	31	0.5	1.12	8	2.0	1.20	37.0	0.30	5.0
97T-221	491778	6033333	1	4.70	410	7.20	17.0	6	47	1.0	1.63	8	0.5	1.22	46.0	0.60	6.0
97T-222	489734	6033070	3	2.30	310	4.10	14.0	3	29	0.5	0.89	5	0.5	0.90	28.0	0.30	4.0
97T-223	482129	6034706	2	2.40	410	5.00	11.0	3	31	0.5	1.07	8	0.5	1.35	43.0	0.30	4.6
97T-225	484355	6033976	1	5.00	620	0.25	0.5	8	61	2.0	2.00	11	5.0	2.17	53.0	0.50	8.2
97T-228	504672	6033921	1	2.90	430	4.10	15.0	4	42	0.5	1.35	13	0.5	1.29	34.0	0.20	5.3
97T-230	465126	6029280	3	1.90	360	5.30	16.0	4	32	0.5	1.28	7	0.5	1.22	41.0	0.30	4.8
97T-232	474714	6032147	1	2.40	380	4.20	14.0	4	36	0.5	1.20	9	0.5	1.16	29.0	0.20	4.5
97T-234	472653	6030759	3	1.40	450	7.10	14.0	4	34	0.5	1.15	8	0.5	1.27	38.0	0.30	4.3
97T-236	471481	6030684	1	1.60	410	4.90	13.0	3	36	0.5	1.10	10	1.0	1.25	27.0	0.30	4.7
97T-237	467781	6031932	1	3.80	380	3.80	15.0	5	37	0.5	1.27	6	0.5	1.15	48.0	0.40	5.0
97T-239	461733	6028498	1	5.30	360	4.70	14.0	5	36	0.5	1.35	7	0.5	1.24	40.0	0.70	5.2
97T-244	453747	6028681	1	3.60	370	3.90	12.0	5	37	0.5	1.30	8	0.5	1.29	41.0	0.40	4.9
97T-245	452251	6028338	1	2.90	430	4.20	14.0	3	28	0.5	1.02	7	0.5	1.23	32.0	0.40	4.1
97T-247	455132	6028325	1	3.40	460	4.90	14.0	4	39	0.5	1.34	7	2.0	1.35	36.0	0.30	5.4
97T-248	452495	6028976	1	4.00	360	3.90	14.0	6	46	1.0	1.72	7	5.0	1.34	45.0	0.40	6.0
97T-249	450994	6027808	7	3.90	360	4.60	17.0	6	55	1.0	1.86	16	1.0	1.16	55.0	0.40	6.6
97T-250	449886	6028510	1	2.80	340	4.90	16.0	6	40	1.0	1.48	7	0.5	1.31	54.0	0.40	5.5
97T-251	448682	6028724	1	2.50	470	3.90	15.0	5	37	0.5	1.29	6	0.5	1.25	47.0	0.40	5.2
97T-252	445395	6029398	4	2.80	410	4.40	17.0	5	41	0.5	1.32	7	0.5	1.27	51.0	0.40	5.2
97T-253	443963	6030330	3	3.00	320	4.80	16.0	5	33	1.0	1.39	7	2.0	1.32	39.0	0.40	5.3
97T-254	443423	6028525	1	2.30	380	4.10	16.0	6	37	0.5	1.44	7	8.0	1.30	49.0	0.40	5.4
97T-255	442843	6030013	1	2.30	390	4.70	14.0	5	41	1.0	1.45	7	3.0	1.30	30.0	0.40	5.5
97T-256	442448	6029172	1	5.60	430	4.50	15.0	5	41	0.5	1.47	7	0.5	1.28	54.0	0.50	5.4
97T-257	439225	6030492	3	2.70	400	4.30	15.0	5	36	1.0	1.34	7	0.5	1.31	48.0	0.50	5.2
97T-259	438456	6031752	1	4.20	440	4.60	16.0	6	40	0.5	1.47	11	0.5	1.39	41.0	0.30	5.5
97T-261	448532	6027763	1	3.40	450	4.50	17.0	7	50	1.0	1.94	6	0.5	1.28	84.0	0.30	6.7
97T-262	435111	6031848	4	3.10	300	5.20	17.0	5	36	0.5	1.38	7	5.0	1.31	34.0	0.20	5.3

Sample Site	UTM		Au	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Mo	Na	Rb	Sb	Sc
	EAST	NORTH	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
97T-263	436445	6031287	1	2.70	410	4.20	16.0	5	35	1.0	1.34	6	0.5	1.23	43.0	0.30	5.0
97T-264	435337	6030452	1	4.00	450	2.80	16.0	7	46	2.0	1.64	7	8.0	1.28	51.0	0.30	6.2
97T-265	440681	6030640	1	7.30	430	5.30	15.0	6	38	1.0	1.53	7	4.0	1.42	42.0	0.20	5.6
97T-266	447639	6028463	1	2.90	460	4.80	16.0	5	39	1.0	1.40	7	0.5	1.31	49.0	0.30	5.6
97T-267	449222	6028541	3	3.20	430	4.50	16.0	4	37	0.5	1.18	8	3.0	1.35	41.0	0.30	5.0
97T-268	457373	6028180	1	3.50	400	3.20	15.0	6	44	2.0	1.58	6	3.0	1.20	46.0	0.30	5.7
97T-271	465155	6030614	1	3.30	440	6.20	17.0	5	44	1.0	1.58	6	0.5	1.20	44.0	0.40	5.5
97T-272	467904	6033232	3	4.10	430	3.50	18.0	6	46	2.0	1.61	7	0.5	1.27	56.0	0.40	5.8
97T-273	466096	6029651	1	4.50	480	4.90	18.0	6	43	0.5	1.47	7	0.5	1.36	67.0	0.30	5.8
97T-274	468869	6031353	5	1.90	420	4.30	16.0	4	39	1.0	1.27	8	0.5	1.33	36.0	0.20	5.3
97T-275	441854	6030334	2	3.10	440	3.90	17.0	5	46	0.5	1.62	8	0.5	1.28	41.0	0.20	5.9
97T-277	455200	6033531	1	2.30	350	4.40	12.0	4	36	0.5	1.17	9	0.5	1.40	31.0	0.05	4.6
97T-278	456290	6033898	5	3.50	390	4.50	14.0	5	36	1.0	1.33	7	0.5	1.19	62.0	0.05	5.0
97T-279	455920	6035035	1	1.90	440	3.70	15.0	4	36	1.0	1.33	10	0.5	1.37	40.0	0.05	4.9
97T-280	456272	6032489	1	2.50	370	3.10	15.0	4	38	1.0	1.30	7	3.0	1.11	32.0	0.20	4.8
97T-281	458988	6036919	1	4.20	360	4.10	16.0	4	33	0.5	1.21	6	0.5	1.19	51.0	0.30	4.7
97T-282	459526	6035375	3	6.70	350	4.20	16.0	5	42	1.0	1.49	6	0.5	1.24	51.0	0.70	5.5
97T-283	457995	6036193	1	14.00	390	7.60	17.0	4	38	0.5	1.24	9	0.5	1.23	47.0	0.80	5.2
97T-284	457394	6031755	60	13.00	410	4.60	16.0	5	40	1.0	1.38	8	0.5	1.22	50.0	0.70	5.3
97T-285	454410	6030342	1	6.80	380	3.40	14.0	5	40	0.5	1.34	10	0.5	1.29	34.0	0.40	5.4

Sample Site	Ta ppm	Th ppm	U ppm	Zn ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm	Rare ppm
97T-1	1.20	6.1	0.250	408	27.0	41	21	3.3	1.1	0.25	2.0	0.330	96.0
97T-2	0.90	5.8	1.000	111	27.0	45	16	3.5	1.0	0.25	2.1	0.350	95.2
97T-6	0.25	22.0	3.300	25	54.0	93	43	4.8	1.7	0.25	2.6	0.410	199.8
97T-7	0.90	6.0	0.250	25	25.0	41	31	3.3	1.3	0.25	2.0	0.320	104.2
97T-9	1.00	8.4	1.300	25	32.0	53	18	3.7	1.2	0.25	2.1	0.380	110.6
97T-11	1.20	8.8	0.250	25	40.0	54	26	4.9	1.5	0.25	2.7	0.390	129.7
97T-12	0.25	5.8	1.400	53	24.0	44	18	3.1	1.0	0.25	1.8	0.260	92.4
97T-15	0.25	6.2	1.700	25	25.0	42	24	3.1	0.9	0.25	2.2	0.380	97.8
97T-17	0.50	5.8	1.000	25	24.0	39	16	3.1	1.1	0.25	1.9	0.270	85.6
97T-18	0.25	8.6	1.300	25	31.0	56	17	3.7	1.3	0.25	2.2	0.340	111.8
97T-19	0.25	7.6	1.500	25	33.0	55	28	4.5	1.2	0.70	2.5	0.460	125.4
97T-20	0.25	7.9	1.400	61	35.0	55	25	4.6	1.1	0.25	2.4	0.470	123.8
97T-22	0.25	6.3	2.000	25	27.0	44	18	3.6	1.0	0.70	1.9	0.390	96.6
97T-23	0.25	6.9	1.100	25	28.0	46	24	4.0	1.0	0.25	2.0	0.380	105.6
97T-25	0.25	7.6	1.900	25	31.0	55	26	4.4	1.2	0.25	2.5	0.490	120.8
97T-26	0.25	7.0	1.000	79	31.0	58	21	4.1	0.9	0.25	2.0	0.370	117.6
97T-28	1.70	15.0	2.900	70	54.0	92	38	7.0	1.9	0.25	3.5	0.590	197.2
97T-30	1.20	8.0	0.250	65	34.0	58	29	4.6	1.2	0.90	2.3	0.410	130.4
97T-37	0.25	9.1	2.100	25	36.0	56	29	4.7	1.2	0.25	2.3	0.400	129.9
97T-38	1.30	8.0	1.500	25	32.0	55	18	4.3	1.1	0.25	2.2	0.380	113.2
97T-39	0.25	6.4	0.250	25	25.0	44	20	3.4	0.8	0.70	1.7	0.270	95.9
97T-45	1.20	7.1	1.700	53	32.0	53	24	4.0	1.0	0.70	2.1	0.340	117.1
97T-52	0.90	5.3	1.400	25	23.0	34	15	3.1	0.8	0.25	1.8	0.300	78.3
97T-55	0.25	5.9	1.200	25	26.0	44	18	3.5	0.8	0.25	1.8	0.350	94.7
97T-57	0.25	5.2	1.100	25	22.0	38	14	3.2	0.8	0.25	1.8	0.340	80.4
97T-58	0.25	5.1	0.250	64	22.0	39	14	3.0	0.7	0.25	1.7	0.290	80.9
97T-59	0.25	5.7	1.900	25	25.0	40	18	3.5	0.9	0.60	1.9	0.350	90.3
97T-60	1.00	5.4	1.400	25	24.0	38	17	3.1	0.9	0.25	1.7	0.300	85.3
97T-61	0.25	5.3	0.250	25	25.0	43	19	3.6	0.8	0.25	1.9	0.320	93.9
97T-62	0.25	6.3	1.200	25	28.0	44	20	3.6	1.0	0.60	1.9	0.350	99.5
97T-65	0.90	6.2	1.600	71	29.0	46	24	3.8	1.0	0.25	2.1	0.350	106.5
97T-69	0.25	5.9	1.800	77	25.0	41	20	3.4	0.9	0.25	1.7	0.330	92.6
97T-71	0.25	6.1	0.250	76	28.0	48	24	3.8	1.0	0.60	2.0	0.380	107.8
97T-72	0.25	5.7	0.250	72	26.0	46	17	3.7	0.9	0.25	1.8	0.310	96.0
97T-74	0.80	4.7	0.250	51	23.0	38	19	3.3	0.9	0.50	1.8	0.280	86.8
97T-75	0.25	4.5	1.500	25	23.0	37	13	3.1	0.8	0.25	1.6	0.290	79.0
97T-76	1.20	4.6	1.100	25	23.0	37	18	3.2	0.8	0.25	1.9	0.300	84.5
97T-78	1.10	4.7	1.600	25	23.0	40	17	3.2	0.8	0.25	1.7	0.300	86.3
97T-79	0.25	5.1	1.400	89	26.0	44	20	3.5	0.9	0.25	1.7	0.310	96.7
97T-80	0.25	5.1	0.250	76	25.0	43	15	3.5	1.0	0.25	1.9	0.340	90.0
97T-82	0.80	5.7	1.200	25	27.0	43	21	3.7	0.9	0.60	1.9	0.350	98.5
97T-83	0.25	5.8	1.500	75	28.0	49	19	3.9	1.0	0.25	2.0	0.380	103.5
97T-85	0.25	5.3	1.300	52	26.0	42	18	3.6	1.0	0.25	2.0	0.340	93.2
97T-86	0.25	5.7	1.100	53	28.0	45	21	3.9	1.0	0.25	2.0	0.340	101.5
97T-87	0.25	5.3	1.100	25	26.0	44	20	3.5	1.0	0.25	1.8	0.330	96.9
97T-88	0.25	5.0	0.250	56	26.0	45	20	3.6	0.8	0.50	1.8	0.340	98.0
97T-89	0.25	5.5	1.000	25	27.0	45	20	3.7	1.0	0.60	1.9	0.340	99.5
97T-90	0.25	6.4	1.100	85	32.0	50	26	4.4	1.1	0.25	2.3	0.420	116.5
97T-91	0.70	5.1	1.200	59	24.0	41	16	3.3	0.8	0.25	1.8	0.320	87.5
97T-92	0.25	6.0	1.800	70	27.0	47	21	3.8	1.0	0.80	2.0	0.380	103.0
97T-93	0.25	5.0	0.700	25	25.0	42	23	3.5	0.9	0.25	1.6	0.320	96.6
97T-94	0.25	5.1	0.250	25	26.0	44	21	3.7	0.9	0.25	1.9	0.350	98.1
97T-95	0.25	5.2	1.300	57	23.0	41	18	3.3	0.8	0.25	1.8	0.320	88.5
97T-96	1.10	6.6	1.200	63	30.0	49	22	4.1	1.0	0.70	2.0	0.360	109.2
97T-97	1.00	4.8	0.250	25	22.0	37	15	3.0	0.8	0.25	1.4	0.290	79.7
97T-99	0.70	6.6	0.250	87	29.0	47	19	4.0	1.0	0.25	1.8	0.370	102.4
97T-100	0.25	5.2	1.400	25	22.0	38	16	3.0	0.8	0.25	1.7	0.290	82.0
97T-101	0.25	5.6	0.900	71	26.0	44	21	3.6	1.0	0.25	1.9	0.350	98.1
97T-104	0.25	6.1	1.200	91	30.0	49	23	4.1	1.1	0.25	2.0	0.370	109.8
97T-106	0.25	5.1	1.200	25	27.0	42	19	3.4	1.0	0.25	1.6	0.310	94.6
97T-109	1.70	8.4	1.900	84	38.0	58	26	4.6	1.3	0.25	2.5	0.440	131.1
97T-111	0.25	6.8	0.250	76	30.0	49	17	4.1	1.2	0.90	1.8	0.350	104.4

Sample Site	Ta ppm	Th ppm	U ppm	Zn ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm	Rare ppm
97T-115	1.20	6.9	1.400	58	30.0	53	28	4.0	1.1	0.25	2.1	0.400	118.9
97T-116	0.25	5.5	1.100	25	24.0	41	18	3.2	0.9	0.25	1.6	0.270	89.2
97T-135	0.25	7.2	2.000	25	31.0	53	28	4.1	1.3	1.10	2.3	0.380	121.2
97T-136	0.25	8.4	0.250	25	33.0	53	24	4.3	1.0	0.25	2.3	0.310	118.2
97T-138	0.90	8.7	1.600	25	34.0	52	30	4.5	1.1	0.25	2.2	0.390	124.4
97T-140	1.40	5.9	1.100	25	27.0	44	19	3.7	0.8	0.80	2.0	0.370	97.7
97T-141	1.60	7.0	1.500	25	31.0	51	20	4.2	1.0	0.80	2.4	0.410	110.8
97T-143	0.25	6.9	1.500	25	30.0	47	20	4.0	1.1	0.25	2.0	0.340	104.7
97T-144	0.25	8.8	1.900	25	32.0	52	23	4.1	1.0	0.25	1.9	0.370	114.6
97T-150	1.10	6.6	1.700	25	31.0	53	21	4.2	1.0	0.25	2.0	0.360	112.8
97T-151	0.25	6.6	1.500	25	30.0	53	27	4.1	1.0	0.60	2.1	0.360	118.2
97T-152	0.25	6.2	1.200	25	27.0	46	20	3.7	0.9	0.25	1.8	0.350	100.0
97T-153	0.25	6.1	1.100	67	27.0	47	17	3.7	1.0	0.25	1.8	0.310	98.1
97T-154	0.25	4.8	1.300	25	25.0	43	12	3.5	1.0	0.80	1.7	0.320	87.3
97T-163	0.25	7.7	1.200	25	35.0	58	29	4.8	1.1	0.25	2.1	0.350	130.6
97T-164	0.25	6.6	0.800	25	29.0	51	19	4.0	1.1	0.25	1.9	0.380	106.6
97T-165	0.25	7.7	0.250	25	34.0	54	28	4.6	1.3	0.25	2.2	0.420	124.8
97T-166	0.25	7.8	1.200	25	31.0	51	24	3.9	1.0	0.25	1.8	0.340	113.3
97T-171	0.25	5.1	1.200	25	23.0	43	15	3.1	0.8	0.25	1.7	0.260	87.1
97T-172	0.25	6.6	1.000	25	25.0	48	15	3.6	0.9	0.25	2.0	0.320	95.1
97T-184	0.25	6.2	0.250	61	27.0	49	19	3.6	0.9	0.25	1.8	0.025	101.6
97T-185	0.25	5.8	1.600	51	25.0	47	17	3.4	0.9	0.70	2.0	0.280	96.3
97T-186	0.25	6.3	1.200	25	29.0	56	22	4.0	1.1	0.80	2.0	0.350	115.3
97T-187	0.25	6.5	1.300	54	25.0	46	17	3.5	0.9	0.60	2.2	0.350	95.6
97T-189	0.25	7.4	1.500	25	32.0	60	22	4.3	1.1	0.60	2.5	0.380	122.9
97T-190	0.25	8.7	1.500	66	34.0	61	22	4.4	1.1	0.25	2.7	0.400	125.9
97T-191	0.25	5.9	1.100	25	24.0	45	17	3.5	1.0	0.50	2.0	0.350	93.4
97T-192	0.25	6.2	0.250	25	27.0	51	23	3.7	1.0	0.25	1.9	0.260	108.1
97T-195	0.25	7.4	1.200	25	29.0	54	20	4.0	1.0	0.25	2.3	0.330	110.9
97T-196	0.25	9.7	1.900	25	37.0	81	27	4.7	1.3	0.25	2.6	0.320	154.2
97T-197	0.25	6.9	0.900	25	30.0	56	21	4.1	1.1	0.25	2.3	0.340	115.1
97T-199	0.25	14.0	2.400	25	48.0	99	29	4.8	1.3	0.25	2.4	0.360	185.1
97T-200	0.80	6.2	1.000	25	25.0	49	18	3.5	0.9	0.25	2.2	0.330	99.2
97T-204	0.70	5.9	1.500	25	27.0	48	16	3.7	0.9	0.25	2.1	0.370	98.3
97T-205	0.25	6.4	1.100	25	27.0	52	22	3.7	1.0	0.25	2.0	0.240	108.2
97T-206	0.25	8.0	1.100	25	32.0	58	21	4.3	1.0	0.60	2.5	0.400	119.8
97T-212	0.25	6.3	1.000	25	26.0	51	17	3.6	1.0	0.25	2.3	0.320	101.5
97T-213	0.25	7.1	1.600	25	29.0	50	23	3.7	1.0	0.60	2.2	0.340	109.8
97T-215	0.25	6.0	1.400	25	25.0	46	20	3.4	0.9	0.25	2.0	0.280	97.8
97T-216	0.90	6.8	1.100	25	27.0	47	22	3.8	1.0	0.50	2.2	0.360	103.9
97T-217	1.30	14.0	1.700	25	54.0	98	37	6.5	1.7	0.25	2.4	0.430	200.3
97T-218	0.25	6.1	0.600	58	26.0	45	21	3.5	0.9	0.25	1.8	0.290	98.7
97T-219	1.20	5.6	1.100	25	24.0	44	18	3.2	0.8	0.25	1.9	0.290	92.4
97T-221	0.25	7.8	1.500	25	31.0	56	22	4.0	1.0	0.50	2.3	0.360	117.2
97T-222	0.25	4.1	0.700	25	18.0	36	12	2.5	0.7	0.25	1.4	0.025	70.9
97T-223	0.25	4.8	0.800	25	21.0	37	17	3.1	0.8	0.25	1.9	0.290	81.3
97T-225	1.20	8.5	1.200	25	38.0	73	25	5.0	1.4	0.25	2.7	0.430	145.8
97T-228	1.00	7.9	1.100	50	30.0	55	22	4.2	1.1	0.25	2.5	0.380	115.4
97T-230	1.10	4.7	1.400	53	22.0	43	15	3.1	0.8	0.25	1.8	0.240	86.2
97T-232	0.80	5.4	1.300	64	24.0	45	18	3.2	0.8	0.25	1.9	0.320	93.5
97T-234	0.25	5.1	0.900	25	21.0	43	16	3.1	0.9	0.25	1.8	0.250	86.3
97T-236	0.25	5.6	1.500	25	25.0	43	21	3.5	0.9	0.25	2.0	0.320	96.0
97T-237	0.25	5.7	0.700	61	24.0	43	18	3.3	0.9	0.25	1.9	0.290	91.6
97T-239	0.25	6.0	0.800	78	24.0	46	17	3.4	0.9	0.25	1.9	0.300	93.8
97T-244	1.10	5.6	1.600	25	22.0	39	17	3.0	0.9	0.25	1.8	0.270	84.2
97T-245	0.25	4.6	1.100	25	21.0	39	18	2.9	0.7	0.25	1.6	0.280	83.7
97T-247	0.25	5.7	1.400	52	24.0	44	18	3.4	0.9	0.25	2.0	0.300	92.9
97T-248	0.90	6.0	1.500	25	25.0	47	16	3.4	0.9	0.25	1.8	0.320	94.7
97T-249	1.10	14.0	2.200	25	51.0	91	31	6.6	1.5	1.20	3.7	0.590	186.6
97T-250	0.25	5.8	0.900	25	25.0	47	17	3.4	0.9	0.25	2.0	0.300	95.9
97T-251	0.25	5.7	0.800	71	24.0	44	17	3.4	0.9	0.25	1.9	0.290	91.7
97T-252	0.25	6.3	1.700	71	26.0	48	19	3.5	1.0	0.25	2.0	0.280	100.0
97T-253	0.80	6.4	1.700	79	25.0	48	20	3.5	0.9	0.25	2.0	0.320	100.0
97T-254	0.25	6.1	0.900	55	26.0	49	18	3.6	0.9	0.25	2.0	0.330	100.1
97T-255	0.80	6.1	1.100	62	26.0	46	18	3.5	1.0	0.25	1.9	0.280	96.9
97T-256	0.25	6.3	1.600	76	25.0	48	19	3.4	1.0	0.25	1.8	0.290	98.7
97T-257	0.25	6.2	1.500	25	24.0	47	18	3.4	0.8	0.25	2.0	0.290	95.7
97T-259	0.25	7.7	1.700	25	28.0	53	22	3.9	1.0	0.60	2.4	0.410	111.3
97T-261	0.25	8.4	1.800	105	30.0	58	20	4.1	1.0	0.60	2.3	0.320	116.3
97T-262	0.25	5.8	1.200	84	25.0	48	16	3.6	0.9	0.25	1.8	0.330	95.9

Sample Site	Ta ppm	Th ppm	U ppm	Zn ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm	Rare ppm
97T-263	0.25	5.7	0.800	56	24.0	45	16	3.3	0.9	0.25	1.5	0.290	91.2
97T-264	0.25	7.8	1.300	25	30.0	57	19	4.0	1.1	0.25	2.1	0.340	113.8
97T-265	0.25	6.0	1.200	25	26.0	51	19	3.7	1.0	0.25	2.0	0.300	103.3
97T-266	1.00	6.1	1.100	75	26.0	48	17	3.5	0.9	0.25	1.9	0.330	97.9
97T-267	0.25	5.3	1.000	55	23.0	44	17	3.4	0.9	0.25	2.0	0.310	90.9
97T-268	0.25	7.2	1.500	65	27.0	53	19	3.5	0.9	0.25	1.9	0.330	105.9
97T-271	0.25	6.6	1.300	25	26.0	47	17	3.5	0.9	0.50	1.9	0.300	97.1
97T-272	0.25	6.7	1.000	25	27.0	47	18	3.6	0.9	0.90	2.1	0.320	99.8
97T-273	0.25	6.6	1.700	25	27.0	51	19	3.8	1.0	0.25	2.0	0.330	104.4
97T-274	0.25	5.4	0.800	25	25.0	48	17	3.6	1.0	0.25	2.2	0.350	97.4
97T-275	0.25	7.7	1.100	54	29.0	55	21	4.0	1.0	0.25	2.5	0.350	113.1
97T-277	0.25	5.6	1.500	25	23.0	41	19	3.3	0.9	0.25	2.0	0.320	89.8
97T-278	0.25	6.4	0.800	53	25.0	48	21	3.5	0.9	0.50	1.7	0.320	100.9
97T-279	1.20	6.4	0.800	25	25.0	47	20	3.6	0.9	0.25	2.2	0.370	99.3
97T-280	0.25	6.3	1.100	25	24.0	43	18	3.2	0.9	0.60	1.8	0.280	91.8
97T-281	1.10	5.2	1.100	25	22.0	41	18	3.3	0.9	0.25	1.9	0.280	87.6
97T-282	0.90	6.6	1.000	67	26.0	49	17	3.6	1.0	0.25	2.2	0.320	99.4
97T-283	0.25	6.2	1.100	25	26.0	45	16	3.6	0.9	0.25	1.9	0.310	94.0
97T-284	0.25	6.4	1.200	25	27.0	51	20	3.8	0.9	0.25	1.9	0.320	105.2
97T-285	0.60	6.2	1.600	51	25.0	45	20	3.6	0.9	0.25	1.9	0.320	97.0

Appendix 4

Till Geochemistry: Instrumental Neutron Activation Analyses (INAA) Percentile Bubble Plots (<63 micron fraction).

