



# **GEOLOGICAL SURVEY OF CANADA**

## **OPEN FILE 3221**

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### **RECONNAISSANCE BIOGEOCHEMICAL SURVEY CENTRAL NOVA SCOTIA (Parts of NTS 11D,E, and 21A,H) PART 1 - BALSAM FIR TWIGS**

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**C.E. Dunn, R.G. Balma, W.A. Spirito**

**1996**

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**CENTRAL NOVA SCOTIA**  
**(Parts of NTS 11D,E, and 21A,H)**  
**PART 1 - BALSAM FIR TWIGS**

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COOPERATION	<b>COOPERATION AGREEMENT ON MINERAL DEVELOPMENT</b>	<b>ENTENTE DE COOPÉRATION SUR L'EXPLOITATION MINÉRALE</b>
	Contribution to Canada-Nova Scotia Cooperation Agreement on Mineral Development (1992 -1995) a subsidiary agreement under the Economic and Regional Development Agreement.	
	Contribution à l'Entente de coopération Canada - Nouvelle-Écosse sur l'exploitation minérale (1992 -1995), entente auxiliaire négociée en vertu de l'Entente Canada/Nouvelle-Écosse de développement économique et régional.	
		

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1996

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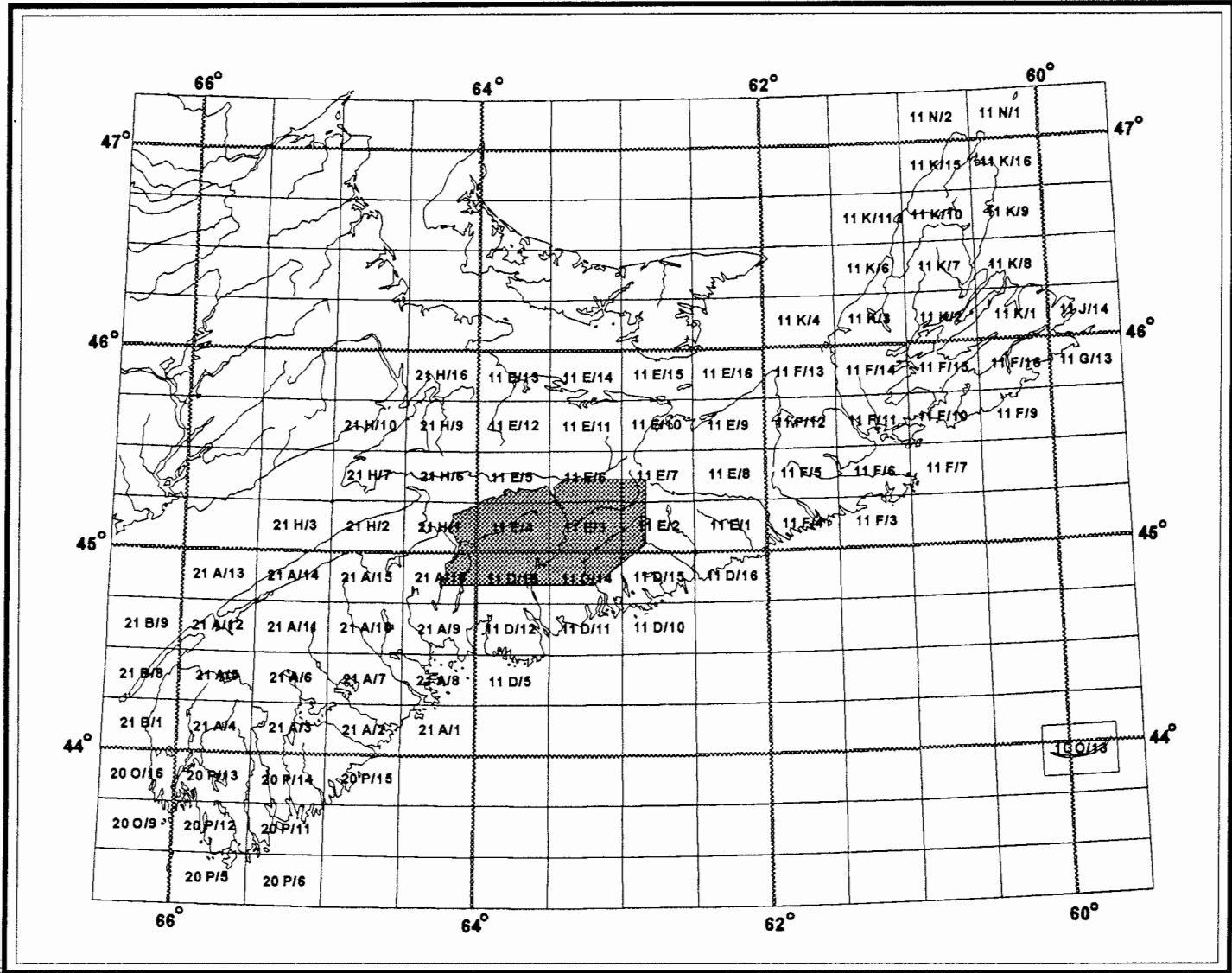


Fig. 1: Survey area with respect to National Topographic System (NTS) map sheets

**RECONNAISSANCE BIOGEOCHEMICAL SURVEY  
CENTRAL NOVA SCOTIA  
PART 1 - BALSAM FIR TWIGS**

*C.E. Dunn, R.G. Balma, and W.A. Spirito*

## **INTRODUCTION**

This Open File contains data from a reconnaissance biogeochemical survey in central Nova Scotia (Fig. 1), conducted in May and June, 1994, by the Geological Survey of Canada under the Canada - Nova Scotia Cooperation Agreement on Mineral Development (1993 - 1996). This is the first of two Open Files of biogeochemical data from central Nova Scotia. The second will present data from the analysis of spruce bark.

Field observations, data listings, statistical summaries, a geology and sample location map, and element distribution maps are presented. The maps show element concentrations in the ash of twigs from balsam fir (*Abies balsamea*). Instrumental neutron activation analysis (INAA) was used for determining 36 elements, of which 28 were in sufficient concentration to be detected and quantified. In addition data are included for 14 elements determined by inductively-coupled plasma emission spectrometry (ICP-ES). All data reported are concentrations in ash remaining after controlled ignition at 470°C. For balsam fir and other coniferous trees, the ashing process concentrates the elements with little or no loss of elements except for a few of high volatility (e.g. Br and Hg).

The value to exploration of reconnaissance geochemical surveys that involve the collection of lake or stream sediments and waters has been extensively tried, tested and documented. In 1987 and 1993 reconnaissance biogeochemical reconnaissance surveys of similar magnitude to that reported here, also using balsam fir twigs, were conducted in other parts of Nova Scotia. Results were published as Open File reports (Dunn *et al.*, 1989; Dunn *et al.*, 1994a, 1994b), and interpretative accounts are given in Dunn (1988, 1990), Rogers and Dunn (1989), Dunn *et al.* (1991), and Rogers and Dunn (1993).

Unlike other geochemical sample media, plants *require* certain elements for their existence. Zinc, for example, is needed for plant metabolism. Therefore, subtle differences in Zn concentrations between sample sites are more likely to reflect the health of the plant than significant differences in the chemistry of the substrate. However, major differences in Zn concentrations may reflect the presence of Zn mineralization.

The Zn example illustrates that biogeochemical data should be interpreted with caution and the text notes provided for each element should be considered when evaluating results. Biogeochemistry is a complex science involving the interaction of organic and inorganic processes that are controlled by many physicochemical parameters. However, despite these complexities, careful and systematic collection and preparation of vegetation samples can provide cost-effective new insight, not readily obtainable by other means, to the chemistry of the substrate and its groundwater.

The data listed in Appendix A are available in digital form from:

GSC Bookstore  
Geological Survey of Canada  
601 Booth St.  
Ottawa  
Ontario, K1A 0E8 Tel: (613) 995-4342 Fax: (613) 943-0646

The data will be supplied on an MS-DOS (IBM-PC) 3.5" 1.44 Mb diskette, which can be read by any DBASE-compatible software, and as an ASCII comma delimited file.

## CREDITS

**Survey design, direction, and sampling methodology:** C.E. Dunn, in collaboration with G.E.M. Hall who planned and implemented a simultaneous hydrogeochemical survey.

**Field party leader:** R.G. Balma.

**Sub-party leaders:** P. James and K. Slough, assisted by T. Hearty, L. Young, W. Spirito, and P. Pelchat.

**Sample Preparation:** undertaken and supervised by T. Hearty, with the assistance of L. Young and K. Slough.

**Data Management:** R.G. Balma and W.A. Spirito.

**Digital Cartography:** R.G. Balma

**Computer Programming:** S.W. Adcock developed a program for the data and statistical listings presented in Appendices A and B.

**Instrumental Neutron Activation Analysis:** by contract to Activation Laboratories Ltd., Ancaster, Ontario.

**Inductively-Coupled Plasma Emission Spectrometry:** by contract to Acme Analytical Laboratories Ltd., Vancouver, B.C.

## SURVEY DESCRIPTION AND METHODOLOGY

### Scope of Survey

During a four week period, commencing mid-May, 1994, vegetation samples were collected from approximately 925 sites within a 5600 km<sup>2</sup> area of central Nova Scotia (Fig. 1). This report presents data from the 786 sites at which balsam fir twig samples were collected. Samples were collected on as even a grid as was practically possible, attaining an average sample density of approximately 1 site per 7 km<sup>2</sup>. Agricultural and cultural developments in the northern part of the survey area precluded sample collection at some locations. In general, samples were collected at 2 km intervals along driveable roads and tracks, with some helicopter support for accessing remote areas. Three trucks were used, each with a crew of two. At each sample location vegetation samples were selected from a site at least 50 m from a highway, or 10 m from a little-used track.

## Sample Locations

Samples were located in the field from 1:50,000 NTS (National Topographic System) maps, supplemented by 1:10,000 LRIS (Land Registration Information Service) maps. The 1:10,000 maps use the Nova Scotia modified transverse Mercator (MTM) projection, in conjunction with the ATS77 datum (Kouba, 1978; LRIS, no date). The ATS77 datum is a precursor and very similar to the North American Datum 1983 (NAD83). The NTS 1:50,000 maps use the NAD27 datum and the usual UTM (Universal Transverse Mercator) projection. The UTM Eastings and Northings presented in the data listings are all in UTM Zone 20.

## Sample Collection

An orientation survey of the area conducted in July, 1993, showed that the most common species are balsam fir (*Abies balsamea*), red spruce (*Picea rubens*), and black spruce (*Picea mariana*). Chemical analysis of twigs from these species and the outer bark of the spruce indicated that each was sensitive to a particular range of elements, but that outer bark from the red and black spruce had generally higher concentrations of trace metals than the other tissues that were collected. At most sample stations outer bark of red or black spruce, and twigs of balsam fir were collected. Data from analysis of the spruce bark will be compiled for a second Open File release.

At each sample location 200 - 250 g of fresh twigs and needles were snipped from balsam fir using standard anvil-type, Teflon-coated, garden pruning snips. Twig samples were placed in heavy-duty brown paper hardware bags (approximately 25 x 35 cm) and secured with masking tape. There are seasonal variations in the chemistry of twigs, therefore the survey was completed as quickly as possible (less than four weeks).

Usually 5 - 7 twigs, each comprising 5 - 7 years of growth, provided the required amount of material. Within the survey area this amount of growth was commonly 35 - 40 cm length of twig. The range of age in twigs from each site is given in the data listings (Appendix A). Where growth was more spindly (e.g. dense forest) and annual growth increments were shorter, up to 10 years of growth was collected. Although there is annual variation in the metal uptake and storage of many chemical elements (some accumulating near the twig ends), the over-riding factor for consideration in a biogeochemical sampling programme is the *diameter* of the twig. It is important to maintain a consistent ratio of twig bark to twig wood, because many of the heavy metals are located in the bark, and not in the woody tissue of the twig. If this ratio changes substantially, then variations in element content may be attributable to mixing thick with thin twigs, providing false anomalies. For the balsam fir survey the twig diameter at most locations was approximately 5 mm where twig growth was 5 - 7 years old.

## Sample Preparation and Analysis

After the samples were air-dried for several weeks in a greenhouse, the needles were separated from the twigs. Balsam fir needles have a different chemical composition from the twigs (lower levels

of most heavy and base metals in the needles). The ratio of needle to twig may vary among sample locations, so if twigs are not separated from needles some false biogeochemical anomalies may be generated which are simply a function of different twig to needle ratios.

Approximately 50 g of dry twigs were weighed into aluminum trays. The trays were placed in a pottery kiln, and the temperature slowly raised (over 2 - 3 hours) to 470°C. After a further 12 hours no charcoal remained, and the twigs were reduced to approximately 1 g of ash. Half was accurately weighed and compacted into small polyethylene vials, suitable for instrumental neutron activation analysis (INAA), and submitted for the determination of 36 elements. Maps are provided for 28 of these elements. Of the remaining 8 elements concentrations were all, or mostly, below the determination levels (in parentheses) for Ag (2 ppm), Hg (1 ppm), Ir (2 ppb), Sn (50 ppm), Ta (0.5 ppm), and Tb (0.5 ppm); reproducibility of data for Mo and Ni by INAA was poor at the low levels present (mostly <2 ppm Mo and <50 ppm Ni), therefore maps of Mo and Ni determinations by INAA are not presented. Instead there are maps of Mo and Ni determined by ICP-ES, because this is the preferred method for these elements at the concentrations present in the samples. Appropriate standards and duplicates were inserted to ensure quality control. The precision obtained varied between elements and with element concentration. Of the elements reported here, most samples contained levels substantially higher than detection limits, thereby providing analytical precision of better than +/- 10 percent.

The remaining half of the ash sample (0.5 g) was submitted for multi-element ICP-ES analysis, following an aqua regia digestion. For most elements this extraction is near 'total', although for some (e.g. Al, B) it is only partial. However, the analytical precision was good for most elements, such that the relative element distribution patterns are meaningful even if the absolute concentrations are only partial.

**Analytical Quality Control**

Included within each block of 20 samples prepared for analysis there was one standard ash sample (V6c), and one duplicate ash sample. These provided controls on accuracy and precision, respectively. Data on mean values and standard deviations obtained for each element in the standard ash sample are given in Tables 1 and 2. Tables 3 and 4 contain the raw data from which these determinations were made. Tables 5 and 6 list the analytical data obtained on the duplicate pairs. In Tables 3-6 the first row of data shows the determination limits. With few exceptions the reproducibility of analytical data is excellent for most elements, attesting to the skills of the analysts and the good sample homogeneity. In house repeat ICP-ES analyses by Acme Laboratories indicated extremely good and consistent precision, suggesting that samples with some variation between analytical pairs probably have some heterogeneity.

Table 1: Mean And Standard Deviation For Standard V6c Analyzed By INAA  
(n=49)

Element			Mean	Standard Deviation
Arsenic	As	ppm	7.9	0.7
Gold	Au	ppb	16	3
Barium	Ba	ppm	423	25
Bromine	Br	ppm	12	2
Calcium	Ca	%	16.4	1.2
Cobalt	Co	ppm	9	1
Chromium	Cr	ppm	70	3
Cesium	Cs	ppm	1.3	0.5
Iron	Fe	%	1.85	0.10
Hafnium	Hf	ppm	5.4	0.3
Potassium	K	%	3.83	0.80
Rubidium	Rb	ppm	47	6
Sodium	Na	ppm	11555	540
Antimony	Sb	ppm	1.2	0.1
Scandium	Sc	ppm	4.6	0.2
Selenium	Se	ppm	1	0.4
Strontium	Sr	ppm	964	189
Thorium	Th	ppm	3.2	0.3
Uranium	U	ppm	1.4	0.3
Tungsten	W	ppm	*	*
Zinc	Zn	ppm	795	44

Rare Earth Elements			Mean	Standard Deviation
Lanthanum	La	ppm	21.6	1.1
Cerium	Ce	ppm	43	3
Neodymium	Nd	ppm	23	2
Samarium	Sm	ppm	3.2	0.2
Europium	Eu	ppm	0.87	0.07
Ytterbium	Yb	ppm	1.80	0.15
Lutetium	Lu	ppm	0.31	0.02

\* all below determination limit of 1 ppm

Table 2: Mean and Standard Deviation for Standard V6c Analyzed by ICP-ES  
(n=50)

Element			Mean	Standard Deviation
Silver	Ag	ppm	0.3	0.2
Aluminum	Al	%	1.22	0.07
Boron	B	ppm	180	19
Beryllium	Be	ppm	0.2	0.1
Cadmium	Cd	ppm	3.2	0.4
Copper	Cu	ppm	132	19
Lithium	Li	ppm	8	3
Magnesium	Mg	%	3.33	0.25
Manganese	Mn	ppm	773	90
Molybdenum	Mo	ppm	6	2
Nickel	Ni	ppm	80	7
Phosphorus	P	%	0.669	0.043
Lead	Pb	ppm	182	27
Strontium	Sr	ppm	576	29
Vanadium	V	ppm	30	2

Table 3: Standard V6c - Concentrations in Ash Determined by INAA

Au ppb 5*	As ppm	Ba ppm	Br ppm	Ca %	Ce ppm	Co ppm	Cr ppm	Cs ppm	Eu ppm	Fe %	Hf ppm	K %	La ppm	Lu ppm	Na ppm	Nd ppm	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sm ppm	Sr ppm	Th ppm	U ppm	W ppm	Yb ppm	Zn ppm
	0.5	10.0	1	0.2	3	1	1	0.5	0.01	0.05	0.5	0.05	0.1	0.05	10	5	5	0.1	0.1	2	0.1	300	0.1	0.1	1	0.05	20
18	7.2	430	11	14.8	38	9	67	1.9	0.82	1.75	5.0	3.71	21.0	0.27	10900	20	45	1.2	4.3	<2	3.3	1000	3.0	1.1	<1	1.61	780
15	7.4	410	13	16.5	39	9	66	2.1	0.82	1.75	5.3	3.14	22.0	0.31	11000	22	43	1.2	4.3	<2	3.2	1400	3.0	1.4	<1	1.71	780
14	7.7	440	10	16.8	40	10	68	2.2	0.85	1.76	5.5	3.25	20.0	0.34	11900	22	48	1.2	4.4	<2	3.0	1000	3.1	1.4	<1	1.81	780
18	7.3	410	10	14.7	40	9	67	1.8	0.69	1.81	4.6	3.55	20.0	0.29	10800	23	44	1.1	4.4	<2	3.4	830	2.6	<0.1	<1	1.48	720
16	5.8	380	9	15.3	43	9	72	1.8	0.74	1.89	5.0	3.51	21.0	0.29	10700	27	46	1.2	4.5	<2	3.6	830	2.6	0.9	<1	1.61	730
14	7.5	440	10	15.0	47	9	71	1.7	0.88	1.82	5.3	4.29	21.0	0.31	11400	21	39	1.2	4.6	<2	3.1	1200	3.2	1.5	<1	1.76	800
14	7.1	410	10	16.5	42	9	67	2.4	0.84	1.74	5.2	3.96	20.0	0.29	11800	24	50	1.1	4.4	<2	2.9	930	2.9	1.3	<1	1.61	740
21	8.0	390	9	17.3	40	8	69	2.0	0.78	1.65	5.0	3.38	20.0	0.30	10900	20	45	1.3	4.3	<2	3.0	890	3.1	1.4	<1	1.79	790
17	7.6	380	11	15.7	39	7	68	2.2	0.77	1.65	5.1	3.53	20.0	0.27	10700	23	51	1.0	4.1	<2	2.9	590	3.0	1.9	<1	1.69	730
15	7.8	420	15	15.9	41	9	70	1.2	0.77	1.96	5.8	3.87	21.0	0.35	11500	24	39	1.1	4.7	3	3.0	700	3.1	1.2	<1	1.78	800
18	7.3	390	13	15.2	43	9	75	1.3	0.91	1.95	5.3	3.70	21.0	0.32	11100	23	48	1.2	4.6	<2	3.2	930	3.4	1.1	<1	1.88	760
14	7.1	400	12	14.2	42	9	80	1.5	0.87	1.90	5.3	3.99	21.0	0.29	10700	21	49	1.0	4.5	<2	2.9	970	2.8	1.2	<1	1.80	750
12	7.5	410	12	14.4	44	8	69	1.1	0.84	1.75	4.6	3.74	21.0	0.29	11200	23	39	1.2	4.4	<2	3.2	1100	2.8	1.2	<1	1.64	760
14	7.6	430	12	14.8	47	10	70	<0.5	0.90	2.03	5.7	4.04	22.0	0.31	11600	20	50	1.1	4.7	3	3.3	980	3.7	1.3	<1	1.89	840
16	7.5	430	10	15.3	41	9	65	1.3	0.90	1.99	5.6	4.30	21.0	0.33	10900	22	45	1.0	4.5	<2	2.9	1000	2.9	1.2	<1	1.59	780
14	7.7	450	13	15.5	44	10	70	1.2	0.91	1.83	5.5	3.66	22.0	0.33	12000	25	64	1.1	4.8	<2	3.3	1000	3.0	1.5	<1	1.84	850
10	8.1	450	13	14.6	46	9	69	1.1	0.94	1.74	5.4	3.78	21.0	0.33	11500	22	66	1.2	4.8	<2	3.2	1100	3.1	1.7	<1	1.90	870
14	7.6	440	13	15.3	43	9	69	1.1	0.86	1.83	5.4	3.61	21.0	0.34	12600	24	45	1.2	4.9	<2	3.1	970	3.5	1.7	<1	1.65	770
13	7.6	460	12	16.3	46	10	71	1.3	0.86	1.88	5.7	4.10	22.0	0.33	12600	24	41	1.2	4.9	<2	3.2	950	3.3	1.7	<1	1.83	820
21	7.8	360	12	14.5	39	9	65	0.9	0.73	1.74	5.2	3.09	19.0	0.29	11800	21	38	1.1	4.4	2	2.9	1000	2.9	1.0	<1	1.65	700
18	7.2	480	12	16.8	42	9	66	1.3	0.83	1.78	6.0	3.98	21.0	0.35	12100	22	40	1.2	4.7	<2	3.1	1100	3.3	1.6	<1	1.76	780
14	8.2	430	13	16.7	45	9	69	0.8	0.87	1.92	5.8	3.43	21.0	0.31	11500	26	40	1.3	4.8	<2	3.2	970	3.2	1.6	<1	1.85	860
16	7.9	450	13	18.1	47	8	75	0.9	0.93	1.92	5.7	3.67	22.0	0.28	12000	24	52	1.3	4.7	<2	3.3	910	3.3	1.4	<1	1.89	800
17	7.6	420	13	17.4	48	9	75	1.1	0.89	1.90	5.5	3.75	21.0	0.34	12500	25	47	1.2	4.7	<2	3.4	940	3.2	2.0	<1	2.11	840
17	10.0	430	12	18.9	48	9	67	0.7	0.92	1.95	5.6	5.59	21.0	0.36	12500	24	44	1.3	4.8	<2	3.4	930	3.4	1.7	<1	2.31	880

\* first row of data shows determination limits



Table 3 (cont'd): Standard V6c - Concentrations in Ash Determined by INAA

Au ppb 5*	As ppm 0.5 10.0	Ba ppm	Br ppm	Ca %	Ce ppm	Co ppm	Cr ppm	Cs ppm	Eu ppm	Fe %	Hf ppm	K %	La ppm	Lu ppm	Na ppm	Nd ppm	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sm ppm	Sr ppm	Th ppm	U ppm	W ppm	Yb ppm	Zn ppm
			1	0.2	3	1	1	0.5	0.01	0.05	0.5	0.05	0.1	0.05	10	5	5	0.1	0.1	2	0.1	300	0.1	0.1	1	0.05	20
12	8.5	470	12	18.0	43	9	72	0.8	0.88	1.96	5.8	3.20	23.0	0.33	12400	21	54	1.3	4.7	<2	3.5	1100	3.4	1.6	<1	1.84	820
17	8.2	430	13	14.6	42	8	70	1.4	0.90	1.90	5.6	4.27	23.0	0.33	12000	20	47	1.2	4.7	<2	3.5	990	3.0	1.3	<1	1.78	830
15	8.7	410	16	17.0	44	9	73	1.1	0.83	1.85	5.3	4.82	23.0	0.31	11900	24	64	1.2	4.6	<2	3.4	880	3.6	1.4	<1	2.05	830
16	7.4	410	14	15.3	47	10	69	1.1	0.95	1.71	5.5	4.81	21.0	0.31	10500	26	49	1.1	4.7	<2	3.8	950	3.0	1.2	<1	1.82	770
17	7.6	430	12	17.5	44	10	72	1.1	0.91	1.86	5.6	3.78	22.0	0.32	11900	26	46	1.2	4.8	<2	3.4	1300	3.4	1.4	<1	1.81	840
17	8.0	390	13	16.0	41	9	66	0.8	0.88	1.83	5.2	3.33	21.0	0.31	11300	21	46	1.2	4.7	<2	3.0	1200	2.9	1.3	<1	1.72	770
17	6.6	420	12	16.3	42	9	68	1.3	0.91	1.84	5.4	3.93	21.0	0.31	11700	22	49	1.2	4.7	<2	3.1	930	3.0	1.6	<1	1.89	780
17	8.7	440	12	17.3	44	10	72	0.9	0.87	1.86	5.5	3.51	22.0	0.32	11700	24	48	1.3	4.8	<2	3.2	630	3.3	1.2	<1	1.99	850
16	9.2	430	11	17.2	46	10	71	0.7	0.98	2.03	5.6	5.53	22.0	0.34	11800	21	43	1.4	4.8	<2	3.3	910	3.2	1.9	<1	1.91	810
15	8.8	440	13	17.1	48	10	71	1.1	0.91	1.88	6.0	4.14	24.0	0.33	11700	26	45	1.2	4.9	<2	3.4	1100	3.7	1.5	<1	1.81	820
14	8.3	430	12	17.4	45	9	71	1.3	0.81	1.78	5.5	4.33	22.0	0.27	11300	22	45	1.2	4.4	<2	3.2	1100	3.3	1.3	<1	1.69	760
15	8.5	380	11	17.2	45	8	70	0.8	0.84	1.81	5.6	4.09	22.0	0.30	11400	25	51	1.2	4.5	<2	3.2	920	3.2	1.4	<1	1.88	740
17	8.5	420	12	17.1	44	8	73	0.9	0.86	1.78	5.6	3.60	21.0	0.32	11400	23	46	1.2	4.5	<2	3.2	900	3.1	1.4	<1	1.72	730
17	8.6	430	10	17.7	45	8	73	2.4	0.83	1.78	5.8	3.08	22.0	0.31	11600	26	47	1.2	4.4	<2	3.2	390	3.3	1.7	<1	1.83	790
13	7.3	410	13	17.4	41	8	73	0.9	0.75	1.74	5.1	4.25	21.0	0.25	11200	26	52	1.1	4.5	<2	3.1	960	3.1	1.3	<1	1.77	790
19	8.6	420	13	18.0	44	9	69	1.1	0.91	1.81	5.2	3.51	22.0	0.31	11200	23	54	1.2	4.4	<2	3.2	790	3.3	1.4	<1	1.99	770
32	7.5	380	13	17.3	43	8	72	0.9	0.80	1.71	5.5	3.41	21.0	0.32	11000	24	37	1.1	4.4	<2	3.2	410	3.0	1.2	<1	1.75	730
19	8.6	410	12	17.5	46	8	72	1.3	0.88	1.79	5.5	<0.38	23.0	0.27	11500	26	55	1.2	4.5	<2	3.4	960	3.4	1.3	<1	1.75	810
17	7.8	450	15	17.1	46	11	75	1.1	0.94	1.93	5.2	3.68	24.0	0.35	11200	25	45	1.3	5.1	<2	3.3	1200	3.2	1.4	<1	1.82	850
16	7.9	430	14	16.0	46	10	71	0.9	0.81	1.88	5.0	3.19	22.0	0.31	11400	21	47	1.4	4.8	<2	3.1	970	3.3	1.5	<1	1.77	850
16	8.2	440	15	16.3	46	9	73	1.2	0.91	1.91	5.2	4.99	22.0	0.33	11800	25	47	1.3	4.9	<2	3.3	1100	3.9	1.6	<1	1.82	780
18	7.6	440	13	16.7	48	9	71	1.1	0.88	1.84	5.0	3.79	23.0	0.32	11700	25	46	1.3	4.7	<2	3.3	1100	3.5	1.5	<1	1.76	830
13	8.0	460	12	17.7	46	10	73	1.3	1.09	2.08	5.5	4.28	24.0	0.33	12500	23	45	1.2	5.1	<2	3.5	1100	3.7	1.4	<1	2.07	830
17	7.5	440	13	17.0	47	10	72	0.8	0.97	1.94	5.6	5.40	22.0	0.32	11900	27	46	1.3	4.9	<2	3.2	1100	3.3	1.7	<1	1.70	840

\* first row of data shows determination limits

Table 4: Standard V6c - Concentrations in Ash Determined by ICP-ES

Ag ppm 0.1*	Al ppm 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
0.7	1.22	188	<0.2	2.7	124	8	3.33	755	9	81	0.672	173	610	30
<0.1	1.15	168	<0.2	2.9	111	14	3.07	720	6	76	0.635	170	576	28
0.2	1.27	177	0.3	2.9	131	6	3.44	780	9	80	0.678	167	613	32
0.1	1.24	176	<0.2	2.9	117	6	3.28	744	6	82	0.661	165	605	30
0.6	1.22	171	<0.2	3.2	125	9	3.31	644	8	81	0.660	170	594	31
0.3	1.31	168	<0.2	3.3	124	16	3.38	792	5	78	0.701	160	607	31
<0.1	1.26	161	<0.2	3.1	116	12	3.34	778	3	80	0.687	170	595	31
0.5	1.22	146	<0.2	3.0	179	6	2.98	749	6	72	0.642	162	597	30
0.3	1.29	146	<0.2	2.8	121	5	3.03	757	9	74	0.649	170	596	30
0.3	1.20	159	<0.2	2.7	115	<2	3.16	717	4	74	0.635	151	568	30
0.2	1.28	168	<0.2	3.0	117	11	3.35	748	10	78	0.662	165	591	31
0.5	1.28	167	<0.2	2.9	118	<2	3.24	748	6	75	0.654	156	597	29
0.5	1.18	166	<0.2	2.9	119	<2	3.04	707	7	74	0.626	143	564	29
0.4	1.21	168	<0.2	2.8	119	5	3.16	731	8	91	0.648	164	580	29
1.0	1.28	169	<0.2	3.5	134	15	3.30	757	8	80	0.684	176	596	32
0.2	1.29	179	<0.2	3.0	133	6	3.37	835	5	82	0.696	161	617	31
0.1	1.27	171	<0.2	3.3	132	10	3.38	787	2	82	0.695	178	616	32
0.4	1.22	174	<0.2	2.6	122	12	3.30	689	7	79	0.646	167	586	28
0.6	1.23	175	<0.2	3.0	120	17	3.22	725	9	105	0.643	169	580	28
0.4	1.20	154	<0.2	2.4	112	<2	3.00	687	9	75	0.597	164	566	28
0.3	1.21	138	<0.2	2.9	125	6	2.99	762	5	73	0.629	161	577	30
<0.1	1.15	187	<0.2	3.4	119	8	3.25	686	6	76	0.637	250	571	29
0.7	1.18	186	0.2	3.2	131	7	3.42	749	6	87	0.662	240	588	30
0.5	1.08	162	<0.2	3.5	104	6	3.07	675	5	73	0.611	233	527	28
0.4	1.13	167	0.2	3.3	116	8	2.97	659	5	68	0.612	229	532	28

\* first row of data shows determination limits

Table 4 (cont'd): Standard V6c - Concentrations in Ash Determined by ICP-ES

Ag ppm 0.1*	Al ppm 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
0.1	1.08	176	<0.2	3.1	107	9	3.12	698	5	77	0.617	228	549	28
0.1	1.16	177	<0.2	3.3	131	9	3.22	707	6	79	0.645	239	562	29
0.4	1.08	170	<0.2	3.4	106	8	2.80	621	5	67	0.596	226	508	27
<0.1	1.07	169	<0.2	3.1	115	8	3.03	669	6	74	0.607	230	552	27
0.3	1.07	167	<0.2	3.4	116	8	2.95	650	6	71	0.598	229	527	28
<0.3	1.30	196	0.4	3.1	140	7	3.69	814	3	86	0.709	174	555	30
0.4	1.14	200	0.3	3.4	142	7	3.40	852	6	83	0.672	166	533	29
<0.3	1.18	204	0.3	3.7	173	6	3.53	1099	4	83	0.716	172	558	29
0.4	1.16	208	0.3	4.0	169	7	3.71	1023	5	87	0.722	189	590	32
0.5	1.18	218	0.2	4.8	153	7	3.79	906	8	91	0.787	197	600	33
0.5	1.25	206	0.4	3.5	140	9	3.53	833	9	79	0.706	167	561	30
<0.3	1.28	200	0.2	3.0	136	8	3.60	784	6	86	0.682	154	646	32
<0.3	1.22	192	0.2	3.1	145	5	3.39	802	5	79	0.681	157	541	30
<0.3	1.26	212	0.5	3.4	157	7	3.60	920	5	82	0.727	174	551	30
<0.3	1.18	188	0.3	3.4	137	6	3.35	820	5	78	0.663	180	516	27
0.4	1.29	194	0.4	3.3	183	6	3.68	783	5	84	0.727	191	580	31
<0.3	1.20	184	0.3	3.4	160	6	3.37	752	5	76	0.680	169	548	30
0.3	1.36	205	0.4	3.6	149	8	3.85	845	8	89	0.749	204	591	32
<0.3	1.22	194	0.4	2.8	158	8	3.54	886	7	89	0.707	180	573	30
<0.3	1.29	201	0.3	3.3	139	7	3.56	784	6	84	0.723	183	611	31
0.3	1.26	196	0.2	3.4	142	6	3.58	757	7	84	0.712	189	576	31
<0.3	1.21	211	0.4	3.9	130	7	3.42	817	7	83	0.689	162	553	30
<0.3	1.21	179	0.3	3.1	116	5	3.21	850	7	82	0.634	164	591	32
<0.3	1.30	185	0.3	3.4	131	6	3.29	792	7	86	0.660	169	597	34
<0.3	1.31	209	0.4	3.9	157	6	3.73	817	3	86	0.736	172	583	32

\* first row of data shows determination limits

Table 5: Laboratory Duplicates - Concentrations in Ash Determined by INAA

Vial Number	Au ppb 5*	As ppm	Ba ppm	Br ppm	Ca %	Ce ppm	Co ppm	Cr ppm	Cs ppm	Eu ppm	Fe %	Hf ppm	K %	La ppm	Lu ppm	Na ppm	Nd ppm	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sm ppm	Sr ppm	Th ppm	U ppm	W ppm	Yb ppm	Zn ppm
AL94/1402	<5	1.7	1600	84	14.2	3	6	2	0.8	0.14	0.15	0.8	22.20	3.1	<0.05	1010	<5	180	0.3	0.4	<2	0.3	830	0.3	<0.1	<1	0.17	1500
AL94/1403	6	1.3	1900	84	17.3	3	7	2	<0.5	<0.02	0.17	0.6	25.90	3.3	<0.05	1110	<5	230	0.3	0.4	<2	0.3	1200	<0.1	<0.1	<1	0.19	1700
AL94/1426	29	2.2	1900	61	16.9	5	10	8	3.3	<0.02	0.23	0.7	24.40	5.5	<0.05	2250	<5	360	0.6	0.6	<2	0.4	1200	0.5	<0.1	<1	0.23	2000
AL94/1427	29	2.2	1800	59	17.7	6	10	4	2.8	<0.02	0.26	0.8	25.60	5.6	<0.05	2300	<5	380	0.7	0.6	<2	0.4	860	0.2	0.4	<1	0.22	2000
AL94/1451	21	7.4	2900	49	10.6	15	5	12	3.5	0.20	0.72	1.7	27.50	8.6	0.12	3540	9	440	0.6	2.1	<2	1.2	800	1.7	<0.1	<1	0.77	1800
AL94/1452	14	7.5	2900	48	10.7	18	6	13	3.3	0.40	0.70	1.7	26.40	8.2	0.12	3520	8	440	0.6	2.0	<2	1.2	590	1.8	0.9	<1	0.64	1700
AL94/1469	22	3.2	330	39	13.7	5	3	5	5.5	<0.03	0.29	<0.5	27.60	3.0	<0.05	1610	<5	310	0.4	0.7	<2	0.4	450	0.3	<0.1	<1	0.20	2200
AL94/1470	23	2.4	330	43	13.6	<3	3	6	6.5	<0.03	0.29	<0.5	24.00	2.9	0.05	1530	<5	300	0.4	0.6	<2	0.4	<300	<0.1	<0.1	<1	<0.05	2100
AL94/1495	14	15.0	1800	27	10.5	49	13	35	2.3	0.79	2.20	4.2	20.20	23.0	0.39	4340	24	190	0.9	6.1	<2	4.5	<300	3.9	1.3	<1	2.08	1400
AL94/1496	11	15.0	1800	27	11.1	49	12	32	2.5	0.92	2.11	4.0	17.30	23.0	0.36	4440	27	170	0.8	6.2	<2	4.5	620	4.0	1.6	<1	1.97	1400
AL94/1535	7	3.1	4600	35	17.7	9	8	4	2.4	<0.02	0.26	1.2	25.50	4.4	0.06	1670	7	270	0.4	0.9	<2	0.6	1200	0.6	<0.1	2	0.30	1600
AL94/1536	8	2.8	4600	36	18.7	8	9	6	3.0	<0.02	0.30	1.3	26.10	4.2	0.05	1810	<5	280	0.6	0.9	<2	0.6	1100	0.5	<0.1	<1	0.25	1600
AL94/1563	<5	2.6	4200	23	26.0	6	8	3	2.2	<0.03	0.25	<0.5	23.60	3.0	<0.05	1790	<5	490	0.5	0.6	<2	0.3	770	0.1	<0.1	<1	<0.05	2000
AL94/1564	6	2.3	3800	22	21.8	5	6	2	1.8	<0.03	0.22	<0.5	25.60	3.2	<0.05	1570	<5	480	0.5	0.5	<2	0.3	710	<0.1	<0.1	<1	0.28	1900
AL94/1569	7	2.4	1900	23	20.6	6	4	5	7.8	0.21	0.31	1.1	24.80	3.8	0.06	1190	<5	750	0.5	0.8	<2	0.5	660	0.3	<0.1	<1	0.21	1700
AL94/1570	11	2.3	2100	22	22.6	6	4	5	7.6	<0.02	0.32	<0.5	27.40	3.9	<0.05	1390	<5	780	0.5	0.8	<2	0.5	550	0.6	<0.1	<1	0.30	1800
AL94/2329	20	6.4	1200	18	16.4	7	4	10	13.0	<0.03	0.35	0.8	16.20	5.4	<0.05	1550	<5	580	0.6	0.9	<2	0.5	1100	0.4	<0.1	<1	0.18	2300
AL94/2330	16	6.8	1200	17	16.3	7	4	7	13.0	<0.03	0.32	1.0	16.50	5.1	0.06	1520	<5	530	0.6	0.9	3	0.5	1100	0.4	<0.1	<1	0.25	2300
AL94/2364	14	3.8	3300	72	16.4	5	8	5	<0.5	<0.03	0.18	0.7	33.00	3.1	<0.05	1730	<5	130	0.7	0.3	<2	0.3	680	<0.1	<0.1	<1	0.16	2000
AL94/2365	15	3.3	3200	74	15.9	4	7	<1	0.8	<0.03	0.14	<0.5	36.60	3.1	<0.05	1680	<5	140	0.6	0.4	<2	0.3	520	<0.1	<0.1	<1	<0.05	2000
AL94/2388	7	2.2	4500	60	23.5	4	8	37	0.7	<0.03	0.16	<0.5	21.30	1.7	<0.05	4380	<5	47	0.4	0.4	<2	0.2	630	<0.1	<0.1	<1	<0.05	1600
AL94/2389	12	2.1	4600	58	24.1	<3	9	41	<0.5	<0.03	0.19	<0.5	22.40	2.0	0.05	4490	<5	59	0.4	0.4	5	0.3	940	0.5	<0.1	<1	0.14	1700
AL94/2408	19	19.0	2400	40	12.4	55	17	41	3.3	1.22	2.48	4.5	16.30	32.0	0.43	5770	34	210	1.5	6.4	2	5.1	1300	5.0	1.7	<1	2.42	2200
AL94/2409	23	20.0	2500	32	13.4	52	17	41	3.2	1.11	2.48	4.1	15.80	32.0	0.47	5730	24	230	1.7	6.4	<2	5.2	1100	4.9	1.7	<1	2.75	2100
AL94/2492	6	20.0	3400	25	16.3	60	11	40	2.0	1.25	1.70	8.4	15.70	27.0	0.58	4170	31	130	0.8	4.7	<2	4.2	580	5.5	1.9	4	3.28	1800
AL94/2493	<5	19.0	3200	27	16.5	56	11	40	2.1	1.17	1.70	8.4	15.60	26.0	0.56	4120	30	130	0.9	4.9	<2	4.1	650	5.5	2.3	<1	3.22	1800

\* first row of data shows determination limits

\* first row of data shows determination limits

Table 5 (cont'd): Laboratory Duplicates - Concentrations in Ash Determined by INAA

Vial Number	Au ppb	As ppm	Ba ppm	Br ppm	Ca %	Ce ppm	Co ppm	Cr ppm	Cs ppm	Eu ppm	Fe %	Hf ppm	K %	La ppm	Lu ppm	Na ppm	Nd ppm	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sm ppm	Sr ppm	Th ppm	U ppm	W ppm	Yb ppm	Zn ppm	
AL94/2534	6	2.1	2800	37	24.0	6	3	20	1.5	<0.03	0.38	1.0	24.00	5.1	<0.05	1700	<5	99	0.6	1.0	<2	0.6	570	0.8	<0.1	<1	0.42	2200	
AL94/2535	<5	3.3	2900	55	23.9	5	4	25	1.4	0.19	0.46	1.5	28.20	5.7	0.07	1800	<5	120	0.4	1.1	<2	0.6	1100	0.8	<0.1	<1	0.59	2300	
AL94/2605	12	5.0	2200	67	22.1	11	9	31	<0.5	<0.03	0.44	<0.5	21.70	5.3	0.09	2840	<5	38	0.8	1.3	<2	0.7	1200	1.0	<0.1	<1	0.49	1200	
AL94/2606	15	5.1	2300	62	23.9	10	9	30	1.0	0.11	0.48	1.2	22.70	5.4	0.09	2970	<5	57	0.7	1.3	<2	0.8	1200	1.1	<0.1	<1	0.49	1300	
AL94/2624	<5	2.1	2700	77	23.6	11	5	25	<0.5	<0.04	0.53	1.6	21.10	5.9	0.16	2270	<5	52	0.4	1.4	<2	1.0	470	0.9	0.8	<1	0.64	1800	
AL94/2625	<5	2.7	2800	66	24.6	16	6	29	0.9	<0.04	0.55	1.8	21.60	7.2	0.12	2090	<5	57	0.4	1.5	<2	1.1	710	1.1	0.7	<1	0.51	1900	
AL94/2638	6	3.0	2900	50	20.2	7	6	49	<0.5	<0.02	0.38	1.0	24.90	4.7	0.08	1860	<5	210	0.8	1.0	<2	0.6	580	0.6	<0.1	<1	0.50	3000	
AL94/2639	<5	3.4	2900	50	20.0	11	6	38	1.3	0.19	0.35	<0.5	24.20	4.9	<0.05	1940	8	190	0.9	0.9	<2	0.6	300	0.6	<0.1	<1	0.35	2900	
AL94/2667	7	1.8	4200	24	23.2	7	3	17	<0.5	<0.02	0.23	1.0	19.50	3.2	<0.05	1390	<5	220	0.4	0.6	<2	0.5	980	0.2	<0.1	<1	0.17	2700	
AL94/2668	6	1.4	4100	24	22.9	7	3	15	0.7	<0.02	0.27	<0.5	17.10	3.4	0.05	1430	6	210	0.4	0.6	<2	0.5	660	0.5	0.5	<1	0.23	2700	
AL94/2681	<5	5.2	2100	28	15.7	41	8	41	1.6	0.93	1.55	4.7	17.60	19.0	0.32	4100	19	150	0.9	4.4	<2	3.2	510	3.5	0.9	<1	1.85	2000	
AL94/2682	<5	6.5	2000	27	16.7	40	8	44	1.7	0.91	1.64	4.8	17.40	20.0	0.34	4170	24	150	0.9	4.5	<2	3.3	550	3.5	1.4	<1	1.80	2000	
AL94/2705	<5	5.6	4500	36	17.8	35	8	33	2.0	0.77	1.31	2.8	16.90	16.0	0.27	4320	21	130	0.6	4.1	<2	3.1	1200	3.4	<0.1	<1	1.45	1900	
AL94/2706	<5	6.8	4500	31	18.6	36	8	38	1.7	0.75	1.32	3.1	16.70	18.0	0.29	4580	20	130	0.6	4.3	<2	3.2	1100	3.0	1.5	<1	1.64	1900	
AL94/2730	10	9.3	6000	34	21.9	7	7	24	1.4	<0.03	0.34	<0.5	24.60	4.5	<0.05	1990	<5	220	0.8	1.0	<2	0.5	1400	0.9	0.2	<1	0.21	2000	
AL94/2731	6	11.0	6200	30	23.8	7	7	24	0.9	<0.03	0.32	<0.5	25.20	4.8	<0.05	1880	<5	210	0.7	1.0	<2	0.6	1600	0.8	<0.1	<1	0.27	2100	
AL94/2746	<5	4.7	2500	43	22.2	7	6	25	3.1	<0.03	0.49	0.7	22.80	6.6	0.08	2360	<5	350	0.8	1.3	<2	0.8	2700	0.8	<0.1	<1	0.49	3000	
AL94/2747	9	5.3	2500	37	21.6	9	5	25	3.5	<0.03	0.44	1.2	20.20	7.1	0.07	2290	<5	350	0.9	1.2	6	0.7	2400	0.6	<0.1	<1	0.56	3000	
AL94/2767	6	2.9	5500	37	23.3	5	3	16	<0.5	<0.03	0.21	1.4	24.20	3.4	0.08	1210	<5	110	0.3	0.6	<2	0.4	620	0.5	<0.1	<1	0.31	1800	
AL94/2768	9	2.1	5800	38	21.9	4	2	16	<0.5	0.20	0.27	<0.5	24.80	3.3	<0.05	1290	<5	120	0.3	0.7	<2	0.4	440	0.4	<0.1	<1	0.15	1800	
AL94/2797	50	4.1	2300	39	21.1	13	9	6	1.5	<0.02	0.33	<0.5	27.50	9.4	<0.05	2250	7	360	0.7	1.0	<2	0.8	1100	0.7	<0.1	<1	0.30	2100	
AL94/2798	21	3.7	2200	37	20.0	10	7	4	1.4	<0.02	0.34	1.0	24.40	9.1	0.06	2110	<5	310	0.7	0.9	<2	0.8	790	0.8	<0.1	<1	0.33	2000	
AL94/2814	14	3.0	1700	25	21.2	5	4	22	7.5	<0.02	0.29	1.1	21.60	8.0	<0.05	2570	<5	600	0.9	0.8	<2	0.5	960	0.7	<0.1	<1	0.34	2000	
AL94/2815	6	2.9	1700	26	20.1	9	4	24	7.9	<0.02	0.33	0.8	23.80	8.5	0.05	2630	7	590	0.9	0.8	<2	0.5	1100	0.6	0.6	<1	0.31	2200	
AL94/2817	9	5.6	1000	24	17.8	26	15	40	1.8	0.49	0.90	2.2	18.80	15.0	0.21	3800	12	220	0.7	2.4	<2	2.3	980	2.7	0.8	<1	1.21	1300	
AL94/2818	6	2.1	2200	21	20.0	8	6	21	2.5	0.20	0.29	<0.5	23.60	6.2	<0.05	1530	<5	490	0.5	0.8	<2	0.7	840	0.8	0.4	<1	0.38	2100	

Table 5 (cont'd): Laboratory Duplicates - Concentrations in Ash Determined by INAA

Vial Number	Au ppb 5*	As ppm	Ba ppm	Br ppm	Ca %	Ce ppm	Co ppm	Cr ppm	Cs ppm	Eu ppm	Fe %	Hf ppm	K %	La ppm	Lu ppm	Na ppm	Nd ppm	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sm ppm	Sr ppm	Th ppm	U ppm	W ppm	Yb ppm	Zn ppm	
AL94/2837	11	4.9	2700	17	23.7	16	4	19	1.0	0.31	0.59	2.0	18.60	8.5	0.12	2580	<5	92	0.4	1.7	<2	1.3	780	1.4	<0.1	<1	<1	0.56	1600
AL94/2838	9	4.0	2700	16	22.0	16	4	18	0.6	0.31	0.58	1.8	19.40	8.3	0.10	2540	9	81	0.4	1.6	<2	1.3	700	1.3	<0.1	<1	<1	0.65	1600
AL94/2858	15	2.6	6000	24	20.4	4	3	23	1.3	<0.03	0.23	1.4	24.50	2.9	<0.05	993	<5	230	0.4	0.7	<2	0.3	710	<0.1	<0.1	<1	0.21	1600	
AL94/2859	<5	3.6	6100	26	19.5	7	3	26	0.7	<0.03	0.25	1.2	23.70	2.8	0.06	937	<5	250	0.4	0.7	<2	0.4	870	0.4	<0.1	<1	0.29	1700	
AL94/2884	<5	2.5	2500	29	17.7	8	5	18	1.9	<0.03	0.49	1.6	22.90	5.8	0.09	1640	<5	190	0.7	1.4	<2	0.8	590	1.1	<0.1	<1	0.49	2900	
AL94/2885	10	3.5	2600	31	18.8	10	5	18	1.8	<0.03	0.50	1.3	26.90	5.4	0.07	1680	<5	170	0.6	1.4	<2	0.8	980	0.9	<0.1	<1	0.63	3000	
AL94/2896	<5	7.5	6000	26	15.3	33	6	34	1.9	0.57	1.35	4.7	28.10	17.0	0.31	2510	24	210	0.9	3.9	<2	2.8	1100	3.5	1.1	<1	1.78	2600	
AL94/2897	12	7.2	5800	25	14.6	33	6	32	2.4	<0.03	1.25	4.6	24.10	16.0	0.29	2440	20	170	0.9	3.8	<2	2.6	920	3.1	1.4	<1	1.51	2300	
AL94/2925	8	5.6	3400	32	15.3	22	5	33	2.6	0.38	0.98	3.1	19.00	12.0	0.22	3160	<5	360	0.7	2.8	3	1.8	1100	2.4	0.8	<1	1.24	2800	
AL94/2926	11	5.3	3500	33	15.8	25	5	37	2.8	0.54	1.01	3.1	19.00	11.0	0.20	3130	12	360	0.9	2.9	<2	1.8	1100	2.5	<0.2	<1	1.18	2800	
AL94/2944	8	6.7	3300	41	15.6	39	8	37	1.4	0.67	1.70	5.3	24.40	17.0	0.40	4790	22	88	0.9	4.7	<2	2.9	680	3.9	1.0	<1	1.81	1700	
AL94/2945	7	6.2	3100	39	14.0	35	7	35	1.2	0.76	1.60	5.3	23.40	17.0	0.35	4840	21	86	1.0	4.7	<2	2.8	730	3.7	1.3	<1	1.90	1600	
AL94/2976	<5	2.2	790	28	21.2	<3	3	7	13.0	0.16	0.21	<0.5	30.60	2.6	<0.05	2140	<5	790	3.6	0.6	<2	0.3	980	0.4	<0.1	<1	<0.05	1900	
AL94/2977	6	2.2	910	25	20.3	<3	3	8	13.0	<0.03	0.21	<0.5	30.60	2.4	<0.05	2040	<5	770	4.0	0.5	<2	0.2	1500	<0.1	<0.1	<1	<0.05	1900	
AL94/2986	6	2.1	1600	24	18.7	14	4	21	1.6	0.26	0.48	0.8	26.70	6.8	0.09	2400	<5	150	0.6	1.4	<2	0.9	1100	1.0	<0.1	<1	0.46	2100	
AL94/2987	15	3.2	1600	38	18.4	12	4	23	1.9	0.32	0.52	1.1	27.40	6.9	0.09	2640	<5	160	0.7	1.5	<2	0.9	960	0.9	<0.1	<1	0.51	2200	
AL94/6049	<5	1.7	3500	25	31.5	5	5	9	0.6	<0.02	0.21	<0.5	18.50	2.4	<0.05	2140	<5	190	0.4	0.6	<2	0.3	670	0.6	<0.1	<1	0.09	2100	
AL94/6050	6	1.0	3400	22	29.3	<3	5	8	0.6	<0.02	0.17	0.7	20.40	2.2	0.07	2150	<5	200	0.4	0.6	<2	0.3	660	<0.1	<0.1	<1	0.29	2100	

\* first row of data shows determination limits

Table 6: Laboratory Duplicates - Concentrations in Ash Determined by ICP-ES

Packet Number	Ag ppm 0.1*	Al ppm 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
ICP94/1402	1.9	0.32	349	<0.2	3.0	90	3	3.60	35941	<1	56	1.479	40	651	42
ICP94/1403	2.1	0.33	353	<0.2	2.8	93	3	3.65	36603	<1	58	1.502	44	664	42
ICP94/1426	2.4	0.47	457	<0.2	4.0	159	4	3.40	38997	<1	70	2.077	51	795	71
ICP94/1427	1.7	0.48	457	0.3	4.5	161	5	3.28	44349	1	74	2.137	70	881	78
ICP94/1495	0.5	1.40	175	<0.2	5.2	93	21	3.12	7056	1	52	1.884	38	365	18
ICP94/1496	0.5	1.47	199	<0.2	6.0	106	23	3.23	7252	1	57	2.013	37	389	19
ICP94/1535	1.4	0.60	315	0.4	11.0	118	5	3.13	20983	<1	40	1.912	66	608	19
ICP94/1536	<0.1	0.61	315	0.5	12.6	121	5	2.85	26002	1	29	1.950	75	681	22
ICP94/1563	<0.1	0.58	364	0.3	10.6	156	3	3.92	19638	1	51	2.284	41	561	35
ICP94/1564	1.0	0.76	330	0.3	8.6	149	4	4.14	15725	<1	43	2.144	35	498	32
ICP94/1569	0.6	0.58	358	0.4	2.1	118	4	3.92	6711	1	34	1.731	37	499	18
ICP94/1570	0.6	0.57	347	0.4	2.2	115	4	3.83	6601	1	35	1.683	41	490	18
ICP94/2329	0.4	0.89	363	0.3	18.7	125	2	5.59	50332	<1	121	2.871	58	846	68
ICP94/2330	0.7	0.89	376	0.3	19.0	130	<2	5.73	51094	<1	126	2.952	75	855	68
ICP94/2364	0.1	0.49	291	0.2	1.6	163	<2	4.13	12114	<1	172	2.922	17	384	9
ICP94/2365	<0.1	0.49	298	0.5	1.5	166	<2	4.24	12302	<1	176	3.001	24	392	10
ICP94/2408	0.4	1.45	239	<0.2	7.5	143	18	2.39	23886	4	83	1.476	80	613	39
ICP94/2409	0.3	1.43	241	0.3	7.5	141	25	2.37	23653	2	85	1.459	73	603	37
ICP94/2492	0.2	1.15	233	<0.2	6.6	105	23	2.80	12134	<1	41	1.247	62	303	35
ICP94/2493	0.3	1.10	228	<0.2	6.5	105	14	2.77	12075	<1	42	1.248	64	301	33
ICP94/2534	<0.1	0.57	297	0.4	12.7	142	<2	3.54	17779	1	81	2.995	28	665	23
ICP94/2535	<0.1	0.58	302	0.3	12.2	144	<2	3.66	18048	<1	89	3.100	28	674	24
ICP94/2605	0.2	0.61	261	<0.2	8.4	143	19	3.34	5787	<1	86	2.482	42	819	31
ICP94/2606	0.2	0.59	254	<0.2	7.7	138	8	3.20	5619	<1	81	2.398	41	794	30
ICP94/2624	0.1	0.50	269	0.2	2.9	159	<2	3.11	3832	<1	32	2.227	49	304	22
ICP94/2625	<0.1	0.54	276	0.9	3.4	180	12	2.85	4418	11	28	2.417	48	341	22

\* first row of data shows determination limits

Table 6 (cont'd): Laboratory Duplicates - Concentrations in Ash Determined by ICP-ES

Packet Number	Ag ppm 0.1*	Al ppm	B ppm	Be ppm	Cd ppm	Cu ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P %	Pb ppm	Sr ppm	V ppm
ICP94/2638	<0.3	0.37	369	<0.2	7.0	194	4	4.44	31338	6	40	2.330	126	342	25
ICP94/2639	<0.3	0.35	379	0.2	5.9	197	3	4.70	26220	<1	44	2.221	97	282	23
ICP94/2667	<0.3	0.45	456	0.2	13.7	156	3	3.83	24037	<1	21	2.479	57	378	14
ICP94/2668	<0.3	0.45	462	0.2	13.1	160	3	3.85	24192	1	19	2.517	54	384	14
ICP94/2681	<0.3	1.09	299	0.3	7.2	156	15	3.21	17190	4	35	1.408	97	287	29
ICP94/2682	<0.3	1.08	298	0.4	7.3	158	16	3.20	17081	2	38	1.396	95	290	29
ICP94/2705	<0.3	0.99	284	0.4	7.6	146	7	3.65	19516	8	26	1.512	83	702	20
ICP94/2706	<0.3	0.92	298	0.4	6.8	149	17	4.02	16047	3	29	1.473	65	582	19
ICP94/2730	<0.3	0.55	389	<0.2	9.7	180	2	3.30	17104	8	23	1.756	77	946	26
ICP94/2731	<0.3	0.50	372	0.2	5.8	183	2	3.50	13735	3	22	1.641	47	778	22
ICP94/2746	<0.3	0.92	403	<0.2	16.6	195	<2	4.33	14637	1	51	2.243	98	1254	50
ICP94/2747	<0.3	0.92	417	0.2	17.3	197	2	4.43	14960	<1	52	2.285	91	1266	52
ICP94/2767	<0.3	0.29	511	<0.2	9.4	163	<2	3.71	12827	7	106	2.364	45	459	10
ICP94/2768	<0.3	0.27	506	0.2	6.7	165	<2	3.68	12551	5	108	2.352	35	467	8
ICP94/2797	<0.3	0.70	347	0.5	7.6	134	<2	4.17	42002	2	98	1.655	56	665	109
ICP94/2798	<0.3	0.74	362	0.5	8.4	140	<2	4.46	43990	2	108	1.740	58	703	115
ICP94/2814	<0.3	0.50	427	0.2	6.6	167	2	5.15	20522	1	75	2.379	64	825	119
ICP94/2815	<0.3	0.51	432	0.3	6.7	172	2	5.26	20472	2	78	2.500	65	834	122
ICP94/2817	<0.3	1.74	361	0.5	9.0	183	9	4.12	23123	1	446	1.930	85	674	43
ICP94/2818	<0.3	0.74	366	0.4	11.2	171	4	4.21	33085	<1	116	2.000	56	598	40
ICP94/2837	<0.3	0.44	360	0.3	4.2	184	6	4.53	5712	<1	24	1.960	24	467	10
ICP94/2838	<0.3	0.45	360	0.4	4.0	184	5	4.56	5747	<1	24	1.979	22	467	11
ICP94/2858	<0.3	0.32	321	<0.2	7.3	160	<2	3.58	24984	2	54	2.684	39	528	16
ICP94/2859	<0.3	0.36	343	<0.2	8.6	161	2	3.81	28736	2	62	2.950	43	536	18
ICP94/2884	0.3	0.86	388	0.3	25.1	172	3	4.46	25702	5	98	2.577	77	582	31
ICP94/2885	<0.3	0.84	380	0.6	23.0	170	3	4.35	25724	5	100	2.584	64	564	29

\* first row of data shows determination limits



Table 6 (cont'd): Laboratory Duplicates - Concentrations in Ash Determined by ICP-ES

Packet Number	Ag ppm 0.1*	Al ppm 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
ICP94/2896	<0.3	1.16	324	0.8	15.4	218	13	3.30	10948	10	126	2.971	40	576	16
ICP94/2897	<0.3	1.14	328	0.7	16.7	212	15	3.32	11192	<1	126	2.933	30	567	18
ICP94/2925	<0.3	1.01	367	0.6	16.9	254	6	3.01	73056	<1	88	3.014	74	872	34
ICP94/2926	<0.3	1.03	362	0.7	15.0	254	6	2.97	71924	<1	79	3.006	84	867	28
ICP94/2944	<0.3	0.88	241	0.2	3.8	135	12	3.32	10192	<1	39	2.343	72	304	24
ICP94/2945	<0.3	0.90	252	0.4	3.5	142	15	3.05	11934	<1	38	2.472	79	364	27
ICP94/2976	<0.3	0.62	429	0.3	6.9	188	5	3.51	24044	3	50	3.201	13	764	11
ICP94/2977	<0.3	0.57	389	0.3	4.5	166	8	3.16	22031	<1	51	2.913	29	705	8
ICP94/2986	<0.3	0.07	18	0.3	3.4	10	<2	0.16	1485	17	6	0.113	13	62	4
ICP94/2987	<0.3	0.05	15	0.3	2.5	7	<2	0.14	1425	16	2	0.100	<3	56	3
ICP94/6049	<0.3	0.33	322	<0.2	6.4	128	<2	3.04	26539	<1	6	1.525	48	388	14
ICP94/6050	<0.3	0.33	326	<0.2	8.4	134	4	3.07	26656	4	6	1.510	45	387	13

\* first row of data shows determination limits

Tables 7 and 8 show the determination (detection) limits quoted for each element by the analytical laboratories. Where concentrations in the survey samples were below determination limits, a value of half the determination limit was used for statistical calculations.

For Mn (ICP-ES) one sample exceeded an upper determination limit of 10%. For this sample a value of 99,999 ppm was used for statistical calculations.

Table 7: Determination Limits for Elements Analyzed by INAA

Element		Units of Measure	Determination Limit
Arsenic	As	ppm	0.5
Gold	Au	ppb	5
Barium	Ba	ppm	10
Bromine	Br	ppm	1
Calcium	Ca	%	0.2
Cobalt	Co	ppm	1
Chromium	Cr	ppm	1
Cesium	Cs	ppm	0.5
Iron	Fe	%	0.05
Hafnium	Hf	ppm	0.5
Potassium	K	%	0.05
Rubidium	Rb	ppm	5
Sodium	Na	ppm	10
Antimony	Sb	ppm	0.1
Scandium	Sc	ppm	0.1
Selenium	Se	ppm	2
Strontium	Sr	ppm	300
Thorium	Th	ppm	0.1
Uranium	U	ppm	0.1
Tungsten	W	ppm	1
Zinc	Zn	ppm	20

Rare Earth Elements		Units of Measure	Determination Limit
Lanthanum	La	ppm	0.1
Cerium	Ce	ppm	3
Neodymium	Nd	ppm	5
Samarium	Sm	ppm	0.1
Europium	Eu	ppm	0.01
Ytterbium	Yb	ppm	0.05
Lutetium	Lu	ppm	0.05

Table 8: Determination Limits for Elements Analyzed by ICP-ES

Element		Units of Measure	Determination Limit
Silver	Ag	ppm	0.1
Aluminum	Al	%	0.01
Boron	B	ppm	2
Beryllium	Be	ppm	0.2
Cadmium	Cd	ppm	0.2
Copper	Cu	ppm	1
Lithium	Li	ppm	2
Magnesium	Mg	%	0.01
Manganese	Mn	ppm	1
Molybdenum	Mo	ppm	1
Nickel	Ni	ppm	1
Phosphorus	P	%	0.001
Lead	Pb	ppm	3
Strontium	Sr	ppm	1
Vanadium	V	ppm	2

Fig. 2: Geological Contacts, with Metallic Deposits and Occurrences, and Main Locations Referred to in Text

## BEDROCK GEOLOGY

### Legend

#### CRETACEOUS

**EK** red and gray clay, kaolin, silica sand, lignite

#### LATE TRIASSIC

Fundy Group

**LT** UNDIVIDED LATE TRIASSIC

**LTW** *Wolfville Formation*: red conglomerate, arkose, sandstone, shale

#### CARBONIFEROUS

Pictou Group

**LCSV** *Scotch Village Formation*: grey sandstone, shale

Canso Group

**CWB** *Watering Brook Formation*: mudstone, shale, gypsum, anhydrite, halite

Windsor Group

**ECW** UNDIVIDED WINDSOR GROUP

**ECWC** *Murphy Road & Green Oaks Formations*: sandstone, siltstone, limestone, dolostone, anhydrite, gypsum

**ECWB** *Wentworth Station, Miller Creek & MacDonalds Road Formations*: siltstone, limestone, dolostone

**ECWA** *White Quarry, Macumber, Stewiacke, Carrolls Corner, Meaghers Grant (stippled) & Gays River Formations*: anhydrite, gypsum, halite, siltstone, limestone, dolostone, shale

Horton Group

**ECH** UNDIVIDED HORTON GROUP

**ECC** *Cheverie Formation*: sandstone, siltstone, shale, arkose, conglomerate

**ECCN** *Craignish Formation*: arenite, siltstone, sandstone

**ECHB** *Horton Bluff Formation*: sandstone, shale, dolomite, conglomerate

**ECS** *Strathlorne Formation*: siltstone, shale, dolomite, conglomerate

#### CAMBRIAN

Meguma Group

**COG** *Goldenville Formation*: greywacke, slate

**COH** *Halifax Formation*: slate, siltstone, rare limestone at base

#### PLUTONIC ROCKS

**DCG** Granite

**DCGT** Granitoid

**DCMG** Monzo-granite

**DGD** Granodiorite

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Reference: Keppie, J.D., 1979. Geological Map of the Province of Nova Scotia, Department of Mines and Energy, Nova Scotia; Scale 1:500 000.

## GEOLOGY

### Bedrock and Mineralization

Figure 2 shows the geological contacts of the stratigraphic or lithologic units with mineral deposits and occurrences. The geology, with sample numbers, is shown also on the the large, coloured geological map provided in the envelope.

The oldest rocks to outcrop in the survey area are the Cambro-Ordovician Meguma Group comprising turbidites (Goldenville Formation) and slates (Halifax Formation). These were intruded by plutons of felsic to intermediate composition during the Devonian to early Carboniferous periods. This plutonism, notably the South Mountain Batholith in the southwest of the survey area, gave rise to folding and faulting, accompanied by regional greenschist to amphibolite grade metamorphism (Taylor, 1967). Keppie (1979) considered that the major folds of the Meguma Group formed at ca. 370 Ma, in the early stages of the Acadian Orogeny.

During the Carboniferous Period clastic sediments of the Horton Group were deposited, which were succeeded by carbonates and evaporites of the Windsor Group. These sediments were overlain by evaporites of the Canso Group and capped with sandstones and shales of the Pictou Group (Scotch Village Formation). Downwarping into three major southwest-northeast striking synclines has preserved many lithological elements of the Carboniferous in the Kennetcook, Shubenacadie and Musquodoboit basins (Fig. 2). Triassic sediments of the Fundy Group are preserved in the north along the shore of the Bay of Fundy. No rocks of Jurassic age occur in the survey area, but around and to the east of Shubenacadie recent seismic studies (S. Pullan, GSC), substantiated by a drilling program conducted by the Nova Scotia Dept. of Natural Resources (R. Stea), have found more extensive early Cretaceous clastic sediments than had previously been known (R.N. DiLabio, personal communication, 1996).

Many gold occurrences have been reported (Fig. 2) and a few have been worked (e.g. Caribou, Moose River, Oldham, Mt. Uniacke, Rawdon Hills). There are a few base metal deposits (notably Pb at Gays River), and many manganese, iron and evaporite deposits in the Walton area.

### Digital Geological Base Map Compilation

The transparent geological overlay map provided in the pocket, and the coloured 1:130000 sample location map are digitized computer-plotted compilations derived primarily from the Geological Map of the Province of Nova Scotia (Keppie, 1979). Minor modifications have been made to update certain units, in particular the early Cretaceous clastic sediments around Shubenacadie.

The digital geology base for this study was created by digitally clipping the appropriate area from the digital base map. The resulting topologically consistent base contains 21 geological units.

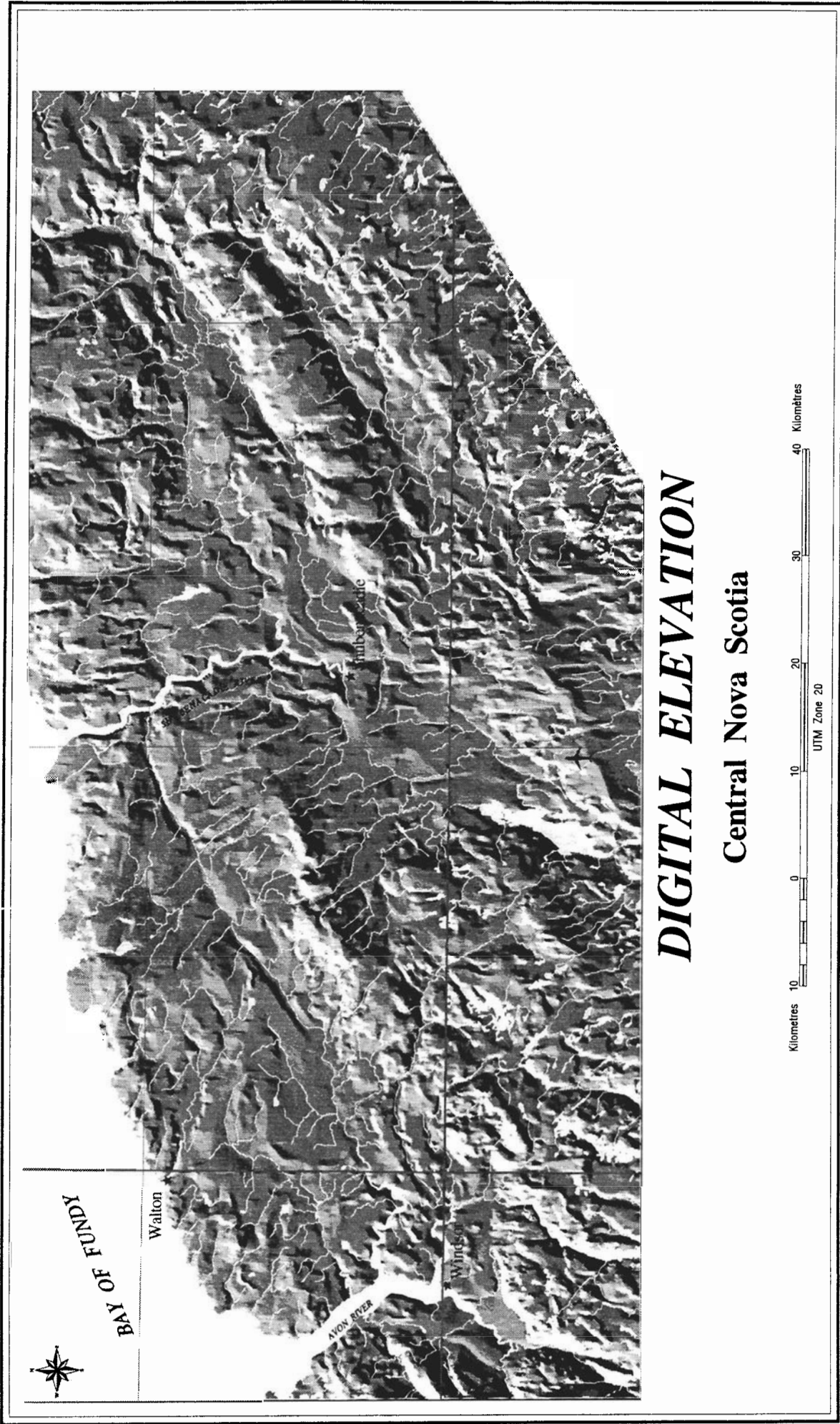


Fig. 3: Digital Elevation Map of Survey Area Showing Drainage Systems (white).

## Quaternary Deposits

The chemistry of trees is influenced partly by the bedrock, but primarily by the chemical composition of groundwaters and surficial deposits. Therefore, consideration of the physical and chemical nature of the glacial deposits is relevant to interpretation of the biogeochemical patterns.

Results of the earliest mapping of the surficial geology in the Shubenacadie area were published by Hughes (1957). Subsequently, Stea and Fowler (1979) published a series of maps of Pleistocene cover in Nova Scotia. Map No. 4, which covers the western half of the present survey area, shows that there is an extensive cover of Lawrencetown Till, mostly only a few metres thick. This till is overlain by patches of Rawdon Till up to 100 km<sup>2</sup> in extent (Rawdon Hills area), Granite Till (southwest of survey area), Quartzite Till (marginal to the Granite Till), and local narrow elongate deposits of outwash till. Recently, more detailed studies have been undertaken which indicate four main phases of ice movement: southeastward (East Milford Till); southward from a centre over Prince Edward Island (Hants Till [equivalent to much of the Lawrencetown Till]); northeastward from an ice divide near the south shore of Nova Scotia, modifying the Hants Till; and westward, depositing the Rawdon Till (Stea and Fowler, 1981; Stea and Finck, 1984; Stea, Graves and Rogers, 1988; Stea, 1994; McClenaghan and DiLabio, in prep., and M.B. McClenaghan, personal communication, 1996).

## MAP PRODUCTION AND DATA HANDLING

The maps are all drawn using the Universal Transverse Mercator projection (NAD27 datum), with a central meridian of 63° (Zone 20). This projection is the same as that used for the 'Geological Map of the Province of Nova Scotia' (Keppie, 1979). Map plots in this Open File were produced by ESRI's ARC/INFO software. Computations were performed on UNIX workstations, with output to a 600 dpi Hewlett-Packard Laserjet printer (for the small maps) and to a Synergy electrostatic printer (large coloured map). The coastline and drainage were obtained in digital form from Surveys Mapping and Remote Sensing Sector (SMRSS) of the Department of Natural Resources, Canada. The digital hydrography base was produced by splicing together four 1:250 000 digital bases (21H, 11E, 21A, 11D) and then clipping the appropriate sub-area. This hydrography was then merged with the digital geology base (Keppie, 1979), supplied by NSDNR, to produce the large, 1:130 000 colour map.

The proportional dot maps were generated using AML (ARC/INFO Macro Language). The macro, with its corresponding input menu, prompts the user to input percentile break-points and an appropriate scaling exponent for each element to be mapped. Proportional dots are then generated, using the ARC/INFO SPOTSIZE, POINTSPOT and SPOT commands, with the user specifying an appropriate minimum and maximum dot size. For the purposes of this Open File, analytical values for a particular element that were greater than or equal to the 98th percentile were plotted at the maximum dot size; values less than the 98th percentile were scaled according to the user defined exponent. Exponents for individual elements were carefully chosen to provide the best view of the analytical data.



Accordingly, care should be exercised when attempting to compare different elements plotted with different exponents.

Element concentrations below analytical detection limits were reduced to half of the detection limit for data plotting and statistical calculations. For samples with duplicate analyses, data from the first of each duplicate pair was plotted.

A digital elevation map of Central Nova Scotia is provided (Fig. 3 and transparent overlay in envelope) for additional assistance in interpreting the element distribution maps. This map was produced from Digital Terrain Elevation Data (DTED) provided by SMRSS. Complete elevation coverage for the survey area was obtained by merging six 1° x 1° DTED tiles, and then clipping the appropriate sub-area. The resulting cell size was approximately 93x93 m, with a horizontal circular error (CE) of less than 130 m and a vertical linear error (LE) of less than ±30 m. ARC/INFO's GRID module was used to perform the raster compilation and to create the shaded relief map.

## ELEMENT DISTRIBUTION MAPS

Interpretation of the element distribution maps requires some consideration of the role of chemical elements in plant function. Some comments are given in this section to assist in this interpretation. These notes deal first with those elements determined by INAA, followed by those determined by ICP-ES. This sequence is the same as the element listings in Appendix A and the statistical summary in Appendix B.

For determinations by INAA the first element listed is Au, because of its common interest, after which elements are arranged alphabetically by chemical symbol. Exceptions are the rare earth elements (REE) which are arranged in order of increasing atomic weight - i.e. La, Ce, Nd, Eu, Sm, Yb, as is conventional for REE listings. For determinations by ICP-ES, elements are arranged alphabetically by chemical symbol.

### Transparent Overlay

A transparent overlay at the same scale as the element distribution maps is provided to help locate individual samples (identified by sample number on the folded colour map in envelope), and to relate their positions to main communities, bedrock geology, mineral deposits and showings. Detailed geology is provided as a large colour map, and additional place names are shown on Fig. 2. A second transparent overlay is a digital elevation map, showing roads, streams and topographic features.

### Distribution Maps of Elements Determined by INAA

#### *Gold (Au)*

Gold is not known to be essential for plant growth and health. Consequently, patterns of Au distribution reflect zones of relative Au enrichment in soils, groundwaters and near surface rocks. Background levels of Au in the ash of balsam fir twigs are commonly less than 5 ppb Au. Because of the low (ppb) traces of Au that are present, the precision of the INAA on duplicate pairs is not as good



as that of most other elements determined by this method, and at concentrations below 10 ppb Au the reproducibility of analyses is poor. In general, Au concentrations in the study area are low (median 8 ppb). Around the Rawdon Hills there are scattered sites yielding moderate concentrations of Au. Local clusters of sites with relative Au enrichment occur near the Gays River Pb/Zn mine (Windsor Group sediments), and over Meguma Group sediments west of the airport, at the southern end of Shubenacadie Grand Lake. In this area one site yielded 182 ppb Au on the east side of the lake (Fig. 4a), but most of the gold-rich samples were confined to a 6 km x 2 km zone on the west side of Shubenacadie Grand Lake, generally following the east-west strike of the underlying Goldenville Formation. As an initial follow-up, balsam fir needles from several of the Au-rich twigs were retrieved from archive storage and analyzed. The data confirmed the enrichment of Au at these sites, yielding up to 410 ppb Au. All potential sources of contamination during sample collection and preparation were examined, and none could be found. Consequently, the following year (June, 1995) a follow-up survey was conducted that involved the collection of balsam fir and red spruce from 90 sites, and a few water, rock and till samples. The twigs (some with needles) yielded lower concentrations of Au than in the previous year (perhaps because of a wetter spring in 1995), but data confirmed that there are sites in the vicinity of Golden and Sandy Lakes at which twigs of both species locally have relative enrichment of Au (Fig. 4b), Ag and As. Concentrations reached maxima of 35 ppb Au in balsam fir twigs, and 47 ppb Au and 5 ppm Ag in red spruce twigs (Dunn and Balma, 1995). The few rock and till samples obtained were processed by M-Tech Inc. (Halifax) to extract gold grains. The maximum yield was six grains in the -60 mesh fraction of a crushed 1.5 kg boulder of Goldenville greywacke. Of 11 one litre samples of stream water from the area that were analyzed for Au, only one yielded a concentration above the determination limit of 0.2 ppt Au (G.E.M. Hall, personal communication, 1995). Balsam fir data from detailed sampling of this area in 1995 are included with the digital data listings provided on the diskette available from the address on p.2.

At this time the source of the gold anomalies is unknown, and the inconsistent nature of the vegetation anomalies warrants further investigation. It is noteworthy that some of the sites of gold enrichment in the trees lie close to the axes of the Au-bearing Oldham Anticline, and the Shubenacadie Anticline (Fig. 4). It is also of interest that a few kilometres north of this area is the recently discovered Steve's road gold deposit. Furthermore, Nova Scotia's only full time gold miner, Edgar Horne, steadily extracts gold from quartz veins near Renfrew, 10 kilometres north of the detailed study area (Durstling et al., 1994).

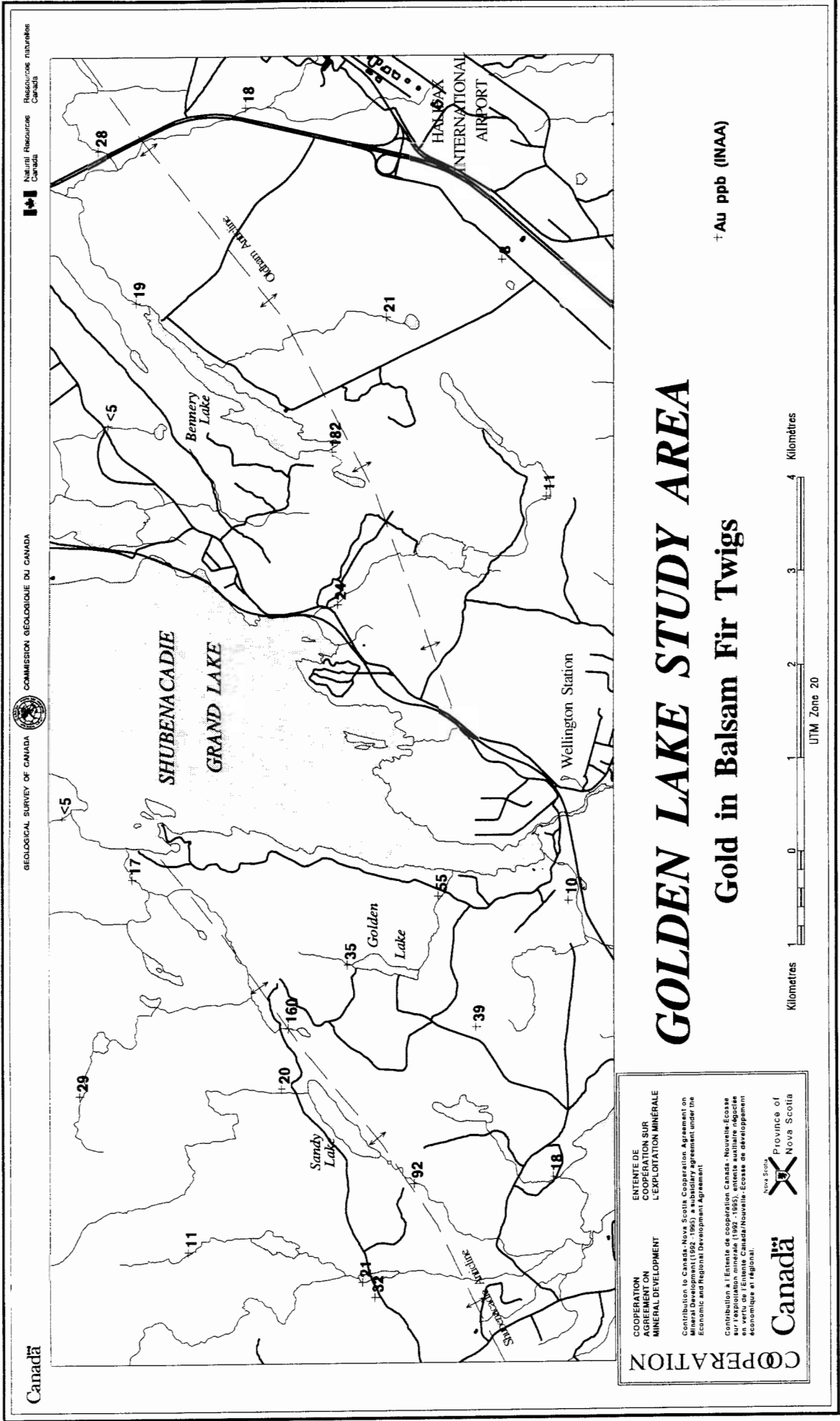


Fig. 4a: Gold in balsam fir twigs (1994 survey). Detail of Au distribution map in envelope (Appendix C). Axes of Oldham and Shubenacadie anticlines from Faribault et al., (1908 & 1909).

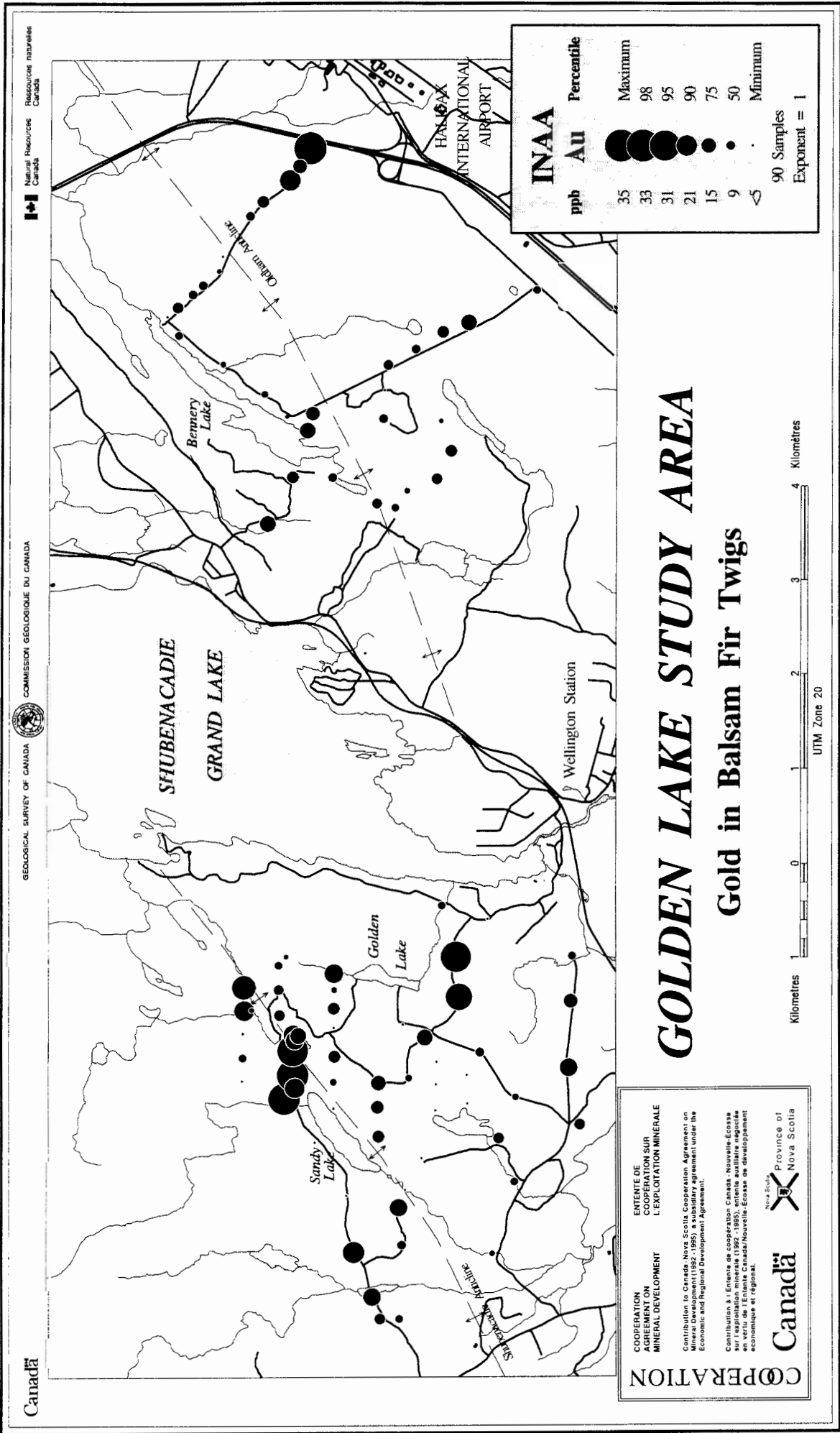


Fig. 4b: Gold in balsam fir twigs (some with needles) - detailed survey in 1995. Axes of Oldham and Shubenacadie anticlines from Faribault et al., (1908 & 1909).

### ***Arsenic (As)***

Arsenic is renowned for its toxicity, yet plants (especially Douglas-fir) can accumulate extraordinary amounts without exhibiting any visible harmful affects (Warren et al., 1964; Dunn and Scagel, 1989). Arsenic is an essential element for the metabolism of carbohydrates in fungi and algae, and a few ppm As in most conifer tissues is to be expected. Zones of relative As enrichment occur near west of Shubenacadie Grand Lake, near sites of Au enrichment at Sandy Lake (Fig. 4) and Uniacke; north-east of the airport, near gold mineralization at Oldham; at Gays River; in the vicinity of the Caribou Gold Mines; and at scattered localities around the Rawdon Hills. Weak enrichment of As is present, too, at several sites just south of Walton along the northern limb of the Kennetcook syncline, over rocks of the Windsor Group near their contact with the underlying clastic sediments of the Horton Group.

The statistics sheets (Appendix B) show that balsam fir from the Goldenville, Halifax, and Scotch Village (Pictou Group) formations are generally slightly more enriched in both As (p.B2) and Au (p.B1) than trees on the other formations.

### ***Barium (Ba)***

All samples yielded substantially more barium than the INAA detection limit of 10 ppm Ba. Balsam fir twigs commonly contain approximately 1000 ppm Ba, but some unusually high concentrations occur within the map area, locally up to 12,000 ppm in samples from the Walton area. The generally high levels of Ba in twigs from sites underlain by Carboniferous sediments reflects the bedrock enrichment in Ba which, as would be expected, is highest near the evaporitic sediments of the Walton area where barite is mined.

### ***Bromine (Br)***

Bromine is a volatile element, present in most, if not all terrestrial plants, but it is not known to be an essential element. It can occur in many forms as complexes within plants. Some Br complexes volatilize during the ashing process, causing losses of 30 - 90 percent of the Br contained within the plant tissues. In some environments there is a Au/Br association in plant ash from zones of mineralization (Dunn, 1986). Within the survey area some of the highest concentrations of Br occur near sites of Au enrichment in twigs, west of Shubenacadie Grand Lake. High concentrations also occur near the Horton/Windsor contact at the western end of the Kennetcook syncline.

### ***Calcium (Ca)***

Calcium is a major 'building block' element, essential for the rigidity of cell walls in most plants. The variations in Ca content of the twigs may influence the distribution of some trace elements. For example a statistical analysis of multi-element data sets commonly reveals a strong association of Ca with Ba and Zn, although within the survey area this association is not apparent. The statistical

summary of the Ca data (p. B5) shows there is little variation among trees growing over different substrates.

### ***Cobalt (Co)***

Traces of Co are required by some plants to assist in the fixation of major nutrients (e.g. N, S). One ppm Co in ash is all that is required by most plants (Kabata-Pendias and Pendias, 1984), but conifer twigs commonly have approximately 5 ppm Co. Within the survey area the median content of Co in the balsam fir twigs is 5 ppm. Plant tissues commonly contain elevated levels of Co over ultramafic rocks, and it has been observed that some plants exhibit Co enrichment in the vicinities of gold mineralization in northern Saskatchewan (Dunn, 1986). The map of central Nova Scotia shows no significant enrichment of Co, but slightly elevated concentrations around the Rawdon Hills.

### ***Chromium (Cr)***

Chromium is a non-essential element for which precise INAA data are obtained at low ppm levels. Concentrations are mostly within the normal range of values for balsam fir twigs (10 - 20 ppm Cr). Samples from sites underlain by sediments of the Windsor Group and Halifax Formation are locally unusually enriched in Cr, yielding maximum concentrations of 160 ppm near the margins of the Shubenacadie basin.

### ***Cesium (Cs)***

This alkali metal performs no known essential function in plant tissues, and is usually present at less than 3 ppm Cs in conifer twig ash. Although more geochemical partitioning of Cs from Rb occurs in plant tissues than in rocks, both metals are enriched in trees from areas where there are alkali metal-rich phases in granitic bodies. This enrichment is apparent at the eastern end of the survey area near the contact between Meguma Group sediments and Devonian-Carboniferous granitoid rocks. Concentrations in samples growing on the granitoid rocks reach a maximum of 37 ppm Cs, and the median concentration (6 ppm) is four times greater than the median for all samples. For comparison, balsam fir from close to the Cs-rich rocks at East Kemptville were found to contain up to 59 ppm Cs (Dunn *et al.*, 1994a)

### ***Iron (Fe)***

Iron is essential for photosynthesis and is a major constituent of chlorophyll. In addition, there is a residual content of Fe which reflects the composition of the substrate. Statistical analysis of the data (p. B9) shows Fe concentrations are generally similar in trees growing over different substrates, with highest concentrations (maximum of 2.48% Fe) over rocks of the Windsor Group, and lowest (maximum of 0.33% Fe) over the granitoids in the east.

### ***Hafnium (Hf)***

Ash of conifer twigs commonly contains 1 - 2 ppm Hf. Hafnium levels are usually higher where Fe concentrations are high because the two elements are commonly associated in plants. The concentration of Hf in plants may also be correlated with Zr, due to their close geochemical affinities.

### ***Potassium (K)***

Potassium has no structural role in plants, but it serves a number of catalytic roles and is required in large amounts (Bidwell, 1979). It is very important in the overall metabolism of plants. The range of concentrations present are normal levels for conifer twigs. There is relative enrichment of K in fir twigs from trees from the eastern part of the survey area and around the northern limb of the Kennetcook basin.

### ***Sodium (Na)***

The effect of salt-spray from the Bay of Fundy is evident from coastal samples near Walton. Elsewhere Na concentrations are relatively high over Windsor Group sediments (notably at the eastern end of the Shubenacadie basin), and depleted over the granitoids.

### ***Rubidium (Rb)***

There is an antagonism between K and Rb in plants (Kabata-Pendias and Pendias, 1984) because of their competition for the same binding sites, resulting in different distribution patterns for the two elements. Cesium is also involved, being more closely associated with Rb than K in the trees (cf. maps of Cs and Rb distributions). Background levels of Rb in balsam fir twigs are commonly 200 ppm. Balsam fir twigs from over the Devonian-Carboniferous plutons contain a median concentration of 395 ppm Rb in ash. Enrichment of the alkali metals occurs over and to the south of the Rawdon Hills, and in the east.

### ***Antimony (Sb)***

Excellent analytical precision is obtained for Sb by INAA down to sub-ppm levels in ash. Although Sb can be readily taken up by plants in soluble forms it is considered a non-essential element (Kabata-Pendias and Pendias, 1984) and is usually present at low ppm levels. In general, Sb levels are close to the usual background for balsam fir, except for two areas: Rawdon Hills, and over Meguma sediments and granitoid rocks in the east. By comparing the distribution patterns of Sb, Au and As, it appears that the Sb is not associated with Au mineralization. The zones of Sb enrichment appear to be more closely linked to some zones of copper enrichment.

### ***Scandium (Sc)***

Data on the essentiality of Sc in biologic systems are inconclusive (Horovitz, 1988). If required, Sc is needed only in 'ultra-trace' amounts, and therefore its presence in twigs is controlled

essentially by the chemistry of the substrate and by the distribution of other elements. In particular, there is a high correlation between Sc and Fe.

### ***Selenium (Se)***

Traces of Se are essential for some plants. Selenium occurs in combination with many compounds, some of which break down to release volatile chemical species of Se during the ashing process. Consequently, it is probable that the Se content of the twig ash is not proportional to the total content of the dry tissue. Analytical precision by INAA at low ppm levels of Se is poor. As a result, anomalies are mostly isolated and bear no relationship to known mineralization within the survey area.

### ***Strontium (Sr)***

INAA has poor sensitivity to traces of Sr, and analytical precision is inferior to that for most other elements considered in this study. However, Sr concentrations are well above detection limits in all samples, such that the areas of Sr enrichment depict significant regional variations.

Strontium is essential for some plant species, but its general essentiality still needs confirmation. It performs a function similar to Ca in plants, and may be incorporated into their structural components. However, interactions between Ca and Sr are complex and, as demonstrated by the distribution maps for these elements, they do not closely follow one another. Highest concentrations occur in association with evaporite rocks of the Windsor Group. In addition there are Sr enrichments in trees growing on Meguma Group rocks in the east and in the southwest.

### ***Thorium (Th)***

Thorium has low solubility and is not essential for plant growth. Its concentration in plant ash is typically < 2 ppm, and even over zones of Th-rich mineralization (e.g. allanite with > 5000 ppm Th in northern Saskatchewan) only a few ppm accumulate in the tissues (Dunn and Hoffman, 1986). Highest concentrations occur in trees from the Windsor Group (maximum of 5.5 ppm Th) and the Halifax Formation (maximum of 5.2 ppm Th), each representing a concentration an order of magnitude above background levels.

### ***Uranium (U)***

Although  $U_3O_8$  has high solubility, it rarely exceeds concentrations of more than 2 ppm in plant ash. There are a number of notable exceptions, particularly in northern Saskatchewan where enrichments in spruce twigs are locally more than three orders of magnitude (Dunn, 1983). Within the survey area the highest concentrations are from samples over the Windsor Group.

### ***Tungsten (W)***

The detection limit for W by INAA is 1 ppm in ash, which is above the usual concentrations in tree tissues, and analytical precision at this level is poor. There are, however, several zones where multiple samples are weakly enriched in W (e.g. around the Musquodoboit basin).

### ***Zinc (Zn)***

Zinc is essential for carbohydrate and protein metabolism, therefore differences of a few 100 ppm Zn in ash are probably related to the health of the tree rather than subtle changes in substrate chemistry. However, in the survey area there is a range in concentration from 690 - 4100 ppm Zn indicating that the regional pattern of Zn distribution is reflecting broad differences across the area, although it is not confined to any single stratigraphic formation.

### ***Rare-Earth Elements (REE)***

Because of their chemical coherence, these elements are considered as a separate group. INAA can be used to readily determine lanthanum (La), cerium (Ce), neodymium (Nd), samarium (Sm), europium (Eu), terbium (Tb), ytterbium (Yb), and lutetium (Lu). Of these elements, only Tb consistently yields concentrations below the detection level (0.5 ppm) and therefore no map of Tb is included. Maps of these elements show very similar distribution patterns, with concentrations generally higher in the east than the west. No sample yielded an unusually high concentration of any of the REE, and in general they closely follow Fe.

## **Distribution Maps of Elements Determined by ICP-ES**

### ***Silver (Ag)***

Silver is not known to be essential to plant life, and can become toxic to plants by substituting for K in membranes and thereby inhibiting the absorption of other cations by roots (Hendrix and Higinbotham, 1974). However, at the few ppm concentrations present within the study area (and most natural environments) the inhibiting effects of Ag on the uptake of other elements is insignificant. The 50th percentile value of 0.5 ppm Ag in the balsam fir twigs is a typical background level. Of note is a zone of multi-site enrichment of Ag at the northeastern end of the Rawdon Hills. A second cluster of anomalous values occurs in the far northeast corner of the survey area, and another south of Walton. There is weak Ag enrichment at several sites east of Shubenacadie, and west of Shubenacadie Grand Lake near sites of Au enrichment.

### ***Aluminum (Al)***

All dry vegetation samples were placed in Al trays for ashing, therefore a certain amount of contamination from this source is inevitable. The aqua regia extraction used is not 'total', but good precision was obtained for duplicate samples. Tests undertaken to compare data obtained on an ash standard by ICP-ES (aqua regia digestion) with some INAA data (determinations for short-lived



isotopes) indicate that the acid digestion releases approximately 50% of the Al. Sites of relative enrichment of Al are scattered throughout the survey area.

### ***Boron (B)***

Borosilicate test tubes were used for the acid digestion of the ash samples. This digestion may release 5 - 10 ppm B from the borosilicate, but this is insignificant in comparison with the 100s ppm B present in the ash. Tests indicate that the analytical procedure provides data which represent about 50% of the true concentrations of B in the samples. Precision, however, is excellent.

Boron is essential for plant growth, and it is believed to play an important role in the translocation of sugars. In general, B uptake is low from Ca-rich soils, perhaps accounting for the slightly lower B levels in trees from the carbonate-rich Windsor Group. Most of the highest concentrations occur over Meguma, Pictou and Horton sediments in the east.

### ***Beryllium (Be)***

There is usually less than 2 ppm Be in soils and, because it is a non-essential element for plant growth (in high concentrations it is toxic), its presence in the substrate is reflected in the balsam fir twigs by concentrations of less than 1 ppm Be. The map of Be distribution clearly shows the relative enrichment in a few areas (e.g. near Walton), but because there appears to be a slight drift in analytical determinations of Be in the standard sample (Table 4) interpretation of the data should be treated with caution. It is unlikely that the subtle variations in Be content are of significance.

### ***Cadmium (Cd)***

Although there is a strong geochemical association between Cd and Zn in many geochemical environments, this is not evident in plant tissues because of the *requirement* that plants have for Zn but not for Cd. However, Cd is easily absorbed by plants and may therefore be expected to reflect relative Cd concentrations in the soils and groundwaters. Absolute concentrations differ among plant species because Cd can be captured by a variety of organic compounds in cell walls and therefore not all will be transported to the tree extremities. There is relative enrichment of Cd in samples from over sediments of the Meguma and Horton groups, especially around the Rawdon Hills and in the northeast.

### ***Copper (Cu)***

Data obtained by ICP-ES from the aqua regia leach are both precise and accurate. Copper plays a fundamental role in plant metabolism. It assists in respiration, photosynthesis, nitrogen fixation and valence changes, and it is present in many micro-components of plants (small and large molecules, chloroplasts, mitochondria etc.). As a consequence, the background concentration of Cu in ash of the twigs (median 166 ppm) is high compared to many trace elements.

The interpretation of Cu distribution patterns in tree tissues should be approached with caution, since laboratory studies report numerous antagonistic and synergistic interactions with both major and

minor elements. These are reviewed briefly by Kabata-Pendias and Pendias (1984). However, despite the essentiality of Cu and the complex metabolic roles that it may play, substantial differences among the survey samples are more likely to reflect significant differences in the Cu content of the substrate than the relatively small differences attributable to micronutrient functions. This is particularly true in the eastern part of the survey area where there is relative Cu enrichment over sediments of the Horton and Meguma groups.

### ***Lithium (Li)***

Lithium commonly follows Rb and Cs in nature. In balsam fir twigs it is less abundant than Rb but slightly enriched with respect to Cs. It is not known to be essential to plant metabolism, and its high solubility (except where firmly bonded to clay minerals) causes Li enrichment in soils and waters to be readily reflected in plant tissues. Of note are the relatively high concentrations of Li in trees growing over clastic sediments of the Scots Valley Formation (Pictou Group) and, to a lesser degree, the Windsor Group (p. B35).

### ***Magnesium (Mg)***

Magnesium is a macronutrient which plays several important roles in plant health, including photosynthesis and numerous enzymic reactions. From a biogeochemical prospecting perspective, major differences in Mg concentrations in plants can indicate significant differences in the underlying lithology, but smaller differences are not known to be of value in delineating zones of mineralization. Of note are the relatively high concentrations in many samples in the south where underlying rocks are Meguma greywackes and slates.

### ***Manganese (Mn)***

Manganese is highly enriched in balsam fir twigs. It is an essential element which is readily taken up by plants, especially where the acidity of the ground is high. In acidic environments there is a Mn/Fe antagonism, which is extended to elements with a broad affinity for Fe. The many Mn occurrences in the Walton area are not reflected in the trees because of the alkaline nature of the substrate. Locally there is in excess of the upper limit of determination of Mn - 10% in ash. Statistics on p. B37 show that trees from sites overlying the Halifax slates contain the highest concentrations of Mn.

### ***Molybdenum (Mo)***

Molybdenum in trace amounts is required by most plants for nitrogen fixation and nitrate reduction. Concentrations are usually <2 ppm Mo in conifer twigs, although over highly alkaline soils the trees are able to absorb Mo more readily, and therefore slightly higher levels may be expected. There are generally higher levels of Mo in the northeastern part of the survey area, mostly in and

around the Shubenacadie basin. Spatially related to this area there is enrichment of Cu near the margins of this basin.

### ***Nickel (Ni)***

The presence of Ni may assist in the translocation of nitrogen in some plants, but its general essentiality is unproven. When in solution, Ni is readily taken up by plants, therefore it may be expected that the Ni content of the twigs is positively correlated with Ni concentrations in groundwaters. INAA has low sensitivity to Ni (detection limit of 50 ppm Ni in ash). In contrast, excellent precision and accuracy are obtained by ICP-ES down to the minimum level (6 ppm) recorded for this data set. There is a relative abundance of Ni in samples from the southwestern end of the Rawdon Hills, and to a lesser degree at sites in the northeast where some Cu enrichment occurs.

### ***Phosphorus (P)***

Phosphorus plays a vital role in plant energy metabolism, and it is extremely important as a structural part of many organic compounds. Its uptake by trees may be antagonized by excess Ca which, from the maps showing distribution patterns of Ca and P, appears to take place in the balsam fir twigs because most sites with high Ca have low P. Similarly, high levels of P may influence the uptake of numerous trace metals, although this effect appears to be subordinate to the over-riding effect of the chemistry of the substrate. There are some broad similarities between the distribution patterns of P, Cu and Sb.

### ***Lead (Pb)***

Despite the known toxic effects of Pb, it occurs naturally in all plants, and in small traces Pb may even be an essential element (Broyer et al., 1972). It is taken up mainly by root hairs and stored as a pyrophosphate in cell walls. On average, Pb concentrations in the survey area are lower than those found in balsam fir from southwestern Nova Scotia and southeastern Cape Breton Island (Dunn *et al.*, 1994a,b), and from comparison of median values there is very little difference according to underlying lithology. However, maximum values are higher because of the high levels near the Gays River mine (maximum of 2120 ppm Pb).

### ***Vanadium (V)***

Although concentrations of V are above detection levels in all of the twig samples, its essentiality for plants other than green algae has not been proven. Soluble V is easily taken up by roots, and it may play a similar role to Mo in fixing nitrogen. The distribution of V is different from all other elements determined, with a marked concentration in the southern part of the survey area. At many of these sites there is relative enrichment of Mg.

NOTES ON THE BIOGEOCHEMICAL DATA LISTINGS

(APPENDICES A and B)

Appendix A lists field data and all analytical data obtained for the balsam fir twig ash. Appendix B provides some simple statistical analyses of the data by treating the data set as a whole, and by dividing the data according to the underlying bedrock geology (according to stratigraphic group or formation; all intrusions are grouped together because they are all Devono-Carboniferous in age, and range in composition from granite to monzo-granite). Abbreviations used in the appendices are explained in Tables 9 and 10.

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Table 9: Abbreviations Used in Appendix A

Map Sheet	National topographic system (NTS): First three characters refer to 1:250,000 scale quadrangle; remaining two characters identify the 1:50,000 scale map sheet within the quadrangle.
Zone, Easting and Northing	The Universal Transverse Mercator (UTM) zone followed by easting and northing co-ordinates in metres.
Twig Min Age Twig Max Age	The minimum age of each length of twig collected. The maximum age of each length of twig collected.
Slope	0 = flat ground 1 = slight incline followed by downward compass direction (e.g. 1N = slight downward incline to the north) 2 = moderate incline 3 = steep incline
Land Class	Land Classification: type of vegetation cover and degree of surface water saturation. First letter: D = dry; M = moist; W = wet Second letter: O = open; M = moderately dense; D = dense Third letter: W = Woodland; B/S = Bog, Swamp; F = Farmland; L = Logged
Rock Unit	See legend alongside large coloured map

Table 10: Abbreviations Used in Appendix B

Rock Type	Underlying bedrock lithology (derived from published geological maps - see large coloured map):  EK Early Cretaceous (clastic sediments) LT Late Triassic (clastic sediments) LCSV Late Carboniferous Scotch Village Formation (clastic sediments) EC Early Carboniferous Windsor Group (mostly carbonates and evaporites) H Early Carboniferous Horton Group (clastic sediments) COG Cambro-Ordovician Meguma Group - Goldenville Formation (turbidites) COH Cambro-Ordovician Meguma Group - Halifax Formation (slates) DC Devono-Carboniferous felsic plutons
N dl Cum %	N number of samples dl determination limit Cum % cumulative frequency (as a percentage)

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# **APPENDIX A**

## **Data Listings (Field and Analytical)**

**Abbreviations are explained in Table 9, page 34.**

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
1001	11D13	20	456194	4969433	8	10	0	MMW	COH
1002	11D13	20	454746	4970006	6	7	1W	DMW	COH
1003	11D13	20	456362	4972087	6	7	1SW	-	COG
1004	11D13	20	449937	4967487	7	9	3S	DMW	COH
1005	11D13	20	449993	4968879	6	8	1S	DMW	COG
1006	11D13	20	450851	4972867	6	8	2NE	DMW	COG
1008	11D13	20	450190	4972127	6	7	3NW	DOW	COG
1011	11D13	20	444557	4973130	8	9	0	WMW	COH
1012	11D13	20	443110	4974671	7	8	0	MMW	COG
1013	11D13	20	441060	4973181	8	10	0	MMB	COG
1014	11D13	20	441097	4971111	7	8	0	MMW	COH
1015	11D13	20	443023	4970594	7	8	-	-	COG
1016	11D13	20	444102	4976675	7	7	-	DMW	COG
1017	11D13	20	446095	4976338	6	8	0	MDW	COG
1018	11D13	20	443002	4978238	7	8	0	DMW	COG
1019	11D13	20	440230	4979091	6	6	0	MMW	COG
1020	11D13	20	439571	4977482	7	9	0	MMW	COG
1021	11D13	20	439490	4975956	6	8	0	WMB	COG
1022	11D13	20	439306	4973279	7	9	0	DDW	COG
1023	11D13	20	437345	4971558	7	7	0	MMW	COG
1024	11D13	20	437143	4970136	6	7	0	DDW	COH
1025	11D13	20	437200	4967858	6	8	0	DMW	COG
1026	11D13	20	439280	4968979	6	8	0	DMW	COG
1027	21H1	20	416034	4999684	7	8	0	DMW	EC
1029	21H1	20	413709	5001281	8	10	0	DDW	H
1030	21H1	20	411829	5001535	8	9	0	DMW	H
1032	21H1	20	408971	5002106	5	7	0	-	EC
1033	21H1	20	408179	5001062	5	5	0	MMW	H
1035	21H1	20	408133	4999032	4	4	-	-	EC
1036	21H1	20	406167	4996366	6	7	1W	DMF	H

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
1001	2.03	21	5.5	760	66	18.1	12	7	10	1.2	0.28	0.44	0.6	21.30	11.0	0.08	1720	<5	140	0.8	1.1	<2	1.0	860	0.8	<0.1	<1	0.47	2000
1002	2.10	182	6.4	2400	57	21.6	6	4	8	2.3	<0.03	0.31	<0.5	24.30	4.3	0.09	1600	<5	300	0.6	0.8	<2	0.4	920	0.6	<0.1	<1	0.34	2700
1003	1.66	19	3.6	1600	110	11.7	13	7	9	1.6	0.24	0.59	1.1	27.30	11.0	0.13	2780	<5	280	1.1	1.6	<2	1.1	1400	0.8	<0.1	<1	0.43	3500
1004	1.88	10	3.4	3500	61	22.3	9	4	9	<0.5	<0.03	0.43	1.0	18.10	7.0	0.07	1380	<5	140	1.1	0.9	<2	0.5	840	0.6	0.5	<1	0.23	1400
1005	1.91	55	2.3	2700	55	20.2	7	4	7	1.1	<0.03	0.36	1.1	22.10	6.5	0.09	2770	<5	300	0.6	1.0	<2	0.7	770	0.7	<0.1	<1	0.37	3200
1006	2.02	<5	4.5	4600	87	19.6	3	6	6	3.5	0.13	0.20	<0.5	23.60	2.9	<0.05	809	<5	330	0.5	0.4	<2	0.2	450	<0.1	<0.1	<1	<0.05	2000
1008	2.02	17	2.1	1200	55	16.9	5	7	4	5.6	<0.02	0.17	<0.5	25.00	4.0	<0.05	1520	9	490	0.5	0.5	<2	0.3	1300	0.2	<0.1	<1	<0.05	2200
1011	2.00	10	8.4	810	110	18.3	13	7	7	3.3	0.35	0.41	<0.5	20.80	9.7	0.09	1640	<5	300	0.7	1.2	<2	1.0	1100	0.9	<0.1	<1	0.33	2200
1012	1.78	9	1.9	4500	86	16.5	6	6	5	1.5	<0.03	0.29	<0.5	22.10	4.4	0.06	969	<5	340	0.3	0.6	<2	0.4	1100	0.3	<0.1	<1	0.29	2000
1013	1.75	14	3.2	2500	150	15.7	5	9	7	<0.5	<0.03	0.27	0.7	22.30	4.6	<0.05	1250	<5	180	0.6	0.6	<2	0.4	1100	0.3	<0.1	<1	0.23	2300
1014	2.46	<5	1.7	1600	84	14.2	3	6	2	0.8	0.14	0.15	0.8	22.20	3.1	<0.05	1010	<5	180	0.3	0.4	<2	0.3	830	0.3	<0.1	<1	0.17	1500
1015	2.02	9	1.4	640	73	15.4	4	3	7	1.0	<0.02	0.19	<0.5	22.40	3.8	<0.05	1230	<5	220	0.5	0.5	<2	0.3	570	<0.1	<0.1	<1	0.24	2100
1016	2.15	9	2.6	4000	89	15.8	12	14	6	1.7	<0.02	0.56	<0.5	17.30	9.1	0.06	1330	<5	190	0.5	0.9	<2	0.8	930	0.5	0.3	<1	0.23	1700
1017	2.56	23	4.1	1800	58	17.6	20	7	13	3.5	0.42	1.16	1.5	16.60	12.0	0.10	2390	<5	160	0.7	2.3	<2	1.4	840	1.5	0.7	<1	0.73	2700
1018	2.03	24	3.5	1400	86	16.9	15	10	10	3.6	0.24	0.53	0.9	23.10	9.8	0.06	2660	5	310	0.5	1.3	<2	1.2	1300	0.8	<0.1	<1	0.48	2500
1019	2.51	10	4.4	1100	67	18.3	15	12	13	1.0	0.18	0.67	1.3	22.10	8.9	0.09	2240	<5	190	0.7	2.4	<2	1.2	360	1.5	0.5	<1	0.47	1800
1020	1.84	<5	1.3	1900	61	19.6	<3	8	2	1.7	<0.02	0.14	<0.5	19.90	2.1	<0.05	915	<5	340	0.4	0.3	<2	0.2	1400	<0.1	<0.1	<1	<0.05	2200
1021	4.14	33	3.1	2400	33	18.6	6	7	7	1.3	<0.02	0.33	1.0	18.60	5.1	0.05	1960	<5	230	0.6	0.8	<2	0.5	1200	0.6	<0.1	<1	0.23	1700
1022	1.62	<5	3.5	1400	37	15.7	6	4	8	4.7	0.11	0.30	0.6	23.20	4.9	<0.05	2380	<5	410	0.8	0.8	<2	0.6	1400	0.3	<0.1	<1	0.28	3200
1023	1.67	48	2.3	2400	28	17.7	<3	19	2	11.0	<0.02	0.17	<0.5	21.10	2.5	<0.05	1120	<5	630	0.4	0.4	<2	0.3	1400	<0.1	<0.1	<1	<0.05	2400
1024	1.62	<5	3.4	1100	57	14.9	9	15	11	4.0	<0.03	0.42	1.1	27.00	5.6	<0.05	1600	<5	570	0.7	1.1	<2	0.6	1200	0.4	<0.1	<1	0.36	3100
1025	2.18	15	2.8	1500	38	15.3	14	5	14	5.6	0.30	0.58	1.5	21.70	9.0	0.10	2440	6	300	0.8	1.7	<2	1.3	1400	1.3	<0.1	<1	0.51	1900
1026	1.70	10	2.9	2200	31	17.4	6	3	7	3.3	<0.02	0.32	0.9	19.90	4.3	<0.05	1910	<5	430	0.6	0.8	<2	0.5	1400	0.6	<0.1	<1	0.21	2900
1027	2.04	7	1.9	1500	29	18.0	5	3	4	1.1	<0.02	0.28	<0.5	20.80	2.9	<0.05	1670	<5	280	0.6	0.6	<2	0.4	870	0.4	<0.1	<1	<0.05	1600
1029	1.94	8	3.3	2200	44	19.6	8	5	6	1.1	<0.02	0.39	1.0	21.70	4.2	0.05	3540	<5	180	0.5	1.2	<2	0.6	950	0.7	<0.1	<1	0.37	3100
1030	2.13	26	4.4	2200	44	13.4	9	8	9	1.0	<0.02	0.53	1.3	25.60	5.3	0.08	3480	<5	280	0.6	1.7	<2	0.8	750	0.8	<0.1	<1	0.36	2300
1032	1.77	11	4.0	2700	29	10.0	7	4	8	2.5	<0.03	0.40	1.1	27.40	4.1	0.07	1860	<5	290	0.6	1.1	<2	0.6	1000	0.9	<0.1	<1	0.39	2600
1033	2.47	11	5.9	2100	32	17.1	9	7	9	0.8	0.19	0.48	0.9	27.40	4.8	0.06	4070	7	99	0.7	1.3	<2	0.8	1800	0.9	<0.1	<1	0.37	1600
1035	2.68	6	4.0	1700	29	22.0	3	4	4	0.9	0.11	0.28	<0.5	25.10	2.8	<0.05	1500	<5	120	0.4	0.7	<2	0.4	1400	0.3	<0.1	2	0.18	1300
1036	2.30	16	2.7	2400	40	19.2	5	7	6	<0.5	<0.02	0.22	<0.5	26.60	2.9	<0.05	5600	<5	110	0.7	0.6	<2	0.4	1200	0.1	0.4	<1	<0.05	1500

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
1001	2.7	0.47	536	<0.2	4.5	117	5	2.89	48331	1	73	1.504	145	507	91
1002	2.3	0.47	355	<0.2	9.7	147	5	3.33	39309	<1	37	2.102	56	517	48
1003	0.6	0.90	560	<0.2	1.7	132	5	6.45	6079	1	76	1.706	93	811	103
1004	1.4	0.74	382	0.3	7.7	150	6	4.68	23355	1	71	2.492	77	509	106
1005	1.7	0.46	411	<0.2	7.2	147	4	3.52	35148	<1	58	1.630	57	497	64
1006	1.5	0.58	307	<0.2	12.4	148	5	4.44	22146	<1	94	3.604	46	543	37
1008	0.8	0.99	427	0.2	4.2	124	4	6.18	14925	1	91	2.153	47	775	43
1011	1.1	0.81	638	0.2	3.6	134	6	5.00	19211	1	89	1.608	80	503	54
1012	2.2	0.53	402	<0.2	9.9	150	4	3.61	42945	<1	132	2.084	48	670	29
1013	2.1	0.83	399	<0.2	1.6	136	4	3.39	35831	<1	71	1.596	66	510	40
1014	1.9	0.32	349	<0.2	3.0	90	3	3.60	35941	<1	56	1.479	40	651	42
1015	2.4	0.48	370	<0.2	12.5	127	4	2.95	72187	<1	49	2.432	47	446	69
1016	2.6	0.90	337	<0.2	8.7	154	5	2.67	73672	<1	96	1.929	43	561	22
1017	2.4	0.72	331	<0.2	8.9	132	8	3.25	38227	1	53	1.529	52	486	69
1018	1.8	0.74	382	<0.2	4.0	137	6	3.46	23316	1	79	1.515	67	798	21
1019	0.9	0.82	229	<0.2	4.1	109	7	2.83	15757	2	111	2.398	35	169	17
1020	1.2	0.45	335	<0.2	7.2	160	4	5.11	17754	<1	66	2.182	51	768	34
1021	3.4	0.42	301	<0.2	5.8	111	5	2.83	52804	<1	42	2.113	65	655	47
1022	1.0	0.70	350	0.2	6.8	150	5	6.09	10356	1	53	2.059	79	905	56
1023	2.3	0.46	451	<0.2	8.9	168	4	5.83	29381	<1	98	2.358	34	854	33
1024	1.9	0.99	432	0.4	8.0	188	5	5.09	22733	1	148	2.531	54	824	46
1025	1.3	1.14	386	<0.2	6.4	156	7	4.25	21504	1	84	2.166	89	905	51
1026	2.7	0.69	492	<0.2	8.9	197	6	5.78	35082	<1	68	2.481	71	749	46
1027	1.9	0.82	374	<0.2	3.1	102	5	4.09	24351	<1	30	2.675	57	608	28
1029	1.8	0.84	328	0.2	6.4	133	7	2.97	22851	1	48	1.917	44	543	17
1030	2.5	0.97	345	<0.2	6.7	158	8	3.10	34162	1	59	2.577	41	396	18
1032	1.5	0.51	416	0.2	5.3	188	6	5.89	22050	1	32	2.603	44	445	24
1033	0.8	0.64	364	<0.2	7.3	165	9	3.06	7252	1	29	2.161	62	1126	20
1035	0.2	0.50	469	0.3	4.0	146	5	2.58	2156	6	50	2.347	32	741	12
1036	0.7	0.75	439	0.2	3.5	129	5	4.89	8919	1	39	1.889	52	710	32

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
1037	21H1	20	409126	4993951	4	6	1W	DMW	H
1038	11D13	20	451433	4976763	7	8	1N	DMW	COH
1039	11D13	20	447887	4972685	7	8	0	DMW	COG
1040	11D13	20	447723	4974544	6	8	0	DMW	COH
1041	11D13	20	445347	4977751	7	9	-	-	COG
1043	11D13	20	446263	4981788	6	8	0	MMW	COG
1045	21H1	20	413479	4991326	5	6	1S	DMW	LCSV
1046	21H1	20	413570	4993467	5	6	1S	MMW	EC
1047	21H1	20	412267	4994068	4	6	1SE	DMW	EC
1048	21H1	20	410555	4995705	5	6	1E	DMW	H
1049	21H1	20	410264	4998341	4	6	1W	DMW	EC
1050	21H1	20	412345	4998571	4	6	1NW	MMW	H
1051	21H1	20	414937	4997312	4	5	0	MMW	EC
1052	21H1	20	417944	4994834	4	5	0	DMW	EC
1053	21H1	20	418755	4997101	5	6	0	DMW	EC
1054	21H1	20	419329	4998961	4	6	0	DMW	EC
1055	21H1	20	420588	5001274	5	7	0	DMW	LCSV
1056	11E4	20	421827	5004230	5	7	0	DMW	LCSV
1057	21H1	20	420745	5006016	5	7	0	DMW	EC
1058	11D13	20	442707	4981427	5	7	2NW	WMW	COG
1059	11E4	20	443824	4984116	5	6	0	DMW	COG
1060	11E4	20	444923	4986013	5	6	2SE	DMW	COG
1061	11E4	20	445701	4988218	5	7	1NW	DMW	COH
1062	11E4	20	446150	4991595	5	7	3SW	DMW	H
1063	11E4	20	446973	4992744	5	6	-	DMW	COH
1064	11E4	20	446690	4996433	4	7	1NW	DMW	COH
1065	11E4	20	447444	4997670	5	7	1NW	DMW	H
1066	11E4	20	450810	4998135	6	8	1W	MML	H
1067	11E4	20	447995	5000083	4	6	1W	DMW	H
1068	11E4	20	447624	5001629	5	7	0	MML	EC

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
1037	2.32	21	2.9	5400	22	21.4	9	4	8	0.6	<0.03	0.43	1.5	21.10	5.0	<0.05	3260	<5	66	0.7	1.2	<2	0.7	950	1.0	<0.1	<1	0.40	2400
1038	1.72	102	6.1	2400	28	17.2	6	4	7	0.9	<0.03	0.26	0.6	29.50	4.7	<0.05	1340	<5	300	0.6	0.6	7	0.4	1100	0.4	<0.1	2	0.35	2800
1039	2.06	29	2.2	1900	61	16.9	5	10	8	3.3	<0.02	0.23	0.7	24.40	5.5	<0.05	2250	<5	360	0.6	0.6	<2	0.4	1200	0.5	<0.1	<1	0.23	2000
1040	2.15	16	1.9	2900	74	18.0	4	6	5	1.5	<0.02	0.22	0.8	22.00	3.4	<0.05	2060	<5	270	0.6	0.5	<2	0.3	1200	0.2	<0.1	<1	<0.05	3000
1041	2.23	13	2.1	1700	110	18.0	5	7	7	1.4	<0.02	0.27	<0.5	26.50	4.5	<0.05	1770	<5	250	0.6	0.7	<2	0.4	1200	0.4	<0.1	<1	0.31	1600
1043	2.22	<5	3.2	2200	93	17.2	5	4	5	6.1	<0.02	0.22	0.7	24.80	3.0	<0.05	2290	<5	440	0.6	0.6	<2	0.3	530	0.2	<0.1	<1	<0.05	2700
1045	2.27	14	2.9	3200	91	17.5	8	6	7	0.8	<0.02	0.32	1.5	26.10	4.2	0.08	1790	<5	140	0.4	0.9	<2	0.6	610	0.8	<0.1	<1	0.40	2000
1046	2.09	86	3.2	3600	71	13.8	3	3	4	<0.5	<0.02	0.23	1.0	33.90	2.7	<0.05	1590	<5	120	0.4	0.6	<2	0.4	800	0.3	<0.1	3	<0.05	1900
1047	2.01	15	2.2	5400	93	21.0	7	5	5	0.9	<0.03	0.31	<0.5	21.70	3.8	<0.05	2010	<5	140	0.5	0.8	<2	0.6	1500	0.6	<0.1	<1	0.32	3300
1048	2.23	18	1.4	3700	150	17.4	3	5	5	<0.5	<0.03	0.24	1.0	28.50	2.9	<0.05	1700	<5	160	0.3	0.7	<2	0.3	1100	0.5	<0.1	3	<0.05	2000
1049	2.38	10	3.0	2500	100	18.7	5	8	7	0.7	<0.02	0.26	<0.5	25.70	3.3	0.06	1730	<5	110	0.5	0.9	<2	0.4	1100	0.5	<0.1	<1	0.32	1900
1050	2.18	13	2.9	4900	110	19.0	4	4	<1	<0.5	<0.02	0.18	<0.5	29.30	2.4	<0.05	1800	<5	100	0.5	0.5	<2	0.3	940	<0.1	<0.1	<1	<0.05	2000
1051	2.26	<5	2.5	3000	100	16.3	4	5	5	1.1	<0.02	0.22	<0.5	24.90	2.3	<0.05	1330	<5	160	0.5	0.6	<2	0.3	620	0.5	<0.1	<1	<0.05	1700
1052	2.02	6	2.5	3400	120	10.8	3	11	5	0.8	<0.02	0.22	<0.5	32.90	2.3	<0.05	1350	<5	460	0.3	0.5	<2	0.3	1100	<0.1	<0.1	<1	<0.05	1700
1053	2.33	<5	4.7	3500	150	17.1	7	9	7	1.2	<0.02	0.26	1.3	32.70	3.1	0.05	2970	<5	220	0.3	0.8	<2	0.4	400	0.6	<0.1	<1	<0.05	1900
1054	1.97	8	3.2	2700	39	12.3	5	5	5	1.1	<0.02	0.32	0.8	29.60	3.2	0.06	1690	<5	240	0.4	0.8	<2	0.5	630	0.3	<0.1	<1	0.32	2000
1055	2.00	8	5.1	4900	88	16.0	5	9	<1	<0.5	<0.02	0.23	<0.5	25.60	2.8	0.06	1960	<5	270	0.5	0.7	<2	0.4	930	0.6	<0.1	<1	0.23	1400
1056	2.16	<5	8.0	7600	61	13.1	15	9	13	1.5	0.30	0.75	3.1	24.00	8.0	0.15	3300	<5	340	0.8	2.2	<2	1.2	790	1.5	1.0	<1	0.75	2000
1057	2.22	9	4.0	4700	71	18.4	7	5	7	<0.5	<0.02	0.35	1.4	27.40	4.2	0.09	2780	<5	80	0.6	1.1	<2	0.6	630	0.6	<0.1	<1	0.30	1700
1058	1.69	<5	2.6	980	45	15.6	3	3	6	3.9	0.15	0.20	<0.5	30.40	3.2	<0.05	1660	<5	600	0.6	0.5	<2	0.3	1400	0.3	0.4	<1	0.17	2000
1059	2.09	<5	5.0	1800	120	15.1	7	7	5	2.5	0.25	0.38	1.0	28.10	4.1	0.09	1560	<5	370	0.5	1.0	7	0.6	1100	0.9	0.5	<1	0.44	1500
1060	1.93	8	2.2	3500	25	15.4	6	6	<1	3.2	<0.02	0.20	<0.5	25.00	2.7	<0.05	1230	<5	370	0.4	0.5	<2	0.3	1100	0.4	<0.1	<1	0.17	2100
1061	2.05	13	3.7	2000	26	15.6	5	5	4	1.9	<0.02	0.22	0.5	28.70	3.2	<0.05	2050	<5	340	0.6	0.6	<2	0.4	990	0.3	<0.1	<1	0.25	1900
1062	1.91	22	2.8	2200	32	15.0	6	5	6	1.1	<0.02	0.23	0.8	23.30	3.5	<0.05	1390	<5	310	0.8	0.8	<2	0.4	650	0.5	<0.1	<1	0.14	2000
1063	1.71	11	4.7	2500	36	16.3	5	7	5	2.4	<0.02	0.22	<0.5	24.20	3.4	0.05	2120	<5	390	0.7	0.6	<2	0.3	900	0.3	<0.1	<1	0.26	2700
1064	2.27	21	7.4	2900	49	10.6	15	5	12	3.5	0.20	0.72	1.7	27.50	8.6	0.12	3540	9	440	0.6	2.1	<2	1.2	800	1.7	<0.1	<1	0.77	1800
1065	2.04	11	7.9	3000	38	13.2	20	7	13	12.0	0.40	0.79	2.3	24.00	10.0	0.17	2390	8	320	0.9	2.5	<2	1.5	1200	2.1	0.8	<1	0.95	1500
1066	2.58	<5	5.3	770	23	17.3	24	5	22	3.2	0.47	1.05	2.3	21.60	11.0	0.19	1920	12	150	0.8	3.1	<2	1.8	950	2.0	1.1	<1	1.03	1900
1067	2.09	15	3.1	3100	54	15.9	8	7	7	2.2	<0.02	0.30	1.0	26.80	3.9	<0.05	1850	<5	280	0.5	0.9	<2	0.5	1100	0.5	<0.1	<1	0.27	1800
1068	2.22	<5	3.9	1600	58	15.3	16	11	12	3.6	0.23	0.58	2.0	23.60	7.4	0.14	2860	11	470	0.6	1.9	<2	1.1	1100	1.5	0.7	<1	0.73	1200

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
1037	0.6	0.59	383	0.3	4.1	169	6	4.61	10119	1	50	2.121	82	527	47
1038	2.5	0.85	530	<0.2	17.1	167	4	3.92	35175	2	86	2.583	47	605	59
1039	2.4	0.47	457	<0.2	4.0	159	4	3.40	38997	<1	70	2.077	51	795	71
1040	1.7	0.65	361	<0.2	13.8	144	4	4.41	32951	<1	64	2.267	52	647	43
1041	1.0	0.63	312	0.2	4.0	136	4	3.25	15821	1	35	1.694	50	592	40
1043	2.0	0.28	398	<0.2	14.5	151	3	2.51	32684	<1	30	2.270	52	457	23
1045	1.1	0.54	397	0.4	4.4	146	5	3.67	20172	<1	58	1.990	51	386	18
1046	0.6	0.21	374	0.3	1.3	150	3	4.06	3427	1	47	2.315	30	465	16
1047	1.4	0.55	372	0.4	6.1	156	5	4.81	13145	<1	63	1.905	60	749	31
1048	1.0	0.39	291	0.3	4.0	111	4	3.69	12617	<1	34	2.322	38	460	20
1049	1.4	0.79	329	0.5	3.4	102	5	2.46	17942	<1	61	1.862	37	550	16
1050	1.4	0.62	349	0.3	8.4	124	4	3.06	12936	<1	93	2.303	34	545	15
1051	4.0	0.42	327	0.5	7.1	130	4	2.42	48727	<1	31	1.843	40	376	16
1052	1.5	0.61	310	0.4	2.9	167	3	4.39	15058	<1	78	2.718	26	467	8
1053	1.1	0.59	284	0.4	5.4	124	4	4.48	14021	<1	75	2.054	33	539	11
1054	1.9	0.52	330	0.4	11.4	127	4	3.05	23390	<1	47	1.901	32	327	10
1055	3.1	0.51	355	0.4	9.2	144	3	3.14	41686	<1	50	1.825	32	467	10
1056	1.3	0.76	363	1	20.8	143	8	3.18	35094	<1	73	1.986	57	556	20
1057	1.0	0.72	320	0.5	12.4	171	5	3.70	13215	<1	46	2.258	57	348	24
1058	1.2	0.93	414	0.3	4.2	142	3	3.43	14053	<1	61	2.214	56	877	31
1059	1.8	0.64	308	0.4	5.2	144	5	3.40	26311	<1	42	2.497	35	538	21
1060	2.5	0.59	360	0.4	8.4	127	3	4.44	30044	<1	50	2.390	55	624	23
1061	0.9	0.46	296	0.3	4.2	116	3	3.28	9302	<1	49	1.752	39	562	20
1062	3.0	0.68	385	0.5	7.5	143	4	3.31	34683	<1	62	2.355	72	389	30
1063	2.5	0.61	388	0.6	18.8	172	5	3.34	30281	<1	198	2.182	40	532	21
1064	3.2	0.98	428	0.3	7.4	154	10	2.30	44028	<1	204	2.545	28	390	23
1065	2.0	1.05	254	0.2	5.9	128	11	2.79	32531	<1	99	1.857	51	689	19
1066	0.6	0.65	299	<0.2	3.9	84	13	3.65	10857	1	31	2.701	80	752	44
1067	1.8	0.50	310	0.4	4.8	133	5	2.96	29132	<1	56	1.977	33	576	16
1068	1.3	0.84	310	<0.2	4.9	118	7	4.15	21106	<1	39	1.745	43	562	22

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
1069	11E4	20	447236	5003672	5	6	1NW	DMW	EC
1070	11E4	20	448891	5004866	4	6	1NW	DMW	LCSV
1071	11E4	20	446902	5004764	5	7	1S	DMW	LCSV
1072	11E4	20	445578	5004357	4	7	2SE	DML	LCSV
1073	11E4	20	443917	5003413	5	6	1S	DMW	LCSV
1074	11E4	20	442329	5002013	5	7	1SE	DMW	LCSV
1075	11E3	20	469771	4988922	4	6	-	DMW	EC
1076	11E3	20	471846	4988249	4	6	2NW	DMW	EC
1077	11E3	20	474813	4989554	4	6	0	MMW	H
1078	11E3	20	473239	4990334	4	6	0	MMW	EC
1079	11E3	20	475692	4991544	5	6	1N	MMW	EC
1080	11E3	20	478621	4990943	3	5	-	MMW	COH
1081	11E3	20	477896	4993642	5	7	3S	DMW	H
1082	11E3	20	479767	4993084	3	4	1NE	DMW	COH
1083	11E3	20	474793	4995296	5	6	2SE	DMW	EC
1085	11E3	20	478563	4997326	4	5	0	WMW	EC
1086	11E3	20	480560	4997484	3	6	0	DMW	EC
1087	11E3	20	483309	4996434	4	6	1SE	MMW	H
1088	11E3	20	484347	4997942	4	7	1SE	DMW	EC
1089	11E3	20	485920	4996810	5	6	3NW	DDW	COH
1090	11E3	20	488074	4997988	5	6	3SE	DMW	H
1091	11D13	20	453114	4969949	4	6	3SW	DMW	COG
1092	11D13	20	455044	4972383	4	6	1NW	DMW	COG
1093	11D13	20	455666	4978063	5	6	0	DMW	EC
1094	11D13	20	457244	4979688	6	7	0	MMB	EC
1096	11D13	20	452216	4981921	5	6	1SE	DMW	EC
1097	11D13	20	451740	4980068	6	7	2SE	DMW	COG
1098	11D13	20	453403	4978976	4	6	0	DMW	EC
1099	11D13	20	451311	4978661	4	5	1SE	DMW	EC
1101	11E4	20	451483	4985960	6	7	1SE	DMW	COG



Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
1069	2.03	6	2.4	1800	65	14.7	6	5	6	<0.5	<0.03	0.33	<0.5	22.50	3.4	<0.05	1360	<5	140	0.4	0.9	<2	0.5	1200	0.3	<0.1	<1	<0.05	1900
1070	2.27	15	1.3	3500	97	19.3	<3	8	<1	<0.5	<0.03	0.24	<0.5	22.80	1.8	<0.05	2240	<5	70	0.3	0.5	<2	0.3	740	0.2	<0.1	<1	<0.05	1600
1071	2.16	6	1.9	3600	87	18.0	4	5	7	<0.5	0.21	0.21	0.9	26.40	2.3	<0.05	1260	<5	220	0.3	0.5	<2	0.3	670	0.2	<0.1	<1	0.17	1600
1072	1.93	8	3.0	1700	150	13.9	10	8	11	4.2	<0.03	0.47	1.5	26.80	5.7	0.07	2450	<5	560	0.6	1.3	<2	0.9	910	0.7	0.5	<1	0.43	2000
1073	2.15	5	2.4	3100	60	18.9	9	8	7	<0.5	<0.03	0.42	1.0	19.40	4.7	0.06	3040	<5	210	0.7	1.0	<2	0.8	710	0.7	<0.1	<1	0.35	2600
1074	2.21	<5	2.0	1800	80	15.7	6	13	6	<0.5	<0.03	0.28	<0.5	26.00	3.5	0.06	1170	<5	140	0.5	0.7	<2	0.5	1000	0.2	<0.1	<1	0.32	1800
1075	2.48	8	3.7	2700	62	15.0	10	9	11	1.0	<0.03	0.54	1.6	21.10	6.7	0.12	2800	<5	130	0.5	1.5	<2	1.0	560	0.9	<0.1	<1	0.37	2500
1076	2.13	12	2.4	3100	110	17.6	5	5	5	1.1	<0.03	0.28	<0.5	23.90	2.7	<0.05	1040	<5	220	0.4	0.5	<2	0.4	560	0.2	<0.1	<1	0.30	2200
1077	2.24	<5	2.8	3900	66	16.2	7	10	9	<0.5	0.15	0.36	<0.5	24.30	4.0	<0.05	2260	<5	160	0.6	0.9	<2	0.6	870	0.6	<0.1	<1	0.22	1900
1078	1.52	14	3.9	1600	58	15.7	24	21	14	2.7	0.45	0.97	2.8	21.20	11.0	0.17	2090	9	430	0.6	2.3	<2	2.0	670	1.9	0.9	<1	1.04	1900
1079	1.89	<5	2.9	940	86	10.9	4	6	3	2.1	<0.03	0.25	<0.5	28.70	2.7	<0.05	1330	<5	420	0.3	0.6	<2	0.4	700	<0.1	<0.1	<1	<0.05	2000
1080	2.40	22	3.2	330	39	13.7	5	3	5	5.5	<0.03	0.29	<0.5	27.60	3.0	<0.05	1610	<5	310	0.4	0.7	<2	0.4	450	0.3	<0.1	<1	0.20	2200
1081	2.29	<5	3.0	2800	48	15.4	14	5	12	<0.5	0.23	0.62	1.7	22.10	7.0	0.12	1980	<5	93	0.7	1.6	<2	1.3	<300	1.1	0.6	<1	0.58	1500
1082	2.26	9	2.0	1700	39	14.0	4	8	4	0.9	<0.02	0.19	<0.5	27.30	2.1	<0.05	620	<5	340	0.4	0.4	<2	0.3	<300	0.2	<0.1	<1	0.16	1800
1083	2.17	8	3.1	3000	160	19.8	7	8	8	1.6	<0.03	0.35	<0.5	24.30	3.8	<0.05	978	<5	180	0.5	0.8	3	0.5	<300	0.6	<0.1	<1	0.27	2800
1085	2.48	15	2.0	3300	39	16.7	5	4	6	1.1	<0.02	0.25	<0.5	20.70	3.0	<0.05	1700	<5	200	0.5	0.6	<2	0.4	730	0.4	<0.1	<1	0.17	2600
1086	2.37	<5	2.4	5500	37	13.3	4	10	6	1.0	<0.02	0.26	<0.5	28.00	3.0	<0.05	1210	<5	370	0.4	0.6	<2	0.4	800	0.3	<0.1	<1	0.18	1700
1087	1.97	6	2.9	1900	52	18.1	7	5	9	1.9	0.12	0.26	<0.5	25.90	3.3	<0.05	1110	<5	210	0.5	0.6	2	0.4	770	<0.1	<0.1	<1	0.31	2000
1088	2.48	<5	4.1	2900	40	15.1	20	7	15	2.1	0.46	1.04	2.6	21.20	11.0	0.18	2100	13	270	0.4	2.6	<2	2.0	<300	1.9	<0.1	<1	0.93	1700
1089	1.95	14	2.4	2700	51	12.2	6	5	7	7.0	<0.03	0.41	0.8	22.30	4.3	0.08	1230	<5	410	0.6	1.0	2	0.7	1000	0.6	<0.1	<1	0.23	3000
1090	1.99	<5	3.2	3600	66	17.2	8	8	9	1.3	<0.03	0.53	1.2	20.00	5.8	0.09	1460	<5	150	0.6	1.3	<2	0.9	1000	0.9	<0.1	<1	0.44	2400
1091	2.59	24	3.4	2000	56	19.6	10	5	14	1.5	<0.03	0.60	1.2	17.40	6.4	<0.05	2250	<5	260	1.1	1.1	<2	0.7	1200	0.5	0.9	<1	0.39	3000
1092	2.23	<5	2.6	1400	100	18.0	5	5	8	<0.5	<0.03	0.28	0.5	24.50	2.9	0.06	2190	<5	190	0.7	0.6	3	0.4	<300	0.1	<0.1	<1	<0.05	2100
1093	1.79	13	2.7	2800	53	19.7	6	9	10	<0.5	0.18	0.35	0.8	23.60	4.3	0.09	1190	<5	120	0.6	0.9	<2	0.6	<300	0.5	<0.1	<1	0.27	2700
1094	2.34	14	3.0	2100	39	21.7	10	8	10	1.1	0.24	0.52	1.3	18.90	6.3	<0.05	2270	<5	120	0.7	1.2	<2	0.9	980	0.7	<0.1	<1	0.40	2200
1096	2.29	15	4.2	2200	42	12.3	10	5	10	2.9	<0.03	0.57	1.4	25.70	5.8	<0.05	1650	<5	500	0.6	1.4	<2	0.9	880	0.9	<0.1	<1	0.51	1800
1097	2.37	<5	3.7	1700	80	18.9	5	6	6	<0.5	<0.03	0.26	<0.5	25.50	2.8	<0.05	836	<5	250	0.3	0.5	<2	0.4	1200	0.1	<0.1	2	<0.05	1600
1098	2.68	<5	2.6	3400	55	14.9	10	7	<1	0.6	<0.03	0.51	1.6	24.50	6.2	0.08	2010	<5	280	0.4	1.5	<2	1.0	850	0.7	<0.1	<1	0.39	1900
1099	1.90	<5	4.3	2800	120	21.2	9	6	6	1.0	<0.04	0.50	<0.5	21.40	5.4	0.09	1350	<5	190	0.3	1.1	<2	0.8	1100	0.8	<0.1	<1	0.35	2300
1101	1.88	13	3.0	2800	74	18.7	6	9	7	3.4	<0.03	0.37	0.7	23.70	3.1	<0.05	1570	<5	520	0.5	0.9	<2	0.4	1300	<0.1	<0.1	4	0.33	2300

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
1069	1.3	0.72	308	0.4	12.7	134	4	3.72	25224	<1	69	2.174	24	740	10
1070	0.9	0.55	334	0.2	12.5	142	5	3.53	14226	<1	85	2.324	34	404	9
1071	0.9	0.48	338	0.3	5.3	142	3	3.91	16307	<1	60	2.260	30	494	11
1072	0.8	1.08	385	0.5	3.9	147	5	4.70	18420	<1	102	2.630	48	631	30
1073	0.6	0.93	344	0.5	9.4	150	5	5.89	15259	<1	63	2.301	123	570	32
1074	0.5	0.68	463	0.5	7.2	138	4	4.04	20846	<1	61	1.947	37	597	15
1075	0.7	1.01	363	0.6	11.6	159	7	3.53	28661	<1	61	2.391	53	456	22
1076	0.9	0.73	382	0.3	8.3	121	3	4.21	22718	<1	65	2.517	51	399	22
1077	0.8	0.83	369	0.3	5.5	152	5	4.12	21012	<1	51	2.864	53	511	25
1078	1.1	0.83	501	0.4	4.4	123	10	3.31	24830	<1	173	2.160	39	573	20
1079	2.3	0.76	478	0.5	6.4	170	3	4.21	34846	<1	99	2.564	36	384	19
1080	1.7	0.66	333	0.4	10.0	132	4	3.99	18995	<1	44	3.445	44	262	30
1081	1.5	0.84	325	0.2	6.1	120	7	3.56	14876	<1	29	2.437	60	339	27
1082	2.5	0.56	284	0.4	11.9	134	3	2.82	26025	<1	55	2.754	38	331	14
1083	1.9	0.62	311	0.5	7.6	102	4	3.16	19603	<1	52	1.723	56	257	24
1085	1.2	0.51	335	0.4	14.1	132	3	2.53	15503	<1	37	1.743	39	444	20
1086	3.2	0.58	277	0.6	12.4	156	3	2.18	34786	<1	42	2.311	38	495	19
1087	1.8	0.54	350	0.5	3.5	133	3	3.97	17720	<1	62	1.793	51	454	23
1088	1.8	0.79	302	0.2	6.0	134	9	2.75	23303	<1	48	1.506	32	373	18
1089	2.8	0.64	366	0.5	10.4	166	5	2.70	50531	<1	59	3.400	69	597	26
1090	1.2	0.92	385	0.6	10.2	169	5	4.01	29573	<1	81	2.931	70	673	27
1091	1.9	0.73	325	<0.2	14.3	132	4	3.16	36320	<1	68	2.073	95	755	83
1092	1.5	0.45	361	0.2	9.2	169	3	3.12	35253	<1	41	2.696	73	369	26
1093	0.7	0.46	476	0.5	12.8	196	3	3.53	23092	<1	37	2.282	79	368	43
1094	1.2	0.51	405	0.5	5.2	142	4	2.72	19598	<1	31	1.805	73	620	47
1096	2.5	0.67	373	0.7	9.1	119	5	2.89	36098	<1	54	2.773	66	579	38
1097	0.8	0.62	313	0.4	8.9	129	3	2.61	12508	1	72	2.620	31	804	19
1098	1.7	0.62	328	0.6	10.0	134	5	3.27	19456	<1	58	2.325	32	397	21
1099	1.7	0.67	411	0.6	10.1	156	5	4.32	15846	<1	54	1.980	57	507	49
1101	2.4	1.02	386	0.6	8.0	142	4	4.22	20786	<1	102	2.079	38	795	20

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
1102	11E4	20	450909	4983899	4	6	2E	DMW	COG
1103	11E6	20	466992	5019591	4	6	2NE	DMW	H
1105	11E6	20	463917	5013726	4	6	2SE	MOW	EC
1106	11E6	20	465184	5012207	4	5	3W	MMW	EC
1107	11E6	20	467467	5013715	5	6	1N	MMW	EC
1109	11E5	20	457662	5018292	3	6	0	WOS	EC
1111	11E5	20	450404	5017600	7	9	-	MMW	LT
1113	11E5	20	445298	5015837	7	10	3N	MMW	H
1114	11E5	20	441742	5013663	5	6	1N	DMW	H
1115	11E5	20	436997	5015877	4	7	0	DMW	LT
1116	11E4	20	450373	4993890	4	5	0	DOW	H
1117	11E4	20	449584	4995460	5	6	1NE	DOW	COH
1118	11E4	20	454633	4998646	7	9	0	DMW	COH
1119	11E4	20	455427	5000557	5	6	0	DMW	H
1120	11E4	20	453257	5000186	5	7	0	DMW	H
1121	11E4	20	451822	4999899	5	6	0	DMW	H
1122	11E4	20	450768	5001386	4	6	0	MMW	H
1123	11E4	20	452982	5002598	4	5	1W	DMW	H
1124	11E4	20	452112	5004819	4	6	1NW	DMW	EC
1125	11E4	20	456739	5002887	5	6	0	MML	H
1126	11E4	20	454347	5003398	5	7	1NE	DMW	H
1127	11E4	20	454364	5006576	5	6	0	MMW	H
1129	11E4	20	444292	5009161	7	8	1S	DMW	EC
1130	11E3	20	463915	4995360	5	7	0	DMW	EC
1131	11E3	20	463547	4997730	4	5	0	MMW	EC
1132	11E3	20	462363	5001878	4	5	2W	DOF	H
1133	11E3	20	461613	4999550	5	6	1SW	DMW	H
1134	11E3	20	461314	4996917	4	5	0	DMW	EC
1135	11E3	20	467994	5009218	5	7	3N	DMW	EC
1136	11E3	20	468458	5006991	4	6	1W	DMW	EC

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
1102	2.27	11	3.6	2800	62	18.1	13	7	7	1.4	<0.03	0.43	<0.5	25.80	6.0	0.09	1640	<5	410	0.4	1.1	<2	0.9	500	0.6	<0.1	<1	0.24	2300
1103	-	7	2.1	5100	64	20.7	5	4	7	0.6	<0.03	0.33	<0.5	20.60	3.9	0.06	1970	<5	160	0.5	0.8	<2	0.6	630	0.4	<0.1	<1	<0.05	1700
1105	2.67	34	3.2	2600	50	16.4	19	5	13	1.4	0.33	0.78	2.3	20.60	9.7	0.17	3970	14	160	0.6	2.4	<2	1.8	690	1.2	<0.1	<1	0.85	1300
1106	1.98	17	2.7	3700	68	20.8	7	.3	6	<0.5	<0.03	0.39	1.5	20.00	4.3	<0.05	1580	17	36	0.3	1.1	<2	0.8	600	0.7	0.5	<1	0.47	1900
1107	2.13	10	2.2	4200	64	13.5	4	6	5	1.3	<0.03	0.20	<0.5	28.10	3.0	<0.05	1250	8	300	0.6	0.5	<2	0.3	<300	0.4	<0.1	<1	<0.05	1600
1109	3.62	14	15.0	1800	27	10.5	49	13	35	2.3	0.79	2.20	4.2	20.20	23.0	0.39	4340	24	190	0.9	6.1	<2	4.5	<300	3.9	1.3	<1	2.08	1400
1111	1.87	7	4.0	3700	74	18.5	6	6	8	1.1	<0.03	0.38	1.4	22.90	4.0	0.07	5650	<5	75	0.6	0.9	<2	0.6	1100	0.5	<0.1	<1	0.30	2900
1113	2.36	5	4.4	3000	53	21.9	11	6	10	0.9	<0.03	0.50	1.2	17.80	5.3	0.08	1730	<5	78	0.6	1.4	<2	1.0	800	1.1	<0.1	<1	0.51	1400
1114	2.48	<5	3.4	1200	90	15.8	6	6	3	0.7	<0.03	0.24	<0.5	26.20	2.2	<0.05	1990	<5	100	0.4	0.7	<2	0.4	690	0.4	<0.1	<1	<0.05	2100
1115	1.80	13	4.3	3200	120	11.9	10	15	13	1.5	<0.03	0.54	1.6	26.80	6.8	0.13	13100	<5	220	0.8	1.6	<2	1.1	950	0.9	<0.1	<1	0.38	2400
1116	1.85	<5	2.0	2000	53	12.3	7	6	7	9.8	0.22	0.38	0.8	25.70	3.3	<0.05	1190	9	720	0.6	0.9	2	0.5	510	0.4	<0.1	<1	0.22	3200
1117	1.99	10	3.0	2100	90	12.9	5	13	8	6.0	<0.02	0.19	0.8	28.70	2.4	<0.05	787	<5	870	0.5	0.5	<2	0.3	1500	0.4	<0.1	<1	0.25	2700
1118	1.94	10	4.9	1100	74	15.2	11	6	9	5.4	<0.02	0.46	1.0	23.20	6.2	<0.05	2250	<5	350	1.2	1.3	<2	0.8	780	0.8	<0.1	<1	0.47	2100
1119	2.58	12	4.2	1700	73	11.8	13	7	12	4.1	0.34	0.56	1.7	26.40	7.5	0.13	1820	10	290	0.6	1.9	<2	1.1	690	1.5	<0.1	<1	0.70	2100
1120	2.31	6	3.9	6300	63	17.7	15	4	10	3.5	0.30	0.54	2.4	20.10	8.3	0.13	1390	9	310	0.7	1.9	3	1.2	1400	1.7	0.9	<1	0.73	3000
1121	2.57	<5	4.4	2500	70	18.4	18	7	12	3.0	0.40	0.63	2.0	22.40	9.5	0.17	1680	14	210	0.6	2.2	<2	1.4	940	1.6	0.5	<1	0.69	1600
1122	2.56	<5	3.5	3300	80	14.2	14	12	10	2.6	0.25	0.63	2.3	24.10	7.6	0.12	1320	7	330	0.5	1.9	<2	1.2	840	1.4	0.6	<1	0.78	1900
1123	2.33	7	2.5	1600	24	11.7	10	5	7	2.1	0.15	0.32	1.5	30.40	4.1	0.09	1480	8	450	0.4	1.1	<2	0.6	680	0.7	<0.1	<1	0.44	1900
1124	2.32	9	4.9	1900	83	16.5	6	6	7	1.4	<0.02	0.35	1.2	27.70	4.0	0.07	1830	<5	150	0.8	0.9	<2	0.5	500	0.3	0.7	<1	0.37	1800
1125	2.14	<5	3.2	1700	73	14.8	6	4	6	2.9	<0.02	0.23	0.9	29.00	3.4	0.08	1400	7	320	0.4	0.7	<2	0.5	1200	0.5	<0.1	<1	0.35	1800
1126	2.14	7	3.8	4200	78	18.1	7	5	5	1.4	<0.02	0.26	1.5	23.20	3.6	0.06	1520	<5	260	0.6	0.8	5	0.4	680	0.4	<0.1	<1	0.33	1900
1127	1.91	5	2.7	4500	24	18.1	4	3	3	1.3	<0.02	0.19	<0.5	23.60	2.4	<0.05	1350	<5	320	0.5	0.5	<2	0.3	720	<0.1	<0.1	<1	0.22	2100
1129	2.88	9	14.0	1600	20	14.2	37	10	27	2.3	0.67	1.73	3.2	17.80	16.0	0.31	3800	20	160	1.2	5.1	<2	2.7	750	3.6	1.0	<1	1.61	2100
1130	2.24	7	2.9	1800	18	20.8	8	4	7	2.4	<0.02	0.29	0.9	24.30	3.9	<0.05	1440	<5	300	0.7	0.8	<2	0.5	2000	0.4	<0.1	<1	0.24	2200
1131	2.19	<5	4.2	1200	24	17.0	18	5	15	6.5	0.35	0.80	1.9	26.10	9.2	0.17	2780	11	460	1.2	2.4	<2	1.4	980	1.4	0.6	<1	0.86	2700
1132	2.30	5	4.7	4600	18	18.4	15	12	13	1.1	0.31	0.56	2.0	21.30	9.8	0.10	2570	<5	82	1.0	1.7	<2	1.2	750	1.4	<0.1	<1	0.58	1700
1133	2.04	<5	2.8	2700	14	17.7	7	10	4	1.9	0.17	0.31	1.4	24.50	3.8	0.08	1390	<5	580	0.5	0.8	<2	0.5	1100	0.5	0.4	<1	0.28	1800
1134	2.64	9	4.2	2600	22	20.7	13	6	7	3.3	<0.02	0.54	1.7	22.50	7.1	0.13	2160	<5	340	0.8	1.7	<2	1.1	920	1.4	<0.1	<1	0.66	1900
1135	2.60	<5	3.8	3400	20	20.7	19	5	12	<0.5	0.43	0.74	2.2	18.60	8.8	0.18	3350	<5	37	0.6	2.1	<2	1.6	<300	1.9	0.8	<1	1.02	1400
1136	3.30	<5	5.2	2500	16	17.5	32	8	20	2.6	0.56	1.44	3.5	19.90	16.0	0.28	3760	14	180	0.8	4.0	<2	2.6	390	3.4	1.0	<1	1.77	1500

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
1102	1.6	0.67	363	0.5	10.6	144	4	3.47	18003	<1	50	1.941	64	425	29
1103	0.9	0.64	340	0.5	7.4	126	4	5.13	13499	<1	43	2.635	34	298	15
1105	0.6	0.97	304	0.3	4.7	109	8	4.04	7698	1	35	2.975	50	466	32
1106	0.4	0.25	331	0.4	11.1	139	4	3.33	1135	<1	9	2.196	32	294	9
1107	2.3	0.77	349	0.4	12.5	154	3	3.77	26862	<1	42	2.931	47	402	12
1109	0.5	1.40	175	<0.2	5.2	93	21	3.12	7056	1	52	1.884	38	365	18
1111	0.3	0.99	352	0.6	8.7	212	3	3.77	14885	<1	48	2.902	58	675	21
1113	0.5	0.70	312	0.5	6.3	114	7	4.04	5887	1	34	1.659	66	606	20
1114	1.2	1.03	371	0.4	9.6	154	6	4.82	13705	<1	69	3.345	38	480	13
1115	2.6	0.92	357	0.3	9.7	196	9	4.18	21155	<1	38	2.736	57	563	34
1116	2.7	0.79	456	0.6	7.6	153	6	3.81	22971	<1	92	2.272	43	498	26
1117	2.9	0.81	353	0.5	15.1	177	4	3.47	23053	<1	108	3.378	31	754	13
1118	3.7	0.94	425	0.7	3.2	168	8	3.69	34206	<1	69	2.107	103	447	56
1119	4.5	0.84	349	0.4	10.8	135	10	2.09	45515	<1	38	1.933	43	388	23
1120	4.2	0.72	416	0.5	25.9	143	11	2.96	35664	<1	98	1.899	56	632	26
1121	2.4	1.04	242	0.3	3.7	98	14	2.02	21183	<1	48	1.839	41	498	35
1122	2.0	0.94	307	0.4	4.3	119	11	3.34	19841	<1	54	2.309	36	492	14
1123	3.8	0.60	316	0.7	15.2	140	7	1.87	37887	<1	57	2.026	38	267	14
1124	2.0	0.69	362	0.5	5.0	166	6	2.74	19103	<1	30	2.751	56	298	25
1125	4.4	0.55	357	0.8	10.5	157	5	2.28	42484	<1	103	1.919	44	623	14
1126	2.8	0.43	293	0.6	13.8	140	6	3.66	25179	<1	41	2.330	56	481	23
1127	2.8	0.45	405	0.4	7.2	163	5	3.36	26785	<1	39	2.376	53	364	16
1129	0.6	0.95	261	<0.2	5.8	121	20	3.10	12814	1	39	1.410	51	334	26
1130	1.0	0.37	381	0.4	4.1	166	6	3.63	12956	<1	45	1.930	53	1243	27
1131	0.8	0.91	342	<0.2	5.1	143	8	4.64	11797	1	58	2.971	77	464	38
1132	1.3	0.89	319	<0.2	10.2	139	8	2.28	25613	<1	65	2.737	82	356	77
1133	1.5	0.69	310	0.4	8.4	132	6	3.87	33767	<1	56	2.232	57	638	20
1134	1.0	0.72	302	<0.2	9.8	147	7	3.33	16252	<1	37	2.074	56	494	27
1135	<0.1	0.56	291	<0.2	4.7	129	9	3.20	1666	1	28	2.545	44	171	17
1136	0.3	1.23	231	<0.2	7.0	110	15	2.65	8700	<1	33	2.076	36	304	19

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
1137	11E3	20	471043	5006422	5	6	0	DMW	EC
1138	11E3	20	469148	5005471	4	5	2SW	DMW	EC
1139	11E3	20	468963	5003574	5	6	1W	DMW	EC
1140	11E3	20	469828	5002129	4	5	1W	DMW	EC
1141	11E3	20	471833	4999711	6	7	-	-	EC
1142	11E3	20	473832	5002763	5	7	1SE	DMW	EC
1143	11E3	20	474221	5006731	5	6	0	DMW	EC
1145	11D13	20	431186	4979566	7	10	3SW	DMW	COG
1146	11D13	20	430469	4978039	5	6	3W	DMW	COG
1147	11D13	20	433905	4978375	7	9	2SE	DMW	COG
1148	11D13	20	433638	4981219	5	8	1NE	DMW	COG
1149	11E4	20	435248	4983519	5	9	1N	DMW	COG
1150	11E4	20	436353	4985382	5	7	2W	DMW	COH
1151	11E4	20	435174	4986937	6	7	0	DMW	COH
1152	11E4	20	436969	4987662	6	8	2N	DMW	COH
1153	11E4	20	438468	4987060	6	9	1S	DMW	COH
1154	11E4	20	438938	4987058	5	7	2SW	DMW	COH
1155	11E4	20	437650	4989236	3	6	0	DOS	COH
1156	11E4	20	438953	4989672	4	6	1NW	DMW	COH
1158	11E4	20	434766	4991331	5	7	0	DMW	H
1159	11E4	20	434145	4990470	4	5	1NW	DMW	H
1160	11E4	20	433310	4994070	5	7	0	DMW	LCSV
1161	11E4	20	431573	4993416	7	9	2N	DMW	LCSV
1163	11E4	20	430260	4993133	6	7	-	-	LCSV
1164	11E4	20	426730	4993574	6	8	1SE	DMW	LCSV
1165	11E4	20	426080	4993215	6	9	0	DMF	LCSV
1167	11E4	20	423794	4990312	6	8	-	-	LCSV
1170	21H1	20	412503	4985307	4	6	2SW	DMW	EC
1172	21H1	20	416275	4986978	4	5	1NE	DMW	EC
1173	21H1	20	418312	4986099	6	8	0	DMW	EC

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
1137	2.02	11	2.3	3500	22	16.5	<3	3	22	<0.5	<0.03	0.15	<0.5	29.40	1.7	<0.05	1220	<5	180	0.4	0.3	<2	0.2	540	<0.1	<0.1	<1	<0.05	1600
1138	2.15	<5	2.7	2400	13	22.0	14	4	7	0.7	0.20	0.45	1.5	18.40	6.2	0.11	2730	<5	65	0.6	1.2	<2	0.9	1000	1.1	<0.1	<1	0.46	2200
1139	2.05	<5	3.5	1600	21	18.2	7	7	7	1.1	<0.02	0.32	0.9	24.90	4.1	0.05	2020	<5	360	0.7	0.9	<2	0.6	650	0.8	<0.1	<1	0.45	1900
1140	2.81	5	2.8	2400	21	16.8	6	5	5	0.9	0.12	0.27	<0.5	29.30	3.5	<0.05	1500	<5	160	0.5	0.6	5	0.4	570	0.3	<0.1	<1	0.26	1700
1141	2.19	<5	3.6	2300	31	18.5	9	5	8	1.8	<0.02	0.39	1.2	25.20	5.1	0.08	3440	<5	410	0.9	1.1	<2	0.7	1000	0.8	<0.1	<1	0.36	1800
1142	2.16	<5	3.3	2300	25	19.7	10	10	8	<0.5	0.19	0.35	1.1	26.20	4.7	0.08	2670	<5	100	0.5	0.9	<2	0.7	760	0.6	<0.1	<1	0.38	2100
1143	2.65	22	6.4	1700	23	14.2	36	8	22	1.7	0.84	1.33	2.5	23.20	17.0	0.29	5930	22	140	0.7	4.5	<2	3.4	720	3.2	0.9	2	1.46	1900
1145	2.00	21	4.0	2500	36	20.2	12	5	7	4.8	<0.02	0.41	1.2	22.90	6.1	0.08	2230	7	420	0.9	1.1	<2	0.8	970	0.7	<0.1	<1	0.46	2300
1146	2.21	40	3.6	1100	27	17.1	9	8	8	<0.5	<0.02	0.32	0.8	25.20	4.2	0.06	2740	<5	150	0.5	0.9	<2	0.6	950	0.4	<0.1	<1	0.37	1800
1147	1.59	15	4.1	910	48	11.8	14	9	7	3.1	<0.03	0.40	0.6	31.10	8.7	0.07	2670	<5	490	1.0	1.2	<2	1.0	1800	0.8	<0.1	<1	0.39	2000
1148	2.08	8	2.9	2100	26	16.0	12	8	12	2.4	<0.03	0.51	1.2	20.90	5.8	0.10	2390	<5	270	0.7	1.4	<2	0.8	1000	0.8	<0.1	<1	0.39	2600
1149	1.97	8	4.3	2500	49	16.3	9	6	10	5.6	0.21	0.49	1.1	24.10	13.0	0.09	2270	9	480	0.9	1.3	<2	1.1	1200	1.1	<0.1	<1	0.52	2800
1150	2.18	7	3.1	4600	35	17.7	9	8	4	2.4	<0.02	0.26	1.2	25.50	4.4	0.06	1670	7	270	0.4	0.9	<2	0.6	1200	0.6	<0.1	2	0.30	1600
1151	2.03	<5	3.0	690	26	10.9	9	6	7	8.8	<0.02	0.40	0.8	24.70	4.0	0.08	2340	11	620	0.6	1.2	<2	0.5	970	0.5	0.7	<1	0.36	1900
1152	2.08	8	5.1	2000	56	16.8	15	13	11	4.1	<0.02	0.50	1.1	15.70	12.0	0.13	2290	10	360	0.7	1.5	<2	0.9	1100	0.9	<0.1	4	0.50	3100
1153	2.14	<5	3.9	2100	21	16.3	4	3	5	1.4	<0.02	0.21	<0.5	25.40	2.8	<0.05	1210	<5	230	0.6	0.6	<2	0.3	1100	0.2	<0.1	<1	0.17	2000
1154	2.19	<5	2.0	2800	17	17.6	3	4	4	<0.5	<0.02	0.13	<0.5	23.60	2.6	<0.05	1040	<5	210	0.3	0.4	<2	0.3	1300	0.3	<0.1	<1	0.11	1200
1155	2.33	7	3.8	2300	39	15.7	3	5	6	1.9	<0.03	0.21	<0.5	21.30	3.0	<0.05	1330	<5	240	0.6	0.6	<2	0.3	1400	<0.1	<0.1	<1	0.23	2000
1156	1.70	<5	4.4	1800	30	14.8	18	6	8	5.9	0.37	0.47	1.0	24.70	8.8	0.07	2240	<5	710	1.2	1.3	<2	0.9	1700	0.8	<0.1	<1	0.41	3200
1158	2.06	82	3.1	2000	33	17.3	5	9	4	<0.5	<0.02	0.16	<0.5	28.30	2.1	<0.05	1290	<5	110	0.5	0.5	<2	0.3	790	0.4	<0.1	<1	<0.05	1800
1159	2.15	7	3.4	2700	19	16.6	17	4	10	1.2	0.31	0.51	1.1	25.60	9.4	0.06	1960	8	210	0.5	1.3	<2	1.1	1100	1.2	0.4	<1	0.44	2700
1160	2.21	6	3.4	2500	28	14.8	5	4	6	1.4	<0.03	0.23	<0.5	28.80	3.0	0.06	1260	<5	210	0.7	0.7	<2	0.4	560	0.4	<0.1	<1	<0.05	1800
1161	1.93	<5	4.0	4600	21	17.2	6	5	7	<0.5	<0.03	0.30	<0.5	27.60	4.1	0.07	1510	<5	400	0.9	0.9	<2	0.5	<300	0.6	<0.1	<1	0.32	2300
1163	2.65	55	11.0	2500	28	11.6	35	9	22	2.3	0.61	1.44	3.7	20.30	17.0	0.29	4090	12	220	0.9	4.0	<2	2.7	580	3.2	0.6	<1	1.69	1600
1164	2.05	28	5.9	2200	35	16.3	18	5	16	1.7	0.42	0.82	1.8	20.40	9.2	0.16	3500	<5	200	0.8	2.3	<2	1.4	1000	1.7	<0.1	<1	1.02	2500
1165	2.29	10	4.4	4200	29	21.7	10	7	10	1.3	<0.03	0.48	1.1	20.60	6.6	0.12	2720	<5	190	0.6	1.5	<2	0.9	1300	1.3	<0.1	9	0.50	1400
1167	2.12	8	4.4	2800	40	20.6	5	5	7	1.2	<0.03	0.34	<0.5	21.70	3.9	<0.05	2300	<5	360	0.6	0.9	<2	0.6	1500	0.4	<0.1	7	0.29	1500
1170	2.23	8	3.6	2600	21	20.2	10	5	5	0.9	<0.02	0.32	0.6	21.90	4.7	0.06	1480	<5	52	0.4	0.9	<2	0.6	490	0.6	<0.1	<1	0.25	1900
1172	2.04	24	2.4	2300	22	19.1	9	8	6	0.9	<0.02	0.28	<0.5	21.60	3.8	<0.05	1600	6	150	0.3	0.8	<2	0.5	940	0.4	0.6	<1	<0.05	1300
1173	2.28	<5	2.9	1900	34	21.3	11	4	10	0.9	<0.03	0.37	<0.5	32.00	4.8	0.08	2050	<5	63	0.6	1.2	<2	0.7	1800	0.6	0.9	<1	0.42	1500

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
1137	<0.1	0.51	297	0.4	11.8	157	<2	3.64	15899	1	65	4.391	46	334	9
1138	0.7	0.81	333	0.6	6.0	149	7	4.59	9528	<1	37	2.064	44	565	15
1139	0.8	0.60	303	0.4	5.2	154	5	4.48	8690	<1	46	2.273	57	379	22
1140	0.8	0.41	358	0.3	5.2	120	4	3.45	11875	<1	43	1.949	29	290	17
1141	0.9	0.65	433	0.5	4.2	158	6	4.86	11457	<1	54	2.575	72	526	27
1142	1.0	0.46	317	0.5	7.7	172	5	3.96	12956	<1	53	2.030	47	365	17
1143	0.4	1.09	225	0.2	8.8	100	12	3.03	7182	<1	45	1.778	64	327	22
1145	0.7	0.71	399	0.4	7.2	155	6	4.76	18151	1	60	2.425	109	581	44
1146	0.3	0.78	391	0.3	3.9	147	5	4.00	12187	1	52	2.428	64	565	18
1147	0.1	0.93	475	0.6	3.3	188	5	5.51	14629	1	70	2.504	164	987	97
1148	1.1	0.99	329	<0.2	5.7	140	7	5.26	20244	1	58	2.670	56	665	27
1149	1.6	0.95	365	<0.2	9.8	189	7	4.30	35220	<1	62	3.058	88	722	35
1150	1.4	0.60	315	0.4	11.0	118	5	3.13	20983	<1	40	1.912	66	608	19
1151	2.3	0.62	328	0.6	5.6	143	7	4.08	55591	<1	53	3.563	39	538	18
1152	2.3	0.92	341	<0.2	29.4	148	8	3.12	43503	<1	106	2.532	77	766	32
1153	1.7	0.51	407	0.3	10.7	157	4	3.19	31432	<1	40	3.705	55	579	24
1154	0.9	0.73	312	0.3	16.0	123	4	3.43	14621	<1	34	2.804	40	757	15
1155	1.9	0.62	307	0.4	12.0	150	5	2.54	45763	<1	49	4.061	52	679	20
1156	2.0	1.01	406	0.8	10.9	218	7	4.42	36831	<1	104	3.156	76	845	30
1158	0.9	0.62	314	0.3	10.7	144	4	3.21	17476	<1	44	3.327	36	422	10
1159	0.4	0.94	345	<0.2	9.8	140	8	4.26	15111	<1	133	2.896	47	635	16
1160	0.7	0.49	366	0.3	7.4	142	4	3.40	28199	<1	32	2.219	44	429	14
1161	1.5	0.49	665	0.4	6.7	210	6	3.63	37259	<1	49	3.234	62	465	25
1163	0.1	1.16	246	<0.2	11.9	127	18	3.15	17531	1	59	2.202	37	547	18
1164	0.3	0.79	382	<0.2	6.4	145	10	4.09	21521	1	30	2.516	64	609	28
1165	0.4	0.65	303	<0.2	7.4	151	7	3.16	13976	1	37	1.971	45	771	22
1167	0.4	0.49	402	0.4	6.3	153	6	2.88	7913	1	45	2.123	60	1080	23
1170	0.3	0.47	311	0.3	12.7	131	5	3.06	5984	<1	32	1.971	28	442	26
1172	0.7	0.84	347	0.4	7.2	157	6	3.75	15874	<1	43	2.301	36	680	16
1173	0.2	0.37	397	0.4	2.6	158	6	3.15	2725	1	21	3.157	38	1161	20



# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
1174	11E2	20	503399	4990512	3	6	1N	DMW	COH
1175	11E2	20	503904	4988688	6	9	1N	WMB	COH
1176	11E2	20	502819	4987322	4	7	1S	MMW	COH
1177	11E2	20	501350	4986453	6	9	0	DDW	COH
1178	11E2	20	502397	4984078	6	10	0	DMW	COG
1179	11E2	20	500248	4990867	4	7	3SE	DMW	COG
1180	11E2	20	500392	4988747	4	8	2SE	DDW	COH
1181	11E2	20	503007	4992728	6	9	1W	DMW	COG
1183	11E4	20	455327	4991042	5	8	0	MMW	EC
1184	11E4	20	449526	4986317	5	7	0	MMW	COG
1185	11E4	20	441452	4984450	8	9	-	MMW	COG
1186	11E4	20	441021	4987781	5	9	0	-	COG
1187	11E4	20	441336	4998574	6	9	-	DMW	EC
1188	11E4	20	446868	5006542	8	9	0	WMW	EC
1189	11E3	20	471183	5008696	6	9	-	MMW	EC
1191	11E3	20	496286	4996317	7	11	-	MMW	COH
1192	11E3	20	486033	4993523	5	7	-	MMW	COH
1193	11E3	20	480475	4989258	5	8	-	DMW	COH
1194	11E3	20	470826	4994345	7	12	-	-	EC
1195	11E2	20	507601	4991673	6	9	-	MMB	COH
1197	11E2	20	512664	4995855	5	9	-	DDW	COH
1198	11E2	20	511629	5000397	5	8	-	MMB	COG
1199	11E2	20	510394	5001357	8	11	-	DMW	COG
1200	11E2	20	514392	5001285	6	9	-	MMB	COG
1201	11E2	20	511310	5007248	4	8	-	DMW	COH
2001	11D13	20	445703	4969571	6	6	0	DOW	COG
2002	11D13	20	445866	4969703	7	7	1SW	DMW	COG
2003	11D13	20	447951	4970554	7	7	2S	DOL	COG
2004	11D13	20	448599	4970477	7	8	1N	MMW	COG
2005	11D13	20	446920	4969148	7	8	0	MMW	COG

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
1174	1.81	13	2.5	1900	25	22.8	6	6	2	1.6	<0.02	0.17	<0.5	18.20	4.2	<0.05	1320	<5	210	0.5	0.5	<2	0.4	780	<0.1	<0.1	<1	0.23	2600
1175	2.09	7	8.2	1900	27	22.1	9	5	7	2.3	<0.02	0.27	0.9	20.40	4.9	<0.05	1390	<5	240	0.7	0.8	3	0.6	1400	0.5	<0.1	<1	0.31	1700
1176	1.67	17	3.7	2500	43	20.2	6	5	2	4.6	<0.03	0.19	0.5	23.60	3.1	<0.05	1800	<5	760	0.5	0.5	4	0.3	1100	0.2	<0.1	<1	0.35	2100
1177	2.21	35	52.0	1300	26	16.1	26	5	17	3.7	0.50	0.94	2.7	17.40	14.0	0.22	3350	12	270	1.0	2.7	<2	2.0	810	2.2	0.5	<1	1.18	1800
1178	2.00	7	3.7	2600	26	23.0	13	9	10	1.1	0.26	0.49	0.9	17.40	8.3	0.08	2080	<5	150	0.6	1.3	<2	1.0	900	0.7	0.8	<1	0.50	1800
1179	1.81	7	3.5	830	25	19.2	5	6	5	0.9	0.18	0.24	<0.5	19.90	3.2	<0.05	1640	<5	110	0.7	0.6	<2	0.3	950	0.4	<0.1	2	0.26	1800
1180	1.88	<5	3.4	1200	97	16.9	6	12	5	5.7	<0.02	0.22	<0.5	25.20	4.0	<0.05	1780	<5	400	0.6	0.6	<2	0.3	600	<0.1	<0.1	<1	0.22	2900
1181	2.00	6	3.7	3300	29	19.9	11	6	7	0.8	<0.02	0.36	0.8	23.40	6.3	0.09	1720	<5	110	0.7	1.0	<2	0.7	<300	0.5	<0.1	<1	0.44	2100
1183	2.07	<5	2.6	4200	23	26.0	6	8	3	2.2	<0.03	0.25	<0.5	23.60	3.0	<0.05	1790	<5	490	0.5	0.6	<2	0.3	770	0.1	<0.1	<1	<0.05	2000
1184	2.06	11	3.7	1700	29	19.8	4	4	6	1.7	0.22	0.52	<0.5	23.60	3.4	<0.05	1760	<5	690	0.8	0.7	<2	0.4	580	0.4	<0.1	<1	<0.05	1900
1185	1.95	<5	3.6	2100	30	23.5	7	4	5	3.0	<0.03	0.25	<0.5	21.50	4.2	<0.05	1340	<5	410	1.0	0.7	<2	0.4	950	0.4	<0.1	<1	0.29	2100
1186	2.20	7	8.4	1900	44	20.6	<3	5	<1	2.0	<0.03	0.16	<0.5	25.70	2.4	<0.05	1700	<5	440	0.6	0.5	<2	0.2	740	<0.1	<0.1	<1	<0.05	3000
1187	1.85	<5	5.0	3600	92	22.9	7	7	10	1.2	<0.04	0.28	0.7	25.10	3.7	0.07	1560	<5	100	0.6	0.7	<2	0.5	<300	<0.1	<0.1	3	<0.05	3000
1188	2.07	7	2.4	1900	23	20.6	6	4	5	7.8	0.21	0.31	1.1	24.80	3.8	0.06	1190	<5	750	0.5	0.8	<2	0.5	660	0.3	<0.1	<1	0.21	1700
1189	2.18	7	3.5	4800	36	24.6	5	14	5	0.7	<0.03	0.28	<0.5	21.90	3.4	0.07	1660	<5	93	0.6	0.7	<2	0.4	500	0.5	<0.1	<1	0.25	1600
1191	1.76	<5	2.2	1500	29	17.3	<3	4	5	3.3	<0.03	0.21	<0.5	23.50	2.5	<0.05	1080	<5	200	0.5	0.6	<2	0.3	890	0.3	<0.1	<1	<0.05	2500
1192	1.59	14	4.6	3400	41	24.3	6	3	<1	1.4	<0.03	0.27	0.9	14.90	4.6	<0.05	2040	<5	250	1.0	0.8	<2	0.4	1000	<0.1	<0.2	<1	<0.05	3800
1193	2.38	11	3.3	3200	22	20.6	5	8	5	1.2	<0.02	0.23	0.6	22.50	3.3	<0.05	1280	<5	96	0.3	0.7	<2	0.4	<300	0.3	<0.1	<1	0.25	2800
1194	1.90	8	3.4	1500	42	25.0	7	5	7	2.9	0.28	0.29	0.7	21.10	5.0	0.06	1250	<5	360	0.7	0.9	<2	0.6	1500	0.7	<0.1	<1	0.25	2500
1195	1.54	<5	2.7	650	45	17.4	6	4	6	3.0	0.20	0.24	<0.5	25.40	3.0	<0.05	1620	<5	450	0.7	0.7	<2	0.4	850	0.4	<0.1	<1	<0.05	2400
1197	1.66	15	1.7	2300	32	17.7	<3	8	<1	<0.5	<0.03	0.19	<0.5	27.70	2.6	<0.05	2000	<5	240	0.4	0.5	<2	0.3	1300	0.3	<0.1	<1	<0.05	3300
1198	2.34	<5	1.3	1000	26	23.7	<3	2	4	1.3	<0.02	0.16	<0.5	20.50	1.8	<0.05	1380	<5	600	0.3	0.4	<2	0.2	1100	<0.1	<0.1	<1	<0.05	1900
1199	1.74	7	2.5	500	32	19.4	6	2	<1	6.8	<0.02	0.15	<0.5	20.90	1.7	0.05	2020	<5	440	0.5	0.5	<2	0.2	540	0.2	<0.1	<1	<0.05	2100
1200	2.05	<5	2.6	1400	30	18.5	<3	3	4	2.0	<0.02	0.17	<0.5	28.70	2.2	<0.05	2220	<5	430	0.4	0.5	<2	0.2	1100	0.2	<0.1	<1	<0.05	2200
1201	1.81	6	1.8	1400	44	19.9	5	8	5	2.1	0.25	0.25	<0.5	20.70	7.2	<0.05	1900	<5	340	0.3	0.6	<2	0.5	1000	0.3	<0.1	<1	0.31	2500
2001	1.60	32	16.0	2100	14	18.8	5	6	6	2.1	<0.03	0.23	0.7	20.20	3.9	<0.05	1190	<5	320	0.5	0.5	<2	0.3	1000	0.2	<0.1	<1	0.16	4100
2002	1.77	21	7.3	2100	18	17.2	5	6	5	4.3	0.13	0.24	<0.5	19.90	3.7	<0.05	1210	<5	450	0.6	0.5	<2	0.3	1100	0.4	<0.1	<1	0.33	2200
2003	2.04	20	6.4	1200	18	16.4	7	4	10	13.0	<0.03	0.35	0.8	16.20	5.4	<0.05	1550	<5	580	0.6	0.9	<2	0.5	1100	0.4	<0.1	<1	0.18	2300
2004	1.66	160	5.4	3300	23	16.3	6	7	4	1.3	<0.03	0.22	0.9	23.80	4.2	<0.05	1390	<5	250	0.4	0.5	<2	0.4	1100	0.3	<0.1	<1	0.23	2000
2005	1.81	92	5.7	2300	22	20.6	6	10	6	2.5	<0.03	0.28	0.7	18.10	5.3	0.06	1080	<5	260	0.6	0.6	<2	0.4	1200	0.4	<0.1	2	0.26	2300

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
1174	1.6	0.64	414	0.3	13.9	161	5	4.39	34120	<1	72	2.453	55	591	17
1175	0.9	0.80	330	0.4	6.2	127	4	3.29	18138	1	49	1.946	80	972	22
1176	1.1	0.54	451	0.2	16.1	174	4	3.64	23526	<1	56	2.648	35	897	16
1177	0.6	0.90	353	<0.2	5.4	128	9	2.45	31988	1	46	1.978	89	612	29
1178	0.7	0.63	399	<0.2	5.3	141	7	3.04	30210	1	65	1.834	83	604	23
1179	0.4	0.90	449	0.2	10.1	147	4	5.24	28456	<1	65	2.484	50	630	18
1180	1.2	0.64	516	0.2	18.1	200	4	3.81	39917	<1	83	2.613	28	565	21
1181	0.8	0.59	423	0.3	7.7	186	5	3.47	24844	1	56	2.286	63	353	22
1183	<0.1	0.58	364	0.3	10.6	156	3	3.92	19638	1	51	2.284	41	561	35
1184	1.0	0.83	372	0.3	4.2	148	4	4.81	12070	<1	52	3.234	46	537	30
1185	1.6	0.81	349	0.3	11.5	160	5	4.08	19362	1	33	2.528	87	689	39
1186	1.4	0.59	347	0.2	9.9	161	3	3.21	18926	<1	44	2.855	32	536	19
1187	0.3	0.28	430	0.2	7.5	180	9	3.48	30453	<1	25	1.853	73	432	27
1188	0.6	0.58	358	0.4	2.1	118	4	3.92	6711	1	34	1.731	37	499	18
1189	0.4	0.74	301	0.3	3.2	152	5	3.43	2906	1	46	1.950	46	259	19
1191	2.9	0.57	475	0.4	11.4	190	5	4.39	45093	<1	68	3.087	42	559	15
1192	1.4	0.72	357	0.4	17.9	231	5	4.57	19765	1	80	3.331	61	786	25
1193	0.7	0.74	331	0.2	13.3	155	5	3.70	19881	1	60	2.651	34	346	19
1194	0.5	0.54	353	0.3	6.3	125	4	4.49	9093	1	38	1.750	72	945	32
1195	1.6	0.37	354	0.2	7.9	178	4	4.90	33703	1	26	2.127	57	581	18
1197	1.4	0.43	380	0.2	20.8	231	3	3.25	25005	1	44	2.798	43	844	14
1198	1.1	0.39	328	0.2	10.6	126	4	3.36	18061	<1	23	2.649	35	801	11
1199	1.2	0.62	377	0.2	3.3	138	4	4.44	17993	<1	30	3.823	52	435	14
1200	0.5	0.34	376	0.2	11.7	164	3	3.29	13258	<1	24	2.037	27	685	10
1201	1.6	0.52	382	0.4	7.5	148	4	3.89	21399	<1	57	1.932	48	702	18
2001	0.6	0.47	350	0.2	17.5	157	3	4.52	26058	<1	102	2.324	43	749	47
2002	0.5	0.61	427	0.2	8.6	170	2	4.60	23948	<1	112	2.306	51	819	63
2003	0.4	0.89	363	0.3	18.7	125	2	5.59	50332	<1	121	2.871	58	846	68
2004	0.2	0.51	360	0.4	7.2	146	5	3.27	26369	<1	64	1.931	59	569	47
2005	0.6	0.46	415	0.2	5.8	149	2	4.82	24041	<1	65	1.653	51	839	55

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
2006	11D13	20	444259	4969066	7	7	1SE	DMW	COG
2007	11D13	20	449271	4969849	6	7	0	MDW	COG
2008	11D13	20	448601	4968478	7	7	1SE	DMW	COG
2009	11D13	20	446985	4967654	4	5	1S	DMW	COG
2010	11E4	20	428846	4994557	5	7	1SW	WMB	LCSV
2011	11E4	20	429250	4996508	6	8	1SW	WMW	LCSV
2012	11E4	20	429880	4997625	5	8	3NE	MMW	LCSV
2017	11E4	20	428197	5002248	5	9	0	MMW	LCSV
2018	11E4	20	430609	5002808	5	8	0	DMW	LCSV
2022	11E4	20	422820	5000483	5	8	0	MMW	LCSV
2023	11E4	20	426384	4997926	8	9	1	MMW	LCSV
2026	21A16	20	406480	4976065	6	7	1SW	DMW	EC
2027	21A16	20	405408	4975774	7	8	1E	DMW	H
2028	21A16	20	403528	4968115	5	8	1NE	DMW	COG
2031	21A16	20	404873	4972653	7	10	3NW	DMW	DC
2032	21A16	20	405082	4973814	6	9	1W	DMW	DC
2034	21A16	20	412552	4977652	6	10	1N	DMW	COG
2035	21A16	20	414193	4975325	5	7	0	DMW	COG
2036	21A16	20	413962	4972633	5	8	0	-	DC
2037	21A16	20	414862	4974504	5	7	1S	DMW	COG
2038	21A16	20	413530	4970776	7	8	2E	DMW	DC
2039	21A16	20	415415	4978316	4	6	0	DMF	H
2043	21A16	20	416815	4978384	6	7	1SE	DMW	COG
2046	11E3	20	471866	4990391	4	8	-	-	EC
2047	11E4	20	443460	4990059	6	8	1S	-	COG
2048	11E4	20	441543	4989250	6	7	-	DMW	COH
2049	11E4	20	439533	4989206	5	7	2E	-	COH
2050	11E4	20	438996	4991772	5	5	0	DMW	COH
2052	11E4	20	437230	4990692	5	7	1NE	DMW	COH
2053	11E4	20	434953	4990196	4	7	0	DMW	COH

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
2006	1.63	62	25.0	2100	30	17.9	6	15	10	1.4	<0.04	0.38	<0.5	25.00	5.8	<0.05	1560	<5	440	1.0	0.9	5	0.5	970	0.5	<0.1	<1	0.26	2500
2007	2.21	35	6.8	3400	29	18.9	5	4	9	0.5	<0.03	0.24	<0.5	23.40	5.4	0.07	1700	10	180	0.5	0.6	<2	0.4	950	0.3	<0.1	<1	<0.05	2600
2008	1.75	39	8.2	1800	20	16.7	7	3	11	0.8	<0.03	0.42	0.6	22.10	5.2	<0.05	1960	<5	200	0.8	1.0	<2	0.5	1300	0.7	<0.1	2	0.26	2000
2009	1.78	18	4.0	3100	29	16.9	5	7	8	3.3	<0.04	0.26	0.7	23.70	4.9	<0.05	1380	<5	720	0.7	0.6	<2	0.4	1100	<0.1	<0.1	<1	0.25	1700
2010	2.42	<5	4.2	1700	84	17.1	6	9	7	1.4	<0.03	0.33	0.8	23.30	3.3	0.07	1620	<5	230	0.3	0.8	<2	0.6	550	0.4	<0.1	<1	<0.05	1500
2011	2.23	15	4.1	3600	34	15.0	9	4	6	1.5	0.21	0.32	1.1	27.00	3.9	<0.05	1290	<5	180	0.5	0.9	<2	0.6	710	0.6	<0.1	<1	0.37	1300
2012	2.34	9	2.6	1900	33	16.0	9	6	7	<0.5	<0.03	0.41	1.5	22.60	4.4	0.10	1920	<5	110	0.3	1.1	<2	0.7	1200	0.9	<0.1	<1	0.39	2200
2017	1.88	<5	4.3	4700	50	20.5	13	5	11	<0.5	<0.03	0.37	1.7	21.80	5.6	<0.05	1210	<5	200	0.4	1.1	5	0.9	1600	1.0	<0.1	<1	0.41	1100
2018	1.81	14	2.3	4800	44	18.4	<3	4	<1	1.1	<0.03	0.12	<0.5	26.00	1.4	<0.05	925	<5	210	0.3	0.2	<2	0.2	360	0.3	<0.1	<1	0.15	1800
2022	1.89	6	2.3	4900	41	17.9	5	21	8	0.8	<0.03	0.30	<0.5	23.80	3.3	<0.05	1800	<5	260	0.4	0.8	<2	0.5	1600	0.3	<0.1	<1	0.21	2100
2023	1.91	45	3.0	2900	36	19.8	6	9	5	2.6	<0.03	0.23	1.1	22.40	3.1	<0.05	1170	<5	300	0.4	0.6	<2	0.5	700	0.4	<0.1	<1	0.20	1600
2026	2.17	21	1.7	1800	18	19.8	<3	4	6	3.4	<0.03	0.19	0.5	20.80	2.1	<0.05	1600	<5	370	0.3	0.4	<2	0.3	<300	<0.1	<0.1	1	<0.05	2800
2027	2.04	12	2.6	6500	22	14.5	14	5	14	2.3	<0.03	0.59	2.3	26.80	6.3	0.13	2540	<5	330	0.4	1.6	<2	1.1	750	1.0	<0.1	<1	0.53	2200
2028	2.14	13	3.1	2300	20	17.3	10	5	7	10.0	<0.03	0.42	1.2	23.50	4.8	0.09	1970	<5	330	0.5	1.1	<2	0.8	960	0.7	<0.1	<1	0.41	2600
2031	1.98	15	1.5	6200	21	24.2	4	2	5	0.9	<0.03	0.17	0.9	16.10	2.1	<0.05	1910	<5	270	0.4	0.4	<2	0.3	1100	0.4	<0.1	<1	0.22	1600
2032	1.59	26	2.2	5600	33	18.3	8	4	8	1.0	<0.04	0.33	1.4	24.60	3.8	<0.05	1820	<5	260	0.4	0.8	<2	0.6	1200	0.7	<0.1	<1	0.40	3600
2034	1.80	29	3.1	3700	26	19.2	8	7	5	3.2	<0.03	0.24	1.0	19.30	3.6	<0.05	1740	<5	310	0.6	0.6	<2	0.4	1400	0.4	0.5	<1	0.21	2900
2035	1.96	14	5.3	3100	26	20.3	19	14	13	3.3	<0.04	0.72	1.6	19.30	8.9	0.17	2910	15	240	0.7	2.0	<2	1.5	1200	1.3	<0.1	<1	0.81	2200
2036	2.09	10	3.9	3200	20	24.2	5	4	5	<0.5	0.17	0.22	0.9	19.00	3.0	<0.05	2000	<5	180	0.6	0.5	3	0.4	1800	0.4	<0.1	<1	0.11	2300
2037	1.98	8	5.6	3500	64	15.7	4	8	6	3.9	<0.03	0.25	<0.5	26.90	2.8	<0.05	1480	<5	380	0.4	0.7	<2	0.4	1500	0.7	<0.1	<1	<0.05	2700
2038	2.19	15	1.8	1700	17	23.4	4	2	5	1.2	<0.02	0.13	<0.5	18.20	1.6	<0.05	936	6	200	0.3	0.3	<2	0.2	990	0.2	<0.1	<1	<0.05	1400
2039	2.22	13	5.4	3200	27	19.8	11	5	12	1.6	<0.03	0.44	1.1	19.80	5.3	0.07	3340	<5	140	0.6	1.2	<2	0.7	900	0.9	0.5	4	0.36	2800
2043	2.13	9	3.3	6900	28	14.9	15	7	20	2.0	<0.03	0.70	2.5	13.50	7.6	0.12	2520	8	300	1.0	1.8	<2	1.3	930	1.6	<0.1	<1	0.59	1900
2046	1.95	18	3.1	3200	21	16.0	13	14	13	1.2	0.24	0.60	1.7	23.40	8.0	0.12	1820	6	220	0.4	1.5	<2	1.1	890	0.8	0.7	<1	0.53	1800
2047	2.10	<5	4.7	4700	110	19.4	12	9	13	2.1	0.36	0.54	1.8	20.70	6.9	0.08	3610	<5	220	0.6	1.5	3	1.1	810	1.1	<0.1	<1	0.73	2700
2048	1.66	7	4.5	1600	39	10.6	10	7	9	2.3	<0.04	0.43	0.8	24.30	4.8	0.11	3240	<5	370	1.0	1.0	<2	0.8	<300	0.8	<0.1	<1	0.22	2700
2049	1.73	11	3.9	2800	210	13.5	4	28	<1	<0.5	<0.04	0.20	1.5	30.10	2.3	<0.05	1510	<5	310	0.8	0.4	<2	0.3	920	<0.1	<0.2	<1	0.20	2800
2050	1.89	10	2.5	2600	130	16.1	6	11	5	<0.5	<0.03	0.17	<0.5	26.90	2.0	<0.05	1140	<5	400	2.0	0.3	<2	0.2	770	<0.1	<0.1	<1	0.12	1800
2052	2.15	14	3.8	3300	72	16.4	5	8	5	<0.5	<0.03	0.18	0.7	33.00	3.1	<0.05	1730	<5	130	0.7	0.3	<2	0.3	680	<0.1	<0.1	<1	0.16	2000
2053	1.94	6	2.7	2500	81	17.2	5	11	4	1.3	<0.03	0.22	<0.5	26.40	3.1	<0.05	1280	<5	180	0.6	0.5	<2	0.3	1000	0.2	0.5	<1	0.25	2700

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
2006	0.5	0.79	353	0.4	4.9	179	2	4.23	25383	<1	189	2.347	70	710	79
2007	0.5	0.27	291	0.2	7.5	117	5	4.28	7600	<1	66	1.735	43	579	73
2008	0.6	0.76	436	0.7	7.6	152	<2	6.00	17728	4	70	3.558	63	1006	69
2009	0.2	0.91	368	0.2	8.2	132	<2	3.67	25188	<1	106	3.439	84	654	51
2010	0.5	0.60	288	0.4	11.1	117	<2	2.11	36097	<1	53	1.719	48	436	14
2011	0.2	0.48	255	0.7	3.9	118	<2	3.80	17656	<1	31	1.836	30	522	12
2012	0.4	0.41	272	0.3	12.5	130	4	2.90	24845	<1	28	1.799	31	694	11
2017	0.2	1.09	463	0.7	3.6	91	<2	3.38	25910	<1	70	1.521	68	986	20
2018	0.2	0.63	299	<0.2	13.3	132	4	3.17	31710	<1	81	2.325	34	385	9
2022	0.3	0.62	390	0.5	10.2	140	<2	4.58	22179	<1	77	1.851	67	977	9
2023	<0.1	0.38	381	0.4	3.5	144	6	4.03	12078	2	28	1.888	48	431	12
2026	<0.1	0.42	361	<0.2	9.6	143	<2	3.53	23691	<1	45	3.116	30	417	16
2027	0.1	0.63	351	<0.2	8.8	141	8	4.53	14849	<1	53	2.066	43	520	17
2028	<0.1	0.62	402	0.5	27.8	147	2	5.13	19789	<1	43	2.659	51	652	17
2031	<0.1	0.45	265	0.3	6.4	123	2	3.54	9918	<1	30	2.837	105	704	26
2032	0.1	0.78	397	0.7	19.0	187	5	4.37	14223	<1	58	2.881	66	704	21
2034	0.2	0.83	335	1	19.2	139	<2	4.64	28268	1	93	2.021	71	904	29
2035	0.4	0.59	368	0.2	7.3	176	<2	4.89	29726	<1	35	2.339	69	839	37
2036	0.3	0.78	324	0.4	11.7	146	<2	4.41	11125	<1	52	2.085	66	1071	27
2037	0.2	0.48	305	0.5	13.2	153	2	3.55	37110	<1	47	2.141	45	936	20
2038	<0.1	0.79	284	0.3	8.6	143	5	4.03	5556	<1	43	2.997	47	737	16
2039	0.2	0.66	329	<0.2	4.4	160	<2	3.50	5460	<1	51	2.035	58	565	31
2043	0.9	1.05	275	0.2	8.9	148	<2	3.52	64280	<1	80	2.875	158	821	61
2046	0.2	1.11	293	<0.2	11.9	176	4	3.78	22403	<1	72	2.241	90	521	38
2047	<0.1	0.56	347	<0.2	23.2	188	7	2.67	46147	<1	104	2.013	73	513	17
2048	0.5	1.12	494	0.4	5.3	212	7	4.06	51022	<1	45	3.137	116	644	36
2049	1.0	0.61	444	0.3	13.3	249	<2	4.59	53681	<1	119	3.680	35	517	15
2050	0.8	0.60	403	0.2	5.9	164	<2	3.87	40280	<1	54	2.825	28	509	13
2052	0.1	0.49	291	0.2	1.6	163	<2	4.13	12114	<1	172	2.922	17	384	9
2053	0.6	0.84	433	0.2	7.5	203	2	4.67	26623	<1	83	2.566	44	689	17

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
2054	11D13	20	454857	4965869	5	7	2NE	DMW	COG
2055	11D13	20	458441	4970932	5	7	1W	DMW	COG
2056	11D13	20	457985	4972490	7	9	-	DMW	COG
2058	11D13	20	456862	4975786	5	8	0	-	EC
2059	11D13	20	458776	4978993	6	8	1E	DMW	EC
2060	11D13	20	460337	4981389	6	8	0	MMW	EC
2061	11E3	20	463710	4987585	6	8	2SW	MMW	EC
2062	11E3	20	462858	4986096	5	10	1SE	MMW	EC
2063	11E3	20	461058	4983098	5	8	0	MMW	EC
2064	11E3	20	464922	4989370	6	8	0	DMW	EC
2066	11E3	20	466393	4994059	6	8	0	DDW	EC
2068	11E3	20	461995	4983919	5	8	0	MMW	EC
2069	11D13	20	456808	4968197	6	8	0	DMW	COH
2072	21H1	20	418996	4991833	7	8	0	DMW	LCSV
2073	21H1	20	415933	4993376	6	8	0	DMW	EC
2074	21H1	20	410024	5003979	5	8	1S	DMW	H
2075	21H1	20	411091	5005425	6	8	0	DMW	H
2077	21H1	20	414140	5005773	7	10	-	MMW	H
2078	21H1	20	415336	5007069	4	8	3NE	DMW	H
2079	21H1	20	415866	5004128	4	7	1NW	MMW	H
2080	21H1	20	417106	5008361	4	9	3NW	DDW	LT
2081	21H1	20	420078	5008066	5	10	0	DMW	H
2082	11E4	20	421761	5009785	5	8	1SW	DMW	H
2083	11E4	20	422692	5007494	6	8	-	MMW	LCSV
2084	21A16	20	413175	4972351	7	8	1N	DOW	DC
2085	21A16	20	411307	4971781	4	6	1NW	DMW	DC
2086	21A16	20	410702	4970247	5	7	2SE	DOS	DC
2087	21A16	20	409196	4971365	4	5	0	MMS	DC
2088	21A16	20	407889	4971014	7	9	2NE	MOW	DC
2089	21A16	20	407709	4969159	7	9	1SE	DDW	DC

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
2054	1.77	11	<0.6	2100	240	17.6	10	13	12	4.6	<0.04	0.32	<0.5	28.60	6.0	<0.05	1840	<5	600	0.6	0.7	<2	0.6	1100	0.4	<0.2	<1	0.23	2300
2055	2.05	18	2.7	2400	30	18.5	7	8	43	<0.5	<0.03	0.40	1.2	23.50	7.1	<0.05	3230	10	190	0.7	1.1	<2	0.6	1100	0.4	<0.1	<1	0.16	3000
2056	2.35	28	3.5	1500	34	15.5	10	4	33	2.1	<0.03	0.46	1.2	25.50	6.6	0.08	2380	6	430	0.8	1.1	<2	0.9	1200	0.8	<0.1	3	0.36	3900
2058	2.47	10	4.1	1700	59	19.8	9	9	15	1.4	<0.04	0.68	1.0	29.70	5.1	0.06	1830	<5	190	0.4	1.1	<2	0.6	950	0.3	<0.1	<1	0.29	2400
2059	1.80	12	3.1	2500	40	19.0	8	5	9	<0.5	<0.03	0.42	0.9	21.30	4.9	0.08	3050	<5	100	0.8	1.1	<2	0.6	850	0.6	<0.1	5	0.34	2500
2060	2.02	9	2.5	690	32	17.1	10	7	11	0.9	<0.03	0.42	0.7	25.70	4.8	<0.05	1390	<5	220	0.5	1.1	<2	0.7	540	0.9	<0.1	<1	0.33	2000
2061	2.16	7	3.6	2300	82	19.1	12	8	11	0.8	0.28	0.47	1.6	18.80	6.8	0.10	2260	9	180	0.7	1.5	<2	1.0	870	1.3	<0.1	2	0.63	2000
2062	1.74	10	3.1	1900	63	17.4	11	5	42	1.3	<0.04	0.51	2.1	22.70	6.4	0.11	1670	<5	150	0.9	1.5	<2	1.0	920	1.1	<0.1	<1	0.64	2300
2063	2.12	7	2.4	1200	34	23.3	11	5	20	4.3	0.20	0.38	1.2	16.50	5.6	0.09	1810	<5	170	0.5	1.0	<2	0.8	920	1.0	<0.1	<1	0.35	1600
2064	2.27	<5	2.7	4500	59	20.9	13	5	51	<0.5	<0.04	0.60	1.8	18.90	6.0	0.13	2980	<5	130	0.6	1.6	<2	0.9	1100	1.5	<0.1	<1	0.51	1900
2066	1.84	9	4.2	3200	48	19.0	17	8	56	1.4	0.43	0.82	1.3	20.40	8.8	0.16	3550	12	330	1.1	1.8	<2	1.5	1000	1.5	<0.1	11	0.77	2000
2068	1.86	5	2.9	1200	42	21.3	11	8	37	5.2	0.19	0.45	0.9	19.30	5.6	0.07	2410	15	470	0.7	1.2	<2	0.7	1000	0.9	<0.1	<1	0.57	2700
2069	2.10	8	4.8	1300	51	25.3	11	12	33	0.9	0.17	0.62	0.8	20.40	8.9	0.11	3380	<5	110	0.8	1.8	<2	1.0	770	0.9	<0.1	<1	0.39	1200
2072	2.18	<5	1.9	5100	67	19.8	8	7	6	<0.5	<0.04	0.33	1.4	28.20	3.6	0.08	1670	<5	98	0.5	0.8	<2	0.6	980	0.5	<0.1	<1	0.28	2100
2073	1.88	19	4.1	2700	55	17.0	9	8	9	0.9	<0.03	0.43	1.4	26.20	4.4	0.06	2820	<5	220	0.6	1.1	<2	0.7	1100	0.9	0.6	<1	0.33	1800
2074	2.26	8	2.7	1800	58	16.6	5	8	5	<0.5	<0.03	0.27	1.0	26.40	2.9	<0.05	2620	<5	78	0.4	0.8	<2	0.5	830	0.5	<0.1	<1	0.25	2000
2075	1.95	<5	2.7	2900	69	20.9	9	6	27	1.3	<0.04	0.29	0.9	21.20	3.0	0.06	3860	<5	210	0.6	0.8	<2	0.6	1500	0.4	<0.1	4	0.33	2900
2077	1.70	6	1.2	2000	47	21.0	<3	3	23	<0.5	<0.03	0.20	<0.5	17.80	2.3	<0.05	2140	<5	87	0.5	0.5	4	0.4	580	0.3	<0.1	3	0.24	1700
2078	2.07	8	1.9	3000	54	19.1	4	4	10	<0.5	<0.03	0.18	0.9	26.50	1.8	<0.05	2210	<5	49	0.2	0.4	<2	0.3	720	0.2	<0.1	<1	0.19	2100
2079	1.91	<5	2.1	4600	68	16.8	<3	6	5	2.1	<0.03	0.19	<0.5	26.20	1.9	<0.05	2120	<5	320	0.3	0.5	5	0.3	1300	0.4	<0.1	<1	<0.05	3100
2080	2.01	7	2.2	4500	60	23.5	4	8	37	0.7	<0.03	0.16	<0.5	21.30	1.7	<0.05	4380	<5	47	0.4	0.4	<2	0.2	630	<0.1	<0.1	<1	<0.05	1600
2081	1.71	11	2.3	8900	61	17.0	<3	4	24	<0.5	<0.04	0.17	<0.5	28.40	2.0	<0.05	1080	<5	300	0.3	0.4	<2	0.3	1300	<0.1	<0.1	<1	<0.05	1900
2082	2.07	<5	2.6	2900	57	19.2	4	5	11	<0.5	<0.03	0.17	1.0	24.20	2.3	<0.05	3640	<5	160	0.3	0.6	<2	0.3	850	0.2	<0.1	<1	<0.05	2100
2083	1.92	7	4.0	4700	61	16.8	13	6	31	2.3	0.39	0.57	1.3	22.00	7.5	0.11	3930	<5	290	0.4	1.6	<2	1.3	720	1.1	<0.1	5	0.61	1300
2084	1.94	10	2.1	2100	35	16.7	3	4	20	1.8	<0.03	0.20	<0.5	29.90	2.1	<0.05	1400	<5	430	0.6	0.6	2	0.2	1400	0.4	<0.1	<1	<0.05	2100
2085	2.04	17	4.4	2100	47	20.7	6	4	35	4.4	<0.03	0.31	<0.5	23.30	3.0	<0.05	1510	<5	320	0.7	0.9	<2	0.4	630	0.4	<0.1	<1	0.22	3200
2086	2.61	<5	1.8	2500	29	14.8	3	2	7	9.4	<0.02	0.19	0.7	29.70	1.9	<0.05	1180	<5	440	0.3	0.4	<2	0.2	880	<0.1	<0.1	<1	<0.05	2000
2087	2.40	7	2.3	2000	60	13.9	<3	3	20	5.4	0.15	0.16	<0.5	32.20	1.7	<0.05	1170	<5	610	0.3	0.4	<2	0.2	1200	<0.1	<0.1	<1	<0.05	2200
2088	1.80	11	2.0	1800	29	17.9	4	2	25	11.0	<0.02	0.19	<0.5	19.40	2.0	<0.05	1170	10	390	0.5	0.5	<2	0.3	1000	<0.1	<0.1	<1	0.19	3400
2089	2.01	9	1.7	1700	29	22.3	4	5	14	6.0	<0.02	0.17	0.6	16.10	2.1	<0.05	1180	<5	140	0.3	0.4	<2	0.3	1800	<0.1	<0.1	<1	0.10	3000



Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
2054	0.7	0.83	410	<0.2	4.5	175	<2	4.07	28164	<1	80	2.284	158	708	75
2055	0.1	0.67	316	<0.2	17.3	209	8	3.85	25105	5	184	2.853	69	691	47
2056	<0.1	0.61	392	<0.2	13.6	180	<2	4.52	42575	<1	64	1.768	234	733	56
2058	0.2	0.51	319	0.2	7.6	127	<2	4.07	12552	<1	58	1.743	38	658	28
2059	<0.1	0.91	459	0.8	7.0	206	5	4.99	8164	2	106	2.978	61	524	20
2060	0.3	0.49	402	<0.2	4.6	136	2	4.56	16916	<1	54	1.735	81	674	29
2061	0.3	0.56	294	0.2	5.4	130	8	3.82	11588	3	49	1.678	74	585	43
2062	0.3	0.71	383	<0.2	9.5	187	5	4.39	18834	<1	46	3.047	55	589	36
2063	0.1	0.54	371	0.4	2.6	126	2	4.89	5609	3	41	1.721	109	684	47
2064	0.2	0.48	366	<0.2	11.1	161	8	3.28	16982	<1	59	2.299	36	515	18
2066	0.9	1.18	287	<0.2	8.8	221	9	4.71	22534	3	49	2.539	284	550	49
2068	0.5	0.45	362	<0.2	7.5	203	<2	3.57	26275	2	29	1.718	153	699	30
2069	0.6	0.74	297	<0.2	6.2	175	6	2.56	20417	<1	85	2.375	68	504	66
2072	<0.1	0.52	505	0.6	7.1	135	6	3.39	20752	1	101	1.881	51	818	21
2073	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2074	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2075	0.3	0.64	295	0.3	5.8	159	2	4.74	18684	<1	60	1.746	99	840	25
2077	0.4	0.90	356	0.2	3.0	164	<2	4.90	12330	3	61	2.138	80	528	22
2078	0.1	0.55	297	<0.2	4.9	137	3	4.31	11611	<1	62	2.339	22	467	8
2079	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2080	<0.1	0.32	330	<0.2	5.3	153	6	5.06	11704	<1	19	1.977	62	610	18
2081	0.6	0.77	379	0.3	5.3	180	<2	4.00	31648	<1	72	2.639	51	835	12
2082	0.5	0.61	384	0.3	10.7	137	<2	4.68	24918	<1	195	2.790	36	573	7
2083	0.5	0.70	321	<0.2	5.9	136	10	4.33	19342	<1	57	1.923	47	519	15
2084	0.5	0.58	436	0.3	5.5	184	<2	4.47	14684	<1	40	2.776	47	853	22
2085	0.4	0.44	431	<0.2	15.5	146	<2	4.70	17871	<1	32	2.509	61	525	34
2086	0.7	0.26	388	<0.2	18.8	117	<2	4.24	22220	1	24	2.560	21	503	21
2087	0.4	0.56	401	0.8	8.8	129	<2	3.34	37322	<1	33	3.298	38	813	17
2088	0.5	0.61	402	0.8	23.6	180	<2	4.80	29724	1	37	2.212	63	704	29
2089	0.3	0.48	466	0.7	16.0	136	<2	6.24	20821	2	26	1.428	64	1084	30

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
2090	21A16	20	409875	4968576	7	8	0	WMW	DC
2091	21A16	20	411311	4969175	4	7	0	MMW	DC
2092	21A16	20	412951	4969296	8	10	2E	MMW	DC
2093	11E4	20	444132	4994353	5	7	1E	DOW	COH
2094	11E4	20	443547	4996255	5	8	1N	WMW	COH
2095	11E4	20	443800	4999273	6	10	1SE	WMW	EC
2096	11E4	20	439287	4997146	6	8	0	MMW	LCSV
2097	11E4	20	440747	4994583	6	8	0	MMW	COH
2098	11E4	20	438017	4995693	5	7	0	MMW	EC
2099	11E4	20	440694	4999530	4	6	0	MMW	EC
2100	11E4	20	438691	4998740	5	6	1SE	MMW	EC
2101	11E4	20	434860	4994495	5	6	3N	MMW	EC
2102	11E4	20	447714	4986900	5	7	0	MMW	COG
2103	11E4	20	449645	4994911	5	6	1E	MOW	COH
2104	11E4	20	451837	4995087	8	10	0	MML	H
2105	11E4	20	456046	4995985	4	6	0	MMW	EC
2106	11E3	20	461518	4988330	5	7	0	MMW	EC
2107	11E3	20	461963	4990539	5	6	0	DDS	EC
2108	11E4	20	459535	4990894	5	9	1W	DMW	EC
2109	11E4	20	457138	4990419	4	7	0	DDS	EC
2110	11E4	20	454760	4989467	7	10	1SE	DDW	EC
2111	11E4	20	451830	4988026	4	8	-	DMW	COG
2112	11E4	20	450892	4989209	5	8	2E	-	EC
2113	11E4	20	452955	4993425	4	7	1E	DMW	EC
2114	11E4	20	454584	4995089	6	10	0	WMW	EC
2115	11E4	20	455501	4993557	5	7	1NW	MMW	EC
2116	11E4	20	457314	4993771	7	9	0	MML	EC
2117	11E4	20	459018	4995216	6	10	0	DMW	EC
2118	11E3	20	461595	4993954	6	10	2SW	DMW	EC
2123	11E4	20	423578	5002454	6	7	2	MOW	LCSV

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
2090	2.18	7	1.8	3100	53	19.8	<3	7	10	5.5	<0.03	0.16	<0.5	21.80	1.7	<0.05	1420	<5	270	0.4	0.4	<2	0.2	1500	<0.1	<0.1	<1	0.25	2700
2091	2.26	8	2.9	2000	220	16.0	4	8	31	13.0	<0.03	0.20	<0.5	26.70	2.1	<0.05	1160	<5	420	0.4	0.6	<2	0.2	1400	<0.1	<0.1	<1	0.28	2300
2092	2.11	10	2.5	2200	39	14.3	5	3	26	6.4	<0.03	0.20	<0.5	25.40	2.1	<0.05	1690	<5	530	0.5	0.5	<2	0.2	1000	<0.1	<0.1	<1	0.16	2800
2093	2.12	8	2.8	1100	39	11.4	<3	5	22	10.0	<0.04	0.28	0.7	28.20	3.7	<0.05	2050	<5	720	1.0	0.8	<2	0.3	1000	<0.1	<0.1	<1	<0.05	2400
2094	2.21	14	3.6	2800	35	11.9	11	25	27	2.7	<0.03	0.57	1.4	18.60	6.8	0.08	3740	<5	310	0.8	1.7	<2	0.9	980	1.0	0.6	<1	0.41	1600
2095	1.93	8	4.1	7400	42	20.4	9	4	39	1.3	0.19	0.43	2.1	21.80	5.7	0.05	3590	<5	270	0.7	1.2	<2	0.7	860	0.9	<0.1	<1	0.37	1600
2096	3.20	<5	9.7	5000	33	15.8	30	17	33	1.7	0.77	1.55	4.2	13.20	18.0	0.29	4700	18	86	1.2	4.2	3	3.0	890	3.1	1.3	<1	1.62	980
2097	2.34	<5	2.7	3100	30	22.2	3	4	16	0.7	<0.02	0.22	0.9	19.90	3.8	<0.05	2290	<5	90	0.7	0.6	<2	0.3	950	0.2	<0.1	<1	0.19	2300
2098	3.19	19	19.0	2400	40	12.4	55	17	41	3.3	1.22	2.48	4.5	16.30	32.0	0.43	5770	34	210	1.5	6.4	2	5.1	1300	5.0	1.7	<1	2.42	2200
2099	2.41	9	1.5	5100	33	21.0	4	3	20	<0.5	<0.03	0.24	<0.5	25.00	2.4	<0.05	1170	<5	45	0.4	0.7	<2	0.3	720	<0.1	<0.1	<1	0.14	2800
2100	2.37	14	2.7	4500	36	13.6	5	8	15	2.5	<0.03	0.24	1.1	31.60	2.7	<0.05	1230	<5	460	0.6	0.7	<2	0.3	1200	<0.1	<0.1	<1	<0.05	2100
2101	1.76	12	3.9	4200	60	20.8	7	7	35	1.6	<0.03	0.34	0.9	29.40	3.6	<0.05	3560	<5	92	0.7	1.0	<2	0.5	1200	0.5	<0.1	4	<0.05	2400
2102	1.90	<5	1.6	2300	37	14.8	4	4	34	6.1	<0.03	0.16	<0.5	29.00	1.8	0.07	1160	<5	630	0.5	0.4	<2	0.2	930	<0.1	<0.1	3	0.21	2400
2103	2.03	7	2.5	3200	44	18.9	5	5	160	<0.5	<0.03	0.25	<0.5	29.20	3.3	<0.05	1680	<5	79	0.4	0.7	<2	0.3	400	0.5	<0.1	<1	0.26	1800
2104	1.77	12	3.5	3500	43	20.7	10	6	86	1.6	0.23	0.40	1.2	21.90	5.6	0.08	2120	<5	240	1.1	1.1	<2	0.8	800	0.6	<0.1	<1	0.37	2100
2105	2.15	<5	3.2	2300	29	16.9	4	4	24	2.4	<0.03	0.26	0.9	25.60	3.4	<0.05	1200	<5	360	0.6	0.7	<2	0.4	1100	0.4	<0.1	<1	0.23	2500
2106	2.11	<5	3.8	3300	43	20.0	14	3	34	1.0	<0.03	0.51	2.1	21.70	7.2	0.08	2710	11	57	0.7	1.8	<2	1.0	1900	1.3	0.7	<1	0.46	2100
2107	2.39	<5	2.9	1100	33	16.1	14	6	26	0.7	0.24	0.67	2.0	22.10	7.1	0.15	2810	9	47	0.6	1.9	<2	1.2	380	1.5	0.9	<1	0.74	960
2108	2.16	<5	2.6	2400	32	15.4	17	4	41	0.9	0.33	0.57	2.8	21.20	8.3	0.16	1840	12	190	0.8	1.7	4	1.3	990	1.4	0.8	<1	0.61	1800
2109	2.67	<5	2.9	2800	26	17.1	17	7	44	<0.5	0.40	0.77	2.5	21.50	8.0	0.18	2980	10	69	0.5	1.9	<2	1.4	490	1.4	0.4	<1	0.73	1600
2110	1.93	7	4.0	2300	35	19.5	18	6	39	1.3	0.38	0.91	2.1	19.90	9.6	0.13	2100	10	230	0.4	1.8	<2	1.6	1900	1.3	<0.1	<1	0.86	1900
2111	2.19	8	3.2	3700	63	18.2	6	5	45	1.4	<0.03	0.23	0.8	19.60	3.6	<0.05	1530	<5	250	0.5	0.7	<2	0.3	1300	0.5	<0.1	<1	0.25	1800
2112	1.86	<5	3.4	3300	44	17.0	5	16	24	1.0	0.13	0.24	<0.5	24.30	3.4	0.06	2440	<5	250	0.5	0.6	<2	0.4	1100	0.2	<0.1	<1	0.21	1900
2113	2.10	15	2.6	3500	44	19.1	7	4	27	2.4	<0.03	0.26	1.1	27.10	3.8	<0.05	1300	<5	240	0.5	0.6	3	0.4	710	0.4	<0.1	<1	0.25	3100
2114	2.04	6	3.4	5900	65	15.7	9	5	29	1.5	<0.03	0.38	1.7	21.20	5.1	0.08	1450	<5	330	0.8	1.1	<2	0.7	570	0.7	<0.1	<1	0.38	2100
2115	2.11	<5	2.6	1300	23	15.8	12	5	38	2.2	0.22	0.47	1.7	25.80	6.1	0.12	1430	<5	300	0.4	1.5	<2	1.0	750	1.1	<0.1	<1	0.65	1800
2116	2.16	<5	2.8	1000	20	14.5	7	3	33	12.0	0.22	0.36	0.9	25.20	4.5	0.07	946	<5	320	0.5	1.1	<2	0.7	<300	0.6	0.4	<1	0.40	2200
2117	2.02	<5	3.8	3000	17	18.8	15	10	48	1.6	0.30	0.77	2.2	17.00	7.6	0.12	3050	8	320	0.6	2.0	<2	1.3	930	1.6	0.6	<1	0.75	1800
2118	2.10	10	3.7	2100	27	14.4	28	7	59	2.8	0.61	1.00	2.8	18.80	14.0	0.20	3200	14	250	1.0	2.8	<2	2.2	1200	2.0	0.7	<1	1.26	2300
2123	2.32	6	3.3	4200	27	17.2	9	14	22	1.3	<0.03	0.43	<0.5	30.10	4.4	0.09	1870	<5	250	0.5	1.1	<2	0.7	1400	0.6	<0.1	<1	0.36	1900

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
2090	0.3	0.57	330	0.8	9.1	159	<2	6.53	17873	2	29	2.175	35	872	13
2091	0.2	0.60	443	0.7	7.9	128	<2	4.54	20513	2	24	1.974	19	725	19
2092	0.8	0.81	317	1.1	17.0	190	2	4.41	37831	<1	37	4.124	73	705	32
2093	0.4	0.72	481	0.9	6.0	160	5	5.98	36204	4	98	5.544	63	652	37
2094	0.6	0.86	292	0.8	11.7	152	<2	4.19	99932	<1	86	2.697	65	514	37
2095	0.4	0.58	371	0.4	7.0	170	5	2.95	19501	5	27	2.020	87	470	29
2096	0.2	1.20	212	0.4	5.8	125	18	2.09	21566	2	57	1.884	52	392	27
2097	<0.1	0.94	393	0.6	8.1	165	<2	4.03	9940	2	119	2.391	34	590	17
2098	0.4	1.45	239	<0.2	7.5	143	18	2.39	23886	4	83	1.476	80	613	39
2099	0.2	0.18	296	0.2	4.3	142	<2	3.63	7245	4	40	3.255	34	460	11
2100	<0.1	0.64	296	1.5	6.0	135	6	5.67	42828	<1	99	1.826	42	526	11
2101	<0.1	0.59	432	0.7	12.9	196	2	3.83	16638	<1	105	2.231	49	626	15
2102	0.2	0.64	386	0.7	10.1	184	<2	4.45	43044	<1	65	3.807	49	553	22
2103	0.3	0.50	385	0.5	9.0	158	<2	3.73	14439	<1	69	2.961	35	443	21
2104	0.5	0.79	358	0.9	7.1	158	5	4.79	22015	<1	72	2.820	92	557	59
2105	0.2	0.60	407	0.7	12.6	191	<2	4.05	16231	<1	107	2.640	49	595	34
2106	0.1	0.61	346	0.2	4.3	150	6	5.47	5736	5	24	2.771	82	1176	40
2107	0.1	0.68	255	<0.2	7.9	139	9	3.11	9508	<1	37	3.630	52	209	23
2108	0.4	0.84	409	<0.2	4.9	145	3	4.39	17506	<1	58	1.807	62	518	23
2109	<0.1	0.81	308	<0.2	13.3	159	7	3.05	13752	<1	122	2.279	40	351	26
2110	0.5	0.80	460	0.2	4.1	166	10	4.51	14139	3	54	1.769	43	1319	25
2111	<0.1	0.75	368	0.9	6.4	135	3	2.97	44544	<1	47	2.392	42	894	38
2112	<0.1	0.71	395	0.7	2.7	167	<2	4.97	24452	<1	110	2.311	25	616	18
2113	<0.1	0.29	485	0.5	9.3	127	<2	4.51	17507	<1	34	1.908	50	457	39
2114	0.1	0.58	293	0.7	16.6	129	<2	4.06	42620	<1	56	3.332	55	512	46
2115	0.1	0.44	370	<0.2	9.5	140	4	3.75	19060	<1	54	1.901	33	404	23
2116	0.3	0.45	296	1.1	10.0	135	<2	4.89	27794	<1	42	2.203	45	235	20
2117	0.2	0.82	386	0.2	3.6	174	10	3.85	14636	<1	49	2.155	63	514	22
2118	<0.1	1.54	273	0.3	10.1	129	10	4.72	20558	<1	88	2.041	134	813	70
2123	<0.1	0.76	355	0.8	5.5	147	5	3.62	15349	3	62	2.521	40	714	13

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
2124	11E4	20	427752	5004743	5	8	0	MMW	LCSV
2125	11E4	20	430251	5005480	6	8	2N	MMW	EC
2131	11D14	20	460649	4971452	7	8	0	MMW	COH
2132	11D14	20	461982	4970050	6	7	0	MMW	COH
2133	11D14	20	463898	4970694	5	6	1N	MMW	COH
2134	11D14	20	461102	4978406	6	9	1N	DMW	EC
2135	11D14	20	463163	4980063	5	7	3NE	DMW	EC
2136	11E3	20	467755	4983620	5	6	-	DMW	EC
2137	11E3	20	484258	4987792	7	8	0	DOW	EC
2140	11E3	20	491158	4988822	7	9	3N	MOW	EC
2141	11E3	20	491974	4990775	7	9	1SE	DMW	EK
2142	11E3	20	494711	4991972	6	9	1NW	DMW	EK
2143	11E3	20	495938	4990888	7	8	0	MOW	EC
2144	11E3	20	494714	4988953	5	9	0	MDW	EC
2145	11E3	20	493283	4987237	7	7	1NW	DMW	EC
2146	11E3	20	491615	4985572	6	6	0	DOF	EC
2148	11E3	20	488218	4990154	6	9	1SE	DOW	EC
2149	11E3	20	486360	4989659	7	10	1SE	DMW	EC
2150	11E5	20	455660	5011739	7	9	0	MMW	H
2152	11E5	20	453116	5013752	4	9	0	MMW	H
2153	11E5	20	451858	5015230	5	9	0	WMW	H
2155	11E4	20	455368	5008833	5	7	2N	MMW	EC
2156	11E4	20	453429	5008456	5	7	2E	MMW	EC
2157	11E4	20	451827	5006766	4	6	2SW	DMW	LCSV
2158	11E4	20	450333	5006051	5	7	0	DOW	LCSV
2159	11E4	20	444504	5006557	5	8	0	DMW	EC
2160	11E4	20	444169	5009278	5	8	0	DMW	EC
2161	11E4	20	447823	5010501	4	6	1N	DMW	EC
2162	11E4	20	448954	5007712	6	8	0	DMW	LCSV
2163	11E4	20	421870	5008884	5	7	1S	DMW	H

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
2124	2.44	<5	2.7	4400	26	17.0	13	18	20	1.6	<0.03	0.49	1.9	29.80	6.5	0.10	2240	11	330	0.5	1.6	<2	0.9	970	1.2	<0.1	<1	0.56	1600
2125	2.38	<5	2.6	720	23	19.0	<3	3	6	<0.5	<0.03	0.19	<0.5	23.30	1.9	<0.05	938	<5	140	0.5	0.4	<2	0.3	880	0.3	<0.1	<1	0.13	1700
2131	1.93	16	5.2	2100	46	17.9	17	9	15	2.0	<0.03	0.69	1.5	23.00	12.0	0.11	3160	<5	230	0.8	2.0	<2	1.3	710	1.3	<0.1	<1	0.77	2000
2132	1.97	<5	3.2	930	27	15.4	12	5	12	0.9	<0.03	0.39	0.9	27.70	7.6	0.07	1380	<5	130	0.5	1.1	<2	0.8	630	0.6	0.6	<1	0.29	2200
2133	1.75	11	2.8	1600	65	13.8	4	8	3	4.0	<0.04	0.21	<0.5	27.30	3.4	<0.05	1660	<5	510	0.9	0.5	<2	0.3	830	0.5	<0.1	<1	<0.05	2700
2134	2.23	5	5.2	4100	24	14.5	23	13	22	1.0	0.46	0.89	2.8	21.30	13.0	0.22	3340	8	220	0.8	2.4	<2	1.9	920	1.9	0.5	<1	0.93	2200
2135	2.10	5	3.4	2000	25	21.7	11	5	13	0.9	0.26	0.46	0.8	23.30	5.9	0.09	1550	<5	110	0.5	1.3	<2	0.8	740	0.7	0.5	<1	0.46	1900
2136	2.92	6	2.5	1600	20	17.1	10	4	9	<0.5	<0.03	0.38	0.8	24.20	5.8	0.09	1850	<5	100	0.4	1.1	<2	0.9	670	1.0	0.8	<1	0.39	1400
2137	2.26	<5	3.3	2400	28	19.6	11	6	5	1.8	<0.03	0.51	1.2	19.90	6.6	0.11	2900	6	280	0.4	1.3	<2	1.0	510	0.8	0.7	<1	0.67	2000
2140	1.92	10	6.4	2500	36	18.5	14	5	16	3.6	0.28	0.50	1.1	19.50	8.2	0.09	3570	12	230	0.8	1.5	<2	0.9	1000	0.8	<0.1	<1	<0.05	3600
2141	2.38	9	3.6	3300	27	22.0	13	4	3	<0.5	<0.04	0.37	1.2	19.50	6.1	0.08	2590	<5	67	0.5	1.1	<2	0.7	<300	1.0	<0.1	<1	0.35	2000
2142	1.77	21	3.9	3300	32	19.7	11	9	11	1.6	<0.04	0.46	0.9	22.70	5.5	0.07	2650	<5	160	0.6	1.2	<2	0.8	660	0.9	<0.1	4	0.35	2800
2143	2.33	8	3.0	4100	29	18.3	7	5	7	<0.5	<0.03	0.25	<0.5	26.60	3.6	0.08	1350	<5	77	0.4	0.7	<2	0.4	<300	0.3	<0.1	<1	<0.05	1900
2144	3.15	<5	8.2	2400	21	12.3	46	8	35	1.6	0.75	1.70	3.2	21.50	23.0	0.27	5860	25	77	0.6	5.6	<2	3.2	640	2.9	0.8	<1	1.52	1700
2145	1.89	11	2.4	4000	29	17.3	6	4	6	<0.5	<0.03	0.19	<0.5	25.50	3.2	<0.05	1500	12	160	0.4	0.6	<2	0.4	<300	0.3	<0.1	<1	0.32	2300
2146	1.64	6	2.2	1500	29	16.3	4	3	4	0.8	<0.03	0.17	0.6	26.50	2.5	<0.05	1350	9	140	0.3	0.4	<2	0.3	460	0.1	<0.1	<1	0.24	2000
2148	1.58	74	2.7	3400	24	19.2	9	4	9	1.7	<0.03	0.41	1.2	20.20	5.2	0.07	1870	7	450	0.7	1.0	<2	0.7	910	0.6	0.7	<1	0.37	2500
2149	1.77	9	4.9	1700	34	18.6	10	9	24	2.9	<0.03	0.45	1.5	26.60	5.9	0.09	1780	<5	330	0.6	1.3	<2	0.8	1100	1.3	<0.1	<1	0.47	2300
2150	1.84	14	3.1	2800	38	18.5	6	7	9	1.7	<0.03	0.28	1.1	26.90	3.3	<0.05	2830	9	470	0.9	0.8	<2	0.4	1100	0.4	<0.1	<1	<0.05	2000
2152	2.08	<5	3.4	1200	58	14.5	4	8	28	<0.5	<0.03	0.20	<0.5	32.10	2.2	<0.05	1440	<5	260	0.8	0.5	<2	0.3	660	0.2	<0.1	<1	0.26	2100
2153	2.43	9	3.5	2100	22	20.9	6	8	24	0.9	0.23	0.33	1.0	24.70	3.6	0.05	2440	7	150	0.9	0.8	<2	0.5	1100	0.7	<0.1	<1	0.26	1400
2155	2.00	<5	3.7	3600	24	19.5	8	6	26	0.7	<0.03	0.29	<0.5	25.80	3.4	<0.05	1370	<5	140	1.1	0.6	<2	0.4	890	0.6	0.6	<1	0.26	2600
2156	2.21	6	4.0	3600	32	26.7	6	6	22	<0.5	<0.02	0.28	<0.5	17.10	3.3	0.07	4900	<5	160	0.8	0.8	<2	0.4	740	0.8	<0.1	<1	0.22	2200
2157	2.96	<5	3.4	2400	26	13.6	8	4	18	<0.5	0.13	0.38	1.2	33.40	4.4	0.09	2540	<5	220	0.5	1.1	<2	0.6	620	0.7	<0.1	<1	0.34	1300
2158	2.31	17	5.2	2600	21	18.9	16	4	15	1.9	0.29	0.71	1.7	21.60	7.5	0.09	2300	9	410	0.6	1.9	<2	1.1	1300	1.5	<0.1	<1	0.70	2900
2159	2.50	6	3.3	4300	23	19.8	7	5	25	0.8	<0.02	0.35	1.2	21.60	3.7	<0.05	2270	<5	180	0.5	1.0	<2	0.5	1200	0.5	<0.1	<1	0.24	1800
2160	2.59	5	12.0	3500	22	14.4	29	8	34	2.0	0.58	1.36	2.6	25.70	14.0	0.24	3240	15	240	1.1	3.8	<2	2.2	870	3.1	1.0	<1	1.25	1500
2161	1.96	<5	4.4	1600	17	14.6	10	10	28	<0.5	0.18	0.43	1.1	31.00	4.6	0.09	2270	<5	170	0.5	1.3	<2	0.7	1000	0.5	<0.1	<1	0.43	2000
2162	2.57	6	14.0	2200	28	12.5	40	10	38	2.4	0.83	1.76	3.1	20.40	20.0	0.32	3810	22	240	0.9	5.3	<2	3.2	540	3.8	1.2	<1	1.65	1500
2163	2.47	8	4.0	3500	40	14.2	13	10	29	1.2	<0.02	0.52	2.8	27.40	6.6	0.19	2280	<5	240	0.5	1.7	<2	1.0	1700	1.5	<0.1	<1	0.69	2500

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
2124	0.4	0.70	388	0.2	3.0	137	12	3.40	19322	<1	78	2.062	43	589	15
2125	0.2	0.35	292	0.5	10.2	144	11	4.34	12369	<1	63	2.484	61	621	15
2131	<0.1	0.55	436	<0.2	4.0	178	3	4.45	18657	1	90	1.819	97	414	68
2132	0.2	0.81	349	0.2	2.9	156	3	5.09	8809	<1	90	1.932	65	454	48
2133	0.2	0.72	404	0.5	11.0	183	6	4.96	35195	<1	143	2.523	50	546	52
2134	<0.1	0.94	280	<0.2	8.2	167	2	2.88	29152	<1	53	2.104	72	555	32
2135	<0.1	1.00	301	<0.2	8.1	173	9	4.18	15009	<1	107	2.529	81	398	31
2136	<0.1	0.82	338	0.4	7.3	129	13	4.77	6494	<1	75	2.071	58	492	15
2137	<0.1	0.59	290	0.2	8.2	124	5	4.84	25468	<1	28	2.605	60	388	26
2140	<0.1	0.96	362	0.2	15.5	131	12	5.58	34825	<1	76	2.465	95	820	32
2141	<0.1	0.68	248	0.6	4.4	156	3	6.21	7797	<1	47	2.892	55	346	22
2142	0.2	0.82	320	0.2	10.6	183	7	4.55	25356	<1	48	2.996	86	515	23
2143	<0.1	0.23	426	0.3	5.8	153	<2	6.42	18970	<1	41	3.636	42	281	20
2144	0.1	0.76	202	<0.2	5.1	114	9	3.37	7571	<1	41	1.525	54	412	26
2145	<0.1	0.70	373	0.5	7.1	150	<2	4.26	11552	<1	80	2.655	41	199	17
2146	<0.1	0.39	354	0.4	5.9	156	5	4.16	19804	<1	38	2.144	50	420	19
2148	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2149	0.1	0.73	289	0.3	6.5	173	<2	3.34	22562	<1	77	2.028	49	524	29
2150	0.5	0.84	266	0.5	10.7	164	<2	2.98	23160	<1	36	3.277	69	667	24
2152	0.3	0.61	377	0.6	10.1	156	4	4.25	19874	<1	60	2.563	58	522	22
2153	0.4	0.48	249	0.7	6.2	125	<2	1.90	28557	<1	39	2.868	60	570	42
2155	<0.1	0.77	301	0.8	11.2	165	<2	3.61	16769	<1	75	2.804	61	509	22
2156	0.2	0.47	286	0.6	11.8	173	<2	2.67	15664	<1	37	2.006	84	504	24
2157	0.2	0.74	254	0.5	4.0	138	<2	2.50	10654	<1	71	2.405	23	476	19
2158	<0.1	0.86	383	0.4	12.3	205	41	3.03	11895	<1	93	2.215	52	817	20
2159	0.1	0.50	301	0.8	14.8	132	<2	2.72	17842	<1	39	2.473	40	824	13
2160	<0.1	0.97	261	<0.2	3.5	165	16	2.63	15789	<1	43	2.286	53	348	26
2161	0.1	1.01	282	0.5	9.1	220	<2	4.01	16569	<1	49	3.623	50	492	13
2162	<0.1	1.25	218	<0.2	3.5	137	19	2.82	18867	<1	36	1.995	60	211	26
2163	<0.1	0.85	277	0.3	9.3	126	<2	4.21	27848	<1	76	2.084	63	898	24

# Reconnaissance Biogeochemical Survey; Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996 Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
2164	11E4	20	421574	5007463	6	9	0	MMW	EC
2165	11E4	20	423262	5008457	6	8	1SE	DMW	EC
2166	11E4	20	424209	5008563	6	9	2SE	MMW	EC
2167	11E4	20	425329	5007870	5	7	1E	DWW	LCSV
2168	11E4	20	425006	5008359	6	8	0	DMW	EC
2169	11E4	20	426155	5008451	6	8	1NW	DMW	EC
2170	11E4	20	427267	5008284	5	6	-	DMW	EC
2171	11E4	20	428165	5008014	7	8	0	MMW	LCSV
2172	11E4	20	429077	5007709	7	9	0	MOW	LCSV
2173	11E4	20	429805	5006927	4	7	1E	DDW	LCSV
2175	11E4	20	426664	5009232	5	8	0	MMW	H
2176	11E4	20	425883	5009688	6	8	1SW	DMW	H
2177	11E4	20	425366	5010338	5	7	1E	DMW	H
2178	11E4	20	424220	5010622	5	6	1NW	DMW	H
2179	11E4	20	422910	5010279	5	8	1NW	DMW	H
2180	11E5	20	425667	5011552	6	8	0	DOW	H
2181	11E5	20	426981	5012326	5	7	3E	DMW	H
2182	11E5	20	428602	5013076	4	6	-	DOW	LT
2183	11E5	20	431460	5012084	7	8	0	DMW	H
2184	11E3	20	499365	4995411	6	8	0	DMW	COH
2185	11E3	20	498276	4997447	5	6	0	WMW	COH
2186	11E3	20	495248	4997816	5	8	1SW	MMW	COH
2187	11E3	20	497513	4994263	6	10	2SE	MMW	EC
2188	11E3	20	493484	4993499	4	6	1S	MMW	COH
2189	11E3	20	498496	4992034	5	6	0	MMW	EC
2190	11E3	20	498196	4989502	7	8	3SE	MOW	COH
2191	11E3	20	499841	4990023	6	7	0	DMW	COH
2192	11E3	20	499354	4987112	6	9	0	DMW	COH
2193	11E3	20	495943	4985966	7	8	0	-	COH
2194	11E3	20	496059	4984811	5	6	2SW	MMW	COH



Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
2164	2.62	5	8.0	6400	25	14.0	32	8	35	2.0	0.67	1.27	3.5	24.60	17.0	0.25	3770	19	300	0.8	3.6	<2	2.6	910	2.8	0.7	<1	1.38	1400
2165	2.34	15	2.9	3400	24	15.9	9	7	15	0.6	<0.02	0.41	1.3	30.80	4.2	0.08	2260	<5	99	0.5	1.2	<2	0.6	850	0.9	0.4	3	0.40	1700
2166	1.96	5	2.9	4800	20	21.7	5	4	24	0.8	<0.03	0.28	1.0	21.80	3.1	<0.05	2290	<5	100	0.7	0.8	<2	0.4	850	0.2	<0.1	<1	0.24	2200
2167	1.72	7	1.9	5000	35	14.9	7	13	23	<0.5	<0.03	0.28	<0.5	28.50	3.5	0.06	1920	<5	180	0.6	0.9	<2	0.4	1700	0.8	<0.1	<1	<0.05	3300
2168	2.07	<5	3.9	7300	30	22.3	7	5	18	1.3	0.15	0.42	1.9	18.50	5.0	0.08	2110	<5	190	0.7	1.2	<2	0.7	440	0.9	<0.1	<1	0.38	1900
2169	2.61	8	4.6	2300	65	27.0	7	6	18	0.9	<0.02	0.33	0.9	13.80	3.7	<0.05	2990	<5	92	1.0	0.9	<2	0.4	920	0.7	0.5	<1	0.30	1300
2170	3.39	10	2.0	440	18	22.6	4	3	11	<0.5	<0.02	0.17	<0.5	20.40	1.6	<0.05	1780	<5	120	0.3	0.4	<2	0.2	680	0.2	<0.1	<1	<0.05	690
2171	2.17	8	5.4	3900	37	16.3	7	6	13	1.0	<0.03	0.37	1.3	27.30	3.9	0.06	3660	<5	200	0.9	1.1	4	0.5	<300	0.4	<0.1	<1	0.25	1600
2172	1.98	9	5.0	5300	36	15.1	4	4	37	1.6	<0.03	0.26	1.3	30.70	3.0	0.06	1770	<5	380	0.7	0.8	<2	0.3	1100	0.4	<0.1	<1	0.24	1900
2173	2.31	<5	4.3	3400	30	15.9	5	4	17	<0.5	0.16	0.28	1.1	29.70	3.4	0.05	1820	<5	110	0.5	0.8	<2	0.4	700	0.4	<0.1	<1	0.34	2000
2175	1.97	7	3.6	4500	29	17.3	6	4	22	1.1	<0.03	0.29	1.1	26.30	3.2	<0.05	1900	<5	270	0.8	0.8	<2	0.4	1500	<0.1	<0.1	<1	0.25	2100
2176	1.91	9	2.6	1100	38	15.9	<3	5	33	0.8	<0.02	0.19	<0.5	31.90	2.1	<0.05	1980	<5	420	0.5	0.5	<2	0.3	650	0.4	<0.1	<1	<0.05	2100
2177	1.98	9	3.3	2700	31	17.8	5	5	38	1.0	<0.03	0.24	<0.5	29.50	2.3	<0.05	1780	<5	270	0.5	0.7	<2	0.3	710	<0.1	<0.1	<1	0.26	2000
2178	2.07	9	4.5	3200	35	18.8	4	6	28	0.6	<0.03	0.27	<0.5	28.60	2.3	<0.05	4970	<5	160	0.7	0.6	5	0.3	1200	0.1	<0.1	<1	0.19	1900
2179	2.15	11	2.8	5200	28	19.8	5	4	14	1.5	<0.02	0.26	0.9	21.80	2.8	<0.05	5170	<5	360	0.5	0.7	<2	0.3	960	0.4	<0.1	5	0.18	1700
2180	2.34	8	2.7	2500	19	19.5	5	3	17	0.7	<0.02	0.16	0.5	23.20	1.8	<0.05	1780	<5	220	0.4	0.4	<2	0.3	<300	0.1	<0.1	2	0.20	1400
2181	2.13	18	3.2	2900	25	20.9	4	5	21	<0.5	<0.02	0.22	0.9	24.10	2.7	<0.05	4380	<5	110	0.4	0.6	<2	0.3	910	0.3	<0.1	2	0.17	2500
2182	2.40	8	3.8	2600	42	15.4	<3	6	13	1.2	<0.02	0.18	<0.5	33.80	2.2	<0.05	3090	<5	500	0.4	0.5	<2	0.2	910	<0.1	<0.1	<1	<0.05	3400
2183	1.79	11	3.8	3000	29	19.9	5	7	29	<0.5	<0.02	0.29	0.8	19.60	3.2	0.05	3830	<5	110	0.7	0.9	<2	0.4	1100	0.6	0.3	<1	0.23	2600
2184	2.16	9	4.5	2200	26	14.2	13	6	21	<0.5	0.26	0.56	1.1	25.00	7.9	0.12	3840	<5	130	0.8	1.7	4	0.9	910	0.9	0.6	4	0.55	2400
2185	2.30	6	2.8	1300	19	17.2	8	5	14	0.9	0.18	0.34	0.8	29.10	4.2	<0.05	1440	<5	220	0.4	1.0	<2	0.5	660	0.7	<0.1	<1	0.36	1700
2186	1.99	6	3.4	2500	42	19.7	8	5	24	<0.5	0.27	0.24	1.0	27.00	3.7	0.06	1540	<5	210	0.6	0.7	<2	0.4	820	0.3	<0.1	<1	0.17	2500
2187	2.15	10	3.8	3200	47	18.3	12	5	21	0.9	<0.02	0.38	1.2	20.20	5.6	0.07	3910	<5	180	0.7	1.2	<2	0.7	1600	0.9	<0.1	<1	0.39	2000
2188	2.20	9	3.0	5200	23	20.9	9	3	25	0.8	<0.02	0.46	1.4	21.80	6.1	0.08	1680	<5	82	0.4	1.1	<2	0.7	1200	0.8	<0.1	<1	0.48	3100
2189	3.15	6	20.0	3400	25	16.3	60	11	40	2.0	1.25	1.70	8.4	15.70	27.0	0.58	4170	31	130	0.8	4.7	<2	4.2	580	5.5	1.9	4	3.28	1800
2190	2.24	10	5.0	2000	42	19.5	11	8	25	1.2	0.28	0.52	1.2	20.00	8.0	0.09	2730	<5	140	0.8	1.6	<2	1.0	900	0.9	<0.1	<1	0.51	2400
2191	1.80	14	3.5	680	34	14.2	10	6	37	5.3	<0.02	0.40	0.6	26.40	6.3	0.09	2030	<5	340	0.6	1.1	<2	0.7	1400	0.9	<0.1	<1	0.33	1900
2192	1.91	9	15.0	2000	38	18.7	9	9	39	0.9	0.20	0.38	1.0	20.10	6.2	<0.05	2120	<5	140	0.7	1.1	<2	0.7	700	0.9	0.3	4	0.30	1800
2193	1.72	<5	3.2	1700	36	16.7	9	8	25	2.8	0.18	0.31	<0.5	28.80	4.4	<0.05	2320	<5	320	0.6	0.8	<2	0.6	890	0.3	<0.1	<1	0.24	2100
2194	2.13	21	5.1	6200	55	17.8	18	8	47	<0.5	<0.03	0.75	2.5	26.30	11.0	0.14	3960	<5	98	0.5	2.2	<2	1.3	560	1.7	<0.1	<1	0.60	2700

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
ICP-ES Analytical Data

Site Number	Ag ppm	Al %	B ppm	Be ppm	Cd ppm	Cu ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P %	Pb ppm	Sr ppm	V ppm
	0.1	0.01	2	0.2	0.2	1	2	0.01	1	1	1	0.001	3	1	2
2164	0.6	1.04	376	0.3	4.8	132	20	3.00	22697	<1	38	1.939	95	466	26
2165	0.3	0.69	355	0.9	3.2	139	13	2.86	13232	2	47	2.074	39	471	16
2166	0.3	0.52	459	0.7	11.2	208	<2	4.58	8257	<1	54	3.398	72	484	32
2167	1.5	1.11	374	0.9	8.3	177	9	4.43	45095	<1	53	2.629	53	847	19
2168	0.7	0.80	322	0.5	6.6	166	8	4.14	23242	<1	46	2.507	94	514	35
2169	0.4	0.61	277	0.7	13.5	144	<2	3.14	12000	3	33	2.150	106	407	36
2170	<0.1	0.19	248	0.2	2.1	98	<2	2.18	5472	<1	13	2.264	26	440	8
2171	0.7	0.63	337	1.1	9.5	141	3	2.68	31238	<1	43	3.187	70	383	36
2172	0.2	0.65	377	0.7	1.8	147	4	5.30	13047	<1	26	2.595	51	673	15
2173	0.9	0.48	319	1	25.1	186	8	3.12	34657	<1	32	4.540	70	357	19
2175	1.4	0.92	469	1.1	5.4	183	<2	3.80	50771	<1	66	3.744	73	848	33
2176	0.6	0.48	349	0.9	7.0	154	3	3.96	22860	2	55	2.195	51	477	19
2177	0.5	0.71	354	0.4	10.8	185	<2	3.87	16766	1	68	3.023	40	496	17
2178	1.0	0.37	290	1.2	9.1	148	<2	3.66	41171	<1	26	2.226	84	638	16
2179	0.4	0.51	389	0.7	9.8	164	3	5.05	24997	3	51	2.586	61	560	16
2180	1.0	0.34	320	0.8	11.2	121	2	3.11	20444	<1	20	3.047	44	320	15
2181	0.3	0.88	318	0.3	8.3	156	<2	4.49	5768	<1	56	2.663	37	517	10
2182	0.4	0.55	254	1	17.7	198	<2	4.08	19173	2	54	2.703	41	474	12
2183	0.4	0.90	389	0.8	9.4	176	2	5.56	17119	<1	52	2.614	100	752	34
2184	0.6	0.86	331	0.5	6.8	186	2	4.52	24147	2	114	3.228	93	548	20
2185	0.7	0.48	275	1.1	9.7	165	2	2.47	39880	<1	65	2.665	39	562	20
2186	0.4	0.54	324	1.2	7.9	179	<2	3.23	28852	<1	70	2.682	50	562	26
2187	0.8	0.77	329	1.1	9.1	154	11	3.23	33170	<1	51	2.084	52	728	30
2188	<0.1	0.73	297	0.5	14.2	147	6	4.37	14872	<1	68	2.506	43	666	18
2189	0.2	1.15	233	<0.2	6.6	105	23	2.80	12134	<1	41	1.247	62	303	35
2190	0.4	0.97	308	0.3	6.3	164	<2	3.58	24429	<1	128	2.155	65	540	30
2191	0.8	0.86	392	0.3	7.8	172	10	3.33	42231	<1	54	3.206	55	773	34
2192	0.8	0.84	313	0.5	9.4	182	<2	3.25	35079	<1	37	2.342	74	427	32
2193	0.5	0.60	453	0.7	5.9	178	<2	4.34	23075	<1	59	2.290	68	514	28
2194	<0.1	0.60	219	1	10.1	132	<2	2.53	15019	<1	59	2.371	41	280	20

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996 Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
2195	11E3	20	494571	4984351	6	8	3E	-	COH
2196	11E3	20	491986	4983191	6	10	0	DMW	COH
2197	11E3	20	498834	4983680	6	10	0	-	COH
2198	11E3	20	470696	4983842	7	9	1N	DMW	EC
2199	11E3	20	471706	4983416	5	8	0	DMW	EC
2200	11E3	20	472347	4983976	6	8	0	MMW	EC
2201	11E3	20	473117	4983511	5	7	1	DMW	EC
2202	11E3	20	477029	4986741	6	8	0	MMW	EC
2203	11E3	20	479857	4985470	8	10	2	DMW	EC
2204	11E3	20	477316	4989695	5	6	1S	DMW	COH
2205	11E3	20	488869	5000703	5	6	2SE	DMW	LCSV
2206	11E3	20	484845	5000553	5	6	0	MDW	LCSV
2207	11E5	20	449204	5011827	6	8	0	MMW	EC
2208	11E5	20	450857	5012862	7	9	0	DOW	H
2209	11E5	20	449521	5014484	6	9	0	MMW	H
2210	11E5	20	453451	5015663	8	10	1SE	DMW	H
2211	11E5	20	458217	5015941	6	8	1NE	DMW	H
2212	11E5	20	457012	5014667	6	8	0	MMW	H
2213	11E5	20	443120	5011114	7	8	0	WOB	EC
2214	11E2	20	509138	4996205	6	8	0	MMW	COG
2215	11E2	20	512288	4989330	8	10	1E	MMW	COG
2216	11E2	20	513705	4988616	5	6	0	MMW	COG
2217	11E2	20	515735	4987903	5	9	0	WMW	COG
2218	11E2	20	516679	4989943	5	8	0	WMW	COG
2219	11E2	20	513230	4992493	7	8	0	MMW	COG
2220	11E2	20	509459	4994745	5	6	0	MMW	COH
2221	11E2	20	515345	4996797	5	8	0	DMW	COH
2222	11E2	20	513435	4994492	4	6	0	WMW	COH
2223	11D13	20	435201	4976813	5	7	1W	DMW	COG
2224	11D13	20	433176	4977070	7	9	2E	DMW	COG

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
2195	2.01	11	3.1	2200	48	22.0	3	9	32	0.7	<0.02	0.24	0.6	20.80	4.0	<0.05	2320	<5	67	0.5	0.7	<2	0.4	780	0.3	0.6	<1	<0.05	2300
2196	2.05	8	4.4	3600	46	18.3	9	6	25	1.3	0.17	0.40	1.5	23.20	7.2	0.09	3490	<5	180	0.8	1.1	<2	0.8	1700	1.1	<0.1	<1	0.41	3300
2197	1.89	<5	4.5	940	66	16.7	12	5	34	1.7	<0.02	0.36	0.7	31.70	6.3	0.07	1840	<5	390	0.8	1.0	5	0.7	1100	0.4	<0.1	<1	0.21	2900
2198	2.37	5	4.3	2900	32	22.1	13	14	20	0.9	0.30	0.55	1.3	19.50	7.5	0.09	3690	7	160	0.7	1.7	<2	1.0	1100	1.2	<0.1	<1	0.56	1800
2199	2.45	<5	3.1	2400	31	17.8	9	11	19	<0.5	0.14	0.33	1.0	29.10	7.1	0.07	1950	<5	96	0.5	0.9	<2	0.6	680	0.7	<0.1	<1	0.29	1600
2200	2.19	5	4.0	2300	40	18.5	8	4	26	3.5	0.19	0.33	1.0	25.50	4.9	0.05	1110	<5	240	0.6	0.8	<2	0.6	690	0.5	<0.1	<1	0.37	2300
2201	2.48	5	3.3	4600	33	17.3	5	5	15	<0.5	0.16	0.29	<0.5	28.80	4.3	<0.05	1940	<5	87	0.5	0.8	<2	0.5	540	0.5	<0.1	<1	0.25	2100
2202	2.19	9	4.5	7200	33	20.1	7	4	18	0.6	<0.02	0.30	1.6	24.50	5.5	<0.05	1280	<5	170	0.7	0.8	<2	0.6	1300	0.7	<0.1	<1	0.24	2700
2203	1.92	8	2.9	3400	33	18.7	7	9	16	0.8	<0.02	0.26	0.8	23.10	4.8	<0.05	2080	<5	190	0.8	0.7	<2	0.4	920	0.4	<0.1	<1	0.27	2500
2204	2.46	<5	2.8	2600	39	18.9	5	13	9	1.6	<0.02	0.22	<0.5	24.10	3.8	0.06	1210	<5	220	0.4	0.8	<2	0.4	910	0.6	<0.1	<1	0.25	2500
2205	2.26	9	2.4	4600	28	20.1	4	8	16	<0.5	<0.02	0.24	1.0	25.40	2.8	<0.05	1710	<5	68	0.4	0.7	<2	0.4	1600	0.6	<0.1	<1	0.24	2900
2206	2.35	9	3.0	5400	23	20.1	5	6	13	<0.5	<0.02	0.25	1.1	24.40	3.3	<0.05	1700	<5	62	0.5	0.6	<2	0.3	1800	0.5	<0.1	<1	0.09	2800
2207	2.59	7	3.4	2000	34	14.4	16	11	22	1.0	0.30	0.60	2.5	27.60	7.3	0.19	2970	9	360	0.4	1.8	<2	1.2	1100	1.6	0.8	<1	0.90	1500
2208	2.16	9	4.0	1400	51	13.4	17	7	25	1.9	<0.02	0.66	2.2	33.40	8.1	0.15	2360	8	460	0.9	2.1	<2	1.2	1200	1.7	<0.1	<1	0.87	2400
2209	2.64	6	2.3	1900	49	15.5	4	4	12	<0.5	<0.03	0.19	<0.5	34.20	2.0	0.10	1750	<5	88	0.3	0.6	<2	0.3	680	0.3	<0.1	<1	0.32	3100
2210	1.83	6	3.8	2200	39	21.7	7	5	21	2.5	<0.02	0.33	0.8	21.50	4.6	0.06	3060	<5	340	0.8	0.8	<2	0.7	1100	0.7	<0.1	<1	0.29	2100
2211	2.48	<5	4.0	2500	100	19.2	5	7	15	<0.5	<0.02	0.27	0.8	29.30	3.2	0.08	2170	<5	220	0.7	0.7	<2	0.5	1600	0.5	<0.1	<1	0.26	2200
2212	2.18	16	5.5	3900	65	22.3	5	6	13	<0.5	<0.03	0.30	<0.5	30.10	3.5	<0.05	2490	<5	120	0.7	0.9	<2	0.5	1100	0.6	<0.1	<1	<0.05	3200
2213	2.53	13	3.6	2500	45	17.1	7	4	16	0.7	<0.02	0.32	0.7	29.90	3.5	0.06	3600	<5	130	0.7	0.9	<2	0.4	530	0.4	<0.1	<1	0.25	2300
2214	2.16	11	3.5	2000	43	23.8	7	4	18	<0.5	<0.03	0.32	1.1	27.90	4.6	0.09	2300	6	140	0.8	1.0	<2	0.6	930	0.6	<0.1	<1	0.20	2400
2215	1.83	<5	4.2	920	42	21.6	18	4	37	2.3	0.31	0.66	1.2	20.40	8.9	0.17	4090	<5	220	0.8	2.0	<2	1.2	1500	1.5	0.7	<1	0.68	2400
2216	2.10	<5	2.9	1100	41	13.9	7	4	17	2.0	<0.03	0.26	0.7	34.00	3.4	<0.05	3070	<5	420	0.5	0.8	<2	0.4	1200	0.3	<0.1	<1	0.17	2100
2217	2.15	<5	2.4	1700	44	18.8	<3	12	12	2.2	<0.03	0.19	0.5	28.50	2.4	0.06	2370	<5	340	0.4	0.5	<2	0.2	1000	0.4	<0.1	<1	<0.05	1900
2218	2.24	15	2.5	1900	61	25.8	5	6	19	5.0	<0.03	0.25	0.7	22.20	3.4	0.07	2300	<5	260	0.4	0.7	<2	0.4	1500	0.3	<0.1	<1	0.38	1700
2219	2.02	17	3.4	1100	35	20.4	9	5	22	1.5	<0.03	0.35	<0.5	22.50	4.9	<0.05	1850	<5	240	0.9	1.0	<2	0.7	1200	0.7	<0.1	<1	0.20	2600
2220	2.33	8	2.3	1200	26	11.4	5	7	16	2.4	<0.03	0.20	0.6	26.50	2.4	<0.05	1980	<5	410	0.5	0.6	<2	0.3	1100	<0.1	<0.1	<1	0.23	1800
2221	2.15	7	2.6	600	46	17.2	4	3	10	2.4	<0.02	0.21	0.8	22.30	3.5	<0.05	3440	<5	230	0.6	0.7	<2	0.4	620	0.4	<0.1	<1	0.22	2100
2222	1.99	12	3.2	1200	100	18.2	6	10	23	2.4	<0.03	0.27	<0.5	22.00	3.0	<0.05	1590	<5	360	0.7	0.7	<2	0.4	880	<0.1	<0.1	6	0.29	1700
2223	2.37	11	4.4	1100	59	21.7	8	3	11	3.7	<0.02	0.31	<0.5	18.10	4.7	<0.05	1500	<5	290	0.7	0.9	<2	0.6	1300	0.4	<0.1	<1	0.36	1800
2224	2.22	14	2.9	1300	45	23.9	9	3	27	5.2	<0.02	0.30	<0.5	20.80	4.5	<0.05	1100	<5	340	0.7	0.8	<2	0.6	1100	0.9	<0.1	2	0.33	1800

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
ICP-ES Analytical Data

Site Number	Ag ppm	Al %	B ppm	Be ppm	Cd ppm	Cu ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P %	Pb ppm	Sr ppm	V ppm
	0.1	0.01	2	0.2	0.2	1	2	0.01	1	1	1	0.001	3	1	2
2195	0.5	0.51	330	0.4	9.5	164	10	3.04	21494	<1	46	2.526	43	396	20
2196	0.6	0.58	659	<0.2	9.6	169	<2	3.21	19279	<1	110	2.111	78	955	39
2197	0.4	0.61	438	0.6	5.2	175	<2	4.37	36996	<1	38	2.184	68	768	50
2198	0.3	0.77	296	<0.2	8.6	145	6	3.81	19523	<1	45	2.205	96	616	34
2199	0.3	0.56	478	0.4	3.5	144	<2	4.70	10577	1	84	2.174	41	432	31
2200	0.6	0.41	346	0.3	8.4	156	<2	4.36	15522	<1	41	2.088	77	414	38
2201	0.6	0.59	323	<0.2	10.2	144	<2	3.24	14995	<1	72	3.325	40	328	30
2202	0.4	0.60	363	0.3	11.1	162	<2	3.85	13175	2	125	1.858	55	720	35
2203	0.7	0.52	321	0.5	12.2	202	<2	3.51	25922	<1	132	2.361	59	591	41
2204	0.4	0.45	343	0.4	19.0	129	<2	3.16	31077	<1	80	1.990	39	531	33
2205	0.2	0.24	322	0.3	5.0	183	5	3.06	19837	<1	44	2.646	33	957	15
2206	0.5	0.53	314	0.2	9.7	202	<2	4.04	14774	<1	46	2.623	26	955	21
2207	0.3	0.74	412	0.4	6.2	170	9	2.64	36605	<1	60	2.575	15	577	12
2208	0.4	0.96	334	<0.2	4.0	118	5	3.81	11262	<1	49	1.925	86	744	29
2209	<0.1	0.60	322	0.3	6.3	143	5	4.16	9078	2	52	3.904	11	378	7
2210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2211	0.5	0.93	358	0.2	11.5	131	5	3.69	13841	<1	71	2.053	60	853	17
2212	<0.1	0.59	342	0.3	12.6	163	<2	3.73	19572	1	67	2.387	29	710	17
2213	0.5	0.24	324	0.5	7.6	136	5	3.30	26750	<1	31	1.914	29	247	24
2214	0.2	0.29	454	0.3	3.0	186	<2	3.60	8502	<1	33	2.687	42	445	20
2215	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2216	0.8	0.51	416	<0.2	3.9	171	<2	4.25	13879	2	29	2.851	66	810	23
2217	<0.1	0.46	289	0.4	6.4	169	<2	4.24	34944	<1	54	2.593	32	755	13
2218	<0.1	0.55	383	0.2	3.8	155	<2	3.25	21822	<1	36	1.818	51	1016	17
2219	<0.1	0.82	339	0.3	5.8	122	10	5.74	14833	<1	61	2.553	127	961	26
2220	<0.1	0.70	308	0.3	7.9	161	5	4.07	57869	<1	69	4.298	36	756	16
2221	<0.1	0.83	494	0.3	5.3	174	<2	4.31	33185	<1	33	2.531	55	612	29
2222	<0.1	0.49	518	<0.2	13.9	169	<2	3.07	50117	<1	69	2.224	54	669	21
2223	0.1	0.62	309	0.5	3.7	126	14	4.16	8807	<1	45	1.960	63	981	69
2224	0.1	0.80	319	0.5	2.7	132	<2	3.48	6583	<1	47	1.988	121	829	39

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
2225	11D13	20	434684	4980270	6	9	0	DML	COG
2226	11D13	20	437507	4982596	6	8	0	WMB	COG
2227	11E3	20	484492	4995040	3	6	2E	DMW	COH
2228	11E3	20	472036	4992910	6	9	0	DMW	EC
2231	21H1	20	417960	4990916	6	7	1W	DMW	LCSV
2232	21H1	20	420347	4997386	6	9	0	DOW	EC
2233	21H1	20	418176	5001398	6	9	0	MMB	EC
2234	21H1	20	420301	5004085	7	9	0	DMW	EC
2235	11E4	20	429751	5010212	7	10	0	DML	EC
2236	11E4	20	431248	5007012	5	6	1N	MMB	LCSV
2237	11E4	20	435375	5008996	7	10	0	DMW	EC
2238	11E4	20	438046	5006249	5	7	0	MMW	LCSV
2240	11E4	20	432211	5002288	5	8	0	WMB	EC
2241	11E4	20	458140	4988024	6	8	0	DMW	EC
2242	11E4	20	449066	4989344	6	10	2N	DMW	EC
2243	11E4	20	447355	4984179	7	10	0	MMW	COG
2244	11E4	20	441813	4986348	6	9	0	MMW	COG
2245	11E4	20	442580	4993720	7	10	0	DMW	COH
2246	11E4	20	445698	5001003	4	5	0	DMW	EC
2247	11E4	20	445534	5008894	5	7	0	WOB	EC
2248	11E4	20	449889	5010295	5	6	2NW	DMW	EC
2249	11E3	20	472597	5003066	5	7	2W	DMW	EC
2250	11E3	20	487265	5004855	4	6	0	DOW	LCSV
2251	11E3	20	491735	4992740	5	6	1SW	DMW	COH
2252	11E3	20	483838	4990194	5	6	-	DMW	COH
2253	11E3	20	473294	4994058	5	6	0	MMW	EC
2254	11E2	20	506259	4990828	4	6	0	DMW	COH
2256	11E2	20	518258	4993615	5	6	0	DMW	COG
2257	11E2	20	519169	4994486	4	8	0	MOB	COG
2258	11E2	20	519240	4998673	5	7	0	MOB	COH

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996 INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
2225	2.19	<5	4.6	1400	62	20.7	10	5	17	5.5	<0.02	0.40	<0.5	19.90	5.4	0.08	1620	<5	400	0.8	1.1	<2	0.6	1400	0.9	<0.1	<1	0.22	3900
2226	2.18	11	3.3	1400	70	18.4	6	4	14	1.9	<0.03	0.35	<0.5	24.90	4.6	<0.05	1640	<5	340	0.8	1.0	<2	0.5	1300	0.7	<0.1	<1	0.36	1800
2227	2.51	6	2.1	2800	37	24.0	6	3	20	1.5	<0.03	0.38	1.0	24.00	5.1	<0.05	1700	<5	99	0.6	1.0	<2	0.6	570	0.8	<0.1	<1	0.42	2200
2228	3.02	8	3.4	600	44	27.1	6	2	16	1.1	<0.02	0.26	<0.5	18.80	3.6	<0.05	1450	<5	150	0.5	0.8	<2	0.5	2200	0.4	0.4	<1	0.28	1600
2231	2.23	11	3.8	1300	52	24.4	12	8	15	1.1	0.25	0.54	0.9	19.50	6.7	0.08	4330	<5	120	0.9	1.4	<2	1.0	1100	1.0	<0.1	<1	0.57	1600
2232	2.56	13	3.1	4200	35	21.5	11	5	25	1.1	<0.02	0.50	1.8	20.30	5.8	0.09	1460	<5	160	0.5	1.3	<2	0.9	700	1.0	<0.1	<1	0.40	1700
2233	2.52	<5	3.6	2700	50	19.2	6	5	18	<0.5	<0.03	0.31	1.0	25.70	3.3	0.07	1870	<5	200	0.8	0.9	<2	0.4	590	0.2	<0.1	<1	0.33	2100
2234	1.88	11	7.1	5000	150	15.0	7	8	23	1.2	<0.03	0.38	<0.5	28.50	3.7	0.07	2060	<5	430	0.9	0.9	<2	0.5	880	0.6	<0.1	<1	0.28	2100
2235	2.14	<5	4.8	2500	48	19.9	22	6	25	2.1	0.28	0.69	1.7	19.40	11.0	0.13	5300	14	180	0.9	2.2	<2	1.7	<300	1.9	<0.1	<1	0.97	1600
2236	2.16	<5	3.3	1600	26	21.2	<3	3	17	0.7	0.10	0.19	0.6	25.30	2.3	0.06	1110	<5	170	0.4	0.6	<2	0.3	310	0.1	<0.1	<1	<0.05	1700
2237	2.38	11	3.3	7400	39	21.1	5	2	18	<0.5	<0.02	0.23	<0.5	22.20	3.6	<0.05	1540	<5	160	0.5	0.6	<2	0.4	450	0.3	<0.1	<1	<0.05	2100
2238	2.67	6	5.2	5400	50	15.8	7	10	12	1.2	<0.03	0.30	<0.5	28.70	3.3	<0.05	3330	<5	290	0.9	0.7	<2	0.4	590	0.3	<0.1	<1	0.23	1400
2240	2.59	15	3.8	3300	36	21.4	8	5	11	1.0	<0.03	0.28	1.0	29.50	3.2	<0.05	1140	<5	260	0.6	0.7	<2	0.4	580	0.3	<0.1	<1	<0.05	1400
2241	2.40	<5	2.9	4500	26	25.7	7	9	18	2.9	<0.03	0.35	1.3	23.70	4.2	<0.05	1550	<5	480	0.4	0.9	<2	0.5	1200	0.5	<0.1	<1	0.28	2000
2242	2.05	38	3.5	7500	29	22.2	9	16	9	3.1	<0.03	0.26	1.2	22.30	6.5	<0.05	3430	<5	430	0.9	0.7	<2	0.5	1200	<0.1	<0.1	5	0.25	2400
2243	2.01	11	4.2	1600	41	22.7	6	4	27	5.0	0.19	0.25	<0.5	26.60	5.0	<0.05	2700	<5	670	0.7	0.7	<2	0.4	1300	0.3	<0.1	<1	0.20	2600
2244	1.90	8	5.5	2800	33	21.7	10	5	24	5.6	<0.03	0.42	0.9	21.20	5.2	0.07	4260	<5	360	1.4	1.0	<2	0.6	1500	0.8	<0.1	<1	0.32	4100
2245	2.07	20	6.9	2500	47	17.6	11	12	19	5.8	<0.03	0.53	1.0	26.10	6.9	<0.05	2340	<5	590	2.5	1.3	<2	0.8	700	1.4	<0.1	4	0.56	2200
2246	2.66	11	4.1	4300	29	23.0	6	7	17	2.4	0.28	0.38	1.3	17.90	6.7	0.06	2000	<5	150	0.7	1.0	<2	0.7	1500	0.9	<0.1	<1	0.44	4000
2247	2.14	12	4.5	4200	53	28.5	7	6	18	<0.5	<0.04	0.37	1.3	29.00	3.9	<0.05	2250	<5	230	0.8	1.1	<2	0.5	<300	0.4	<0.2	<1	0.33	3100
2248	2.55	15	6.0	3300	33	20.0	9	5	26	0.7	<0.03	0.43	1.9	25.70	6.0	<0.05	1570	<5	73	0.6	1.2	<2	0.8	540	0.8	0.7	<1	0.53	2900
2249	2.15	14	4.6	3800	34	22.4	13	6	7	2.0	0.35	0.37	1.4	26.90	5.9	0.08	1600	<5	520	0.9	1.0	<2	0.8	<300	0.6	<0.1	<1	0.36	1800
2250	2.19	10	3.6	5200	38	19.1	7	7	7	2.4	<0.02	0.27	1.3	20.20	4.1	0.06	1550	<5	310	0.6	0.8	<2	0.5	2700	0.5	<0.1	<1	0.40	2500
2251	2.18	7	4.0	2500	34	25.2	8	5	7	1.5	0.28	0.31	<0.5	18.80	5.1	<0.05	2160	<5	130	0.7	0.9	<2	0.5	1400	0.6	<0.1	<1	0.23	2300
2252	2.14	10	5.5	1600	35	18.8	10	6	6	3.7	<0.02	0.34	0.9	23.80	5.5	<0.05	1310	<5	340	0.8	0.9	<2	0.7	740	0.6	<0.1	<1	0.29	2500
2253	2.34	13	4.1	3900	30	23.7	7	5	7	1.3	<0.02	0.33	<0.5	14.90	4.0	<0.05	1800	<5	210	0.6	0.9	<2	0.4	1000	0.6	0.4	<1	0.34	2400
2254	2.13	6	2.6	1100	35	15.5	<3	11	<1	0.9	<0.02	0.16	<0.5	31.70	2.3	<0.05	1720	<5	330	0.3	0.4	<2	0.2	1100	0.2	<0.1	<1	0.20	2500
2256	2.20	14	2.4	980	37	20.9	5	3	<1	6.5	<0.03	0.24	0.6	26.90	2.8	<0.05	1190	<5	410	0.5	0.6	<2	0.4	1700	0.4	<0.1	<1	0.16	1400
2257	1.93	7	2.8	1200	31	20.5	7	4	6	3.5	<0.02	0.23	0.6	21.10	4.2	0.06	1620	<5	320	0.5	0.7	<2	0.4	2200	0.6	<0.1	<1	0.22	2400
2258	1.95	8	3.2	730	34	19.6	7	4	15	7.9	<0.02	0.30	0.7	24.10	4.0	<0.05	1470	<5	360	0.6	0.9	<2	0.6	1500	0.7	<0.1	<1	0.33	2200

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
ICP-ES Analytical Data

Site Number	Ag ppm	Al %	B ppm	Be ppm	Cd ppm	Cu ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P %	Pb ppm	Sr ppm	V ppm
	0.1	0.01	2	0.2	0.2	1	2	0.01	1	1	1	0.001	3	1	2
2225	0.2	0.64	384	<0.2	9.1	139	5	3.84	16970	1	63	1.880	77	1088	51
2226	<0.1	0.66	340	0.5	4.8	146	<2	4.40	19237	1	37	3.014	70	877	43
2227	<0.1	0.57	297	0.4	12.7	142	<2	3.54	17779	1	81	2.995	28	665	23
2228	0.2	0.17	254	0.3	6.6	123	<2	2.15	9215	1.3	19	1.225	46	1695	24
2231	0.5	0.86	631	0.4	3.6	121	10	2.57	31179	<1	41	1.466	123	723	52
2232	0.3	0.94	316	0.4	6.6	132	15	4.30	12440	2	54	2.233	52	603	18
2233	0.2	0.64	488	0.4	5.4	140	15	4.26	18026	<1	37	2.710	70	430	33
2234	0.3	1.08	330	0.6	4.9	148	<2	5.02	17684	<1	58	3.695	110	648	34
2235	0.3	0.95	338	<0.2	1.6	128	19	3.54	12078	<1	34	1.488	103	450	47
2236	0.3	0.31	297	0.5	8.4	124	<2	4.42	22494	<1	23	1.979	40	327	15
2237	0.2	0.18	409	0.4	7.5	130	6	4.02	10643	<1	23	1.664	79	277	21
2238	0.2	0.40	291	0.2	7.6	116	2	3.19	9469	<1	32	1.466	68	441	19
2240	0.3	0.93	352	0.3	6.6	135	6	4.42	7457	2	47	2.191	73	493	16
2241	0.4	0.65	343	<0.2	7.5	145	<2	4.53	18012	<1	61	2.137	55	688	31
2242	0.4	0.77	273	0.6	8.6	162	<2	4.70	19794	<1	98	2.629	59	721	33
2243	0.4	0.77	372	0.4	4.7	158	2	4.61	23042	<1	62	2.445	48	963	67
2244	0.6	0.54	360	0.2	16.9	195	<2	3.91	49729	<1	46	2.480	125	850	65
2245	0.4	0.77	321	0.2	13.7	143	11	3.14	68519	<1	61	2.911	116	456	69
2246	0.1	0.85	309	0.4	18.0	160	11	3.88	22045	<1	45	2.302	91	968	27
2247	0.2	0.40	355	0.3	14.2	197	<2	4.04	16141	<1	49	2.273	43	316	17
2248	0.1	0.86	221	<0.2	25.5	151	11	3.98	13561	2	80	3.136	55	313	25
2249	0.4	0.70	396	0.3	7.7	138	6	3.86	20665	4	59	1.807	114	451	38
2250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2251	<0.1	0.71	327	0.4	26.8	157	15	2.80	33957	<1	66	2.165	73	1088	42
2252	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2253	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2254	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2256	0.5	0.79	347	<0.2	9.5	164	14	4.69	9805	<1	28	3.637	58	1489	16
2257	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2258	0.3	0.73	401	0.5	6.7	181	6	3.89	16496	2	36	2.056	73	1316	28



# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
2259	11E2	20	518020	5001437	5	6	0	DMW	COG
2260	11E2	20	520160	5003377	5	7	0	MOB	DC
2261	11E2	20	517631	5005720	5	7	0	WOB	DC
2262	11E2	20	503812	5005106	5	8	0	DOW	COH
3001	11D13	20	435117	4967386	6	8	2	MMW	COH
3002	11D13	20	433652	4968201	7	8	2SE	DOL	COG
3003	11D13	20	431603	4969383	7	8	2SW	DMW	DC
3004	11D13	20	430299	4971214	7	8	2SW	DMW	DC
3005	11D13	20	428278	4972523	6	7	2SE	DDW	COG
3006	11D13	20	426791	4973070	7	9	0	DDW	COG
3007	11D13	20	425895	4975347	6	8	0	MMW	COG
3008	11D13	20	424157	4972695	5	8	2SE	DMW	COG
3009	11D13	20	423540	4974940	5	7	1S	DMW	COG
3010	11D13	20	421376	4976680	6	7	0	MMW	COH
3011	11D13	20	434185	4970230	5	8	2SW	DMW	DC
3012	11D13	20	435282	4974436	6	8	2N	DMW	COG
3013	11D13	20	433836	4972734	5	7	1E	DMW	COG
3014	11D13	20	431939	4973669	7	8	1W	MMW	COG
3015	11D13	20	430888	4976086	7	9	2SW	DMW	COG
3016	11D13	20	428487	4974094	5	7	1S	MDW	COG
3017	11D13	20	427683	4976341	5	8	0	MMW	COG
3018	11D13	20	425866	4978746	7	9	3SE	DOW	COH
3019	11D13	20	425902	4980720	3	6	1N	DMW	COH
3020	11D13	20	424655	4978005	6	9	3SW	MOW	COH
3021	11D13	20	422760	4978934	8	10	3N	DMW	EC
3023	11D13	20	423353	4982579	4	6	0	MOW	EC
3024	11E4	20	425807	4983428	7	10	1SW	DOW	COG
3025	11D13	20	427366	4982184	5	8	1N	DMW	COH
3026	11D13	20	427982	4980158	7	9	1NW	MMW	COH
3027	11D13	20	450137	4974797	4	6	1N	DOS	COG

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
2259	1.77	<5	3.9	1200	56	16.0	18	5	12	6.6	0.25	0.54	1.4	23.00	9.2	0.07	3830	<5	380	1.1	1.4	<2	1.0	1300	0.9	<0.1	<1	0.61	2500
2260	2.30	9	3.3	1200	40	23.9	8	3	24	11.0	<0.02	0.28	0.8	15.00	3.9	<0.05	1770	<5	340	0.8	0.7	6	0.4	1700	0.5	<0.1	<1	<0.05	1600
2261	2.01	13	1.9	1600	41	20.7	5	5	15	9.8	<0.03	0.25	0.8	25.40	4.1	<0.05	2250	<5	300	0.7	0.7	<2	0.5	1800	0.5	<0.1	<1	0.37	2500
2262	1.95	7	2.6	1400	34	19.4	4	5	25	2.5	<0.02	0.29	0.8	19.60	4.0	<0.05	1580	<5	230	0.7	0.7	<2	0.5	1500	0.4	<0.1	<1	0.32	2700
3001	1.99	<5	<0.5	2300	29	19.6	6	4	29	7.4	<0.02	0.25	1.0	20.70	4.5	<0.05	1720	6	370	0.5	0.7	<2	0.5	1200	0.3	<0.1	<1	0.18	2700
3002	1.86	5	1.3	2300	22	17.1	4	5	20	11.0	<0.02	0.18	<0.5	20.80	2.6	<0.05	1270	8	340	0.5	0.4	<2	0.3	1400	0.2	<0.1	<1	0.18	3300
3003	1.60	8	1.6	1000	54	17.8	4	2	26	5.9	<0.02	0.19	<0.5	21.20	3.2	<0.05	1110	<5	400	0.6	0.5	<2	0.3	1100	0.2	<0.1	<1	<0.05	2300
3004	1.88	5	0.7	1200	31	16.7	4	4	26	4.2	<0.02	0.22	<0.5	25.20	3.7	<0.05	1960	<5	440	0.5	0.5	<2	0.4	900	0.3	0.5	<1	0.28	2800
3005	1.81	6	1.1	1700	25	12.5	5	3	28	21.0	<0.02	0.17	<0.5	24.70	2.5	<0.05	1210	<5	770	0.5	0.4	<2	0.3	1900	0.1	<0.1	<1	0.10	2200
3006	1.98	5	2.3	1400	31	15.6	8	5	30	3.4	0.09	0.36	0.8	24.80	5.1	0.07	1580	6	280	0.5	0.8	<2	0.6	1400	0.4	<0.1	<1	0.35	2500
3007	1.74	6	1.5	3200	34	13.5	25	7	22	3.8	0.33	0.44	1.4	23.80	12.0	0.13	2930	<5	340	0.7	1.7	<2	1.6	1300	1.0	<0.1	<1	0.55	2500
3008	1.96	8	1.8	1900	27	18.9	3	6	18	9.0	<0.02	0.14	<0.5	26.00	1.9	<0.05	1110	<5	440	0.4	0.3	<2	0.2	1200	<0.1	<0.1	<1	0.13	1800
3009	1.78	12	1.5	2600	27	16.5	5	14	25	1.1	<0.02	0.20	0.7	24.60	3.9	<0.05	1540	<5	230	0.4	0.5	<2	0.3	870	0.2	<0.1	<1	0.30	2400
3010	1.58	12	2.2	4000	35	20.8	10	23	30	1.0	<0.03	0.30	1.2	21.20	7.4	0.07	1910	10	360	0.5	0.8	<2	0.7	1200	0.6	<0.1	<1	0.38	3200
3011	2.07	12	1.6	2700	34	22.9	4	4	14	2.3	<0.02	0.24	0.7	21.70	4.8	<0.05	2530	<5	300	0.7	0.5	<2	0.4	1800	0.4	<0.1	<1	0.22	3600
3012	1.69	18	3.5	1800	38	23.9	6	5	10	1.1	<0.02	0.24	<0.5	22.10	3.7	<0.05	1900	<5	200	0.9	0.5	3	0.4	1600	0.4	<0.1	<1	0.29	2100
3013	2.07	9	3.8	1500	33	19.2	17	4	11	2.6	0.30	0.59	1.1	26.10	10.0	0.10	2390	7	330	0.9	1.7	<2	1.3	1600	0.9	<0.1	<1	0.58	3200
3014	1.85	13	3.5	2000	34	23.3	8	5	6	10.0	<0.02	0.25	0.9	18.60	4.2	0.07	1530	<5	340	0.7	0.7	<2	0.5	1500	0.3	<0.1	<1	0.28	2700
3015	1.86	<5	2.0	1200	30	17.8	4	3	3	8.8	<0.02	0.18	<0.5	29.40	2.8	<0.05	958	<5	450	0.6	0.5	<2	0.4	1300	<0.1	<0.1	<1	<0.05	2000
3016	1.73	15	3.5	2700	29	21.2	13	7	6	2.7	<0.02	0.28	<0.5	19.70	6.9	<0.05	1450	8	240	0.5	0.9	<2	0.8	1100	0.4	<0.1	<1	0.35	3200
3017	1.81	9	3.1	2000	31	17.5	6	6	9	1.8	<0.03	0.32	0.7	20.10	4.2	0.05	1950	<5	260	0.6	0.8	<2	0.5	1300	0.5	0.9	<1	0.31	3600
3018	1.96	<5	2.4	1400	22	25.2	9	6	7	<0.5	<0.02	0.33	0.7	15.40	7.2	0.07	2060	6	60	0.7	0.8	<2	0.7	920	0.6	0.4	<1	0.35	1900
3019	2.28	7	2.3	1800	22	18.4	4	6	2	2.4	<0.02	0.14	<0.5	30.20	1.9	<0.05	1010	<5	230	0.3	0.3	<2	0.2	990	0.5	<0.1	<1	<0.05	2300
3020	1.94	12	4.5	2400	32	18.0	13	9	10	2.2	0.26	0.47	1.7	18.60	8.3	0.10	2180	<5	250	0.8	1.4	4	0.9	1400	1.2	<0.1	<1	0.44	2600
3021	2.47	23	3.3	2400	34	18.9	6	5	4	1.3	<0.02	0.25	<0.5	21.30	4.6	<0.05	2790	<5	130	0.5	0.7	2	0.5	920	0.2	<0.1	<1	0.22	2100
3023	2.49	9	2.9	860	23	16.9	3	2	3	<0.5	<0.02	0.23	0.6	29.80	2.6	<0.05	1530	<5	140	0.4	0.6	<2	0.3	2300	0.4	<0.1	<1	0.18	1300
3024	1.53	<5	2.5	2100	25	21.8	6	5	8	1.8	0.22	0.25	0.6	20.10	8.7	0.06	993	7	260	0.5	0.7	<2	0.9	1400	0.5	<0.1	3	0.33	2600
3025	1.97	7	3.2	2800	30	17.9	8	4	6	<0.5	<0.02	0.28	0.9	26.10	8.4	0.05	1050	<5	110	0.6	0.7	<2	0.6	890	0.4	<0.1	<1	0.20	2300
3026	1.84	20	4.0	3100	26	22.9	7	12	6	1.6	0.12	0.26	0.9	18.20	3.9	<0.05	1400	<5	200	0.6	0.6	<2	0.5	1000	0.5	<0.1	<1	0.25	1400
3027	2.17	11	4.3	3700	41	22.5	10	3	6	1.8	<0.02	0.30	1.0	21.30	8.0	<0.05	1480	<5	310	0.7	0.8	<2	0.6	1100	0.7	<0.1	<1	0.16	2700

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
2259	0.2	0.75	380	<0.2	6.0	200	6	5.89	13406	1	59	2.360	89	975	86
2260	0.3	0.85	347	0.2	7.1	145	11	5.97	17366	<1	36	1.964	59	1505	25
2261	<0.1	0.47	495	0.2	7.0	162	6	3.85	8372	<1	25	1.730	51	1012	31
2262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3001	0.3	0.60	305	0.5	9.7	125	6	4.38	9456	1	49	1.648	73	843	48
3002	0.6	0.59	354	0.2	17.7	204	<2	3.66	36667	1	54	2.544	50	917	44
3003	0.3	0.71	398	0.4	9.7	168	6	5.80	18910	<1	56	2.396	54	849	44
3004	0.3	0.83	537	0.3	5.3	137	6	5.60	19763	3	106	2.094	135	733	56
3005	0.6	0.82	358	0.3	11.7	160	6	3.19	56276	<1	81	2.397	56	1341	28
3006	0.2	0.83	411	<0.2	10.8	146	2	3.72	19795	1	69	2.133	90	1119	62
3007	<0.1	0.71	411	<0.2	9.5	204	<2	3.00	66674	<1	95	2.407	91	842	39
3008	<0.1	0.54	375	<0.2	8.7	178	9	4.04	19180	<1	35	2.612	37	874	28
3009	<0.1	0.72	360	0.2	9.7	224	13	4.60	29322	<1	140	2.558	52	510	22
3010	<0.1	1.00	433	0.3	12.8	232	8	4.12	45064	2	188	2.509	118	844	23
3011	0.2	0.54	414	<0.2	10.7	179	<2	3.91	14776	1	50	2.251	65	1085	108
3012	<0.1	0.66	446	0.2	7.4	177	<2	4.99	20374	3	125	2.336	91	1003	54
3013	<0.1	0.84	395	<0.2	6.0	179	12	4.73	12245	4	56	1.999	80	878	70
3014	<0.1	0.44	422	<0.2	8.8	155	6	4.33	14178	4	37	1.841	81	903	33
3015	<0.1	0.57	480	<0.2	6.8	147	<2	6.03	16304	5	54	2.241	48	754	25
3016	<0.1	0.63	355	<0.2	17.3	146	<2	4.21	41555	<1	63	2.016	42	515	22
3017	<0.1	0.72	415	<0.2	10.4	215	20	5.64	31116	2	88	2.884	85	786	41
3018	<0.1	0.59	311	0.2	2.9	214	<2	4.00	9633	<1	74	2.282	100	596	37
3019	0.2	0.55	316	<0.2	9.2	158	<2	3.77	7341	6	143	2.710	24	735	6
3020	<0.1	1.00	337	<0.2	14.8	200	8	3.83	64293	<1	57	2.510	87	1043	34
3021	<0.1	0.63	343	0.4	2.6	118	<2	7.07	14038	1	268	2.449	66	642	18
3023	0.1	0.36	387	0.3	9.2	168	13	2.04	8667	2	76	2.860	17	1737	7
3024	0.4	1.17	411	<0.2	8.7	167	<2	5.15	16740	7	70	1.977	54	991	17
3025	<0.1	0.65	325	0.2	12.8	167	<2	4.36	15483	1	260	2.938	40	650	14
3026	0.1	0.62	323	<0.2	9.0	155	7	4.38	21966	<1	93	2.050	73	965	20
3027	<0.1	0.46	354	0.2	8.7	130	<2	2.70	17732	4	60	1.874	92	835	103

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
3028	11D13	20	446202	4971544	6	8	0	MOB	COG
3029	11D13	20	448151	4977709	5	7	0	MMW	COG
3030	11D13	20	448675	4979930	5	8	0	MMW	COG
3033	11E4	20	455008	4986033	5	7	1S	DMF	EC
3034	11E4	20	455085	4987612	4	10	2	DOF	EC
3036	11E4	20	451239	4992481	6	7	0	DMW	EC
3037	11E4	20	424373	4984595	7	8	0	MMW	EC
3038	11E4	20	421932	4986102	6	10	3NW	DMF	EC
3039	11E4	20	424560	4987109	8	11	3NW	MMW	EC
3040	11E4	20	426587	4987711	7	10	3NW	DMF	EC
3041	11E4	20	423686	4989274	9	10	1SE	DOL	EC
3042	11E4	20	426435	4990757	8	10	2SE	MMW	EC
3043	11E4	20	429238	4991622	8	10	0	DMW	EC
3044	11E4	20	429936	4989221	7	9	0	DMW	EC
3045	11E4	20	429222	4987205	8	11	1N	DMW	H
3046	11E4	20	426801	4985230	6	9	0	DMW	EC
3047	11E4	20	428705	4984452	7	8	-	MOW	COH
3048	11E4	20	430444	4984801	7	10	2SE	DMW	COH
3049	11E4	20	432975	4985959	7	11	2NW	DMW	COH
3050	11E4	20	433208	4988558	7	9	2W	MMW	COH
3051	11E4	20	432298	4990518	8	10	0	MMW	EC
3053	11E3	20	467778	4986379	7	9	0	MMW	EC
3054	11E3	20	469229	4985512	6	8	0	DDW	EC
3055	11E3	20	470615	4987415	7	9	2SE	DMW	EC
3056	11E3	20	471810	4985979	8	10	2E	DOF	EC
3057	11E3	20	472406	4986520	7	10	2SE	DMW	EC
3058	11E3	20	473493	4986740	6	8	0	MMW	EC
3059	11E3	20	474152	4986299	7	9	0	DMW	EC
3060	11E3	20	474920	4984798	8	10	0	MMW	EC
3061	11E3	20	477082	4984524	8	10	0	DMW	EC

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1.	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
3028	2.06	11	2.3	1900	22	21.5	4	4	<1	1.3	<0.02	0.17	<0.5	21.60	4.3	<0.05	1160	<5	390	0.5	0.4	<2	0.3	1300	0.2	<0.1	<1	<0.05	1900
3029	1.99	7	2.5	2000	24	18.4	7	5	5	1.5	<0.02	0.29	<0.5	27.00	4.7	0.05	1390	<5	340	0.4	0.8	<2	0.5	700	0.4	0.3	<1	0.16	1700
3030	1.98	6	2.2	3000	16	19.9	6	6	3	2.2	<0.02	0.16	0.7	22.80	3.5	<0.05	720	<5	330	0.4	0.4	<2	0.3	1000	0.4	<0.1	<1	<0.05	1500
3033	1.80	11	3.1	2900	28	20.4	4	7	4	1.1	<0.02	0.24	0.9	24.30	3.8	<0.05	992	<5	390	0.5	0.6	<2	0.4	1100	0.3	<0.1	<1	<0.05	2000
3034	2.23	150	6.8	2900	45	18.4	19	9	19	4.1	0.35	0.78	1.9	24.30	11.0	0.14	4250	11	340	1.0	2.2	<2	1.5	730	1.5	0.5	4	0.88	2200
3036	1.81	9	4.6	6300	23	21.7	24	8	38	1.6	0.38	0.88	2.4	21.60	14.0	0.17	2200	12	240	0.7	2.3	<2	2.0	940	1.7	0.7	<1	0.89	2800
3037	1.93	8	<0.5	3300	30	22.9	5	3	13	<0.5	<0.02	0.15	<0.5	21.60	6.4	<0.05	6120	<5	81	0.4	0.3	<2	0.4	1500	0.3	<0.1	<1	<0.05	1700
3038	2.06	12	5.0	2200	67	22.1	11	9	31	<0.5	<0.03	0.44	<0.5	21.70	5.3	0.09	2840	<5	38	0.8	1.3	<2	0.7	1200	1.0	<0.1	<1	0.49	1200
3039	2.50	15	2.9	1400	45	28.6	8	3	16	1.0	<0.02	0.33	0.6	17.10	4.0	0.06	2330	<5	32	0.5	0.9	<2	0.6	340	0.7	<0.1	<1	0.35	1300
3040	1.72	8	6.7	4300	35	23.6	18	6	29	1.3	0.33	0.78	1.8	21.30	11.0	0.12	2580	13	87	0.7	1.8	<2	1.5	700	1.3	<0.1	<1	0.67	1800
3041	1.82	11	3.7	4900	33	27.2	15	5	26	1.3	0.19	0.53	1.6	17.60	7.1	0.09	2250	<5	110	0.9	1.4	<2	1.1	990	1.1	0.5	<1	0.56	1900
3042	1.93	9	7.2	5100	41	22.1	17	8	34	1.3	0.34	0.86	2.1	24.00	9.2	0.13	2360	11	250	0.5	2.1	<2	1.5	830	1.6	<0.1	<1	0.75	2300
3043	2.37	10	3.8	3100	68	14.7	13	6	16	1.2	<0.03	0.64	1.4	24.80	6.7	0.13	2610	<5	88	0.5	1.8	<2	1.2	720	1.1	<0.1	<1	0.59	2300
3044	1.99	<5	3.7	3300	34	17.3	6	5	22	0.5	<0.02	0.27	1.0	28.20	3.9	<0.05	1520	<5	190	0.3	0.6	<2	0.5	1200	0.5	<0.1	<1	0.25	2400
3045	2.03	<5	2.8	4100	49	22.4	6	4	22	<0.5	<0.03	0.32	1.2	19.20	3.9	0.08	1500	<5	91	0.5	0.8	<2	0.6	890	0.4	<0.1	<1	0.23	2200
3046	1.78	10	<0.5	2400	56	18.4	9	16	22	1.1	<0.03	0.20	<0.5	29.00	4.7	0.05	1580	<5	190	0.3	0.5	<2	0.5	880	0.3	<0.1	<1	0.23	2400
3047	1.99	<5	0.9	1200	44	18.9	5	3	20	1.8	<0.02	0.17	<0.5	22.40	2.7	<0.05	1100	<5	170	0.3	0.4	<2	0.3	1200	<0.1	<0.1	<1	0.21	2300
3048	1.61	<5	2.0	1600	41	13.1	8	6	26	3.3	<0.03	0.27	<0.5	23.40	3.4	0.06	1740	<5	260	0.4	0.8	<2	0.6	1100	0.7	<0.1	<1	0.34	2500
3049	1.60	6	1.2	1800	44	20.5	4	3	32	<0.5	0.21	0.19	<0.5	22.30	3.0	<0.05	1150	<5	150	0.4	0.4	<2	0.3	1500	0.5	<0.1	<1	<0.05	3300
3050	1.84	<5	2.7	1800	35	18.1	7	11	27	0.9	<0.03	0.32	1.0	21.00	4.1	<0.05	1810	<5	170	0.4	0.9	<2	0.6	830	0.6	<0.1	<1	0.15	1900
3051	1.68	<5	2.7	2900	47	22.7	5	12	18	0.7	<0.03	0.22	0.9	22.50	2.8	<0.05	987	6	270	0.4	0.6	<2	0.4	1100	0.4	<0.1	2	0.18	2400
3053	1.88	5	2.3	1100	48	22.5	9	4	24	1.2	<0.03	0.38	<0.5	18.20	5.3	0.07	2060	8	190	0.5	1.0	<2	0.9	1000	0.7	<0.1	<1	0.37	2000
3054	2.23	6	2.0	2400	44	17.1	14	5	35	1.3	0.09	0.52	1.4	26.30	6.6	0.11	3710	<5	210	0.4	1.4	<2	1.1	520	0.9	0.5	<1	0.41	2000
3055	2.10	<5	2.1	3700	63	18.1	8	3	23	0.5	<0.03	0.29	1.2	26.10	3.2	<0.05	1270	<5	31	0.3	0.7	<2	0.5	450	0.7	<0.1	<1	0.33	2000
3056	2.00	<5	2.1	2700	77	23.6	11	5	25	<0.5	<0.04	0.53	1.6	21.10	5.9	0.16	2270	<5	52	0.4	1.4	<2	1.0	470	0.9	0.8	<1	0.64	1800
3057	1.70	29	4.3	2800	31	19.9	14	10	20	1.6	0.24	0.51	1.4	19.70	6.7	0.10	3030	11	230	0.6	1.4	<2	0.9	1100	0.9	0.5	<1	0.50	2200
3058	1.87	<5	3.3	1600	44	15.1	5	7	21	1.2	<0.02	0.28	1.0	28.40	3.0	<0.05	2040	<5	290	0.3	0.8	<2	0.4	660	0.4	<0.1	<1	0.22	2500
3059	2.42	25	4.2	1300	23	18.8	17	4	20	1.2	0.28	0.61	1.5	20.50	10.0	0.15	2910	<5	170	0.5	1.7	<2	1.3	970	1.1	0.5	<1	0.74	1600
3060	1.99	30	4.2	2200	36	22.6	15	3	24	4.1	0.28	0.49	1.5	15.70	7.0	0.09	1770	11	300	0.8	1.4	<2	1.0	350	0.8	0.4	<1	0.56	2600
3061	1.63	10	3.6	3500	46	21.1	9	5	28	2.7	<0.02	0.30	1.2	20.70	5.2	0.06	1270	<5	340	0.7	0.8	<2	0.6	640	0.4	<0.1	<1	0.29	2100

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
3028	<0.1	0.38	288	<0.2	18.8	143	<2	3.71	31605	<1	149	1.892	37	909	50
3029	0.1	0.60	354	<0.2	4.7	110	<2	2.29	24486	<1	52	1.628	27	551	30
3030	<0.1	0.29	395	<0.2	6.6	153	<2	3.77	35368	<1	32	1.676	29	655	28
3033	0.1	0.57	356	<0.2	13.3	180	<2	3.64	19315	2	115	2.207	34	756	25
3034	<0.1	0.83	289	0.2	12.6	158	4	3.93	12245	<1	78	2.392	61	431	58
3036	0.4	1.06	337	0.3	17.9	215	9	4.02	14082	<1	107	2.327	38	548	23
3037	0.5	0.85	343	0.2	14.0	164	<2	5.51	7365	<1	214	2.234	37	1145	6
3038	0.2	0.61	261	<0.2	8.4	143	19	3.34	5787	<1	86	2.482	42	819	31
3039	0.2	0.23	228	0.3	7.6	102	2	3.02	5272	<1	39	1.388	56	251	20
3040	0.2	0.86	293	<0.2	3.7	177	12	4.00	6500	3	97	2.005	67	428	24
3041	1.6	0.66	273	<0.2	4.5	137	<2	2.61	19552	2	38	1.491	99	483	30
3042	0.7	0.65	261	<0.2	7.4	157	<2	2.69	14353	<1	39	1.593	16	587	11
3043	1.5	0.51	372	<0.2	5.6	119	4	1.80	30967	4	53	1.470	35	396	16
3044	0.5	0.63	300	0.3	5.8	160	<2	3.25	12233	<1	160	1.991	31	732	9
3045	1.0	0.46	310	0.3	11.1	150	<2	2.82	17231	<1	52	1.983	76	617	16
3046	0.5	0.52	288	0.4	8.0	167	<2	4.40	12226	<1	184	1.873	29	514	10
3047	1.5	0.67	289	<0.2	8.3	135	<2	4.10	27486	2	51	2.079	35	805	14
3048	1.6	0.64	318	<0.2	7.7	149	2	4.05	46357	<1	92	3.003	41	829	18
3049	0.4	0.71	285	<0.2	6.3	156	<2	4.44	13089	<1	192	2.964	36	1031	12
3050	0.7	0.40	244	0.5	8.3	155	9	4.82	14397	<1	93	2.104	42	594	14
3051	0.2	0.39	283	0.2	7.6	171	4	3.72	11146	<1	56	1.719	41	625	17
3053	0.3	0.50	301	<0.2	3.8	140	<2	3.84	11279	<1	29	1.592	86	511	26
3054	0.3	0.65	226	<0.2	6.2	141	10	3.82	8227	<1	46	1.913	107	231	19
3055	0.5	0.19	225	0.4	4.8	152	<2	3.66	2994	1	30	2.596	24	291	8
3056	0.1	0.50	269	0.2	2.9	159	<2	3.11	3832	<1	32	2.227	49	304	22
3057	0.7	1.01	440	0.3	4.4	212	6	5.27	13362	1	71	2.324	195	533	32
3058	1.2	0.42	401	0.2	7.1	212	4	4.17	22931	1	37	2.633	75	355	13
3059	0.7	0.44	368	0.2	5.3	127	4	4.02	9564	2	67	1.537	155	614	26
3060	1.3	0.57	372	0.2	5.0	153	3	3.82	26472	<1	48	1.574	248	348	34
3061	1.3	0.56	424	0.3	5.7	200	2	5.17	22463	4	91	2.460	106	438	34

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
3062	11E3	20	479071	4986753	8	10	2S	DMW	EC
3063	11E3	20	482172	4987658	7	9	1NW	DMW	EC
3064	11E3	20	481831	4989192	8	10	2E	DMW	COH
3065	11E3	20	481664	4992774	7	9	1NW	DMW	COH
3066	11E3	20	481797	4994590	7	9	2NW	DMW	COH
3067	11E3	20	480134	4995472	6	8	2NE	DMW	EC
3068	11E3	20	477176	4996576	6	9	0	DMW	EC
3069	11E3	20	467437	4995115	5	8	1SW	DMW	EC
3070	11E3	20	467789	4997229	5	8	0	MMW	EC
3071	11E3	20	467509	4999508	6	9	2SW	DMW	EC
3072	11E3	20	465483	5000441	4	7	4SW	DDW	EC
3073	11E3	20	466979	5002028	5	9	1SW	DMW	EC
3074	11E3	20	466727	5003999	5	8	0	DMW	EC
3075	11E3	20	464206	5003775	4	6	0	DMW	H
3076	11E3	20	462529	5004736	4	6	0	DMW	H
3077	11E3	20	461356	5004004	3	5	1SE	MMW	H
3078	11E4	20	459691	5001587	6	8	1NE	MMW	H
3079	11E4	20	458644	4998194	5	8	2SW	DMW	H
3080	11E4	20	458941	5005405	4	6	2E	MMW	H
3081	11E4	20	459007	5006932	4	6	0	DDW	EC
3082	11E4	20	460555	5009007	4	6	1E	DDW	H
3083	11E3	20	460930	5007073	3	6	1SE	DMW	H
3084	11E4	20	457209	5006034	4	8	0	MOW	H
3085	11E4	20	457338	5000227	4	9	1NW	DOP	H
3086	11E3	20	465958	5005131	6	7	2NE	DMW	EC
3087	11E3	20	466145	5007334	6	8	2N	DOW	H
3088	11E3	20	464650	5007878	8	10	2SE	DMW	EC
3089	11E3	20	463098	5010536	6	8	2NE	DOW	H
3090	11E6	20	462288	5013552	7	9	0	MMW	EC
3091	11E6	20	461578	5016494	5	6	1NE	DMW	EC

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
3062	1.96	7	1.5	4000	29	21.2	6	7	20	0.7	<0.02	0.23	1.0	21.40	3.6	0.06	1620	<5	150	0.5	0.7	<2	0.4	1000	0.3	<0.1	<1	0.19	1700
3063	1.53	11	2.6	2200	38	17.1	6	8	28	1.3	<0.02	0.23	<0.5	24.20	3.0	<0.05	1390	<5	280	0.5	0.6	<2	0.3	1000	0.3	<0.1	<1	0.13	1600
3064	1.60	11	3.5	2300	25	22.1	10	7	28	1.3	<0.02	0.34	0.6	19.10	5.3	0.07	3590	<5	200	0.7	0.9	<2	0.6	1100	0.5	<0.1	3	0.33	3200
3065	1.73	9	1.4	3300	34	22.6	5	4	23	0.6	<0.02	0.21	<0.5	24.00	2.8	<0.05	1300	<5	180	0.4	0.5	<2	0.3	1100	<0.1	<0.1	<1	0.19	3600
3066	1.54	9	2.2	3900	50	17.6	9	6	31	3.0	<0.02	0.38	1.0	20.00	6.0	0.08	1830	<5	310	0.8	0.9	<2	0.5	1200	0.6	<0.1	4	0.37	2900
3067	1.96	<5	3.4	3800	63	21.0	4	5	25	0.8	<0.03	0.28	1.0	27.90	3.5	<0.05	2940	<5	220	0.6	0.8	<2	0.4	620	0.4	<0.1	3	<0.05	1600
3068	1.75	6	3.0	2900	50	20.2	7	6	49	<0.5	<0.02	0.38	1.0	24.90	4.7	0.08	1860	<5	210	0.8	1.0	<2	0.6	580	0.6	<0.1	<1	0.50	3000
3069	1.91	11	3.9	3800	25	14.7	10	7	28	1.7	<0.03	0.48	1.1	31.50	5.3	0.06	2120	<5	290	0.8	1.4	<2	0.7	1100	0.7	<0.1	<1	0.43	2400
3070	2.26	9	2.8	2900	37	20.0	11	6	20	4.4	<0.02	0.41	1.1	25.30	6.3	0.09	2060	7	280	0.5	1.3	<2	0.8	1100	0.8	<0.1	<1	0.50	2900
3071	2.30	11	3.2	3700	17	18.6	17	3	29	1.4	0.31	0.52	1.6	21.90	9.3	0.10	2510	<5	190	0.6	1.6	<2	1.4	1700	0.9	<0.1	<1	0.65	1600
3072	2.15	11	1.9	2200	16	20.9	4	4	32	<0.5	<0.02	0.22	<0.5	25.00	2.2	<0.05	1280	<5	53	0.3	0.5	4	0.3	550	0.4	<0.1	<1	0.19	2300
3073	1.98	8	3.5	3300	78	17.1	6	5	16	1.9	<0.02	0.30	1.3	31.90	3.9	<0.05	1760	<5	220	0.6	0.8	4	0.5	1100	0.6	<0.1	<1	0.26	1500
3074	2.14	11	4.1	4300	30	18.1	22	6	35	1.9	0.40	0.83	2.3	21.60	12.0	0.17	2710	13	170	1.2	2.6	<2	1.8	880	1.8	<0.1	3	1.07	1800
3075	2.16	9	4.2	1800	33	18.7	21	6	32	5.0	0.42	0.73	2.0	22.90	9.7	0.17	1630	<5	450	0.8	2.5	<2	1.5	1200	1.7	0.6	<1	0.90	3100
3076	2.52	<5	2.6	2800	17	18.8	7	4	22	1.3	<0.02	0.29	1.0	28.80	3.5	<0.05	1760	<5	350	0.4	0.9	<2	0.5	890	0.3	<0.1	<1	0.32	1700
3077	2.02	8	2.9	5100	21	16.5	16	16	29	1.5	0.30	0.59	2.1	23.90	8.4	0.16	2520	<5	160	0.5	1.9	<2	1.3	1200	1.2	<0.1	<1	0.74	2800
3078	2.50	6	3.5	1500	32	16.4	20	5	32	2.6	0.46	0.76	1.7	24.90	10.0	0.18	1900	12	320	0.6	2.6	<2	1.6	630	1.9	0.8	<1	0.87	1500
3079	2.13	11	4.7	4100	48	20.2	14	31	42	2.6	0.30	0.49	1.5	23.20	7.7	0.13	4090	<5	320	0.9	1.5	<2	1.0	940	0.9	<0.1	<1	0.57	1600
3080	2.23	7	2.1	3000	23	16.9	<3	5	11	1.8	<0.02	0.21	0.6	28.30	2.1	<0.05	891	<5	340	0.5	0.5	<2	0.3	780	0.3	<0.1	<1	0.20	2300
3081	2.23	8	2.8	2700	67	19.2	8	6	17	20.0	<0.02	0.27	0.9	26.80	3.2	0.09	1150	6	960	0.8	0.7	<2	0.4	1500	0.6	<0.1	<1	0.32	2500
3082	2.01	11	3.6	5300	33	16.8	9	12	36	3.7	<0.02	0.33	1.2	22.10	4.5	<0.05	1360	<5	330	0.8	0.9	<2	0.6	950	0.6	<0.1	<1	0.29	2500
3083	2.42	8	4.7	2200	26	18.8	8	4	21	4.3	0.21	0.38	1.0	23.90	4.3	<0.05	1810	<5	340	0.7	0.9	<2	0.6	930	0.9	<0.1	<1	0.37	2300
3084	2.05	5	5.6	4200	38	15.0	22	10	32	1.2	0.29	0.88	2.7	22.00	11.0	0.19	2910	<5	170	0.9	2.6	<2	1.6	790	2.2	<0.1	<1	0.83	2200
3085	1.78	8	2.8	5400	22	22.8	5	4	33	<0.5	<0.02	0.22	<0.5	20.00	3.4	<0.05	3230	<5	95	0.7	0.7	<2	0.4	1100	0.5	<0.1	<1	0.17	3400
3086	1.88	11	2.3	3600	25	19.8	9	4	31	0.5	<0.02	0.32	1.1	25.50	4.1	0.06	1630	<5	110	0.5	0.9	<2	0.6	940	0.7	<0.1	<1	0.29	1200
3087	1.89	8	2.7	2500	28	18.1	4	6	24	0.9	0.09	0.22	0.9	24.60	2.8	<0.05	1550	<5	180	0.5	0.6	<2	0.3	1300	0.3	<0.1	<1	0.13	2400
3088	1.78	6	2.7	4100	17	24.8	6	3	23	0.7	<0.02	0.25	<0.5	19.30	3.8	<0.05	2190	<5	210	0.5	0.7	<2	0.5	940	0.7	<0.1	<1	0.31	1700
3089	1.76	<5	2.7	1300	26	17.0	8	6	21	1.0	<0.02	0.30	0.8	26.60	3.5	0.06	2460	<5	260	0.6	0.9	<2	0.5	780	0.4	<0.1	<1	0.18	1600
3090	2.04	6	3.1	2200	45	20.7	6	5	25	2.3	0.17	0.28	0.9	21.40	3.4	0.07	1510	<5	370	0.7	0.8	2	0.5	1000	0.5	<0.1	<1	0.25	2200
3091	2.12	6	2.3	4000	26	23.6	5	3	24	0.9	<0.02	0.20	<0.5	19.40	2.8	<0.05	1170	<5	92	0.4	0.6	<2	0.3	690	0.4	<0.1	<1	0.19	1300



# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## ICP-ES Analytical Data

Site Number	Ag ppm	Al %	B ppm	Be ppm	Cd ppm	Cu ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P %	Pb ppm	Sr ppm	V ppm
	0.1	0.01	2	0.2	0.2	1	2	0.01	1	1	1	0.001	3	1	2
3062	1.0	0.79	398	0.4	10.3	195	<2	4.58	20333	3	66	2.314	54	482	20
3063	1.1	0.73	402	0.2	9.4	242	<2	4.72	25133	1	95	2.657	59	548	20
3064	1.7	0.50	392	0.5	13.8	220	3	4.19	30783	<1	109	1.842	98	563	35
3065	1.0	0.66	374	0.2	12.7	211	<2	3.68	19347	<1	136	2.192	52	597	21
3066	2.6	0.93	368	0.6	12.4	255	3	4.56	55885	<1	65	3.365	101	645	29
3067	0.5	0.60	376	0.3	4.1	206	2	3.88	11157	2	69	2.868	54	340	15
3068	1.0	0.37	369	<0.2	7.0	194	4	4.44	31338	6	40	2.330	126	342	25
3069	0.3	0.57	373	0.4	4.6	212	2	4.21	18427	2	80	2.691	83	568	25
3070	0.8	0.73	469	<0.2	7.7	160	3	4.12	11007	<1	49	2.105	63	538	35
3071	0.6	0.91	448	0.7	11.2	194	5	4.07	13400	<1	106	2.892	62	881	18
3072	<0.3	0.50	335	0.2	9.5	185	<2	3.94	5135	1	34	2.461	38	391	10
3073	1.0	0.52	498	<0.2	3.9	189	2	3.95	17132	1	68	2.417	45	538	20
3074	1.0	1.02	385	0.3	13.3	201	7	4.56	17137	<1	38	2.781	108	440	46
3075	1.0	1.02	411	0.4	11.5	196	14	3.39	29043	2	48	2.767	74	555	27
3076	0.8	0.68	328	0.2	9.1	137	3	3.37	17571	2	39	2.407	32	430	13
3077	1.1	1.03	462	0.7	9.5	206	14	5.17	32843	<1	97	2.645	42	619	22
3078	1.2	0.97	359	0.3	3.4	148	12	2.91	21012	1	38	2.083	51	401	30
3079	1.2	0.89	321	0.4	9.8	167	6	3.98	18132	2	57	1.983	66	518	44
3080	1.5	0.64	324	0.4	21.7	158	7	3.78	43683	2	71	3.416	57	576	12
3081	1.1	0.64	403	0.4	10.2	215	7	4.08	28338	<1	53	2.742	71	922	21
3082	2.3	0.88	353	0.8	11.3	208	2	3.25	59898	<1	53	2.828	105	722	27
3083	1.5	0.65	432	0.5	19.7	166	5	2.70	40902	<1	37	2.224	105	624	27
3084	1.6	1.06	413	0.6	3.8	232	10	3.58	22943	1	67	2.268	90	548	31
3085	1.1	0.71	426	0.2	13.9	188	2	4.43	15060	<1	66	2.686	105	604	27
3086	0.8	0.59	303	0.3	4.6	185	2	3.28	10042	<1	53	2.774	48	411	15
3087	1.5	0.70	318	0.5	9.3	235	<2	4.68	24033	<1	57	3.022	36	633	9
3088	1.0	0.43	457	0.2	5.5	226	3	3.93	12931	2	41	2.051	38	433	26
3089	<0.3	0.77	430	0.3	3.7	174	5	5.67	16093	<1	82	2.727	71	571	17
3090	0.4	0.58	423	0.2	8.5	145	<2	4.43	24447	<1	42	2.399	92	465	26
3091	0.4	0.49	324	<0.2	9.4	190	<2	4.33	12389	<1	53	2.452	37	425	12

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996 Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
3092	11E5	20	459676	5015069	8	10	2NE	DMW	H
3093	11E5	20	458815	5013209	8	10	0	MOW	H
3094	11E5	20	458780	5010908	8	10	1	DOW	EC
3095	11E5	20	460656	5011353	8	10	0	MMW	EC
3096	11E4	20	456147	5009495	5	7	2NW	DML	EC
3097	11E4	20	453138	5008616	7	9	2NE	DMW	EC
3098	11E4	20	451313	5007023	8	10	1NW	WMW	LCSV
3101	11E5	20	446202	5012924	7	9	0	WOW	EC
3102	11E3	20	486694	4998953	7	9	1NW	DMW	EC
3103	11E3	20	489154	4998830	7	9	0	MMW	EC
3104	11E3	20	491080	5000115	7	9	1N	DMW	EC
3105	11E3	20	492388	5002226	7	10	1NW	DMW	EC
3106	11E3	20	494294	5003169	8	10	1SW	DDS	EC
3107	11E3	20	495305	5004068	6	9	1SW	MDW	LCSV
3108	11E3	20	498266	5006215	5	8	0	DMW	EC
3109	11E3	20	497313	5007202	6	8	0	DMW	EC
3110	11E3	20	496736	5009523	6	8	2NW	DOW	EC
3111	11E3	20	493701	5010119	7	9	1S	DMW	H
3112	11E3	20	490981	5008916	6	8	1SE	DMW	EC
3113	11E3	20	490461	5006186	7	9	2SW	DMW	LCSV
3114	11E3	20	493860	5006192	7	9	2N	DMW	EC
3115	11E3	20	495952	5005723	8	10	0	MMW	LCSV
3116	11E3	20	491384	5003291	5	8	1S	DMW	LCSV
3117	11E3	20	489172	5002901	5	8	2NE	DOS	LCSV
3118	11E3	20	487240	5002058	8	10	1W	DDW	LCSV
3119	11E3	20	484405	5002540	7	10	1SW	MMW	EC
3120	11E3	20	484437	5004158	6	8	0	MDW	EC
3121	11E3	20	483498	5003160	5	7	1N	MMW	EC
3122	11E3	20	481500	5002565	8	9	1N	DMW	EC
3123	11E3	20	479679	5001276	5	8	0	DML	EC

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
3092	1.62	8	3.1	3400	21	21.3	4	3	28	9.9	<0.02	0.20	0.8	18.60	2.8	<0.05	1020	<5	480	0.8	0.5	2	0.4	1000	0.3	<0.1	<1	0.15	2300
3093	1.76	7	3.2	4200	22	17.6	6	5	26	1.5	<0.02	0.28	1.0	22.20	3.3	0.05	1600	<5	250	0.6	0.8	<2	0.4	1100	0.6	<0.1	<1	0.23	2000
3094	1.79	6	2.4	2800	23	23.3	5	5	27	0.9	<0.02	0.23	0.7	20.80	2.8	0.05	1630	<5	140	0.6	0.6	<2	0.3	830	0.2	<0.1	<1	0.12	2500
3095	2.11	7	1.8	4200	24	23.2	7	3	17	<0.5	<0.02	0.23	1.0	19.50	3.2	<0.05	1390	<5	220	0.4	0.6	<2	0.5	980	0.2	<0.1	<1	0.17	2700
3096	1.96	11	3.0	3200	33	14.1	6	8	28	0.8	<0.02	0.28	0.8	31.80	3.5	0.07	1880	<5	68	0.4	0.8	<2	0.5	740	0.3	<0.1	<1	0.25	1800
3097	1.89	8	2.6	2200	34	24.2	4	4	14	0.6	<0.02	0.24	0.9	19.30	2.9	<0.05	3380	<5	130	0.6	0.7	<2	0.4	1000	0.6	<0.1	<1	0.26	1600
3098	1.75	<5	2.5	4400	19	22.0	4	11	23	3.0	<0.02	0.24	0.9	17.30	3.3	0.05	1560	<5	240	0.6	0.7	<2	0.4	630	0.4	<0.1	<1	0.22	1800
3101	2.19	8	2.7	2600	26	18.9	10	7	19	0.9	<0.02	0.46	1.0	25.30	4.5	0.07	3000	<5	150	0.4	1.3	<2	0.7	2300	0.8	<0.1	<1	0.34	1100
3102	2.18	6	4.3	4600	31	20.5	25	8	29	1.7	0.53	0.84	4.0	17.10	13.0	0.21	3030	16	150	0.9	2.5	<2	2.0	750	2.2	0.9	<1	1.30	2500
3103	2.89	7	5.7	2500	18	16.8	44	8	43	2.0	0.89	1.57	4.6	14.40	21.0	0.38	4360	24	120	0.6	4.3	<2	3.5	1300	4.1	1.5	<1	2.09	1500
3104	1.92	10	4.0	2900	28	20.7	14	5	26	2.3	0.31	0.66	2.1	14.80	7.4	0.13	2420	9	210	0.7	1.9	<2	1.1	1300	1.3	<0.1	<1	0.64	3200
3105	1.89	9	3.4	2300	31	16.3	10	8	20	0.8	0.29	0.46	1.4	24.30	5.9	0.10	3460	<5	190	0.5	1.2	<2	0.9	1000	0.8	<0.1	<1	0.47	3100
3106	2.14	6	4.9	3300	22	18.5	24	10	36	1.3	0.49	0.83	2.7	18.00	12.0	0.19	9350	9	260	0.7	2.5	<2	1.7	900	2.1	1.0	<1	1.03	2400
3107	2.93	<5	5.2	2100	28	15.7	41	8	41	1.6	0.93	1.55	4.7	17.60	19.0	0.32	4100	19	150	0.9	4.4	<2	3.2	510	3.5	0.9	<1	1.85	2000
3108	2.97	<5	5.1	2400	29	13.6	34	11	27	2.3	0.72	1.43	4.2	21.30	16.0	0.28	5110	17	260	0.5	4.0	<2	2.7	740	3.2	1.2	<1	1.69	1800
3109	1.82	6	3.5	2500	21	18.2	14	6	24	1.6	0.25	0.46	1.5	23.60	7.8	0.09	3100	7	380	0.6	1.3	<2	1.0	1500	1.0	<0.1	<1	0.50	1700
3110	2.29	<5	3.9	2100	19	19.7	22	7	35	1.1	0.28	0.92	2.6	18.10	11.0	0.19	3040	12	75	0.5	2.8	<2	1.8	820	2.0	0.6	<1	0.94	1700
3111	1.84	<5	3.5	2800	24	21.2	11	5	24	1.9	0.21	0.50	1.4	22.60	6.1	0.13	2370	12	190	1.2	1.6	<2	0.9	2400	1.2	<0.1	<1	0.51	2300
3112	1.76	8	2.3	3400	22	18.2	6	3	18	1.3	<0.02	0.28	0.9	26.40	3.4	0.05	1380	<5	260	0.6	0.8	<2	0.5	840	0.7	<0.1	<1	0.34	2600
3113	1.93	<5	1.7	3900	30	20.6	9	6	25	2.8	0.17	0.35	1.3	25.30	5.2	0.06	1230	<5	450	0.6	1.0	<2	0.7	1000	0.8	<0.1	<1	0.35	3000
3114	1.76	22	2.0	4100	21	17.4	8	7	25	0.8	<0.02	0.31	1.4	27.10	3.9	<0.05	1560	<5	120	0.4	0.9	<2	0.6	970	0.7	<0.1	<1	0.44	3000
3115	1.95	12	5.4	4200	38	17.3	18	9	36	1.1	0.28	0.71	2.6	25.00	9.6	0.17	3490	9	370	0.9	2.2	<2	1.4	1600	1.9	<0.1	<1	0.88	2800
3116	1.96	8	2.2	1600	25	20.7	7	7	23	1.5	<0.02	0.37	0.9	20.40	4.9	0.05	1840	<5	210	0.5	0.9	<2	0.6	950	0.7	<0.1	<1	0.21	3300
3117	2.06	6	2.9	2900	26	21.6	8	7	23	0.6	<0.02	0.30	1.0	20.70	4.8	0.07	1160	<5	110	0.5	0.9	<2	0.7	730	0.8	<0.1	<1	0.29	2100
3118	2.09	6	3.1	3000	29	19.9	12	8	19	1.1	0.20	0.44	1.4	21.50	7.2	0.11	2050	7	140	0.7	1.3	<2	1.0	1400	1.0	<0.1	<1	0.53	3000
3119	2.19	<5	2.8	500	35	20.1	7	3	23	0.8	0.08	0.32	0.8	25.40	3.8	0.05	1860	<5	62	0.7	0.9	<2	0.5	3800	0.7	<0.1	<1	0.35	2200
3120	2.43	<5	4.3	4300	27	16.4	28	9	31	1.6	0.68	1.23	3.7	19.00	15.0	0.24	4740	12	220	0.5	3.7	<2	2.6	1400	3.1	<0.1	<1	1.49	2300
3121	2.17	<5	1.6	2600	28	16.1	8	10	19	1.0	<0.02	0.38	1.4	29.40	4.2	0.07	2190	<5	250	0.3	1.1	<2	0.7	710	0.8	<0.1	<1	0.39	1800
3122	2.08	<5	2.8	1700	19	20.3	14	5	26	1.3	0.25	0.67	1.6	19.50	7.2	0.16	2650	6	170	0.5	1.8	<2	1.3	2200	1.5	<0.1	<1	0.72	2400
3123	2.51	<5	4.6	3500	22	16.7	23	10	27	1.2	0.45	0.88	2.2	18.40	11.0	0.21	2560	15	150	0.5	2.4	<2	1.8	930	1.7	<0.1	<1	1.00	1600

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
3092	0.3	0.49	450	0.2	6.1	205	<2	5.12	16941	<1	61	2.430	83	566	22
3093	0.3	0.64	518	0.2	9.0	204	3	4.23	27631	<1	53	3.460	78	570	30
3094	<0.3	0.66	370	0.2	7.8	172	5	4.12	20048	<1	42	2.255	82	482	20
3095	<0.3	0.45	456	0.2	13.7	156	3	3.83	24037	<1	21	2.479	57	378	14
3096	0.4	0.91	346	0.5	7.1	194	3	5.43	13489	<1	99	3.251	30	485	26
3097	<0.3	0.65	420	0.2	4.7	234	<2	4.49	14448	1	57	2.152	48	552	20
3098	<0.3	0.50	322	0.2	12.8	177	2	3.40	37463	2	30	1.804	57	357	24
3101	<0.3	0.50	361	0.2	5.1	191	7	2.91	9936	3	23	1.815	45	1384	13
3102	<0.3	0.95	340	0.2	10.9	199	7	4.10	11065	1	49	1.809	117	489	40
3103	<0.3	1.02	260	0.3	2.5	125	13	3.17	7656	1	32	1.413	56	737	23
3104	<0.3	0.80	346	0.3	11.1	210	6	4.62	31880	<1	40	2.495	78	878	23
3105	<0.3	0.87	420	0.2	15.5	194	3	3.85	38007	<1	43	2.127	86	605	26
3106	<0.3	0.94	392	0.4	8.0	227	12	4.01	28401	5	53	2.034	85	603	32
3107	<0.3	1.09	299	0.3	7.2	156	15	3.21	17190	4	35	1.408	97	287	29
3108	<0.3	1.14	241	0.4	7.4	135	12	3.08	25875	<1	43	2.006	53	484	20
3109	0.6	0.67	505	0.2	4.7	234	<2	4.31	22855	3	99	2.548	59	786	20
3110	<0.3	1.15	299	0.4	3.4	181	12	3.47	5047	6	33	1.780	38	483	15
3111	<0.3	0.91	414	0.2	7.9	266	5	4.11	23406	<1	45	2.708	64	1329	24
3112	<0.3	0.59	403	<0.2	7.1	255	4	3.43	36310	2	40	2.448	55	476	19
3113	0.5	0.66	372	<0.2	16.5	195	<2	3.86	19201	3	51	1.966	89	602	29
3114	<0.3	0.60	392	<0.2	12.1	252	4	3.51	38706	<1	44	2.736	65	475	17
3115	<0.3	0.94	422	0.2	3.0	176	6	5.51	22250	3	44	2.066	79	820	32
3116	<0.3	0.54	302	0.2	12.3	217	2	3.26	35158	4	43	1.879	79	548	27
3117	<0.3	0.91	384	<0.2	14.8	175	2	3.57	20376	2	63	1.716	80	495	23
3118	0.4	0.62	442	0.3	13.9	202	2	4.10	29001	<1	47	1.745	117	800	38
3119	0.8	0.28	393	<0.2	4.3	166	4	4.28	7041	10	23	4.102	95	2352	35
3120	0.8	1.08	287	0.4	9.1	176	15	2.40	12807	3	53	1.889	42	866	19
3121	1.1	0.56	433	<0.2	7.7	173	3	3.01	25049	3	66	2.037	22	492	8
3122	0.5	0.87	312	0.3	9.5	170	4	3.55	9392	6	40	2.214	64	1338	18
3123	1.1	0.76	348	0.2	4.4	161	9	3.23	18614	1	36	1.873	54	553	25

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
3124	11E4	20	439017	5004283	7	9	1S	DMW	LCSV
3130	11E4	20	433953	5003662	7	9	1N	DOW	EC
3131	11E4	20	440886	5004644	7	9	1S	DMW	LCSV
3132	11E4	20	441983	5008800	6	9	0	MMW	LCSV
3133	11E4	20	440847	5010428	9	11	0	WOS	EC
3134	11E5	20	439343	5013098	7	9	1SW	DMW	H
3135	11E5	20	439088	5015021	6	8	1N	MMW	H
3136	11E5	20	439553	5017650	5	7	1N	DMW	LT
3137	11E5	20	436233	5014353	5	7	2NE	DMW	H
3138	11E5	20	435006	5012380	6	8	-	MMW	EC
3139	11E5	20	435194	5011337	8	10	-	DDW	EC
3140	11E3	20	489158	4991238	7	9	0	DMW	EC
3141	11E3	20	487573	4993375	5	8	0	WOB	COH
3142	11E3	20	488288	4995837	7	10	1SE	DMW	COH
3143	11E3	20	490454	4995730	6	11	2SE	MMW	COH
3144	11E3	20	492778	4995436	7	9	1SE	DMW	COH
3145	11E3	20	492472	4997971	8	11	0	DMW	COH
3146	11E3	20	495732	5001686	7	10	2NW	DDW	EC
3147	11E3	20	499639	5003155	7	10	3N	DMW	EC
3148	11E3	20	497812	5000980	6	8	0	MMW	COH
3149	11E3	20	497448	4999429	8	11	0	DMW	COH
3151	11E3	20	477483	5006946	6	8	0	DMW	EC
3152	11E3	20	480008	5006518	6	8	2SE	DMW	EC
3153	11E3	20	480169	5008603	6	8	0	MOW	EC
3154	11E3	20	482727	5008271	6	8	0	MOW	EC
3155	11E3	20	487777	5008111	6	8	1SW	DMW	EC
3156	11E3	20	486025	5008970	8	10	2W	DOW	H
3157	11E3	20	486354	5005815	7	9	0	DOW	EC
3158	11E3	20	480542	4998986	5	7	2E	DMW	EC
3159	11E3	20	475039	4997262	7	9	2SE	DMW	EC

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
3124	1.62	7	3.3	1900	77	18.3	9	5	23	2.1	<0.02	0.35	0.9	21.70	4.4	0.07	2220	<5	260	0.7	1.0	<2	0.6	1200	0.6	<0.1	<1	0.39	2200
3130	1.98	<5	1.6	4300	33	24.8	5	10	25	0.5	<0.02	0.18	<0.5	17.90	2.3	<0.05	2450	<5	83	0.4	0.5	<2	0.3	1500	<0.1	<0.1	<1	<0.05	2300
3131	1.55	5	3.7	2800	47	17.1	12	8	29	1.4	0.23	0.48	1.4	23.30	6.8	0.07	2610	<5	290	1.0	1.4	<2	1.0	1400	1.2	<0.1	<1	0.52	2700
3132	1.69	8	4.3	2300	27	17.7	6	6	21	1.5	0.13	0.37	0.9	26.80	4.3	0.07	2160	6	240	0.6	1.0	<2	0.6	890	0.5	<0.1	<1	0.42	2100
3133	2.11	<5	3.0	3000	35	21.7	8	7	20	1.2	0.19	0.38	1.2	20.20	4.6	0.07	2660	<5	270	0.6	1.1	<2	0.7	840	0.7	<0.1	<1	0.38	1800
3134	2.37	<5	5.6	4500	36	17.8	35	8	33	2.0	0.77	1.31	2.8	16.90	16.0	0.27	4320	21	130	0.6	4.1	<2	3.1	1200	3.4	<0.1	<1	1.45	1900
3135	1.86	12	4.0	2600	54	16.8	4	7	5	1.9	<0.02	0.23	<0.5	25.10	2.8	<0.05	3150	<5	300	0.5	0.6	<2	0.3	1300	0.5	<0.1	<1	0.14	1800
3136	1.87	10	3.2	1700	33	17.4	<3	7	13	0.7	<0.02	0.17	<0.5	30.30	1.7	<0.05	2200	6	130	0.3	0.4	<2	0.2	1100	<0.1	<0.1	<1	<0.05	2100
3137	2.01	9	3.4	5000	22	23.5	5	4	16	0.6	<0.02	0.26	0.9	21.00	3.0	<0.05	8020	<5	45	0.4	0.6	<2	0.4	1200	0.4	<0.1	<1	0.28	2300
3138	2.19	9	5.1	2400	29	20.5	7	6	28	1.7	<0.02	0.35	0.8	25.10	4.1	<0.05	2060	<5	200	0.8	0.9	<2	0.6	870	0.7	<0.1	<1	0.28	2300
3139	1.72	9	2.8	4800	35	25.2	6	5	23	1.0	<0.02	0.27	1.3	16.30	3.4	<0.05	2140	<5	140	0.6	0.7	<2	0.4	1300	0.5	<0.1	<1	0.26	2800
3140	1.89	5	3.1	2500	26	16.9	9	7	25	2.6	0.19	0.47	1.1	23.90	6.5	0.08	2890	7	280	0.8	1.3	<2	0.8	1100	1.0	0.7	<1	0.52	2600
3141	2.62	11	4.2	1400	27	17.9	20	6	11	1.6	0.34	0.69	1.7	20.40	11.0	0.13	2750	9	250	0.7	1.8	<2	1.4	750	1.4	0.7	<1	0.82	1800
3142	2.10	13	3.4	2100	37	24.3	10	6	6	2.6	0.04	0.33	1.0	19.80	5.9	<0.05	2270	<5	250	0.9	1.0	<2	0.6	1500	0.9	<0.1	<1	0.28	2500
3143	1.90	29	3.3	2500	34	18.2	9	5	8	3.0	<0.03	0.28	0.8	23.30	7.1	<0.05	2440	<5	480	0.8	0.8	<2	0.5	1600	0.6	<0.1	<1	<0.05	2300
3144	2.24	9	4.1	2400	42	16.5	13	9	27	1.8	0.37	0.66	1.8	22.60	8.3	0.11	3600	8	220	1.5	1.8	<2	1.1	1300	1.3	0.5	<1	0.58	2600
3145	1.75	<5	5.3	1500	46	12.9	16	8	12	6.4	0.27	0.64	1.1	27.70	11.0	0.12	2680	13	880	1.1	1.7	9	1.0	1300	1.3	<0.1	<1	0.66	2600
3146	2.76	11	6.3	4100	30	13.9	31	7	30	1.6	0.60	1.20	3.1	25.70	16.0	0.25	3800	16	170	0.9	3.3	<2	2.3	830	2.8	<0.1	<1	1.32	1500
3147	1.88	11	4.9	1200	40	19.2	9	7	32	9.8	<0.02	0.41	0.7	22.30	4.9	0.05	2030	<5	500	1.1	1.1	<2	0.6	1500	0.7	<0.1	<1	0.29	3200
3148	2.07	8	4.0	2500	38	19.2	18	4	35	1.4	0.42	0.68	1.6	20.50	9.7	0.13	3040	9	98	1.2	2.1	<2	1.2	1400	1.7	0.7	<1	0.79	2300
3149	1.93	7	5.3	2200	38	14.5	24	8	30	3.2	0.43	0.83	2.6	18.40	12.0	0.20	3930	10	330	0.9	2.2	<2	1.7	1400	2.0	<0.1	6	1.02	2200
3151	2.04	<5	3.6	4700	32	21.1	9	9	30	3.2	0.14	0.54	1.3	22.30	5.6	0.07	2130	<5	390	0.8	1.1	<2	0.7	1000	0.7	<0.1	<1	0.47	2100
3152	2.21	8	5.5	3900	37	17.7	10	5	21	0.7	<0.02	0.47	1.6	26.70	6.4	0.12	2480	<5	55	0.9	1.3	<2	0.9	820	0.8	0.5	<1	0.49	2000
3153	2.44	7	5.2	3900	31	20.4	11	5	28	0.8	0.23	0.47	1.3	23.20	6.0	0.08	2730	<5	130	0.5	1.5	<2	0.9	640	1.2	<0.1	<1	0.44	1300
3154	2.39	11	6.0	3700	31	21.6	16	5	27	1.5	0.28	0.66	1.9	20.50	8.1	0.11	2530	10	150	0.7	2.0	<2	1.3	600	1.7	<0.1	<1	0.66	1300
3155	1.95	8	5.8	3100	20	23.0	10	3	21	<0.5	<0.02	0.37	1.1	19.90	4.2	<0.05	2850	<5	49	0.7	1.0	<2	0.6	1600	0.8	<0.1	<1	0.37	1700
3156	1.89	<5	5.5	4300	31	17.4	6	6	22	0.6	<0.02	0.28	<0.5	25.90	3.5	<0.05	2210	<5	110	0.8	0.7	<2	0.4	790	0.4	<0.1	<1	0.31	2800
3157	2.05	10	9.3	6000	34	21.9	7	7	24	1.4	<0.03	0.34	<0.5	24.60	4.5	<0.05	1990	<5	220	0.8	1.0	<2	0.5	1400	0.9	0.2	<1	0.21	2000
3158	2.26	9	4.9	2700	32	21.2	10	8	21	0.9	0.20	0.48	1.7	24.00	6.2	0.08	2390	<5	110	0.7	1.4	<2	0.9	1500	1.1	<0.1	<1	0.50	2400
3159	1.78	13	6.8	1900	56	19.5	7	9	160	<0.5	<0.02	0.28	0.6	27.70	4.1	<0.05	1930	10	130	0.8	0.8	<2	0.6	770	0.7	<0.1	<1	0.36	2200

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
31124	1.5	0.77	381	<0.2	7.4	208	<2	5.64	24971	3	43	1.924	79	627	25
31130	1.2	0.77	430	<0.2	11.1	195	2	4.68	17760	6	78	1.755	43	778	11
31131	1.2	1.32	388	0.3	6.5	179	4	5.38	20113	2	79	1.654	157	858	36
31132	0.8	0.64	459	<0.2	5.6	210	3	4.08	15632	2	41	2.064	88	452	23
31133	1.2	0.54	360	<0.2	4.0	132	<2	4.99	19603	1	28	1.469	100	330	22
31134	<0.3	0.99	284	0.4	7.6	146	7	3.65	19516	8	26	1.512	83	702	20
31135	1.7	0.72	364	0.2	7.5	181	3	4.87	38422	4	46	2.430	58	752	13
31136	0.8	0.76	360	<0.2	8.2	220	<2	4.89	13706	3	48	3.177	40	548	6
31137	0.5	0.63	422	<0.2	8.2	204	2	4.35	9646	<1	44	1.771	44	574	8
31138	1.6	0.44	472	0.2	11.1	168	2	4.64	30441	3	33	2.276	87	443	29
31139	0.9	0.61	420	0.2	12.4	215	3	4.85	16947	<1	43	1.914	112	635	20
31140	1.9	0.67	414	<0.2	6.9	211	4	3.81	33945	<1	43	2.717	65	577	30
31141	2.2	0.75	343	<0.2	5.1	116	5	3.62	47332	3	75	1.582	97	511	44
31142	<0.3	0.86	354	<0.2	20.4	210	3	3.75	16574	<1	38	2.385	97	1069	38
31143	1.1	0.80	447	<0.2	9.2	226	<2	3.47	48116	1	89	2.725	86	956	26
31144	2.0	0.90	388	0.2	9.9	215	5	3.18	44374	<1	54	2.667	87	928	38
31145	2.1	0.88	492	<0.2	4.7	239	6	6.47	39506	2	50	3.914	70	903	33
31146	0.4	0.97	357	0.3	5.2	161	12	2.64	12111	4	57	2.200	51	416	20
31147	1.5	0.93	458	0.2	14.3	234	<2	2.94	26217	4	48	3.340	62	764	21
31148	1.1	0.78	369	<0.2	5.1	210	6	3.80	23873	4	53	2.599	62	668	27
31149	1.5	0.84	358	0.2	11.0	205	7	3.80	33193	1	47	2.559	84	695	23
31151	1.0	0.75	417	0.2	9.8	198	<2	3.62	15203	3	48	2.080	84	611	25
31152	<0.3	0.81	358	0.2	5.9	198	4	3.88	8180	2	45	3.633	45	461	15
31153	0.6	0.71	332	0.3	5.9	168	6	3.01	13377	<1	54	2.312	33	726	19
31154	0.7	0.63	440	<0.2	3.1	125	4	2.04	16868	3	24	1.837	90	256	27
31155	0.6	0.56	417	<0.2	6.4	235	2	3.04	11777	3	79	2.867	32	1049	9
31156	1.3	0.66	442	0.2	8.7	179	<2	3.43	23611	1	62	3.181	69	391	27
31157	0.5	0.55	389	<0.2	9.7	180	2	3.30	17104	8	23	1.756	77	946	26
31158	0.9	0.63	409	<0.2	9.5	221	4	3.04	16970	3	49	2.328	57	727	28
31159	0.7	0.71	419	0.2	7.9	171	2	3.72	14818	1	40	2.508	77	465	25

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
3160	11E3	20	472869	4996085	8	10	2S	DMW	EC
3161	11E3	20	476212	4998418	7	9	0	MMW	EC
3162	11E3	20	475582	5001086	7	10	1SW	DOW	EC
3163	11E3	20	476441	5004259	7	9	0	MMW	EC
3164	11E3	20	479525	5004483	6	8	2SW	DDW	EC
3165	11E3	20	477346	5001210	5	8	2E	DOW	EC
3166	11D13	20	434892	4973713	9	11	2N	DMW	COG
3167	11D13	20	436421	4974952	8	10	2N	DMW	COG
3168	11D13	20	436827	4973864	7	9	0	DOW	COG
3169	11D13	20	437219	4974682	6	8	2NE	DMW	COG
3170	11D13	20	436785	4972687	6	8	0	MMW	COG
3171	11D13	20	437939	4973642	6	8	1SW	DDW	COG
3172	11D13	20	436171	4971753	5	7	2W	MMW	COG
3173	11D13	20	438032	4975716	8	10	1NE	MMW	COG
3174	11E4	20	441790	4992019	7	10	1SW	DMW	COH
3175	11E2	20	510194	4996729	5	10	0	WMW	COG
3176	11E2	20	512932	4998464	6	9	0	MMW	COG
3177	11E2	20	515764	4998314	7	11	0	MMW	COH
3178	11E2	20	518450	4997125	6	10	1NE	DOW	COG
3179	11E2	20	514845	4994838	7	10	0	WMW	COH
3180	11E2	20	515842	4988575	6	8	2N	DOW	COG
3181	11E2	20	517749	4990476	6	7	0	MMW	COG
3183	11E2	20	512059	4987394	5	8	0	WMW	COG
3184	11E2	20	511455	4990749	7	9	0	MMW	COG
3185	11D13	20	454262	4967719	7	9	1N	DMW	COH
3186	11E2	20	509761	4990950	3	5	0	DMW	COH
3187	11E2	20	508952	4986768	5	9	0	DOW	COG
3188	11E2	20	507998	4988704	5	7	1SW	DOW	COH
3189	11E2	20	506606	4994103	6	8	0	DMW	COG
3190	11E2	20	504337	4994490	6	8	0	DMW	COG



# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
3160	1.97	9	7.5	5700	33	23.0	7	3	12	0.8	<0.02	0.31	1.1	24.80	5.0	0.06	2480	<5	160	0.7	0.9	<2	0.6	1200	0.6	<0.1	<1	0.35	2000
3161	1.93	9	6.4	2000	20	19.8	5	3	16	0.5	<0.02	0.25	0.8	26.10	3.1	0.06	2090	<5	200	0.6	0.7	<2	0.4	5200	0.5	<0.1	<1	0.15	1500
3162	1.88	<5	4.4	2700	29	18.8	9	9	23	1.6	0.11	0.47	1.0	22.80	5.0	0.06	1930	<5	360	0.9	1.0	<2	0.6	1200	0.6	<0.1	<1	0.34	2100
3163	2.04	7	4.5	1100	26	19.0	14	5	36	2.6	0.34	0.77	1.9	20.10	8.4	0.15	3220	11	230	0.8	1.9	<2	1.3	660	1.5	<0.1	<1	0.72	2200
3164	1.78	<5	4.5	5000	28	21.5	8	6	20	1.4	<0.02	0.34	1.5	18.90	5.6	0.08	2350	6	240	0.9	1.0	4	0.8	780	0.7	<0.1	<1	0.44	2900
3165	2.41	9	4.5	4200	34	22.7	12	5	22	<0.5	<0.02	0.52	1.6	23.60	6.7	0.10	3200	<5	79	0.6	1.5	<2	0.9	650	0.9	<0.1	<1	0.60	1200
3166	1.98	11	4.7	2000	32	22.9	11	5	21	4.6	0.19	0.49	1.5	21.40	7.0	0.06	2500	<5	350	1.2	1.6	<2	0.9	1500	0.8	<0.1	<1	0.49	1700
3167	1.87	11	21.0	2200	25	17.6	7	7	21	3.6	<0.02	0.35	0.8	24.70	4.5	<0.05	1580	5	370	1.0	0.9	2	0.5	1600	0.5	<0.1	<1	0.28	1700
3168	1.83	10	5.5	1700	41	17.7	9	3	24	8.3	<0.02	0.34	0.6	27.10	5.3	0.07	1650	<5	420	1.1	0.9	<2	0.7	1600	0.7	<0.1	4	0.47	2600
3169	1.95	9	3.2	2300	38	19.6	4	6	15	1.9	<0.02	0.23	0.7	20.40	3.9	0.07	1890	<5	360	0.7	0.6	<2	0.4	2300	0.3	<0.1	<1	0.16	2100
3170	1.98	<5	4.7	3100	27	23.1	6	10	24	2.7	<0.02	0.28	0.8	21.70	4.8	0.06	2010	<5	280	0.9	0.8	4	0.5	1800	0.4	<0.1	<1	<0.05	1900
3171	1.77	7	3.3	1800	29	19.7	7	10	24	1.6	<0.02	0.26	<0.5	21.10	4.7	0.06	2010	<5	350	0.5	0.7	<2	0.5	1300	0.3	<0.1	<1	0.22	2000
3172	2.13	<5	4.7	2500	43	22.2	7	6	25	3.1	<0.03	0.49	0.7	22.80	6.6	0.08	2360	<5	350	0.8	1.3	<2	0.8	2700	0.8	<0.1	<1	0.49	3000
3173	1.61	8	3.2	3000	20	18.5	18	5	30	4.5	0.32	0.52	1.3	18.90	9.9	0.13	2110	9	290	1.0	1.8	<2	1.4	1400	0.9	0.6	<1	0.59	2400
3174	1.61	<5	5.2	1600	26	13.6	8	14	27	4.5	0.18	0.30	<0.5	22.40	4.5	<0.05	1900	<5	580	1.6	0.9	<2	0.5	1100	0.5	<0.1	<1	0.18	2100
3175	1.90	10	5.9	1400	29	15.4	26	9	26	4.7	0.37	0.65	1.5	17.10	13.0	0.09	3140	13	250	0.7	2.3	<2	1.8	1000	1.4	<0.1	<1	0.55	2400
3176	2.29	<5	4.1	1600	16	15.8	31	7	25	2.3	0.50	0.95	1.9	21.90	16.0	0.18	4140	17	220	0.4	3.1	<2	2.1	1600	1.7	0.9	<1	1.09	1900
3177	1.81	<5	4.2	1900	25	21.0	19	4	34	12.0	0.34	0.65	1.8	13.60	9.4	0.12	3630	11	520	0.8	2.1	<2	1.3	2100	1.6	0.9	<1	0.61	2800
3178	2.45	6	4.5	1400	22	16.6	26	4	28	11.0	0.40	0.93	2.1	16.80	13.0	0.19	4080	12	330	0.6	3.3	<2	1.8	1500	2.0	0.8	<1	0.91	2400
3179	1.81	8	2.5	3600	19	21.9	16	11	22	6.4	0.24	0.24	1.0	21.60	11.0	0.06	1620	<5	400	0.6	0.6	<2	0.9	1500	<0.1	<0.1	<1	0.35	2000
3180	2.35	5	2.1	900	20	20.5	5	2	18	9.5	<0.02	0.22	<0.5	22.10	3.5	<0.05	1400	9	360	0.5	0.6	<2	0.4	1500	0.3	<0.1	<1	0.23	2100
3181	2.12	<5	1.3	1200	16	23.1	<3	5	12	5.2	<0.02	0.17	<0.5	20.20	1.7	<0.05	1720	<5	220	0.4	0.4	<2	0.2	1300	0.1	<0.1	<1	<0.05	1500
3183	1.98	7	2.2	1900	24	19.0	8	4	25	2.1	0.14	0.27	0.6	21.30	5.2	0.07	1240	<5	180	0.6	0.8	<2	0.6	950	0.6	<0.1	3	0.26	1800
3184	1.89	7	3.6	1100	23	21.4	9	4	30	0.9	0.16	0.26	0.6	17.70	4.8	0.06	1340	<5	150	0.6	0.8	<2	0.6	920	0.4	0.4	<1	0.29	1900
3185	1.81	11	4.3	1200	37	21.4	11	4	46	9.2	0.24	0.46	1.1	18.20	9.2	0.07	2610	15	320	1.2	1.2	<2	0.8	1400	0.4	<0.1	<1	0.22	2500
3186	2.03	<5	3.0	810	19	19.7	7	5	18	9.5	<0.02	0.32	0.7	20.20	4.1	<0.05	2250	6	310	0.7	0.8	<2	0.5	1100	0.5	<0.1	<1	0.24	3300
3187	2.25	8	4.2	660	21	18.5	3	2	18	1.5	0.10	0.20	<0.5	20.40	3.1	<0.05	1480	<5	240	0.5	0.6	<2	0.3	1500	0.6	0.5	<1	0.20	2600
3188	1.93	<5	2.1	700	21	18.0	8	5	26	1.0	0.18	0.25	<0.5	24.00	4.8	0.06	1350	<5	240	0.5	0.7	<2	0.5	690	0.5	0.4	<1	0.30	2600
3189	1.81	<5	2.0	1200	19	15.7	4	13	17	2.0	0.11	0.24	<0.5	25.90	3.2	<0.05	1310	8	270	0.4	0.6	<2	0.4	790	0.3	<0.1	<1	<0.05	1800
3190	1.78	6	4.6	2200	100	17.4	5	16	26	2.3	<0.02	0.24	<0.5	19.10	4.4	<0.05	932	<5	300	0.6	0.6	<2	0.4	830	0.6	<0.1	<1	0.18	2100

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
3160	<0.3	0.70	349	<0.2	10.7	195	3	4.40	5912	2	60	1.969	74	622	24
3161	0.8	0.41	519	<0.2	4.5	212	2	3.61	16597	<1	70	3.022	43	2792	15
3162	0.5	0.67	438	<0.2	3.9	239	<2	5.47	12162	1	48	2.725	49	667	25
3163	0.7	0.53	482	<0.2	6.6	225	7	4.27	7855	2	30	1.948	72	361	36
3164	1.1	0.54	407	<0.2	5.6	206	<2	3.20	17874	5	36	2.134	84	392	32
3165	0.4	0.79	406	<0.2	6.1	215	3	3.13	5055	<1	30	2.133	36	404	18
3166	0.5	0.75	460	0.2	4.8	172	4	4.51	6069	2	38	2.362	65	851	42
3167	1.0	0.79	456	<0.2	7.6	196	<2	3.81	22492	<1	53	3.171	83	876	48
3168	0.3	0.86	465	<0.2	6.7	182	3	5.86	10520	<1	41	2.093	118	949	38
3169	0.8	0.91	454	<0.2	8.3	199	<2	5.53	19402	<1	59	2.430	71	1121	44
3170	1.2	0.78	422	<0.2	8.2	229	2	2.99	27730	<1	41	2.573	80	1006	56
3171	0.6	0.97	457	<0.2	19.1	220	<2	3.29	18424	<1	64	2.701	48	619	27
3172	0.5	0.92	403	<0.2	16.6	195	<2	4.33	14637	1	51	2.243	98	1254	50
3173	0.7	0.80	386	<0.2	14.5	212	<2	4.65	33863	1	48	2.873	99	821	57
3174	1.0	0.81	416	<0.2	14.2	266	<2	4.34	53059	<1	53	3.165	83	577	43
3175	0.8	0.72	363	<0.2	14.0	204	3	4.11	60684	<1	59	2.620	93	723	17
3176	0.8	0.67	303	<0.2	11.7	202	2	3.81	24959	<1	48	2.194	44	848	11
3177	0.5	0.87	338	<0.2	15.9	199	4	3.62	32469	<1	29	2.271	110	1163	26
3178	0.6	0.93	282	<0.2	17.8	189	4	4.17	29885	3	32	1.914	86	1196	24
3179	0.9	0.56	524	0.2	17.6	264	<2	3.12	34771	<1	50	2.384	43	880	11
3180	0.3	0.56	501	<0.2	5.6	142	<2	5.89	10264	<1	31	2.054	60	884	19
3181	0.8	0.38	344	<0.2	7.3	205	<2	3.27	22955	<1	15	1.965	40	625	8
3183	0.3	0.49	410	<0.2	5.6	204	<2	4.48	24585	<1	43	2.632	76	802	25
3184	<0.3	0.80	442	<0.2	5.0	180	<2	2.96	39216	<1	40	1.868	142	778	35
3185	0.8	0.74	558	<0.2	4.4	221	<2	6.17	16491	<1	109	2.201	122	1104	115
3186	1.5	0.71	475	<0.2	11.0	237	<2	4.68	24846	<1	54	3.517	59	793	36
3187	1.5	0.65	481	0.4	4.8	152	2	4.13	26698	2	24	2.601	78	1075	26
3188	2.2	0.83	414	0.5	16.4	151	<2	5.72	39059	1	72	2.143	69	524	24
3189	2.0	0.65	495	0.3	10.0	251	<2	3.16	38558	<1	46	3.010	46	570	14
3190	3.2	0.56	533	0.7	8.6	211	<2	4.55	70567	3	115	2.198	54	609	19

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
3191	11E2	20	501690	4993584	5	8	0	DOW	EC
3192	11E2	20	503318	4991879	7	10	0	DDW	COG
3194	11E2	20	503204	4986012	6	8	0	DMW	COH
3195	11E2	20	504176	4986353	7	11	1NE	DDW	COH
3196	11E2	20	505284	4985684	6	9	2W	DDW	COG
3197	11E2	20	506288	4984813	6	9	0	MOW	COG
3198	11E2	20	508127	4984121	7	11	0	DMW	COG
3199	11E2	20	509287	4983446	5	9	0	DMW	COG
3200	11E2	20	506213	4988142	7	8	0	DMW	COH
3201	11E2	20	505305	4989497	5	7	2SW	MMW	COH
3202	11E2	20	504386	4996154	6	10	2SE	DMW	EC
3203	11E2	20	506570	4996368	6	8	0	DMW	COG
3204	11D13	20	437478	4977485	6	8	0	WOW	COG
3205	11D13	20	438371	4980528	5	7	2	DOW	COG
3206	11D13	20	435571	4978817	5	7	0	MMW	COG
3207	11D13	20	440687	4981319	5	7	0	MMW	COG
3208	11E4	20	440508	4983332	5	8	2NW	DMW	COG
3210	11E3	20	482951	4984346	4	6	0	DMW	EC
3211	11E3	20	482963	4986503	6	8	0	DMW	COG
3212	11E3	20	478412	4983792	6	9	2S	DMW	COG
3213	11E3	20	485747	4986755	6	8	2E	DMW	EC
3214	11E3	20	487588	4985826	5	7	3N	DOF	EC
3215	11E3	20	489012	4985698	5	9	0	WMF	EC
3216	11E3	20	489358	4983600	6	10	0	DMW	EC
3217	11E3	20	487884	4984393	6	8	0	DDW	EC
3218	11E3	20	486420	4984493	7	9	2NW	MMF	EC
3219	11E3	20	485215	4983809	6	8	0	DMW	EC
4001	11D14	20	464124	4973253	6	8	-	-	COH
4002	11D14	20	469684	4973125	5	7	0	DMW	COH
4003	11D14	20	470762	4970737	6	8	1S	DMW	COG

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
3191	2.31	6	2.9	5500	37	23.3	5	3	16	<0.5	<0.03	0.21	1.4	24.20	3.4	0.08	1210	<5	110	0.3	0.6	<2	0.4	620	0.5	<0.1	<1	0.31	1800
3192	1.94	8	11.0	3100	29	18.4	25	8	37	1.7	0.45	0.77	1.6	25.90	15.0	0.12	2030	<5	220	0.5	1.7	<2	1.6	870	1.2	0.6	<1	0.62	1800
3194	1.65	12	5.5	1200	28	19.3	12	8	33	1.9	0.20	0.43	1.0	20.80	6.0	0.08	2260	<5	190	0.7	1.3	<2	0.8	910	0.7	<0.1	<1	0.27	3300
3195	1.68	15	6.7	4700	54	24.1	15	11	27	1.1	<0.03	0.48	1.7	18.70	8.0	0.09	2190	<5	200	1.0	1.6	<2	0.9	1100	1.1	0.6	<1	0.54	1800
3196	1.91	9	2.8	2000	34	21.9	8	10	28	2.6	<0.02	0.36	0.9	20.40	5.3	<0.05	2040	<5	260	0.5	0.9	<2	0.6	1400	0.5	<0.1	<1	0.35	2200
3197	2.03	7	2.8	2400	39	22.8	10	6	20	1.3	0.21	0.41	1.2	19.60	7.2	0.06	2240	<5	170	0.6	1.3	<2	0.8	970	0.9	<0.1	<1	0.37	1600
3198	1.92	7	3.2	1800	43	23.0	9	5	33	1.9	<0.02	0.38	1.2	22.90	6.1	0.06	1780	<5	200	0.6	1.2	<2	0.7	1000	0.6	<0.1	<1	0.31	2000
3199	1.97	6	3.9	4200	49	22.1	4	5	21	<0.5	<0.03	0.23	<0.5	24.70	3.6	<0.05	1350	<5	180	0.4	0.7	4	0.4	1300	0.5	<0.1	<1	0.25	1500
3200	1.57	10	6.0	970	48	17.5	7	3	61	5.7	<0.03	0.32	<0.5	28.00	4.4	0.06	2450	<5	620	3.0	0.9	<2	0.4	1200	0.3	<0.1	<1	0.36	2500
3201	1.94	7	6.6	3000	42	25.1	6	8	17	4.1	<0.03	0.25	<0.5	20.00	4.7	<0.05	1850	<5	300	0.6	0.7	<2	0.4	1100	0.4	<0.1	<1	0.37	2200
3202	2.88	6	6.5	2600	28	17.7	35	10	29	2.1	0.60	1.15	2.6	15.60	18.0	0.20	9260	19	100	0.6	3.8	<2	2.4	<300	2.9	0.8	<1	1.23	1300
3203	1.92	8	2.9	2800	42	17.7	10	7	30	2.6	<0.02	0.29	0.9	27.40	5.6	<0.05	1540	<5	330	0.4	0.9	<2	0.6	900	0.6	<0.1	<1	0.34	2100
3204	2.21	5	4.7	2200	30	21.4	9	20	16	1.3	0.15	0.41	1.1	23.30	5.9	0.09	2480	<5	160	0.7	1.2	<2	0.6	890	0.8	<0.1	<1	0.36	1700
3205	2.11	<5	2.1	2400	25	18.1	6	3	33	1.2	<0.02	0.21	<0.5	26.80	2.7	<0.05	1250	<5	390	0.5	0.6	<2	0.3	1200	0.5	<0.1	<1	0.15	1800
3206	2.06	8	2.6	3800	32	19.6	4	5	11	3.5	<0.02	0.18	<0.5	28.80	3.7	<0.05	1650	<5	390	0.6	0.5	4	0.3	1000	0.2	<0.1	<1	<0.05	2000
3207	1.82	9	1.2	1600	43	16.8	7	4	15	4.7	0.16	0.25	<0.5	29.60	3.7	<0.05	1230	<5	590	0.5	0.7	<2	0.4	1100	0.5	<0.1	<1	0.26	2300
3208	1.99	7	2.6	3200	26	21.0	4	3	42	1.3	<0.02	0.24	<0.5	20.70	3.5	0.05	1030	9	320	0.6	0.6	3	0.3	1300	0.4	<0.1	<1	0.22	2300
3210	2.22	<5	4.7	2400	25	18.2	12	9	10	1.2	0.18	0.37	0.9	26.00	4.5	0.07	1700	<5	410	0.6	0.9	<2	0.5	830	0.7	<0.1	<1	0.37	2700
3211	1.81	10	4.4	1600	48	21.0	11	4	52	5.4	0.29	0.41	1.2	22.30	6.7	0.10	1360	<5	470	0.8	1.1	3	0.8	970	0.6	<0.1	<1	0.44	2500
3212	2.06	22	3.1	2800	34	25.1	10	4	12	0.5	<0.03	0.36	0.9	16.60	6.3	0.09	2000	<5	120	0.8	1.1	<2	0.7	620	0.8	<0.1	<1	0.40	2300
3213	1.84	15	3.2	1900	26	25.7	12	3	18	4.3	0.34	0.36	1.3	18.00	11.0	0.10	2490	<5	380	0.9	0.9	<2	1.3	1300	0.8	<0.1	<1	0.49	2900
3214	2.83	6	3.5	1700	20	21.7	8	3	33	0.6	<0.02	0.37	0.9	24.00	4.7	0.07	2230	<5	37	0.5	0.9	<2	0.6	450	0.8	0.3	3	0.34	1400
3215	3.21	5	4.8	2800	25	15.7	27	5	42	1.8	0.55	0.99	3.7	19.40	15.0	0.20	3800	18	140	0.9	2.9	<2	2.1	1800	2.6	0.9	<1	1.28	1100
3216	1.92	6	3.1	3000	34	22.2	7	4	14	1.9	<0.03	0.33	1.2	25.90	4.8	0.06	1570	<5	230	0.7	0.9	<2	0.6	1000	0.7	<0.1	<1	0.42	1500
3217	1.81	10	4.0	1200	33	24.8	15	5	24	1.8	0.23	0.53	1.2	18.10	7.0	0.08	1990	<5	280	0.9	1.3	<2	1.0	840	1.3	<0.1	5	0.60	2200
3218	2.29	6	4.3	3000	37	21.2	12	8	45	0.9	0.21	0.52	1.6	20.60	6.8	0.10	2990	7	130	0.7	1.4	3	0.9	580	1.1	<0.1	5	0.61	1600
3219	2.08	8	2.7	2600	27	24.6	7	5	55	0.5	0.25	0.28	1.0	17.20	4.4	0.07	1760	<5	110	0.6	0.8	<2	0.5	610	0.5	<0.1	<1	0.28	2100
4001	1.98	10	2.5	1800	27	21.0	3	3	5	1.2	<0.02	0.15	<0.5	26.80	3.3	<0.05	959	<5	290	0.4	0.4	<2	0.3	810	<0.1	<0.1	<1	0.13	1800
4002	2.07	50	4.1	2300	39	21.1	13	9	6	1.5	<0.02	0.33	<0.5	27.50	9.4	<0.05	2250	7	360	0.7	1.0	<2	0.8	1100	0.7	<0.1	<1	0.30	2100
4003	1.70	8	4.4	2300	48	17.9	9	3	10	2.6	<0.02	0.34	0.7	26.30	7.3	<0.05	3110	<5	640	1.1	1.0	<2	0.6	930	0.6	<0.1	<1	0.33	2400

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
3191	0.4	0.29	511	<0.2	9.4	163	<2	3.71	12827	7	106	2.364	45	459	10
3192	1.3	0.77	380	0.5	10.0	212	5	3.52	21201	<1	47	2.257	36	473	12
3194	1.3	0.78	513	<0.2	8.9	215	24	5.90	21045	2	58	2.719	59	506	23
3195	1.2	0.78	448	0.3	7.8	207	2	2.88	40006	<1	43	1.941	95	849	29
3196	1.5	0.63	508	0.4	6.8	179	3	3.37	38387	<1	50	2.064	55	813	17
3197	1.1	0.64	464	<0.2	4.2	151	5	3.74	21015	2	63	1.703	71	553	38
3198	1.0	0.75	493	0.2	7.0	175	3	3.41	19482	<1	46	1.929	66	738	26
3199	1.2	0.51	414	0.3	7.1	174	<2	2.24	31961	<1	35	2.061	59	659	13
3200	1.1	0.83	551	<0.2	6.7	196	5	6.25	18926	1	39	3.156	61	841	27
3201	1.4	0.64	486	0.3	11.6	239	<2	4.14	26183	1	75	2.528	61	804	25
3202	0.7	1.03	308	0.4	6.5	138	14	3.59	14561	<1	70	1.743	26	236	18
3203	1.4	0.38	489	0.4	10.1	220	<2	3.59	41442	<1	79	2.367	58	524	15
3204	1.8	0.45	436	0.3	11.4	220	3	2.68	43051	1	42	1.993	69	640	59
3205	0.6	0.72	396	<0.2	4.9	166	2	5.53	14685	2	62	4.208	62	886	24
3206	1.0	0.80	410	0.4	14.5	210	<2	3.33	22509	1	37	2.353	43	677	30
3207	1.0	0.74	541	0.2	7.5	237	<2	4.11	31387	6	49	3.042	66	937	37
3208	1.6	0.67	421	0.2	8.5	214	<2	3.55	35625	<1	44	3.176	46	833	25
3210	1.4	0.74	494	0.4	16.0	237	3	4.24	28810	<1	74	3.612	63	497	21
3211	1.4	0.69	433	0.4	6.3	228	3	4.07	35927	<1	63	2.613	101	443	39
3212	1.4	0.73	445	0.6	10.9	169	4	3.47	36855	<1	63	1.998	102	443	37
3213	1.0	0.92	490	0.3	7.6	175	2	4.98	27368	<1	45	2.205	134	943	49
3214	0.4	0.27	361	<0.2	3.0	146	4	5.11	2927	3	21	2.064	67	343	19
3215	0.3	0.69	352	<0.2	4.0	127	10	3.61	7982	<1	27	1.589	43	1347	27
3216	0.9	0.33	513	<0.2	5.0	215	3	3.61	11980	3	39	1.916	52	495	18
3217	0.7	0.79	415	0.2	3.9	231	3	3.80	15442	<1	39	2.150	83	410	22
3218	0.9	0.50	398	0.2	7.1	182	6	3.65	18109	<1	22	2.044	66	327	25
3219	0.7	0.41	451	0.2	11.3	199	4	4.57	20203	<1	37	1.971	71	367	21
4001	1.0	0.34	513	<0.2	5.0	185	<2	4.82	19746	<1	62	1.995	46	547	36
4002	<0.3	0.70	347	0.5	7.6	134	<2	4.17	42002	2	98	1.655	56	665	109
4003	0.7	0.72	447	0.2	6.5	191	3	5.74	33479	1	107	2.781	97	658	119

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
4004	11D14	20	472038	4969397	5	6	0	MOW	COG
4005	11D14	20	472308	4967427	4	8	1S	MMW	COG
4007	11D14	20	466439	4970632	6	8	-	DMW	COG
4008	11D14	20	468024	4971137	6	7	0	DMW	COG
4009	11D14	20	469449	4970844	5	8	-	DMW	COG
4010	11D14	20	470287	4975277	6	8	-	MMW	COH
4011	11D14	20	470521	4977749	6	10	0	WML	COH
4012	11D14	20	471062	4979910	4	7	-	DOW	COG
4013	11D14	20	469302	4981531	6	8	-	DMW	COG
4014	11D14	20	466385	4982603	6	9	-	-	EC
4015	11D14	20	465431	4979719	7	8	-	MDW	COG
4016	11D14	20	467191	4979101	7	9	-	DDW	COG
4017	11D14	20	467041	4977147	7	10	-	MMW	COG
4018	11D14	20	466560	4975486	5	7	-	DMW	COH
4019	11D14	20	472382	4975684	5	7	-	DMW	COH
4021	11D14	20	477293	4976494	5	7	-	DMW	EC
4022	11D14	20	478191	4975540	6	10	-	DMW	COG
4023	11D14	20	479519	4977609	5	8	-	DMW	EC
4024	11D14	20	481112	4982095	4	7	0	WDS	EC
4025	11D14	20	478728	4979277	5	7	-	DMW	EC
4026	11D14	20	476857	4980840	5	8	-	DSL	EC
4027	11D14	20	477398	4981942	6	7	1S	DSW	COH
4028	11D14	20	475560	4978165	5	8	-	DMW	EC
4029	11D14	20	472940	4982401	5	8	0	MMW	EC
4030	11D14	20	474232	4979752	5	7	-	DMW	COH
4031	11D14	20	481612	4976508	4	6	-	MMW	EC
4032	11D14	20	480897	4970070	5	8	-	DMW	DC
4033	11D14	20	480537	4971715	5	7	-	DMW	COG
4034	11D14	20	483347	4971816	6	8	-	MMW	COG
4035	11D14	20	486117	4972412	6	9	-	MMW	COG

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
4004	2.41	24	4.8	1200	33	20.0	13	4	12	3.5	<0.02	0.52	1.3	20.80	7.9	0.08	2730	7	320	0.5	1.6	<2	0.9	1100	1.3	<0.1	<1	0.64	2900
4005	1.80	11	3.8	1700	36	20.7	23	4	12	5.0	0.41	0.59	1.6	18.80	15.0	0.15	3610	16	380	0.9	1.8	<2	1.5	1500	1.4	1.0	<1	0.77	2200
4007	2.10	<5	1.6	3100	25	17.8	6	7	10	1.0	<0.02	0.22	0.8	27.30	5.3	<0.05	1320	8	490	0.5	0.5	4	0.3	760	0.4	<0.1	<1	<0.05	1300
4008	1.80	19	2.5	2700	31	20.0	6	11	23	0.9	<0.03	0.22	<0.5	21.90	5.9	<0.05	1650	<5	210	0.7	0.6	<2	0.4	800	0.4	<0.1	<1	0.26	2200
4009	1.63	<5	2.4	3100	23	14.2	5	16	31	1.9	<0.02	0.21	<0.5	24.50	4.6	<0.05	1140	<5	500	0.5	0.5	<2	0.3	610	0.4	<0.1	<1	<0.05	1600
4010	2.54	9	5.6	2000	17	18.1	93	11	41	2.5	1.49	1.74	4.0	13.10	53.0	0.42	5200	52	240	0.8	5.5	<2	6.5	570	5.2	1.5	<1	2.92	2800
4011	2.86	<5	5.4	1600	21	16.2	41	7	37	3.6	0.79	1.45	4.8	15.10	21.0	0.30	3460	25	290	0.6	3.8	<2	3.2	620	3.4	0.6	<1	1.83	1100
4012	1.79	6	2.6	2200	27	19.4	7	4	11	1.9	<0.03	0.31	<0.5	21.80	4.7	<0.05	1470	<5	350	0.4	0.8	<2	0.5	760	0.7	<0.1	<1	0.26	2100
4013	2.39	10	1.9	4300	24	22.6	7	9	12	0.8	<0.02	0.31	1.4	20.10	5.0	<0.05	1560	<5	220	0.4	0.9	<2	0.6	650	0.7	<0.1	<1	0.31	2500
4014	3.18	7	7.0	1400	23	20.3	27	5	22	1.4	0.41	0.95	2.8	16.50	14.0	0.21	3700	14	110	0.9	3.1	<2	2.0	1300	2.6	1.4	<1	1.09	1300
4015	1.91	6	5.2	2800	21	22.1	10	3	48	2.0	<0.02	0.50	1.4	20.00	7.5	0.10	1890	<5	340	0.9	1.3	<2	0.8	1100	0.9	<0.1	<1	0.55	2400
4016	1.69	10	3.9	2000	26	18.3	8	14	30	1.8	0.09	0.25	0.7	28.50	6.3	<0.05	1700	8	400	0.5	0.6	<2	0.6	1000	0.6	<0.1	<1	0.33	1900
4017	1.90	<5	4.5	1300	31	23.0	8	16	23	0.8	<0.02	0.24	<0.5	18.10	9.9	<0.05	2550	<5	260	0.6	0.6	<2	0.6	1300	0.5	<0.1	<1	0.26	2100
4018	2.25	14	3.0	1700	25	21.2	5	4	22	7.5	<0.02	0.29	1.1	21.60	8.0	<0.05	2570	<5	600	0.9	0.8	<2	0.5	960	0.7	<0.1	<1	0.34	2000
4019	2.00	9	5.6	1000	24	17.8	26	15	40	1.8	0.49	0.90	2.2	18.80	15.0	0.21	3800	12	220	0.7	2.4	<2	2.3	980	2.7	0.8	<1	1.21	1300
4021	2.30	7	6.0	1500	29	15.8	33	4	36	2.1	0.54	1.06	2.4	23.80	16.0	0.19	3780	15	190	0.5	3.3	<2	2.4	500	3.0	0.5	<1	1.20	1800
4022	1.97	24	7.3	1300	94	17.7	18	8	11	2.3	0.26	0.52	1.5	24.60	13.0	0.12	3130	17	270	1.5	1.4	<2	1.6	830	1.4	<0.2	<1	0.59	1600
4023	1.73	15	2.9	2500	21	19.9	4	5	20	2.9	<0.02	0.21	<0.5	22.80	3.8	<0.05	1150	<5	570	0.3	0.6	<2	0.4	690	0.3	<0.1	<1	0.21	2100
4024	1.77	10	2.1	3100	29	18.9	5	4	22	3.0	<0.02	0.17	<0.5	28.60	2.7	<0.05	1340	<5	580	0.4	0.4	<2	0.3	600	0.1	<0.1	<1	0.17	2100
4025	2.39	34	3.3	2600	29	21.9	10	6	25	1.1	0.21	0.49	1.7	21.60	7.3	0.09	2120	10	330	0.4	1.4	<2	1.0	770	1.1	<0.1	<1	0.51	1300
4026	1.84	9	3.2	2500	41	22.2	4	3	33	0.7	<0.03	0.27	0.9	23.50	5.0	<0.05	1700	<5	330	0.5	0.8	<2	0.5	460	0.4	<0.1	<1	0.31	2000
4027	2.09	11	3.6	3700	28	20.0	7	7	28	0.6	0.15	0.29	1.1	27.20	5.3	0.06	4050	<5	330	0.5	0.8	<2	0.6	570	0.6	<0.1	<1	0.32	1100
4028	2.45	14	4.4	650	31	20.1	7	8	10	<0.5	<0.02	0.29	0.7	18.60	4.8	0.08	2120	7	59	0.6	0.8	<2	0.6	600	0.6	<0.1	<1	0.23	1500
4029	2.32	11	2.6	2800	20	22.2	6	2	14	<0.5	<0.02	0.23	<0.5	22.40	3.7	<0.05	1320	6	150	0.4	0.6	<2	0.4	520	0.6	<0.1	<1	0.17	2100
4030	2.11	<5	2.2	4500	44	25.1	5	3	9	0.8	<0.02	0.18	0.9	18.70	3.6	<0.05	844	<5	200	0.4	0.5	<2	0.3	1000	0.4	<0.1	<1	0.17	2000
4031	1.91	7	2.7	2200	17	20.0	6	3	17	0.6	<0.02	0.20	<0.5	26.00	3.3	<0.05	1300	<5	330	0.5	0.5	<2	0.3	450	0.3	<0.1	<1	0.14	2100
4032	1.69	<5	2.8	1600	17	19.2	3	2	21	22.0	<0.02	0.19	<0.5	20.30	3.6	<0.05	2170	<5	640	0.9	0.5	<2	0.3	830	0.3	<0.1	<1	0.20	1900
4033	2.16	13	3.0	2800	28	20.2	9	11	14	29.0	<0.04	0.31	<0.5	19.70	6.3	<0.05	2000	<5	610	1.0	1.0	<2	0.7	1100	1.1	<0.2	<1	0.31	1500
4034	1.92	9	2.5	1800	32	22.6	7	3	22	9.6	<0.02	0.18	<0.5	23.00	6.1	<0.05	2980	<5	380	0.8	0.5	<2	0.4	1300	0.4	<0.1	<1	<0.05	2500
4035	1.94	9	3.5	2300	22	23.7	9	2	38	11.0	<0.02	0.29	0.9	16.90	5.7	0.05	1280	<5	320	0.7	0.8	<2	0.6	1000	0.8	<0.1	3	0.34	2300

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ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
4004	0.3	0.52	342	0.2	11.0	170	3	4.83	27434	<1	43	2.109	34	693	32
4005	<0.3	1.11	370	0.2	5.5	145	4	4.77	20295	1	62	1.836	154	859	76
4007	0.3	0.54	384	0.5	5.4	135	<2	2.41	30768	1	67	1.918	33	477	58
4008	<0.3	0.51	315	0.3	7.9	154	<2	3.34	24258	1	101	1.945	60	540	83
4009	2.4	0.61	317	0.5	11.9	196	<2	2.41	62170	<1	59	2.851	50	428	47
4010	<0.3	1.04	303	0.2	12.8	170	12	3.24	17081	1	59	1.632	2120	424	50
4011	<0.3	1.16	276	0.2	2.5	120	9	4.16	11917	1	43	1.376	66	476	45
4012	<0.3	0.44	418	0.5	9.5	204	<2	4.57	70245	<1	44	2.387	52	623	39
4013	0.3	0.55	335	0.2	17.0	189	<2	3.83	26557	<1	49	2.135	31	471	23
4014	<0.3	0.97	270	0.4	3.5	134	22	3.49	4259	2	32	1.883	83	981	37
4015	<0.3	0.58	366	0.2	8.5	163	<2	5.20	14350	<1	45	2.103	81	766	59
4016	<0.3	0.81	458	0.6	11.0	210	<2	3.98	39331	<1	134	1.991	61	729	30
4017	<0.3	1.00	405	0.2	5.0	176	<2	4.63	30736	1	77	2.150	98	1113	62
4018	<0.3	0.50	427	0.2	6.6	167	2	5.15	20522	1	75	2.379	64	825	119
4019	0.4	1.74	361	0.5	9.0	183	9	4.12	23123	1	446	1.930	85	674	43
4021	0.3	0.80	351	0.3	6.7	132	10	3.23	16951	<1	70	1.815	198	198	33
4022	0.4	1.30	377	0.9	2.4	165	4	4.68	20506	<1	88	2.644	132	787	70
4023	0.8	0.64	371	0.6	14.5	154	<2	4.13	32075	<1	68	2.221	49	476	25
4024	0.3	0.35	388	0.3	4.3	160	<2	4.76	25374	<1	62	1.968	37	363	19
4025	0.5	0.99	292	0.5	3.3	113	4	3.54	17702	1	56	2.195	57	485	29
4026	<0.3	0.63	506	<0.2	1.9	147	3	5.21	4010	<1	46	2.360	53	441	46
4027	<0.3	0.73	326	0.6	4.9	125	3	3.29	34106	1	79	1.956	64	444	38
4028	<0.3	0.71	313	0.5	5.3	132	<2	4.45	20288	2	114	3.032	51	404	28
4029	<0.3	0.27	352	0.2	6.9	134	2	4.16	14128	1	28	1.970	56	472	38
4030	<0.3	0.66	332	0.5	8.6	128	3	4.88	18521	<1	77	1.847	49	716	24
4031	<0.3	0.58	353	0.3	9.6	225	<2	4.33	13626	1	49	2.737	36	310	20
4032	<0.3	0.64	403	0.6	7.1	208	<2	4.70	58636	2	20	3.472	76	623	40
4033	1.0	1.19	451	0.9	9.3	228	2	5.26	27417	8	56	3.530	70	774	32
4034	1.4	0.37	520	0.3	10.1	221	2	4.34	14183	3	45	2.177	51	676	58
4035	1.9	0.46	439	0.3	10.8	177	2	3.51	27275	<1	18	1.875	85	639	28



# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
4036	11D14	20	482949	4975174	6	10	-	MMW	EC
4037	11D14	20	484408	4976444	7	9	-	DDW	COG
4039	11D14	20	484104	4979601	7	9	-	DMW	EC
4040	11D14	20	485416	4981598	5	8	-	DMW	EC
4042	11D14	20	460950	4973721	5	7	3NW	DMW	COG
4043	11D14	20	462039	4974988	5	7	1NW	MMW	COG
4044	11D14	20	485770	4977690	6	9	-	DMW	COG
4045	11D14	20	488078	4978392	7	10	0	DMW	COG
4046	11D14	20	490581	4980855	5	9	-	MMW	COH
4047	11D14	20	490844	4977786	7	9	0	DMW	COG
4048	11D14	20	485736	4975989	7	9	-	DDW	COG
4049	11D14	20	487708	4975177	6	9	0	DMW	COG
4050	11D14	20	490062	4973909	7	9	0	DMW	COG
4051	11D14	20	494895	4981761	6	9	0	DMW	COH
4052	11D14	20	495324	4979526	5	7	0	MDW	COG
4053	11D14	20	494361	4976769	7	9	0	WMW	COG
4054	11D14	20	492408	4976754	6	8	-	MMW	COG
4055	11E6	20	482374	5012659	6	8	-	DMW	H
4056	11E6	20	481863	5013445	6	10	0	DMW	H
4057	11E6	20	483659	5015297	9	10	-	DMW	H
4058	11E6	20	483264	5011503	4	8	0	DMW	H
4059	11E6	20	486595	5011920	7	10	-	-	H
4060	11E6	20	486040	5013156	5	7	-	DMW	H
4061	11E6	20	487773	5016072	4	6	0	WMB	H
4062	11E6	20	489723	5018170	9	10	-	DMW	H
4063	11E6	20	489569	5015673	7	10	0	DMW	H
4064	11E6	20	491495	5015355	4	7	0	DMW	H
4065	11E6	20	486262	5018571	6	9	-	DMW	H
4066	11E6	20	471409	5012602	7	10	-	MWD	EC
4067	11E6	20	472888	5013616	7	9	-	DMW	EC

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
4036	2.16	7	4.0	1600	22	20.9	5	3	20	3.6	<0.02	0.25	0.6	21.40	4.9	0.06	1710	<5	270	0.6	0.6	4	0.4	590	0.5	<0.1	<1	0.25	1700
4037	2.18	<5	4.7	5300	41	23.8	5	2	13	1.3	<0.02	0.18	<0.5	21.30	3.8	<0.05	1580	<5	240	0.4	0.5	<2	0.3	650	0.3	<0.1	<1	0.20	2000
4039	2.07	<5	7.0	3000	34	22.4	6	4	17	0.7	<0.02	0.21	0.8	21.70	4.4	<0.05	1540	8	150	0.6	0.6	<2	0.5	490	0.7	<0.1	<1	0.28	2200
4040	2.30	11	4.9	2700	17	23.7	16	4	19	1.0	0.31	0.59	2.0	18.60	8.5	0.12	2580	<5	92	0.4	1.7	<2	1.3	780	1.4	<0.1	<1	0.56	1600
4042	2.03	13	12.0	1600	59	21.8	7	5	30	1.2	<0.03	0.37	0.9	24.80	5.8	<0.05	1910	<5	210	0.8	1.0	<2	0.6	790	0.7	<0.2	<1	0.38	1600
4043	1.97	9	4.0	2600	48	20.5	4	4	15	5.4	<0.03	0.20	<0.5	23.20	4.5	<0.05	1840	<5	440	0.6	0.5	<2	0.4	830	<0.1	<0.1	<1	<0.05	2200
4044	2.08	<5	1.7	3000	27	20.4	4	7	12	1.4	<0.02	0.12	<0.5	25.10	2.4	0.05	1720	<5	310	0.4	0.3	<2	0.2	610	<0.1	<0.1	<1	0.13	1800
4045	2.08	10	7.4	700	39	20.7	11	5	25	2.0	0.17	0.38	0.6	20.80	6.8	0.06	2640	<5	280	1.0	1.1	<2	0.7	940	0.8	<0.1	<1	0.39	2000
4046	2.18	20	4.5	3500	31	18.4	15	4	15	1.6	0.31	0.52	1.3	24.80	8.8	0.09	3630	10	270	0.5	1.6	<2	1.1	730	0.9	<0.1	<1	0.73	2100
4047	2.21	12	4.6	1600	42	16.1	9	5	18	2.3	<0.02	0.34	<0.5	29.40	6.9	<0.05	1800	8	440	0.7	0.9	7	0.7	970	0.9	0.6	<1	0.32	2100
4048	1.83	16	4.2	2500	33	19.4	9	5	17	0.6	0.19	0.25	0.9	28.60	5.5	<0.05	1720	<5	270	0.5	0.6	4	0.5	1200	0.5	<0.1	<1	0.28	2200
4049	2.19	<5	4.1	1400	28	22.3	9	6	10	1.6	0.20	0.27	0.9	27.50	6.0	0.06	2720	<5	380	0.4	0.7	<2	0.6	940	<0.1	<0.1	<1	0.28	1400
4050	2.03	7	2.8	750	41	23.1	6	6	14	1.9	<0.03	0.28	0.6	25.90	4.8	0.08	3960	<5	370	0.7	0.7	<2	0.4	1300	0.3	<0.1	<1	0.30	2400
4051	2.17	8	4.8	1600	35	23.0	7	4	21	1.6	<0.03	0.37	0.7	18.60	4.6	0.05	1710	<5	260	0.9	0.9	<2	0.5	460	0.9	<0.1	<1	0.34	2200
4052	2.02	12	2.4	1900	27	25.6	8	3	20	1.0	<0.02	0.24	<0.5	25.00	3.9	<0.05	1850	<5	180	0.6	0.7	<2	0.4	1100	0.4	<0.1	<1	0.22	1700
4053	2.12	13	3.0	1800	28	23.2	4	4	15	0.9	<0.02	0.20	0.7	27.80	3.8	<0.05	1850	<5	200	0.4	0.5	<2	0.3	780	0.5	<0.1	<1	<0.05	4000
4054	1.91	8	2.2	3600	46	22.8	6	9	15	2.2	<0.03	0.16	<0.5	22.20	3.0	<0.05	1230	<5	290	0.3	0.5	<2	0.3	1200	<0.1	<0.1	<1	0.20	2200
4055	2.37	6	4.5	2900	24	23.4	6	5	21	<0.5	<0.03	0.34	0.9	25.20	3.7	0.06	2380	<5	130	0.7	1.0	<2	0.5	800	0.6	<0.1	<1	0.38	1500
4056	2.41	<5	5.1	6400	23	24.7	5	5	16	<0.5	<0.03	0.26	<0.5	16.20	3.5	<0.05	1650	<5	100	0.9	0.8	<2	0.4	1500	0.4	<0.1	<1	<0.05	1900
4057	1.86	27	3.0	3700	31	22.7	<3	7	17	<0.5	<0.03	0.20	<0.5	22.60	2.3	<0.05	1440	<5	140	0.6	0.5	<2	0.4	700	<0.1	<0.1	<1	0.22	1900
4058	2.07	23	5.0	3100	35	21.3	8	5	22	0.9	<0.03	0.38	0.8	24.00	4.4	0.06	1250	<5	260	0.7	1.0	<2	0.6	800	0.7	<0.1	3	0.34	2700
4059	1.90	15	2.5	2600	40	22.8	5	4	26	0.9	<0.03	0.22	<0.5	24.20	3.1	<0.05	1720	<5	230	0.6	0.6	<2	0.4	960	<0.1	<0.1	<1	0.23	2100
4060	2.51	15	2.6	6000	24	20.4	4	3	23	1.3	<0.03	0.23	1.4	24.50	2.9	<0.05	993	<5	230	0.4	0.7	<2	0.3	710	<0.1	<0.1	<1	0.21	1600
4061	2.64	6	2.6	3500	21	17.8	9	7	23	1.2	<0.03	0.44	1.3	27.10	5.3	0.08	1740	<5	85	0.4	1.3	<2	0.7	430	1.0	<0.1	<1	0.47	1300
4062	1.95	12	3.1	520	19	17.9	6	4	23	8.0	<0.03	0.29	0.6	28.00	3.3	<0.05	1370	<5	370	0.8	0.8	<2	0.4	660	0.6	<0.1	<1	0.35	2200
4063	2.29	9	4.9	3700	24	17.6	22	9	27	2.0	0.40	0.93	3.0	20.60	11.0	0.17	2540	<5	180	0.6	2.8	<2	1.6	890	2.2	1.0	<1	1.27	1800
4064	1.88	<5	2.3	1400	22	11.3	5	4	10	2.0	<0.02	0.21	0.8	33.30	2.5	<0.05	2120	<5	470	0.5	0.5	3	0.3	800	<0.1	<0.1	<1	0.19	1700
4065	2.43	<5	2.9	4600	26	20.6	6	4	11	1.3	0.21	0.28	<0.5	27.00	3.2	<0.05	2590	<5	160	0.9	0.8	<2	0.4	820	<0.1	<0.1	<1	0.32	2100
4066	2.31	17	3.2	3300	29	26.9	5	4	19	0.8	<0.03	0.29	0.9	19.80	3.4	<0.05	1520	<5	110	0.4	0.7	<2	0.4	2300	0.3	<0.1	<1	0.20	1800
4067	1.99	9	3.7	3300	22	20.6	38	6	31	1.5	0.74	0.97	2.6	20.50	19.0	0.20	3920	24	100	0.5	3.1	<2	3.2	590	3.1	0.9	<1	1.34	1400

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
4036	1.4	0.49	417	0.2	4.5	196	<2	4.05	19792	<1	25	1.984	71	429	28
4037	1.0	0.60	444	0.3	19.8	217	<2	3.01	9864	<1	43	2.315	53	346	22
4039	1.1	0.42	491	0.2	7.3	224	<2	4.32	15063	<1	19	2.751	39	267	18
4040	0.7	0.44	360	0.3	4.2	184	6	4.53	5712	<1	24	1.960	24	467	10
4042	1.5	0.96	359	0.3	6.6	194	<2	3.88	16370	<1	116	2.567	90	483	43
4043	1.3	0.56	453	0.3	9.8	187	<2	3.64	27281	8	47	2.008	62	547	64
4044	2.1	0.39	348	0.3	7.1	177	<2	3.80	27623	<1	29	2.679	38	480	16
4045	1.9	0.61	447	0.2	7.9	198	2	4.27	16730	<1	45	1.841	107	597	53
4046	0.5	0.63	306	0.7	12.4	162	<2	2.84	18748	4	33	1.931	60	558	26
4047	1.0	0.81	516	0.3	2.1	189	<2	4.27	7748	1	60	2.438	90	674	35
4048	1.6	0.62	469	0.5	10.6	230	<2	4.13	18980	<1	86	2.232	53	658	20
4049	0.9	0.57	356	<0.2	8.6	186	4	5.40	19427	3	46	1.880	45	647	16
4050	0.5	0.66	488	<0.2	6.2	226	2	3.69	11326	3	39	2.569	74	598	24
4051	0.9	0.95	414	<0.2	13.4	155	3	3.88	32610	5	56	2.558	78	356	32
4052	0.4	0.40	423	<0.2	6.6	185	<2	3.94	14316	<1	28	2.186	54	569	16
4053	1.4	0.31	359	<0.2	20.6	198	<2	2.86	29405	2	31	1.908	60	613	21
4054	1.2	0.36	482	0.2	5.1	203	<2	3.87	27831	1	37	2.150	52	663	11
4055	0.3	0.49	300	0.2	7.3	192	3	3.47	12574	<1	59	2.385	44	542	11
4056	0.9	0.67	319	<0.2	4.4	179	<2	4.30	11595	6	54	2.699	66	693	23
4057	1.3	0.67	333	0.4	2.2	327	<2	7.39	6462	<1	158	4.229	40	421	14
4058	2.0	0.53	327	<0.2	9.9	185	<2	2.93	27647	1	56	1.835	69	493	24
4059	1.9	0.81	347	<0.2	12.9	227	<2	3.51	27893	5	52	2.260	76	566	18
4060	1.5	0.32	321	<0.2	7.3	160	<2	3.58	24984	2	54	2.684	39	528	16
4061	0.8	0.96	343	0.2	3.7	187	3	4.04	11787	<1	94	3.472	26	389	15
4062	1.5	0.90	340	<0.2	6.9	218	<2	4.73	22850	<1	61	3.990	76	538	24
4063	1.0	0.99	314	0.4	6.5	169	7	3.81	19119	2	75	1.938	45	589	15
4064	2.5	0.71	399	<0.2	5.4	195	2	4.74	48657	<1	99	2.274	49	617	16
4065	1.0	0.23	379	<0.2	6.9	175	<2	5.33	18107	2	44	4.534	63	452	27
4066	0.5	0.48	390	<0.2	10.4	175	<2	4.00	13667	6	49	2.700	109	1684	21
4067	<0.3	1.17	316	0.9	7.1	197	9	4.61	5717	3	80	2.285	48	622	13

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
4068	11E6	20	472519	5016505	6	9	0	MSF	EC
4069	11E6	20	468770	5011228	5	7	-	MSW	EC
4070	11E6	20	469498	5018795	9	11	0	DMW	H
4071	11E6	20	471335	5019789	7	9	0	DMW	H
4072	11E6	20	471103	5014701	7	9	0	DMW	EC
4073	11E6	20	478086	5012171	6	8	0	WOB	EC
4074	11E6	20	479397	5014361	6	8	-	DOW	H
4075	11E6	20	478303	5015422	5	7	-	DMW	H
4076	11E6	20	478852	5018093	7	10	-	DMW	H
4077	11E6	20	479054	5019925	8	10	-	DMW	H
4078	11E6	20	476093	5015311	5	9	-	DMW	EC
4079	11E6	20	476051	5010847	7	9	-	DMW	EC
4080	11E6	20	475980	5017278	8	10	-	DMW	H
4081	11E6	20	476802	5012354	6	9	-	DMW	EC
4082	11E6	20	489718	5013546	56	0	-	WMW	H
4083	11E6	20	491013	5011217	5	8	-	-	H
4084	11E6	20	494136	5012321	6	9	0	MSL	EC
4085	11E6	20	493720	5013930	5	7	-	DMW	H
4086	11E6	20	494740	5015263	7	9	-	DMW	H
4087	11E6	20	494329	5017064	7	10	0	DMW	H
4088	11E6	20	493344	5018590	5	7	0	DMW	H
4089	11E6	20	491419	5018796	6	8	0	DMW	H
4090	11E6	20	495870	5019646	6	8	-	DMW	H
4091	11E6	20	497743	5018086	4	6	0	DMW	H
4092	11E6	20	497608	5011320	6	9	-	DMW	H
4093	11E6	20	498144	5010634	6	9	0	DMW	EC
4094	11E6	20	499815	5012468	7	9	-	DMW	H
4095	11E6	20	497175	5012899	7	8	0	DMW	H
4096	11E6	20	499387	5015631	7	8	-	DMW	H
4097	11E7	20	508794	5015920	7	9	0	DMW	H

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
4068	2.80	<5	4.6	1400	31	17.2	24	9	27	1.6	0.43	0.88	2.8	21.90	12.0	0.15	3940	16	180	0.5	3.1	<2	1.9	1300	2.3	<0.1	<1	1.09	1500
4069	1.78	<5	3.3	3900	23	21.6	4	5	16	1.4	<0.03	0.25	<0.5	26.10	2.9	<0.05	1580	<5	320	0.5	0.6	<2	0.4	650	0.5	<0.1	3	0.26	2800
4070	1.97	7	2.1	4400	35	21.6	6	4	22	0.9	<0.03	0.23	0.9	25.40	2.8	<0.05	877	<5	310	0.6	0.6	<2	0.3	790	0.3	<0.1	<1	0.23	2100
4071	2.16	<5	<0.5	2500	48	19.8	4	8	11	33.0	<0.03	0.21	<0.5	23.60	2.1	<0.05	956	<5	2500	0.8	0.5	<2	0.3	640	<0.1	<0.1	<1	<0.05	1600
4072	2.01	<5	1.7	920	24	21.3	<3	3	17	2.7	0.13	0.19	0.6	21.70	2.0	<0.05	1140	<5	470	0.4	0.5	<2	0.3	710	0.2	<0.1	<1	0.14	2200
4073	2.47	<5	5.4	3700	20	21.2	17	4	21	<0.5	<0.03	0.67	1.9	28.30	8.1	0.14	1910	<5	74	0.7	1.9	<2	1.3	800	1.1	<0.1	<1	0.74	2100
4074	2.26	<5	4.1	5500	60	24.4	9	6	26	1.9	<0.03	0.38	1.7	23.00	5.5	0.06	1540	<5	160	0.7	1.1	<2	0.8	1300	0.6	<0.1	<1	0.47	2200
4075	2.01	<5	2.4	6100	23	21.8	<3	2	16	0.9	<0.03	0.30	<0.5	24.80	3.3	<0.05	1790	<5	130	0.4	0.7	<2	0.4	920	0.3	<0.1	<1	<0.05	2000
4076	1.97	10	2.1	7100	33	21.8	6	4	21	0.6	<0.03	0.27	<0.5	23.40	4.0	<0.05	1350	<5	72	0.6	0.7	<2	0.4	830	<0.1	<0.1	<1	0.38	1600
4077	2.13	7	2.3	4100	28	25.7	5	4	12	0.9	<0.03	0.29	1.0	22.50	3.3	0.05	1310	<5	96	0.6	0.7	<2	0.5	800	0.3	<0.1	<1	0.17	2300
4078	2.24	<5	2.6	3400	21	21.5	6	3	14	1.0	<0.03	0.33	1.3	28.30	3.5	0.05	1980	<5	70	0.5	0.9	<2	0.5	1500	0.5	<0.1	<1	0.23	1800
4079	1.75	8	4.3	4500	21	24.3	10	4	30	1.1	<0.03	0.41	1.7	21.60	5.2	<0.05	1380	<5	110	0.8	1.0	<2	0.7	780	0.8	<0.1	<1	0.47	1800
4080	1.66	<5	1.4	4100	23	25.0	5	3	15	1.0	<0.02	0.31	0.9	21.90	3.8	0.06	2650	<5	110	0.6	0.7	<2	0.6	940	<0.1	<0.1	<1	0.31	2500
4081	2.08	6	4.9	3100	23	28.2	7	4	24	0.8	0.19	0.37	1.4	16.60	4.9	0.08	1310	<5	250	0.8	1.0	<2	0.7	1400	0.7	<0.1	<1	0.44	1900
4082	2.19	13	2.1	4200	25	21.6	<3	4	18	2.3	<0.02	0.19	1.0	25.70	2.7	<0.05	1350	<5	180	0.7	0.5	<2	0.4	1100	0.3	<0.1	<1	0.14	1300
4083	2.21	<5	2.7	3100	28	20.9	10	6	11	1.2	<0.02	0.32	1.3	23.20	3.6	<0.05	2180	<5	140	0.6	0.9	<2	0.5	1000	0.6	<0.1	<1	0.40	1100
4084	2.57	<5	2.5	2500	29	17.7	8	5	18	1.9	<0.03	0.49	1.6	22.90	5.8	0.09	1640	<5	190	0.7	1.4	<2	0.8	590	1.1	<0.1	<1	0.49	2900
4085	2.17	<5	1.9	4900	20	17.1	9	8	15	2.0	<0.02	0.35	<0.5	27.80	3.9	<0.05	1360	<5	440	0.7	0.9	<2	0.6	810	0.6	<0.1	<1	0.25	1400
4086	2.02	15	2.8	3400	36	18.5	5	5	19	2.7	<0.02	0.28	<0.5	24.60	3.9	<0.05	1880	<5	380	0.8	0.7	<2	0.4	930	0.6	<0.1	5	0.30	1900
4087	1.98	8	4.3	1600	48	16.2	9	6	17	3.4	<0.03	0.37	0.7	26.70	4.8	<0.05	1590	<5	410	1.2	1.1	5	0.6	1200	0.9	<0.1	<1	0.34	1900
4088	2.59	<5	2.1	1900	22	12.1	11	5	14	1.3	0.30	0.47	1.7	31.50	5.4	0.11	1480	<5	320	0.5	1.4	<2	0.8	620	1.1	0.5	<1	0.56	1700
4089	2.23	<5	3.1	2500	39	17.7	6	8	13	5.2	<0.02	0.29	<0.5	30.90	2.9	0.07	2240	9	460	0.7	0.8	<2	0.4	790	0.5	<0.1	<1	0.26	1900
4090	1.81	8	4.4	2400	34	19.1	8	3	20	1.4	<0.02	0.39	<0.5	27.20	5.0	<0.05	2220	<5	330	1.4	1.0	<2	0.7	1100	1.0	<0.1	<1	0.30	2400
4091	1.84	<5	2.4	750	17	19.4	6	2	24	3.6	<0.02	0.27	<0.5	26.40	2.8	<0.05	961	<5	320	0.6	0.6	<2	0.4	390	0.3	<0.1	<1	0.24	2000
4092	2.34	8	2.7	3200	27	20.6	13	4	18	1.2	0.24	0.58	2.5	19.70	6.6	0.12	2110	<5	78	0.6	1.8	<2	1.1	910	1.3	<0.1	<1	0.71	2000
4093	2.78	<5	1.5	3300	20	23.2	5	2	10	0.8	<0.02	0.28	1.0	25.90	3.2	<0.05	1450	8	160	0.3	0.8	<2	0.5	1300	0.4	<0.1	<1	0.31	2300
4094	2.31	<5	7.5	6000	26	15.3	33	6	34	1.9	0.57	1.35	4.7	28.10	17.0	0.31	2510	24	210	0.9	3.9	<2	2.8	1100	3.5	1.1	<1	1.78	2600
4095	2.06	<5	3.4	1200	44	17.7	7	5	12	2.9	<0.02	0.29	0.9	28.50	3.0	<0.05	1780	<5	510	0.7	0.7	<2	0.4	730	0.4	<0.1	<1	0.34	1900
4096	2.21	7	4.0	2100	26	16.8	12	8	22	1.9	0.26	0.51	1.7	26.40	6.5	0.13	1500	5	320	0.7	1.4	3	1.0	920	1.1	<0.1	<1	0.57	1900
4097	1.80	9	2.3	3800	26	19.7	7	5	16	0.7	<0.02	0.25	<0.5	27.50	3.3	<0.05	1680	<5	240	0.5	0.6	<2	0.4	1300	0.4	<0.1	<1	0.22	2400

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
4068	1.1	0.71	369	<0.2	7.1	159	8	2.55	18326	2	38	1.668	29	776	21
4069	1.1	0.78	382	0.3	16.7	215	<2	5.44	16901	<1	59	2.984	64	405	20
4070	1.1	0.56	403	<0.2	8.7	190	3	4.36	34438	<1	71	3.295	79	577	20
4071	1.6	0.89	305	<0.2	5.8	177	<2	4.24	27699	1	57	3.805	40	346	15
4072	1.3	0.51	428	<0.2	6.8	166	<2	5.73	30197	1	61	3.266	45	407	14
4073	0.3	0.75	307	0.2	14.6	165	2	3.74	9436	<1	15	3.663	92	502	18
4074	<0.3	0.64	301	0.2	10.6	183	2	3.08	19747	3	45	2.474	102	910	25
4075	0.4	0.75	347	0.2	13.8	261	<2	4.84	8388	3	62	4.327	39	785	14
4076	0.8	1.01	384	0.3	6.7	235	<2	4.97	15521	2	104	4.432	68	510	29
4077	1.1	0.79	422	<0.2	6.3	185	<2	5.03	14124	<1	79	2.653	102	548	40
4078	0.4	0.36	316	<0.2	5.2	240	2	4.39	3108	2	67	3.753	51	800	19
4079	0.4	0.69	366	0.2	16.5	222	<2	4.75	12017	3	50	3.091	88	482	25
4080	0.8	0.45	386	<0.2	5.3	294	<2	3.48	7034	<1	41	2.359	196	604	46
4081	0.7	0.59	466	<0.2	13.1	259	4	3.54	9866	8	45	2.341	118	1123	41
4082	0.4	0.60	309	0.5	7.8	213	4	4.79	22086	8	180	3.756	46	639	15
4083	0.4	0.59	441	0.3	10.6	199	6	3.98	16139	3	62	2.526	31	720	12
4084	0.7	0.86	388	0.3	25.1	172	3	4.46	25702	5	98	2.577	77	582	31
4085	0.8	0.66	330	0.6	12.2	201	3	3.29	41865	2	51	2.725	55	501	11
4086	0.6	0.59	448	0.3	11.9	216	2	3.91	40263	1	66	2.153	73	569	28
4087	0.3	0.86	525	0.3	11.9	216	2	4.41	52233	6	44	3.021	76	583	33
4088	0.4	0.76	402	0.5	9.4	206	4	4.15	20135	2	73	3.195	34	401	13
4089	0.5	0.59	403	0.4	3.6	226	2	4.50	19283	<1	52	3.292	54	618	22
4090	0.3	0.50	405	0.4	13.5	253	6	3.24	33528	3	38	2.907	95	677	42
4091	0.6	0.37	459	0.2	10.9	192	3	4.76	36363	4	51	3.385	60	278	21
4092	<0.3	0.71	384	0.4	7.7	198	5	2.52	21962	11	73	2.723	21	875	15
4093	<0.3	0.50	384	0.4	14.6	186	<2	3.12	19099	5	80	2.446	21	839	8
4094	0.3	1.16	324	0.8	15.4	218	13	3.30	10948	10	126	2.971	40	576	16
4095	<0.3	0.54	462	0.2	10.2	211	2	4.16	27289	5	41	2.895	69	515	22
4096	<0.3	0.52	640	0.3	9.5	213	5	3.08	43538	1	47	2.137	66	589	30
4097	<0.3	0.90	480	0.5	13.5	238	2	3.79	34942	<1	142	2.990	75	732	17

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
4098	11E7	20	509496	5016091	6	8	0	DMW	H
4099	11E7	20	508477	5018917	6	10	-	DSW	H
4100	11E7	20	509999	5019858	6	10	0	DMW	H
4101	11E7	20	512204	5018389	6	9	-	DMW	H
4102	11E7	20	510223	5012906	5	7	-	DMW	EC
4103	11E7	20	512054	5015965	4	7	-	WDW	H
4104	11E7	20	513969	5015340	5	7	-	DMW	COG
4105	11E7	20	514785	5017405	5	7	-	MDW	H
4106	11E7	20	513538	5019577	7	9	-	MMW	H
4107	11E7	20	517389	5017002	5	7	-	WDW	COG
4108	11E7	20	518497	5015395	5	7	-	WMW	DC
4109	11E7	20	518590	5013510	4	7	-	MMW	COG
4110	11E7	20	516313	5014361	5	7	-	WMW	COG
4111	11E7	20	509557	5014136	4	6	-	MMW	EC
4112	11E7	20	507451	5012981	5	7	-	DMW	EC
4113	11E7	20	507749	5011264	5	7	-	DDW	EC
4114	11E7	20	505094	5012128	7	9	-	-	EC
4115	11E7	20	506129	5014360	5	8	0	DMW	H
4116	11E7	20	503913	5011142	6	9	-	-	EC
4117	11E7	20	503703	5014680	6	8	0	DMW	H
4118	11E7	20	500505	5012432	5	9	-	DMW	H
4119	11E7	20	500705	5015652	6	7	0	DMW	H
4120	11E7	20	500974	5017536	6	9	0	DMW	H
4121	11E7	20	500855	5019321	6	7	-	DMW	H
4122	11E7	20	502710	5016292	6	9	-	DMW	H
4123	11E7	20	503435	5018036	6	8	0	DMW	H
4124	11E7	20	503788	5019849	8	10	0	DMW	H
4125	11E7	20	505113	5017109	7	10	-	DMW	H
4126	11E7	20	506221	5019873	5	8	-	DMW	H
4127	11E7	20	506377	5019771	4	6	-	DMW	H

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	HF ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
4098	1.87	<5	1.9	2800	19	19.4	4	3	16	<0.5	<0.02	0.18	0.8	25.50	2.3	<0.05	1630	9	120	0.5	0.5	<2	0.3	1100	0.3	<0.1	<1	<0.05	2500
4099	2.15	<5	3.2	1700	19	18.3	7	8	16	1.3	<0.02	0.28	0.8	30.30	4.0	<0.05	1510	<5	120	0.5	0.7	<2	0.6	1200	0.6	<0.1	<1	0.31	1900
4100	1.77	11	2.0	1900	30	19.1	6	4	21	1.6	<0.02	0.31	0.6	25.80	3.6	<0.05	1750	<5	220	0.6	0.8	<2	0.5	1300	0.6	<0.1	<1	0.24	2200
4101	1.94	<5	4.2	2300	53	19.9	7	4	15	1.5	0.19	0.35	0.8	23.00	5.0	0.06	2650	<5	270	0.7	0.9	<2	0.6	1500	0.6	<0.1	<1	0.38	1800
4102	2.13	13	3.8	2600	39	17.0	11	14	20	4.0	<0.02	0.53	1.4	24.40	6.1	<0.05	2510	<5	360	0.6	1.4	<2	0.8	1200	0.9	0.6	<1	0.50	2300
4103	2.26	8	3.3	2400	28	18.5	13	10	12	4.0	0.30	0.50	1.9	26.70	9.4	0.08	3270	16	360	0.9	1.6	<2	1.6	1100	0.9	<0.1	<1	0.64	3200
4104	1.92	7	3.2	1400	29	21.1	10	3	19	7.1	0.18	0.41	1.1	22.40	5.6	0.10	3040	9	600	0.7	1.3	<2	0.9	1200	1.0	<0.1	<1	0.62	2300
4105	2.36	8	4.6	1000	30	17.8	28	9	27	2.1	0.52	1.07	3.1	23.90	13.0	0.20	3320	15	200	0.7	3.5	<2	2.2	920	2.8	<0.1	<1	1.54	1900
4106	2.06	8	3.0	1100	31	18.7	7	3	23	2.5	<0.02	0.27	0.9	28.10	4.2	0.05	2480	<5	300	0.7	0.7	<2	0.5	990	0.5	<0.1	<1	0.34	2600
4107	2.14	<5	3.8	540	46	18.0	12	4	17	2.4	0.23	0.52	1.1	25.90	6.2	0.07	2740	9	370	0.7	1.4	4	0.9	610	1.4	<0.1	<1	0.57	1900
4108	2.44	11	1.9	1600	41	13.6	6	3	9	1.5	<0.02	0.26	1.0	28.30	3.2	<0.05	1830	<5	260	0.4	0.6	<2	0.4	1000	0.4	<0.1	<1	<0.05	2000
4109	2.08	<5	2.1	1100	28	16.9	5	4	21	5.3	0.12	0.24	<0.5	32.50	3.2	<0.05	1940	<5	420	0.5	0.7	<2	0.4	990	0.5	<0.1	<1	0.26	2500
4110	2.70	6	5.4	1800	32	17.5	27	7	23	3.3	0.52	1.03	3.3	19.50	13.0	0.22	3590	15	260	0.9	3.2	<2	2.2	<300	2.6	<0.1	<1	1.39	1600
4111	2.19	<5	2.0	2400	24	19.5	5	4	10	2.2	<0.02	0.29	0.9	23.50	3.3	0.06	1360	<5	310	0.5	0.7	<2	0.4	1300	0.6	<0.1	<1	0.27	2700
4112	2.38	<5	3.8	2700	37	17.6	9	3	15	1.1	0.25	0.45	1.4	30.00	5.8	0.08	2760	<5	120	0.8	1.2	<2	0.8	1400	0.8	<0.1	<1	0.46	1400
4113	2.79	<5	2.1	3100	35	19.6	7	4	12	1.5	<0.02	0.25	1.1	27.00	3.4	<0.05	2860	<5	220	0.4	0.7	<2	0.4	1400	0.5	<0.1	<1	<0.05	1900
4114	2.28	<5	4.6	4000	27	16.2	27	5	28	2.0	0.59	1.05	3.8	24.40	15.0	0.23	3540	22	260	0.5	3.0	<2	2.4	1100	3.0	1.1	<1	1.27	1800
4115	2.73	8	2.5	2700	31	20.6	6	3	14	0.7	<0.02	0.29	1.2	21.90	3.6	0.07	2060	<5	84	0.5	0.9	<2	0.5	560	0.5	<0.1	<1	0.28	1700
4116	2.67	5	3.4	1400	26	25.5	12	2	17	0.6	0.20	0.49	1.5	23.20	5.2	0.11	2020	<5	31	0.3	1.2	<2	0.9	<300	0.9	<0.1	<1	0.64	1100
4117	2.36	9	3.3	4700	29	21.8	11	4	18	1.2	0.19	0.45	1.8	22.30	5.9	0.11	2220	<5	150	0.4	1.4	<2	0.9	1100	1.1	<0.1	<1	0.50	2700
4118	2.10	<5	<0.5	6000	81	24.3	4	3	11	0.9	0.20	0.20	1.3	23.30	3.2	<0.05	1890	<5	210	0.4	0.6	<2	0.4	1300	0.5	<0.1	<1	0.21	2500
4119	1.85	7	2.6	3400	38	16.6	4	5	20	1.4	<0.02	0.20	<0.5	32.30	3.0	<0.05	1370	<5	330	0.5	0.6	<2	0.4	840	0.4	<0.1	<1	<0.05	2900
4120	1.89	8	5.6	3400	32	15.3	22	5	33	2.6	0.38	0.98	3.1	19.00	12.0	0.22	3160	<5	360	0.7	2.8	3	1.8	1100	2.4	0.8	<1	1.24	2800
4121	1.83	9	2.3	2400	26	18.9	5	5	13	2.1	<0.02	0.23	0.8	31.50	3.2	0.07	1260	<5	390	0.6	0.6	<2	0.4	1000	0.4	<0.1	<1	0.23	2100
4122	1.99	6	2.8	2000	32	22.2	13	4	19	1.9	0.28	0.47	1.5	20.10	6.8	0.10	2260	<5	230	0.4	1.6	4	1.1	1200	1.5	<0.1	<1	0.57	2300
4123	1.93	7	2.9	3400	28	19.9	9	5	24	2.9	<0.02	0.42	1.6	22.30	5.9	0.10	2060	<5	340	0.5	1.3	<2	0.9	1400	0.7	<0.1	<1	0.56	2700
4124	1.76	8	5.4	1100	45	20.9	13	15	22	3.8	0.21	0.59	1.4	19.70	7.4	0.10	3320	<5	380	1.0	1.7	<2	1.0	1400	1.4	0.8	<1	0.50	3000
4125	1.89	<5	4.2	4900	34	20.4	7	3	13	1.4	<0.03	0.29	<0.5	23.00	4.2	<0.05	1880	<5	270	0.8	0.7	<2	0.5	1600	0.8	<0.1	<1	0.25	2400
4126	1.99	<5	4.2	4500	34	21.6	15	4	19	2.1	0.28	0.63	2.3	21.90	7.7	0.13	2260	11	240	0.6	1.8	<2	1.2	1400	1.4	0.4	<1	0.64	2600
4127	2.32	6	3.4	3300	51	23.1	10	6	21	1.5	<0.03	0.41	1.5	22.50	4.9	0.07	1800	11	160	0.6	1.2	<2	0.7	870	0.9	0.6	<1	0.49	2700



Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
4098	0.6	0.43	484	0.2	23.3	252	<2	4.70	21967	<1	143	2.778	47	707	17
4099	<0.3	0.75	370	0.2	16.6	173	<2	4.51	17676	<1	238	2.481	60	743	14
4100	<0.3	0.47	652	0.3	15.0	229	3	4.38	57101	<1	49	2.605	76	773	25
4101	<0.3	0.51	458	0.2	11.2	251	2	3.62	32886	<1	76	2.057	74	991	35
4102	0.4	0.76	509	0.5	9.2	244	5	3.49	36763	1	64	3.236	57	888	15
4103	<0.3	0.71	501	0.6	30.5	219	3	2.56	20578	1	31	2.745	74	619	14
4104	0.5	0.65	461	0.2	11.7	233	3	3.47	21649	3	39	2.549	97	711	26
4105	0.3	1.17	330	0.3	6.0	171	11	5.74	9012	<1	89	2.535	44	624	20
4106	<0.3	0.47	520	0.3	5.3	153	2	4.20	32604	<1	47	1.694	87	581	23
4107	0.3	0.97	472	0.4	4.4	167	2	5.53	17588	<1	46	2.325	89	485	23
4108	0.3	0.42	457	0.3	3.8	172	3	4.68	50695	<1	55	2.718	66	629	18
4109	<0.3	0.54	473	0.3	14.9	205	2	3.65	44660	<1	74	2.916	54	612	15
4110	1.6	0.84	329	0.4	7.5	154	8	3.15	18466	<1	39	1.718	80	370	27
4111	1.3	0.67	564	0.2	14.8	207	3	3.97	15330	2	97	2.673	45	811	19
4112	0.7	0.62	310	<0.2	7.7	177	2	3.38	8990	4	51	2.169	39	824	17
4113	0.6	0.45	321	<0.2	8.0	126	<2	3.70	14324	1	78	2.128	24	761	9
4114	1.1	0.80	337	0.4	13.7	170	9	3.13	11320	2	108	2.131	37	642	18
4115	1.1	0.53	271	<0.2	12.5	174	<2	3.38	15908	<1	108	3.400	46	295	17
4116	0.6	0.23	252	<0.2	2.3	97	2	2.85	1307	2	11	2.295	18	164	10
4117	<0.3	0.56	374	0.4	19.4	174	6	4.40	16330	2	102	2.114	46	782	16
4118	0.5	0.55	475	<0.2	20.5	215	10	3.95	18155	<1	110	2.870	35	1200	15
4119	3.0	0.49	378	0.4	18.5	249	2	3.78	45983	2	128	3.057	37	598	12
4120	3.1	1.01	367	0.6	16.9	254	6	3.01	73056	<1	88	3.014	74	872	34
4121	1.6	0.63	454	0.4	17.7	317	2	4.25	29532	<1	104	2.934	55	651	17
4122	2.4	0.58	449	0.6	20.0	228	5	3.73	38715	<1	48	2.343	57	793	24
4123	2.4	0.73	465	0.7	16.1	247	4	4.25	41333	<1	90	2.459	61	991	28
4124	3.0	0.88	558	0.3	18.1	263	6	3.65	49400	<1	117	2.346	111	761	40
4125	2.4	0.65	434	0.3	10.4	291	<2	4.00	50101	<1	133	3.150	107	989	31
4126	2.4	0.65	459	0.5	17.8	225	6	2.79	40955	1	153	2.052	64	730	21
4127	2.3	0.54	370	0.3	15.7	211	3	2.21	43848	<1	58	2.336	51	582	16

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
4128	11E7	20	513052	5012028	6	7	-	DMW	COH
4129	11E7	20	515109	5011815	6	8	-	MMW	COG
4130	11E2	20	506883	4998013	6	8	-	DMW	COG
4132	11E2	20	509069	4998326	6	8	0	DMW	COG
4133	11E2	20	502616	4997754	6	8	-	DMW	COH
5007	21H1	20	415347	5001297	9	12	1S	MMW	EC
5020	11E3	20	474399	4986233	7	8	0	MMW	EC
5021	11E3	20	473861	4985908	7	8	1E	MMW	EC
5022	11E3	20	473670	4984886	6	7	2E	DDW	EC
5023	11E3	20	473723	4985353	5	6	-	-	EC
5024	11E3	20	497517	5002996	5	6	0	WMB	EC
5025	11E3	20	491732	5004820	5	5	0	MMW	LCSV
5026	11E3	20	484444	5005967	7	9	0	WMW	EC
5028	11E3	20	482419	5010253	5	5	-	-	H
5029	11E3	20	484745	5008610	5	5	0	DMW	EC
5030	11E6	20	479798	5011039	7	8	2SE	DMW	EC
5031	11E3	20	476048	5008651	7	9	1S	DMW	EC
5032	11E3	20	466724	5010251	6	6	0	DDW	EC
5033	11E3	20	469019	5010203	7	7	-	-	EC
6003	11E2	20	501895	4998841	5	5	-	DSW	COH
6004	11E2	20	500378	5001188	5	5	-	MMW	COH
6006	11E2	20	500097	5003435	5	5	-	DMW	EC
6007	11E2	20	500643	5008393	5	5	0	WMB	EC
6008	11E2	20	501472	5005239	5	5	-	MMW	EC
6009	11E2	20	502442	5003486	5	5	0	DOW	COH
6010	11E2	20	504220	5003020	5	5	-	DMW	COH
6011	11E2	20	505854	5003978	5	5	0	DMW	COH
6012	11E2	20	504663	5007020	5	5	-	DOW	EC
6013	11E2	20	507742	5009461	5	5	-	MMW	EC
6014	11E2	20	506692	5007982	5	5	-	DOW	EC

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

## INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
4128	1.82	7	2.4	1800	37	21.6	4	4	14	1.6	<0.02	0.23	0.7	27.80	2.8	<0.05	1700	<5	270	0.5	0.7	<2	0.4	870	0.3	<0.1	2	0.23	2300
4129	1.92	9	2.4	1800	43	18.0	<3	5	30	4.9	<0.02	0.18	<0.5	30.10	2.2	<0.05	3590	<5	360	0.5	0.5	<2	0.2	1400	<0.1	0.7	<1	0.25	3200
4130	1.57	<5	2.3	1300	49	18.0	5	5	17	4.6	<0.03	0.26	<0.5	27.70	3.9	<0.05	3680	<5	820	0.5	0.8	<2	0.4	1500	<0.1	<0.1	<1	<0.05	3300
4132	2.05	9	4.0	1600	30	22.9	8	13	12	4.9	<0.03	0.38	0.7	21.80	5.1	<0.05	2480	<5	250	0.7	1.0	<2	0.5	1400	0.5	0.4	<1	0.21	3400
4133	2.48	<5	2.0	1100	30	14.9	8	7	23	0.7	<0.02	0.28	<0.5	36.20	5.4	0.07	1910	<5	300	0.4	0.7	<2	0.5	810	0.4	<0.1	<1	0.25	2000
5007	2.28	9	2.3	6900	33	24.7	6	3	15	1.9	<0.02	0.26	<0.5	17.10	3.2	0.06	1860	<5	110	0.7	0.7	3	0.4	1400	0.2	<0.1	<1	0.18	1400
5020	2.24	12	4.2	2600	29	20.6	10	7	14	1.0	<0.02	0.43	1.2	23.20	5.5	0.07	2180	<5	220	0.8	1.3	<2	0.7	880	0.9	<0.1	<1	0.40	2600
5021	2.82	182	9.5	4100	21	14.7	26	7	26	1.5	0.59	1.00	3.2	25.00	13.0	0.24	3870	16	200	0.9	3.1	<2	2.0	650	2.4	1.2	<1	1.13	2900
5022	2.42	18	6.5	2400	34	13.8	6	6	11	4.1	<0.03	0.36	1.3	35.90	4.4	0.07	2260	<5	800	0.7	1.0	<2	0.6	730	0.5	<0.1	<1	0.31	1700
5023	2.45	30	3.9	4000	28	17.8	9	5	20	1.0	<0.02	0.28	1.2	29.20	4.3	<0.05	1920	<5	250	0.6	0.9	4	0.5	960	0.4	<0.1	<1	0.26	2500
5024	2.98	9	3.9	3600	23	16.2	14	6	15	1.7	<0.02	0.64	2.1	27.40	7.2	0.10	2540	10	320	0.5	1.8	<2	1.0	1100	1.3	0.6	<1	0.66	1300
5025	2.32	11	2.1	2400	22	17.5	7	7	23	<0.5	<0.02	0.25	0.6	31.70	3.1	0.09	1210	6	210	0.4	0.7	<2	0.4	940	0.4	<0.1	2	<0.05	1800
5026	2.66	11	5.9	2600	19	15.0	32	9	30	2.4	0.76	1.42	3.6	22.50	17.0	0.29	3550	21	350	0.6	4.0	<2	2.7	480	3.4	1.1	<1	1.66	1200
5028	2.23	9	3.5	2000	25	16.8	11	4	26	3.5	0.27	0.56	1.4	21.20	6.4	0.12	2310	<5	360	0.7	1.6	<2	0.9	1100	1.1	0.5	<1	0.67	1600
5029	2.31	8	3.0	3900	42	17.6	7	5	24	7.6	<0.03	0.28	<0.5	26.70	3.7	<0.05	1380	<5	660	0.7	0.8	<2	0.5	800	0.4	<0.1	<1	0.27	2400
5030	2.15	13	7.5	5900	42	16.9	21	8	32	1.9	0.41	0.89	2.7	23.80	9.6	0.19	6560	<5	240	1.2	2.6	<2	1.4	<300	1.8	1.1	<1	0.91	1800
5031	2.43	6	4.8	3300	34	22.4	22	12	30	2.0	0.48	0.81	2.6	20.50	11.0	0.20	3840	11	200	0.7	2.5	<2	1.9	770	2.0	1.0	<1	0.99	1500
5032	1.95	13	5.1	2200	46	18.9	6	5	22	1.4	<0.03	0.42	<0.5	30.10	4.6	0.07	1900	<5	420	0.9	1.2	<2	0.6	1400	0.6	0.4	<1	0.37	1700
5033	2.25	11	3.3	2900	24	23.4	8	5	22	0.8	<0.02	0.38	1.2	22.90	4.8	0.06	2130	<5	42	0.6	1.1	<2	0.7	520	0.5	<0.1	<1	0.44	2200
6003	1.83	7	2.9	3300	44	19.5	7	6	14	2.1	<0.03	0.34	<0.5	27.60	4.9	0.05	1550	<5	230	0.7	1.0	<2	0.5	1000	0.5	<0.1	5	<0.05	2100
6004	2.30	17	3.9	1000	65	14.0	15	8	19	35.0	<0.03	0.74	1.5	32.50	12.0	0.09	3730	<5	480	1.3	2.0	7	1.2	900	1.1	<0.1	<1	0.74	2100
6006	2.62	<5	3.7	850	23	19.6	21	7	23	8.2	0.36	0.82	1.7	22.70	11.0	0.13	2680	8	210	0.6	2.1	<2	1.4	940	1.9	<0.1	<1	0.86	2000
6007	3.43	8	6.7	3300	41	15.6	39	8	37	1.4	0.67	1.70	5.3	24.40	17.0	0.40	4790	22	88	0.9	4.7	<2	2.9	680	3.9	1.0	<1	1.81	1700
6008	2.43	<5	2.1	1400	21	17.0	8	5	18	0.6	0.21	0.30	<0.5	31.60	4.3	<0.05	2570	<5	120	0.4	0.8	<2	0.4	1300	0.3	<0.1	1	<0.05	2200
6009	2.21	11	4.0	920	68	15.4	10	10	30	1.1	0.19	0.45	<0.5	35.20	5.6	<0.05	3600	<5	190	0.9	1.2	<2	0.6	1400	0.5	<0.1	<1	0.33	2700
6010	2.28	<5	3.2	1800	53	17.2	9	6	19	6.4	<0.03	0.44	1.3	27.60	5.0	0.07	1160	<5	300	0.7	1.2	<2	0.7	1200	0.7	<0.1	<1	0.42	2200
6011	2.49	6	3.1	1200	36	12.5	8	6	11	18.0	<0.03	0.32	<0.5	34.00	4.0	<0.05	1780	<5	1100	0.7	0.9	<2	0.5	1000	0.3	<0.1	<1	0.34	2200
6012	2.64	8	5.4	1500	28	12.9	30	8	29	2.2	0.54	1.43	3.0	26.00	15.0	0.27	4440	16	140	0.7	4.1	<2	2.2	790	2.7	0.8	<1	1.33	1500
6013	2.66	7	1.5	2000	36	15.4	5	10	10	4.1	<0.03	0.19	<0.5	37.10	5.5	<0.05	2240	<5	390	0.5	0.6	<2	0.7	1500	<0.1	<0.1	<1	<0.05	2100
6014	2.10	<5	6.2	1900	49	20.9	11	8	16	2.3	<0.03	0.39	0.9	27.10	5.9	<0.05	2460	<5	290	1.1	1.2	<2	0.7	990	1.1	<0.1	<1	<0.05	2700

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
4128	2.1	0.56	547	0.2	17.3	226	2	4.05	30052	1	43	3.033	60	461	18
4129	1.8	0.66	530	0.3	13.4	243	<2	3.88	45378	<1	60	3.376	80	957	25
4130	0.7	0.80	532	0.2	12.8	220	<2	5.68	40749	<1	55	3.519	99	980	21
4132	2.2	0.70	451	0.4	44.0	272	<2	4.50	38227	1	113	4.114	62	664	28
4133	1.0	0.46	403	<0.2	12.0	199	5	2.83	28159	1	349	3.595	53	327	7
5007	1.9	0.37	365	<0.2	4.9	194	<2	3.52	29795	3	51	1.892	73	762	30
5020	<0.3	0.47	402	0.2	4.6	209	4	3.56	13568	1	44	2.093	129	563	25
5021	0.6	0.48	214	0.2	8.3	112	5	1.81	12514	6	30	1.363	810	246	18
5022	<0.3	0.21	122	<0.2	1.5	51	<2	1.06	5533	3	13	0.880	70	136	10
5023	0.6	0.60	270	0.2	16.9	154	2	3.67	9864	2	35	2.383	187	348	19
5024	1.5	0.66	302	0.2	14.3	189	6	2.49	32306	<1	45	2.039	38	510	20
5025	0.5	0.71	316	0.2	10.4	201	2	3.77	17243	3	122	2.962	56	503	11
5026	0.4	1.19	237	0.3	5.7	143	13	2.68	10270	3	36	1.878	64	427	24
5028	2.7	0.78	430	0.2	6.9	178	4	1.74	83956	<1	40	2.920	92	628	29
5029	0.3	0.69	338	<0.2	9.4	177	<2	3.88	34754	4	90	3.564	64	436	24
5030	0.5	1.17	329	0.4	10.0	251	9	3.11	29445	5	63	2.700	194	348	43
5031	0.5	0.98	325	0.8	9.8	168	7	3.08	14255	6	36	2.239	73	409	34
5032	<0.3	1.17	414	0.2	6.6	221	2	4.62	24705	2	58	3.846	82	681	30
5033	0.7	0.66	388	<0.2	7.6	251	2	3.83	11336	9	81	3.182	68	283	28
6003	0.8	0.93	456	0.6	12.2	240	<2	3.71	33944	<1	59	3.710	92	702	26
6004	1.5	1.03	486	0.4	5.9	385	6	5.25	33845	5	127	4.079	86	743	45
6006	0.7	1.04	372	<0.2	8.0	196	9	3.65	17661	<1	71	2.535	67	481	16
6007	0.7	0.88	241	0.2	3.8	135	12	3.32	10192	<1	39	2.343	72	304	24
6008	0.6	0.65	434	0.2	9.3	188	<2	5.92	21973	1	182	2.897	32	528	16
6009	1.1	0.90	420	<0.2	12.3	224	8	3.45	34597	<1	67	3.175	88	759	35
6010	<0.3	0.59	404	0.3	10.2	164	9	4.62	51442	4	48	2.774	78	518	30
6011	0.9	0.66	471	0.2	14.8	244	5	3.87	54578	3	100	4.610	53	627	27
6012	0.4	1.17	428	0.6	7.9	176	16	2.95	30488	7	51	2.720	52	507	24
6013	<0.3	0.73	410	0.2	7.4	186	2	3.61	35398	<1	80	3.324	29	703	7
6014	<0.3	0.71	430	<0.2	9.9	229	3	3.35	61862	<1	53	2.833	99	497	24

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996 Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
6015	11E2	20	506457	5005847	5	5	0	DMW	COH
6016	11E2	20	509592	5008393	5	5	0	DOW	COH
6017	11E2	20	509996	5007652	5	5	-	DMW	COH
6018	11E2	20	509608	5004305	5	5	-	DMW	COH
6019	11E2	20	506886	5003696	5	5	0	MMW	COH
6020	11E2	20	508527	5002438	5	7	-	DMW	COH
6021	11E2	20	508284	5000825	5	5	-	DMW	EC
6023	11E2	20	509200	4999914	5	7	-	MMW	COG
6024	11E2	20	502575	5009568	5	5	-	D	EC
6025	11E2	20	504162	5009879	5	5	-	MMW	EC
6026	11E2	20	511400	5009286	5	5	-	MMW	COH
6027	11E2	20	513098	5007198	5	5	-	DMW	COH
6028	11E2	20	510489	5003236	5	7	-	MMW	COH
6029	11E2	20	511649	5004448	5	7	-	DMW	COH
6031	11E2	20	513260	5003269	5	7	-	MMW	COG
6032	11E2	20	514611	5003419	5	7	-	MMW	COG
6035	11E2	20	513899	5009420	5	7	-	MMW	COH
6036	11E2	20	516980	5006819	5	7	-	MMW	COG
6037	11E2	20	518539	5008939	5	7	-	MDW	DC
6038	11E2	20	518336	5005077	5	5	-	MMW	DC
6039	11E2	20	519125	5006522	5	5	0	DMW	DC
6040	11E2	20	515046	5006301	5	7	-	DMW	COH
6041	11E2	20	515756	5005758	5	7	-	-	COG
6042	11E2	20	514068	5004770	5	7	-	MMW	COG
6043	11E2	20	515291	5009075	5	5	-	DMW	COH
6044	11E2	20	516843	5008778	5	5	-	DMW	DC
6045	11E2	20	506860	5001082	5	5	-	DMW	COH
6048	11E2	20	514800	4999093	5	7	-	DOW	COG
6049	11E2	20	516214	4999619	6	7	-	-	COG
11002	21H1	20	420275	4993223	6	9	0	MMW	LCSV

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
6015	2.77	17	2.9	1400	24	17.9	<3	6	14	1.4	<0.03	0.22	<0.5	30.60	2.4	<0.05	1690	<5	290	0.4	0.6	<2	0.3	1100	<0.1	<0.1	<1	<0.05	2500
6016	2.24	<5	2.8	1300	29	17.1	11	6	13	18.0	<0.03	0.34	<0.5	25.00	4.1	<0.05	1630	<5	940	0.5	1.0	<2	0.5	1300	0.6	<0.1	<1	0.35	2900
6017	2.12	5	3.2	1700	34	18.6	7	4	14	2.4	<0.02	0.31	0.8	22.60	3.5	0.06	2440	<5	360	0.8	0.8	<2	0.5	1100	0.6	<0.1	<1	0.35	2300
6018	2.05	<5	5.2	1400	38	17.5	19	4	26	21.0	0.36	1.03	1.2	21.10	12.0	0.11	2180	12	530	0.9	2.5	<2	1.6	1700	1.6	0.9	<1	0.81	2100
6019	2.18	7	3.3	490	46	7.9	8	23	19	1.8	<0.02	0.39	0.7	32.40	4.5	0.06	2280	<5	330	0.6	1.0	<2	0.6	1000	0.4	<0.1	<1	0.30	2100
6020	1.90	<5	2.9	4100	35	18.6	13	12	16	0.9	<0.04	0.42	1.6	30.70	10.0	0.08	2420	<5	140	0.6	1.2	<2	1.0	1500	0.4	<0.1	<1	0.42	2900
6021	1.94	6	4.0	1400	28	19.0	13	7	22	3.8	0.25	0.66	1.4	25.70	7.3	0.10	2530	<5	340	0.8	1.9	<2	1.0	890	1.3	<0.1	<1	0.64	2200
6023	1.73	7	3.6	4400	43	22.8	11	6	13	6.1	<0.02	0.36	<0.5	17.80	5.8	0.06	2360	<5	320	0.9	1.0	<2	0.7	1400	0.6	<0.1	<1	0.41	2700
6024	2.72	8	2.7	2400	20	20.8	4	2	19	<0.5	<0.02	0.26	0.7	25.60	3.1	<0.05	1640	<5	96	3.2	0.7	<2	0.4	2600	0.3	<0.1	<1	0.23	1600
6025	2.99	24	3.5	3400	25	20.1	17	5	24	1.3	0.40	0.73	2.2	24.00	8.3	0.15	3080	<5	140	3.5	2.3	<2	1.3	1800	1.5	<0.1	<1	0.80	2000
6026	2.14	10	4.3	1500	34	21.3	5	9	11	1.4	<0.02	0.24	<0.5	30.90	7.7	<0.05	1630	<5	140	3.5	0.7	<2	0.5	1900	<0.1	<0.1	<1	0.19	2500
6027	1.73	<5	4.2	1100	33	17.9	7	4	20	30.0	<0.03	0.43	<0.5	27.40	4.6	0.06	3360	<5	1200	5.0	1.1	<2	0.6	2200	0.6	<0.1	<1	0.41	3100
6028	2.60	<5	2.5	2600	26	20.5	<3	2	23	4.2	<0.02	0.19	<0.5	29.10	2.0	<0.05	1560	<5	330	3.7	0.5	<2	0.2	1100	<0.1	<0.1	<1	0.28	1900
6029	2.62	<5	1.7	1400	18	16.9	<3	3	6	1.2	<0.02	0.14	<0.5	33.90	1.6	<0.05	1280	<5	420	6.6	0.4	<2	0.2	1800	0.2	0.4	<1	<0.05	1900
6031	2.67	8	3.5	2000	27	16.1	<3	7	9	6.5	<0.02	0.13	<0.5	33.10	1.6	<0.05	1550	<5	430	7.5	0.4	<2	0.2	1900	<0.1	<0.1	<1	<0.05	1800
6032	2.06	13	3.1	2900	32	18.3	<3	6	12	3.5	<0.03	0.19	<0.5	27.90	2.5	<0.05	2290	11	720	6.6	0.5	2	0.2	1700	<0.1	0.7	<1	<0.05	2000
6035	2.26	8	2.4	1200	21	13.1	<3	7	23	9.3	<0.02	0.18	<0.5	33.50	2.1	<0.05	2070	<5	390	6.0	0.4	<2	0.2	1500	0.2	<0.1	<1	<0.05	2700
6036	2.53	6	3.3	2300	22	17.4	3	3	6	13.0	<0.02	0.19	<0.5	33.70	2.2	<0.05	1890	<5	460	6.5	0.5	<2	0.3	1200	0.1	0.4	<1	0.18	2900
6037	2.58	<5	2.1	2100	19	21.4	5	3	26	24.0	<0.02	0.19	0.6	27.40	2.2	<0.05	1460	<5	540	3.1	0.5	<2	0.3	1200	0.2	<0.1	<1	0.12	2000
6038	3.05	<5	2.2	790	28	21.2	<3	3	7	13.0	0.16	0.21	<0.5	30.60	2.6	<0.05	2140	<5	790	3.6	0.6	<2	0.3	980	0.4	<0.1	<1	<0.05	1900
6039	2.41	7	1.9	1100	20	20.2	3	3	19	36.0	<0.02	0.18	<0.5	27.40	1.9	<0.05	1560	<5	430	4.6	0.4	5	0.3	1500	0.2	<0.1	<1	<0.05	2300
6040	1.99	5	1.7	1200	27	20.7	4	3	12	5.4	<0.02	0.20	<0.5	23.10	2.1	<0.05	1530	<5	500	1.1	0.4	<2	0.3	1500	0.2	<0.1	<1	<0.05	2200
6041	2.42	8	2.5	690	23	21.4	6	5	20	4.5	0.08	0.27	<0.5	24.20	3.4	<0.05	1700	<5	330	0.8	0.7	<2	0.4	1400	0.5	<0.1	<1	0.15	1900
6042	2.26	<5	2.5	1700	74	17.9	4	8	10	8.1	<0.02	0.19	<0.5	28.10	3.5	<0.05	1230	<5	580	0.5	0.5	<2	0.3	1900	0.1	<0.1	<1	<0.05	2000
6043	1.98	7	2.8	2500	24	18.0	8	5	31	18.0	<0.02	0.30	1.0	23.90	4.0	0.06	1840	<5	490	0.9	0.9	<2	0.5	2200	0.8	<0.1	<1	0.34	2300
6044	1.99	6	1.6	990	23	19.9	4	3	13	37.0	<0.02	0.25	<0.5	22.70	3.1	<0.05	2300	<5	600	1.0	0.7	<2	0.4	1500	0.6	0.9	<1	<0.05	2700
6045	2.27	6	2.1	1600	24	18.7	14	4	21	1.6	0.26	0.48	0.8	26.70	6.8	0.09	2400	<5	150	0.6	1.4	<2	0.9	1100	1.0	<0.1	<1	0.46	2100
6048	1.81	7	2.8	1600	39	20.5	15	4	17	5.6	0.24	0.47	1.0	20.40	7.2	0.06	2830	<5	280	0.9	1.3	<2	1.0	1100	1.0	<0.1	<1	0.47	2600
6049	2.39	<5	4.5	1700	47	16.7	16	11	31	5.2	<0.02	0.56	1.5	24.50	7.0	0.07	2330	<5	330	0.7	1.6	<2	0.9	1800	1.2	0.6	<1	0.50	1800
11002	2.10	11	1.9	1000	24	22.0	5	3	11	1.1	<0.02	0.27	0.6	28.00	3.2	<0.05	2990	<5	250	0.5	0.8	<2	0.4	1100	0.4	<0.1	<1	0.24	1900

# Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996 ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
6015	0.4	0.61	363	0.2	18.1	225	2	3.69	31368	<1	55	4.385	31	517	11
6016	<0.3	0.68	436	0.2	8.2	246	7	4.63	42845	2	133	4.252	40	733	13
6017	0.4	0.69	491	0.2	11.4	218	4	4.01	64553	1	60	3.047	80	640	24
6018	<0.3	1.10	428	0.2	6.7	259	8	4.13	46435	1	55	3.075	61	1031	26
6019	<0.3	0.90	498	0.9	4.6	279	4	3.25	>99999	<1	47	4.376	56	575	27
6020	<0.3	1.03	466	<0.2	8.9	241	4	4.40	26196	2	91	3.443	34	821	12
6021	<0.3	0.79	464	<0.2	5.2	244	36	4.70	37018	1	47	2.942	59	551	20
6023	<0.3	0.54	562	0.2	8.6	262	5	3.99	29520	<1	43	2.647	109	767	36
6024	<0.3	0.42	336	<0.2	15.8	177	3	3.55	20281	<1	74	2.940	30	1399	11
6025	<0.3	0.78	296	0.4	7.4	162	7	3.96	12201	<1	141	2.303	23	870	9
6026	<0.3	0.46	346	0.2	6.0	205	2	3.67	12752	<1	45	2.529	35	949	14
6027	0.3	0.83	540	<0.2	11.8	276	5	5.39	28081	2	62	3.577	74	1252	25
6028	<0.3	0.38	411	<0.2	13.1	170	2	3.24	26666	<1	24	2.789	27	517	9
6029	<0.3	0.48	451	<0.2	6.5	187	2	3.11	12380	<1	97	2.945	28	922	8
6031	<0.3	0.50	385	0.3	7.5	186	5	2.83	39280	3	36	3.321	30	978	8
6032	<0.3	0.66	480	0.3	6.6	230	5	3.69	21809	<1	56	3.814	36	1289	13
6035	<0.3	0.62	441	0.2	10.1	196	4	5.51	41180	2	64	3.857	33	852	16
6036	<0.3	0.44	377	<0.2	18.2	234	2	2.88	20966	<1	53	2.858	24	641	10
6037	<0.3	0.44	477	<0.2	11.6	199	2	4.13	17627	1	30	2.743	26	587	13
6038	<0.3	0.62	429	0.3	6.9	188	5	3.51	24044	3	50	3.201	13	764	11
6039	<0.3	0.56	525	<0.2	8.4	189	6	5.44	12661	<1	38	2.725	49	848	7
6040	<0.3	0.57	418	<0.2	18.8	248	2	5.28	21771	<1	41	2.665	54	873	15
6041	<0.3	0.66	585	<0.2	5.0	189	3	3.46	8773	<1	33	2.170	52	749	25
6042	<0.3	0.69	377	0.2	16.3	175	3	4.77	21121	2	97	3.031	38	1062	12
6043	1.8	0.88	561	<0.2	6.5	227	4	5.10	21717	2	68	2.740	63	1160	20
6044	0.8	0.63	314	0.2	3.9	116	<2	3.37	8477	6	34	1.682	39	572	12
6045	<0.3	0.07	18	0.3	3.4	10	<2	0.16	1485	17	6	0.113	13	62	4
6048	1.4	0.30	252	<0.2	4.0	106	3	1.70	33537	<1	21	1.157	57	350	20
6049	2.2	0.67	354	0.2	8.2	194	4	4.54	37545	3	42	2.331	67	899	21
11002	<0.3	0.52	368	<0.2	2.5	161	<2	3.86	3866	1	25	1.799	46	534	15

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

Field Data

Site Number	Map Sheet	Zone	Easting	Northing	Twig Min Age	Twig Max Age	Slope	Land Class	Rock Unit
11003	21H1	20	416128	4996485	4	7	0	MDW	EC
11006	21H1	20	417873	5005071	5	7	1	DMW	H
11007	11E4	20	431550	5010143	6	8	0	MDW	EC
11008	11E4	20	433481	5007710	6	7	1	DMW	EC
11009	11E4	20	435958	5010685	5	8	1	DDW	EC
11010	11E4	20	437296	5007061	9	11	1	WMB	LCSV



Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
INAA Analytical Data

Site Number	Ash Yield %	Au ppb 5	As ppm 0.5	Ba ppm 10	Br ppm 1	Ca % 0.2	Ce ppm 3	Co ppm 1	Cr ppm 1	Cs ppm 0.5	Eu ppm 0.01	Fe % 0.05	Hf ppm 0.5	K % 0.05	La ppm 0.1	Lu ppm 0.05	Na ppm 10	Nd ppm 5	Rb ppm 5	Sb ppm 0.1	Sc ppm 0.1	Se ppm 2	Sm ppm 0.1	Sr ppm 300	Th ppm 0.1	U ppm 0.1	W ppm 1	Yb ppm 0.05	Zn ppm 20
11003	1.91	9	2.4	4400	24	21.5	5	4	13	<0.5	0.24	0.26	<0.5	22.40	4.7	0.06	1620	<5	52	0.4	0.7	<2	0.6	1100	0.5	<0.1	<1	0.31	1300
11006	1.92	14	7.0	12000	57	14.7	7	10	15	1.2	<0.04	0.41	<0.5	30.40	3.9	<0.05	3360	<5	290	0.7	0.9	<2	0.4	1200	0.9	<0.2	<1	0.35	3100
11007	2.09	11	1.8	3000	19	20.8	<3	8	12	1.2	<0.02	0.17	<0.5	26.60	1.9	<0.05	2300	<5	310	0.3	0.5	<2	0.2	890	0.4	<0.1	<1	0.13	1400
11008	2.49	<5	2.8	2600	15	24.0	3	4	7	0.6	<0.02	0.22	<0.5	22.20	2.3	<0.05	1780	<5	67	0.5	0.6	<2	0.3	1200	<0.1	<0.1	<1	<0.05	1900
11009	1.98	21	2.7	4300	17	21.9	5	9	9	<0.5	0.31	0.26	1.2	27.40	3.0	<0.05	2080	<5	110	0.4	0.7	5	0.4	410	0.6	<0.1	<1	0.27	2200
11010	2.48	<5	1.7	3500	25	31.5	5	5	9	0.6	<0.02	0.21	<0.5	18.50	2.4	<0.05	2140	<5	190	0.4	0.6	<2	0.3	670	0.6	<0.1	<1	0.09	2100

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

ICP-ES Analytical Data

Site Number	Ag ppm 0.1	Al % 0.01	B ppm 2	Be ppm 0.2	Cd ppm 0.2	Cu ppm 1	Li ppm 2	Mg % 0.01	Mn ppm 1	Mo ppm 1	Ni ppm 1	P % 0.001	Pb ppm 3	Sr ppm 1	V ppm 2
11003	<0.3	0.68	445	0.3	12.7	203	2	3.75	11860	3	48	2.144	49	575	16
11006	<0.3	1.07	324	0.7	12.3	192	5	2.42	55159	1	40	2.863	97	655	17
11007	<0.3	0.45	409	0.2	7.8	169	3	2.32	17864	2	15	2.668	34	444	8
11008	<0.3	0.39	337	0.3	9.7	127	2	4.13	18679	<1	49	3.169	58	518	14
11009	<0.3	0.45	485	<0.2	16.4	225	4	5.30	5422	2	66	2.803	58	227	12
11010	<0.3	0.33	322	<0.2	6.4	128	<2	3.04	26539	<1	6	1.525	48	388	14

# **APPENDIX B**

## **Statistical Summary**

**Abbreviations are explained in Table 10, page 35.**

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

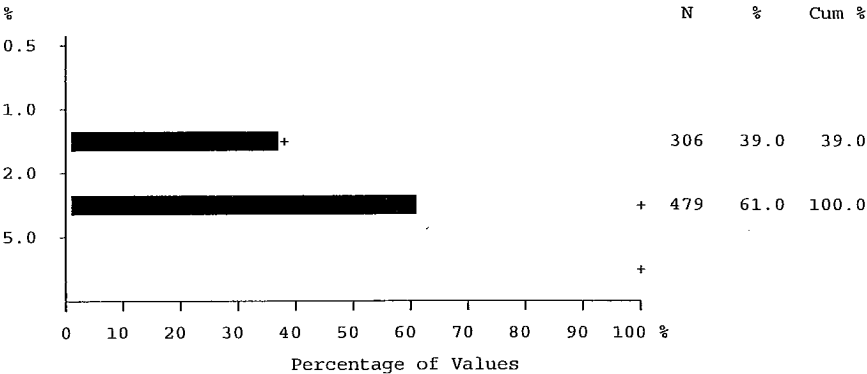
Statistics by Rock Type

Ash Yield

Number of values - 786

Determination limit - 0.005 %

	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	0	0	0	0	0	0	0	0	0
Number of missing values	1	0	0	0	0	1	0	0	0
Mean	2.120	2.075	1.990	2.178	2.221	2.115	2.015	2.031	2.134
Standard deviation	0.321	0.431	0.242	0.326	0.365	0.245	0.282	0.268	0.339
Skewness	1.209	0.000	0.832	0.780	0.951	0.332	2.716	0.396	0.607
Kurtosis	3.279	-2.750	-1.239	1.063	1.077	-0.656	17.489	0.071	0.306
Geometric Mean	2.098	2.052	1.979	2.155	2.193	2.101	1.999	2.014	2.109
Percentiles									
Minimum value	1.520	1.770	1.800	1.550	1.520	1.620	1.530	1.540	1.590
25th	1.910	1.770	1.835	1.935	1.955	1.910	1.820	1.833	1.950
50th	2.080	2.075	1.870	2.165	2.160	2.075	1.990	2.020	2.080
75th	2.280	2.380	2.205	2.318	2.420	2.300	2.150	2.188	2.375
80th	2.340	2.380	2.322	2.344	2.480	2.338	2.190	2.240	2.410
90th	2.514	2.380	2.400	2.626	2.676	2.479	2.342	2.368	2.595
95th	2.670	2.380	2.400	2.941	2.935	2.575	2.438	2.521	2.940
98th	2.973	2.380	2.400	3.186	3.200	2.640	2.641	2.671	3.050
99th	3.191	2.380	2.400	3.200	3.400	2.702	3.161	2.830	3.050
Maximum value	4.140	2.380	2.400	3.200	3.620	2.730	4.140	2.860	3.050



Ash

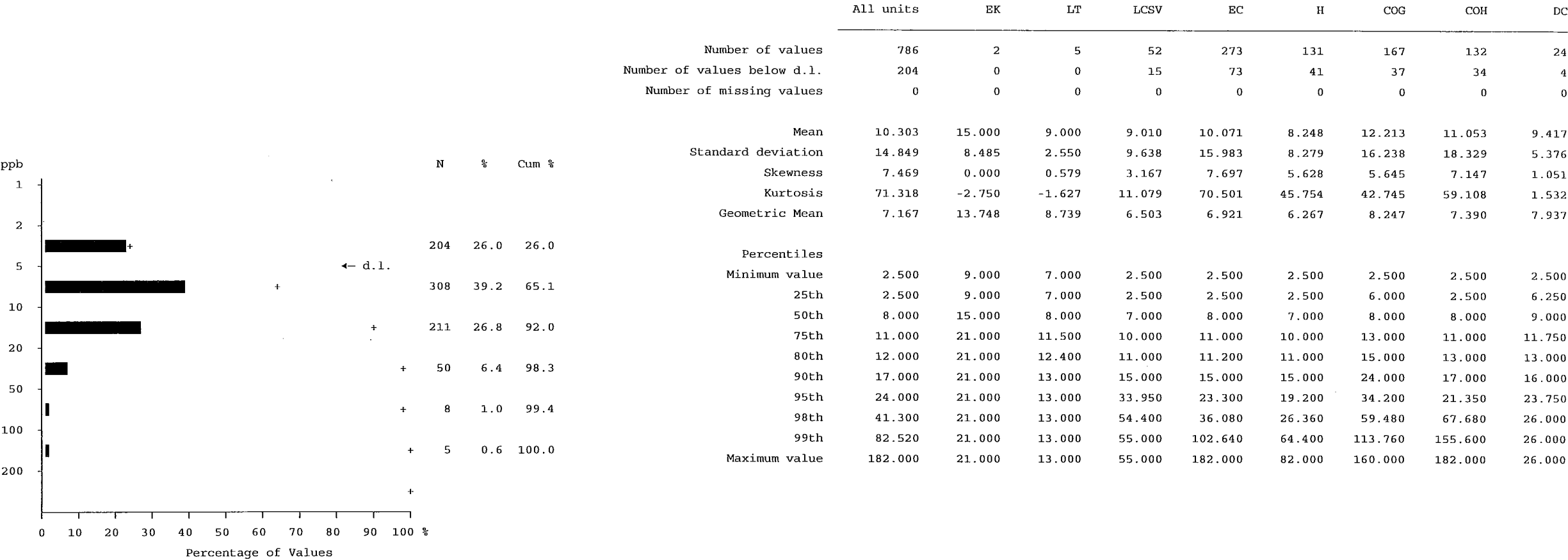
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

Statistics by Rock Type

Gold (INAA)

Number of values - 786

Determination limit - 5 ppb



Au

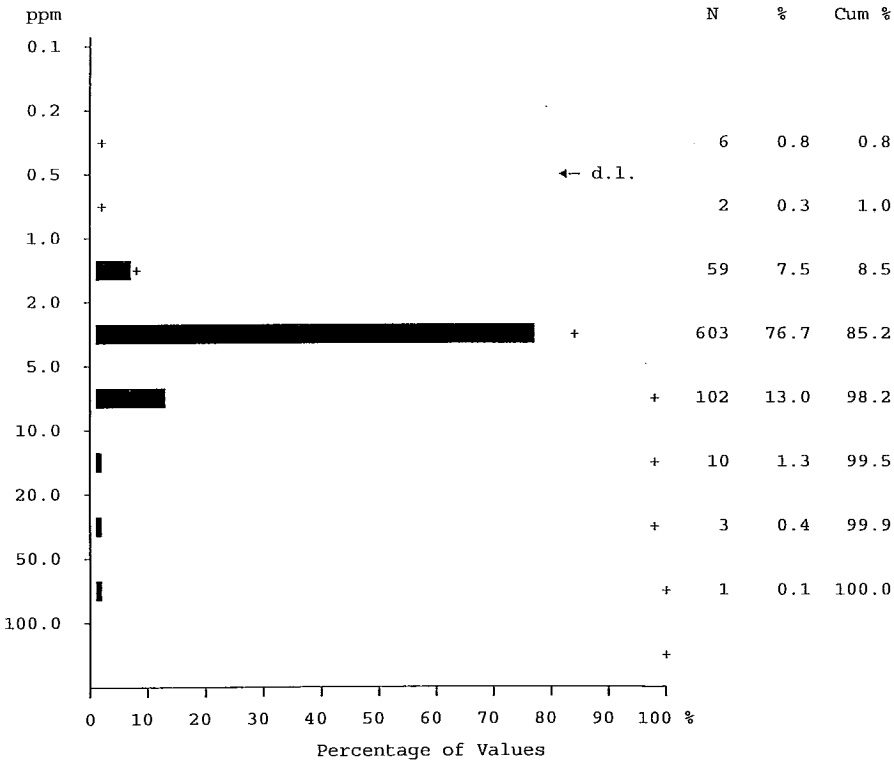
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

Statistics by Rock Type

Arsenic (INAA)

Number of values - 786

Determination limit - 0.5 ppm



	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	6	0	0	0	2	2	1	1	0
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	3.772	3.750	3.500	3.935	3.920	3.358	3.831	4.038	2.188
Standard deviation	2.764	0.212	0.831	2.359	2.216	1.241	2.841	4.556	0.801
Skewness	8.695	0.000	-0.544	2.244	3.701	0.845	4.510	8.936	1.074
Kurtosis	126.205	-2.750	-1.595	5.947	20.258	1.645	26.303	90.299	1.056
Geometric Mean	3.319	3.747	3.409	3.463	3.518	3.098	3.304	3.388	2.057
Percentiles									
Minimum value	0.250	3.600	2.200	1.300	0.250	0.250	0.250	0.250	0.700
25th	2.600	3.600	2.700	2.400	2.700	2.600	2.500	2.525	1.725
50th	3.300	3.750	3.800	3.350	3.500	3.100	3.300	3.300	1.950
75th	4.300	3.900	4.150	4.400	4.400	4.000	4.300	4.500	2.450
80th	4.500	3.900	4.240	5.140	4.700	4.260	4.500	4.840	2.800
90th	5.500	3.900	4.300	5.750	6.000	5.080	5.500	5.570	3.600
95th	6.800	3.900	4.300	10.155	7.030	5.600	7.360	6.770	4.275
98th	9.552	3.900	4.300	13.820	10.800	7.180	14.560	10.644	4.400
99th	15.000	3.900	4.300	14.000	16.040	7.772	22.280	39.790	4.400
Maximum value	52.000	3.900	4.300	14.000	20.000	7.900	25.000	52.000	4.400

As

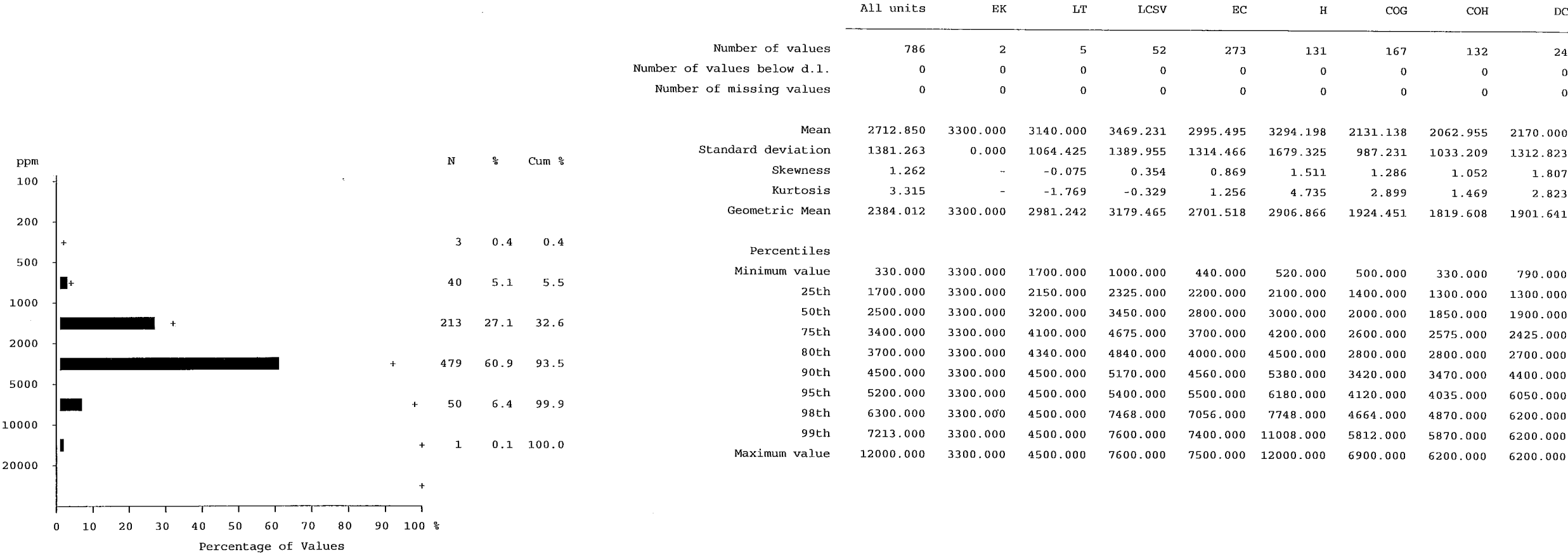
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

Statistics by Rock Type

Barium (INAA)

Number of values - 786

Determination limit - 10 ppm



Ba

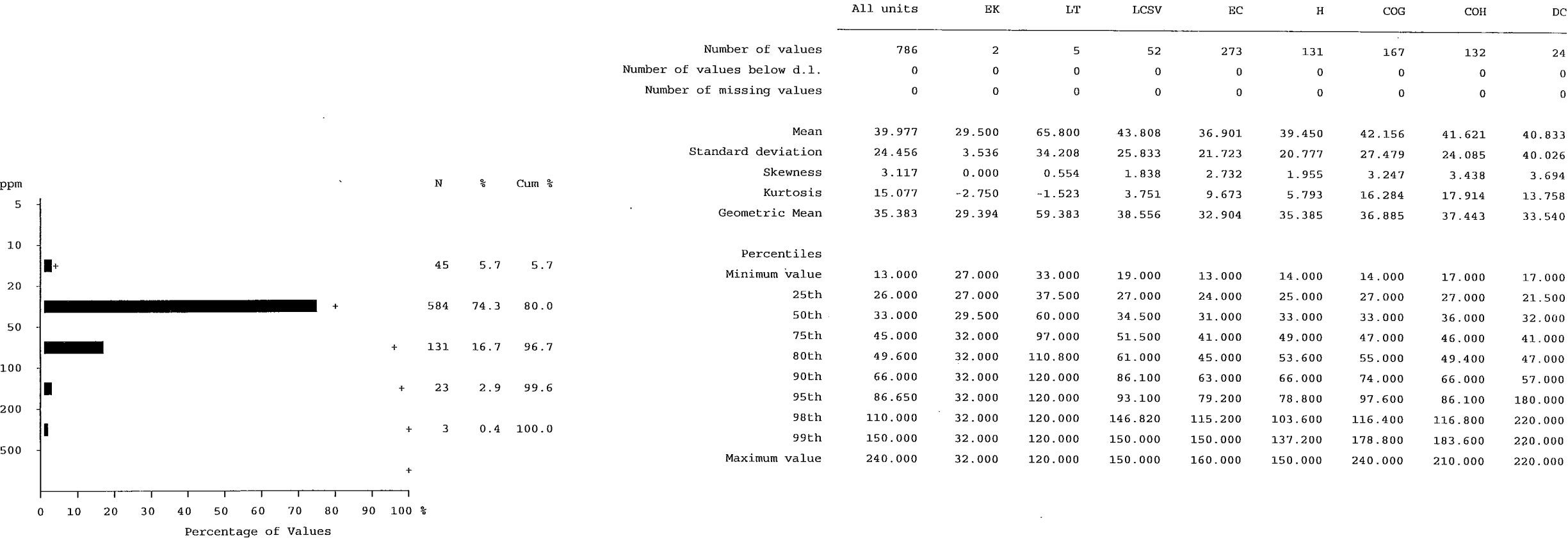
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

Statistics by Rock Type

Bromine (INAA)

Number of values - 786

Determination limit - 1 ppm



	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	0	0	0	0	0	0	0	0	0
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	39.977	29.500	65.800	43.808	36.901	39.450	42.156	41.621	40.833
Standard deviation	24.456	3.536	34.208	25.833	21.723	20.777	27.479	24.085	40.026
Skewness	3.117	0.000	0.554	1.838	2.732	1.955	3.247	3.438	3.694
Kurtosis	15.077	-2.750	-1.523	3.751	9.673	5.793	16.284	17.914	13.758
Geometric Mean	35.383	29.394	59.383	38.556	32.904	35.385	36.885	37.443	33.540
Percentiles									
Minimum value	13.000	27.000	33.000	19.000	13.000	14.000	14.000	17.000	17.000
25th	26.000	27.000	37.500	27.000	24.000	25.000	27.000	27.000	21.500
50th	33.000	29.500	60.000	34.500	31.000	33.000	33.000	36.000	32.000
75th	45.000	32.000	97.000	51.500	41.000	49.000	47.000	46.000	41.000
80th	49.600	32.000	110.800	61.000	45.000	53.600	55.000	49.400	47.000
90th	66.000	32.000	120.000	86.100	63.000	66.000	74.000	66.000	57.000
95th	86.650	32.000	120.000	93.100	79.200	78.800	97.600	86.100	180.000
98th	110.000	32.000	120.000	146.820	115.200	103.600	116.400	116.800	220.000
99th	150.000	32.000	120.000	150.000	150.000	137.200	178.800	183.600	220.000
Maximum value	240.000	32.000	120.000	150.000	160.000	150.000	240.000	210.000	220.000

Br



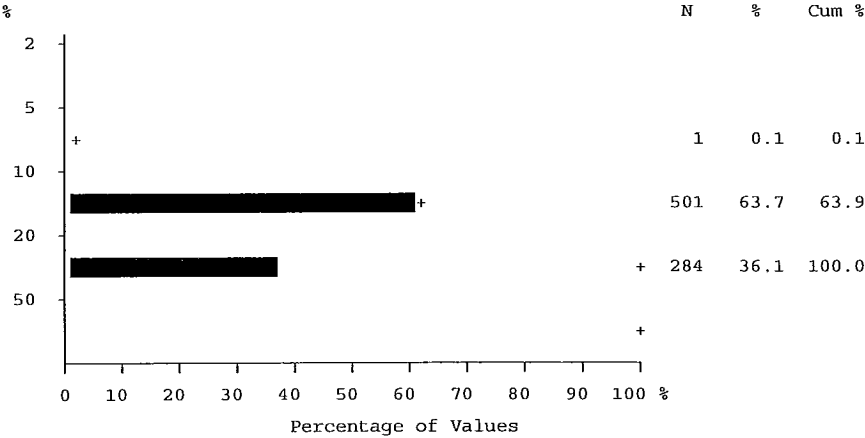
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

Statistics by Rock Type

Calcium (INAA)

Number of values - 786

Determination limit - 0.2 %



	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	0	0	0	0	0	0	0	0	0
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	18.822	20.850	17.340	17.994	19.301	18.570	19.098	17.992	19.333
Standard deviation	3.278	1.626	4.262	3.303	3.473	2.943	2.813	3.482	3.348
Skewness	0.041	0.000	0.173	1.175	0.026	-0.107	0.024	-0.110	-0.183
Kurtosis	0.164	-2.750	-1.586	3.549	-0.065	-0.160	-0.426	-0.093	-1.224
Geometric Mean	18.526	20.818	16.919	17.719	18.977	18.329	18.888	17.635	19.043
Percentiles									
Minimum value	7.900	19.700	11.900	11.600	10.000	11.300	11.700	7.900	13.600
25th	16.800	19.700	13.650	15.825	17.000	16.800	17.100	16.100	16.700
50th	18.700	20.850	17.400	17.500	19.500	18.500	18.800	17.950	19.850
75th	21.000	22.000	21.000	20.050	21.550	20.700	21.200	20.425	22.075
80th	21.600	22.000	22.500	20.540	22.100	21.120	21.800	21.000	22.900
90th	23.000	22.000	23.500	21.670	23.600	22.280	23.000	22.510	24.050
95th	24.200	22.000	23.500	22.840	25.060	23.440	23.700	24.300	24.200
98th	25.526	22.000	23.500	31.074	27.052	24.808	24.668	25.200	24.200
99th	26.913	22.000	23.500	31.500	28.278	25.476	25.664	25.267	24.200
Maximum value	31.500	22.000	23.500	31.500	28.600	25.700	25.800	25.300	24.200

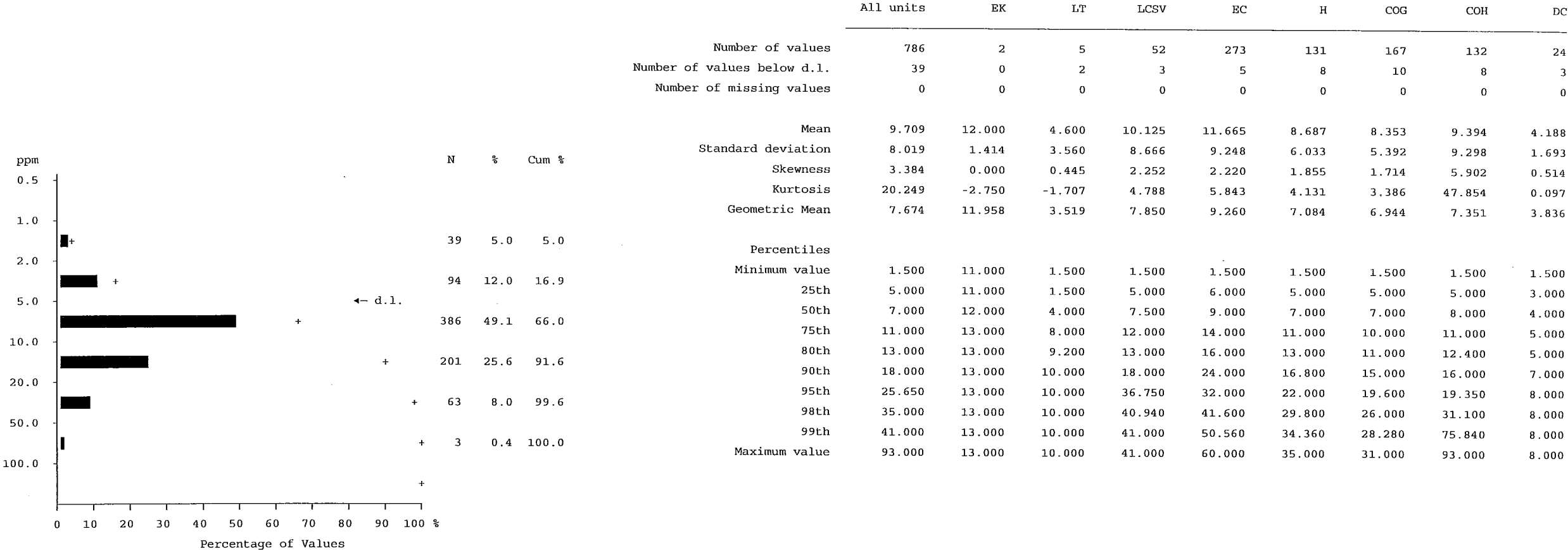
Ca

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
Statistics by Rock Type

Cerium (INAA)

Number of values - 786

Determination limit - 3 ppm



Ce

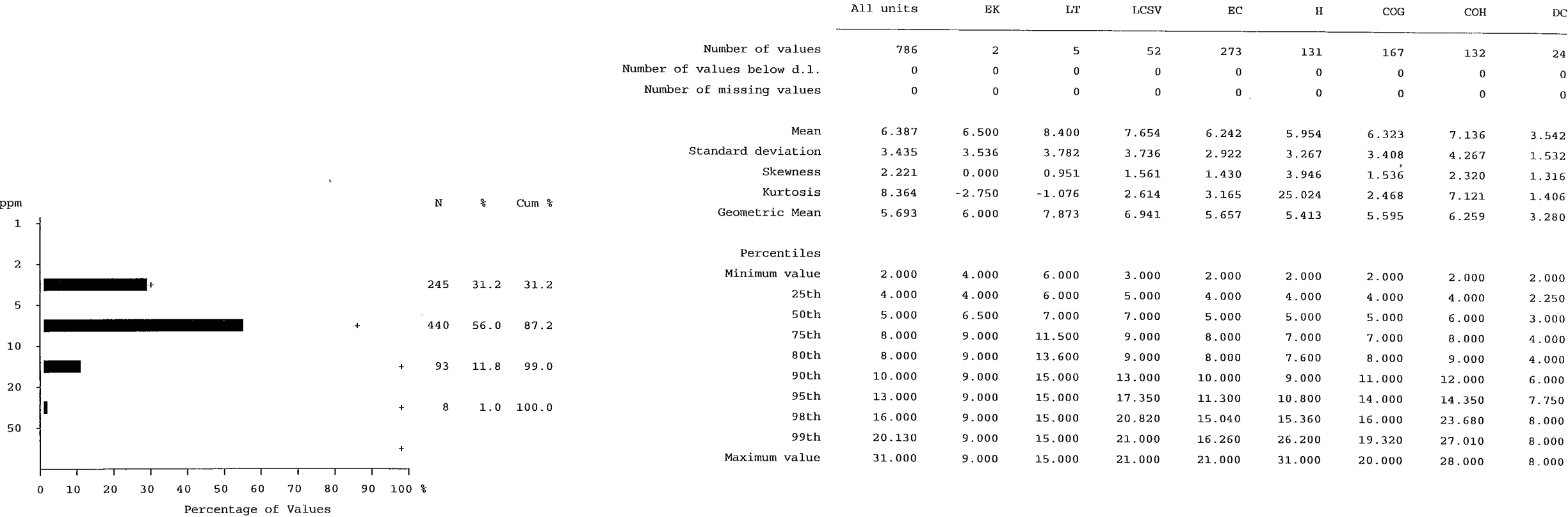
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

Statistics by Rock Type

Cobalt (INAA)

Number of values - 786

Determination limit - 1 ppm



Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

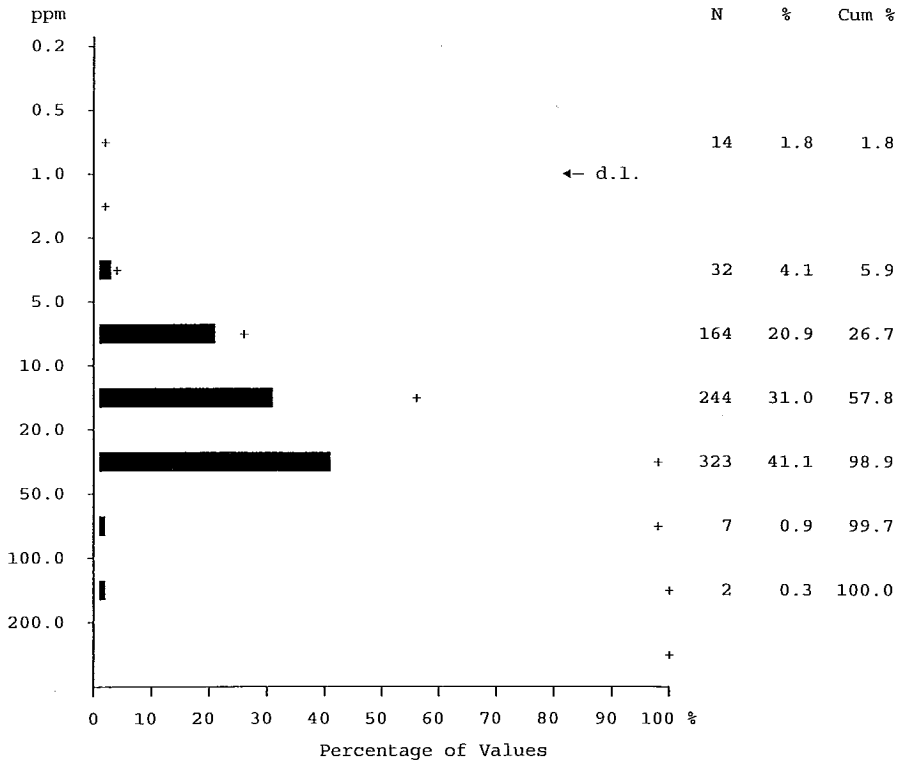
Statistics by Rock Type

Chromium (INAA)

Number of values - 786

Determination limit - 1 ppm

	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	14	0	0	3	1	1	5	4	0
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	18.177	7.000	16.800	15.837	20.775	17.958	15.494	17.750	17.125
Standard deviation	13.093	5.657	11.498	10.188	13.875	10.502	10.421	17.138	8.989
Skewness	3.738	0.000	0.973	0.657	3.948	2.173	0.985	4.508	0.165
Kurtosis	34.411	-2.750	-1.019	-0.358	35.441	11.561	0.648	33.657	-1.273
Geometric Mean	14.074	5.745	14.542	11.673	16.994	15.053	11.730	12.160	14.542
Percentiles									
Minimum value	0.500	3.000	8.000	0.500	0.500	0.500	0.500	0.500	5.000
25th	9.000	3.000	10.500	7.000	11.000	11.000	7.000	6.250	8.250
50th	16.500	7.000	13.000	14.000	20.000	16.000	12.000	14.000	17.000
75th	25.000	11.000	25.000	23.000	27.000	23.000	22.000	25.000	25.750
80th	26.000	11.000	32.200	23.000	29.000	24.600	24.400	27.000	26.000
90th	33.000	11.000	37.000	32.400	35.000	29.000	30.000	33.000	28.500
95th	37.000	11.000	37.000	37.350	41.000	33.000	35.800	39.350	34.000
98th	45.000	11.000	37.000	40.820	50.040	39.440	44.280	51.760	35.000
99th	52.390	11.000	37.000	41.000	56.780	71.920	49.280	127.330	35.000
Maximum value	160.000	11.000	37.000	41.000	160.000	86.000	52.000	160.000	35.000



Cr

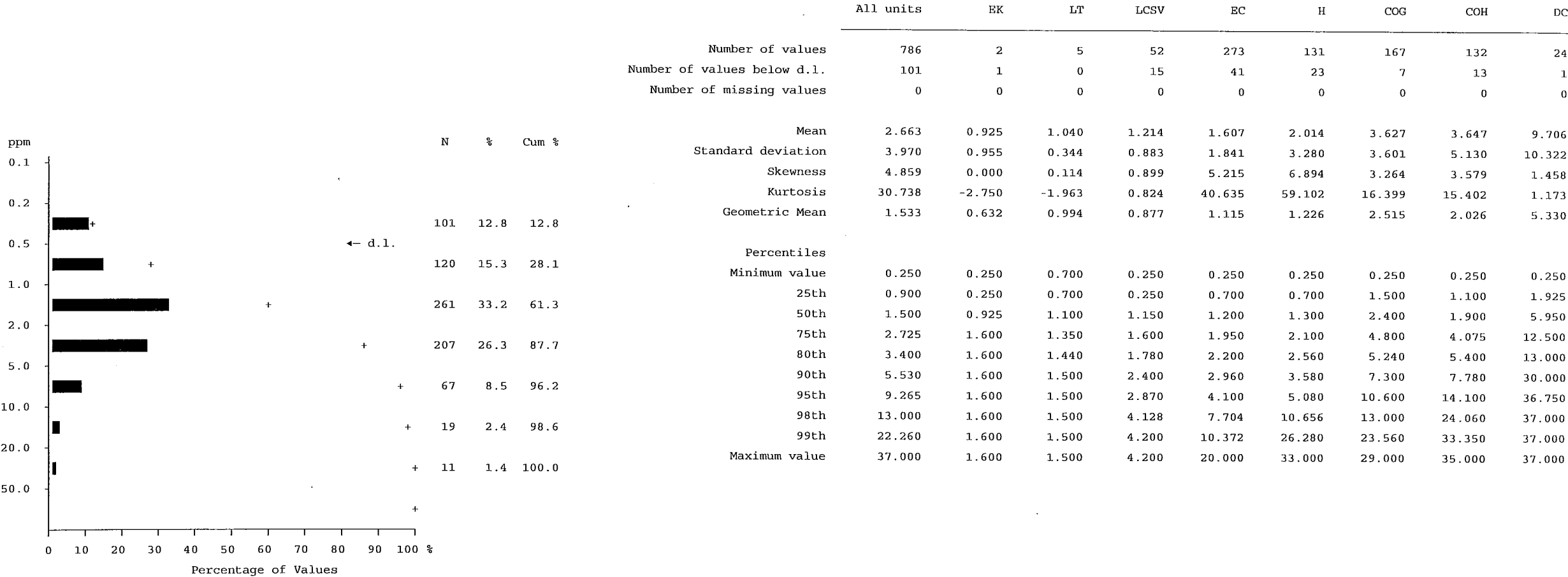
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

Statistics by Rock Type

Cesium (INAA)

Number of values - 786

Determination limit - 0.5 ppm



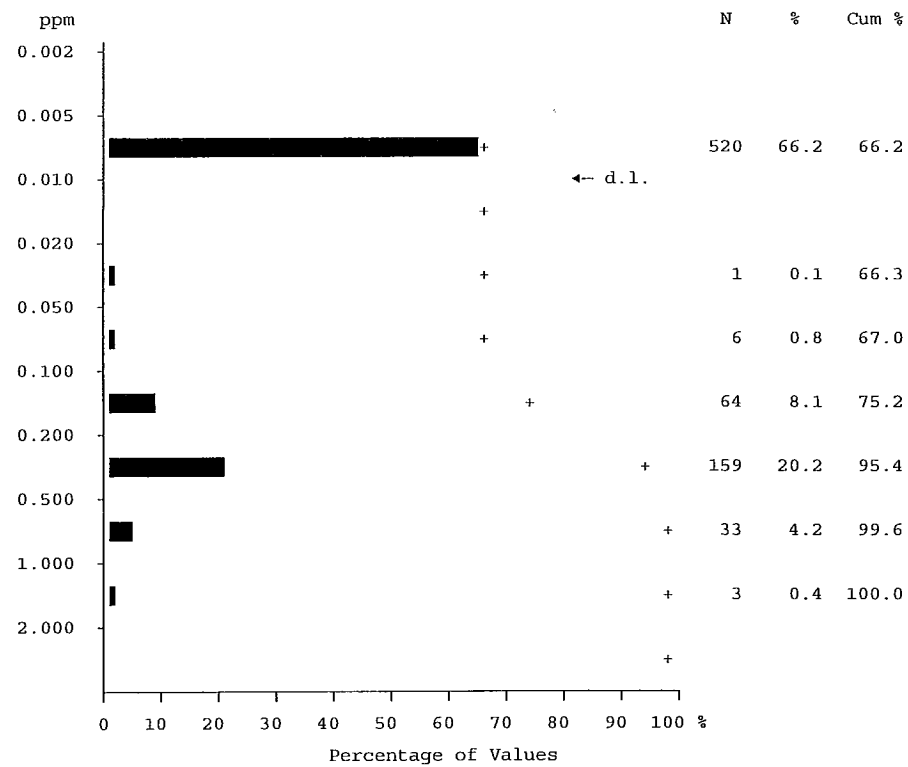
Cs

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
Statistics by Rock Type

Europium (INAA)

Number of values - 786

Determination limit - 0.01 ppm



	All units	EK	LT	LCSV	BC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	520	2	5	33	159	89	119	92	21
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	0.110	0.005	0.005	0.130	0.154	0.097	0.071	0.096	0.024
Standard deviation	0.187	0.000	0.000	0.224	0.225	0.154	0.120	0.187	0.052
Skewness	2.488	-	-	2.086	1.818	1.648	1.764	3.873	2.141
Kurtosis	8.693	-	-	3.803	3.777	2.430	2.277	22.486	2.728
Geometric Mean	0.019	0.005	0.005	0.022	0.028	0.018	0.015	0.017	0.008
Percentiles									
Minimum value	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
25th	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
50th	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
75th	0.190	0.005	0.005	0.208	0.255	0.210	0.120	0.180	0.005
80th	0.240	0.005	0.005	0.238	0.302	0.230	0.174	0.200	0.005
90th	0.343	0.005	0.005	0.411	0.460	0.308	0.252	0.301	0.155
95th	0.476	0.005	0.005	0.791	0.628	0.408	0.348	0.387	0.168
98th	0.690	0.005	0.005	0.924	0.776	0.538	0.439	0.599	0.170
99th	0.795	0.005	0.005	0.930	0.976	0.706	0.506	1.259	0.170
Maximum value	1.490	0.005	0.005	0.930	1.250	0.770	0.520	1.490	0.170

Eu

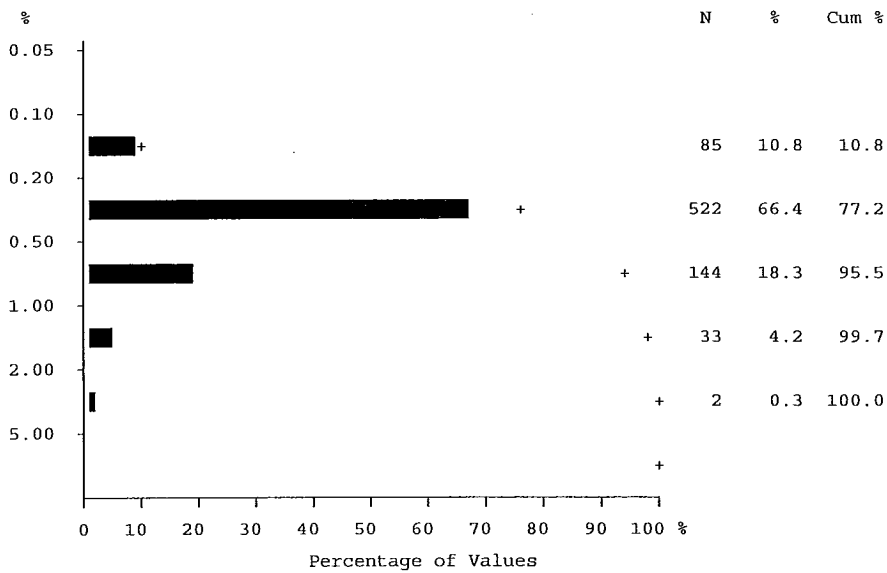
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

Statistics by Rock Type

Iron (INAA)

Number of values - 786

Determination limit - 0.05 %



	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	0	0	0	0	0	0	0	0	0
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	0.410	0.415	0.286	0.456	0.495	0.385	0.338	0.371	0.212
Standard deviation	0.283	0.064	0.169	0.359	0.351	0.221	0.174	0.233	0.048
Skewness	2.765	0.000	0.519	2.363	2.343	2.023	1.821	2.787	0.758
Kurtosis	10.328	-2.750	-1.816	4.893	6.833	4.775	4.404	11.041	-0.066
Geometric Mean	0.350	0.413	0.251	0.379	0.417	0.341	0.305	0.324	0.207
Percentiles									
Minimum value	0.120	0.370	0.160	0.120	0.150	0.160	0.120	0.130	0.130
25th	0.240	0.370	0.165	0.263	0.280	0.240	0.230	0.220	0.183
50th	0.320	0.415	0.180	0.335	0.380	0.300	0.280	0.305	0.200
75th	0.473	0.460	0.460	0.478	0.545	0.480	0.410	0.430	0.248
80th	0.520	0.460	0.508	0.510	0.662	0.516	0.448	0.464	0.250
90th	0.723	0.460	0.540	0.799	0.916	0.630	0.560	0.657	0.295
95th	0.963	0.460	0.540	1.550	1.288	0.900	0.666	0.778	0.325
98th	1.430	0.460	0.540	1.747	1.700	1.156	0.943	1.173	0.330
99th	1.700	0.460	0.540	1.760	1.852	1.337	1.072	1.644	0.330
Maximum value	2.480	0.460	0.540	1.760	2.480	1.350	1.160	1.740	0.330

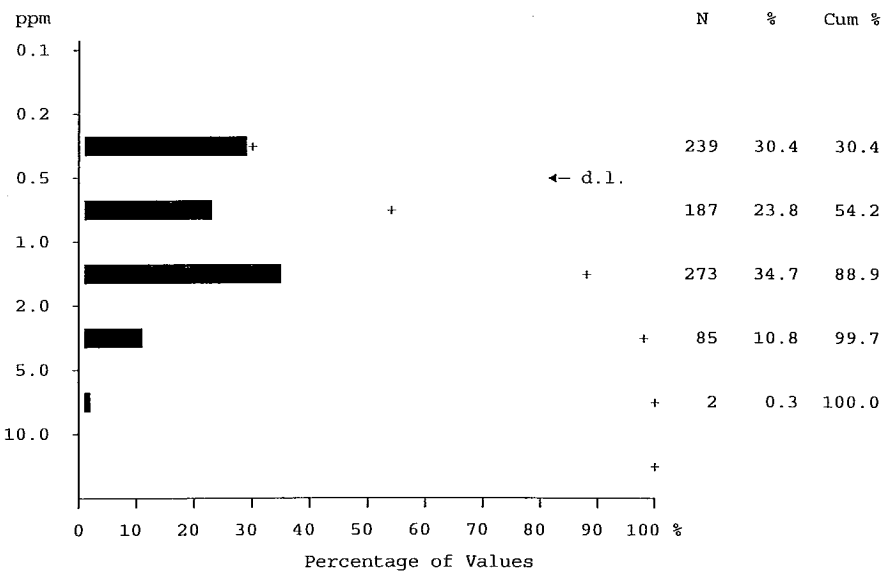
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Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
Statistics by Rock Type

Hafnium (INAA)

Number of values - 786

Determination limit - 0.5 ppm



	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	239	0	3	12	57	36	71	46	14
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	1.041	1.050	0.750	1.238	1.340	1.086	0.699	0.840	0.496
Standard deviation	0.871	0.212	0.688	1.002	1.033	0.797	0.511	0.698	0.332
Skewness	2.201	0.000	0.315	1.641	2.050	1.274	1.443	2.456	0.987
Kurtosis	9.091	-2.750	-2.209	2.676	8.242	2.353	3.443	9.439	-0.055
Geometric Mean	0.753	1.039	0.511	0.908	0.992	0.809	0.542	0.632	0.409
Percentiles									
Minimum value	0.250	0.900	0.250	0.250	0.250	0.250	0.250	0.250	0.250
25th	0.250	0.900	0.250	0.600	0.700	0.250	0.250	0.250	0.250
50th	0.900	1.050	0.250	1.100	1.200	0.900	0.600	0.800	0.250
75th	1.400	1.200	1.500	1.475	1.700	1.500	1.000	1.075	0.775
80th	1.500	1.200	1.560	1.580	1.900	1.700	1.100	1.140	0.800
90th	2.100	1.200	1.600	2.950	2.600	2.300	1.400	1.600	0.950
95th	2.700	1.200	1.600	3.875	3.290	2.740	1.560	1.940	1.300
98th	3.700	1.200	1.600	4.670	4.200	3.100	2.028	3.142	1.400
99th	4.239	1.200	1.600	4.700	4.782	4.188	2.756	4.536	1.400
Maximum value	8.400	1.200	1.600	4.700	8.400	4.700	3.300	4.800	1.400

Hf



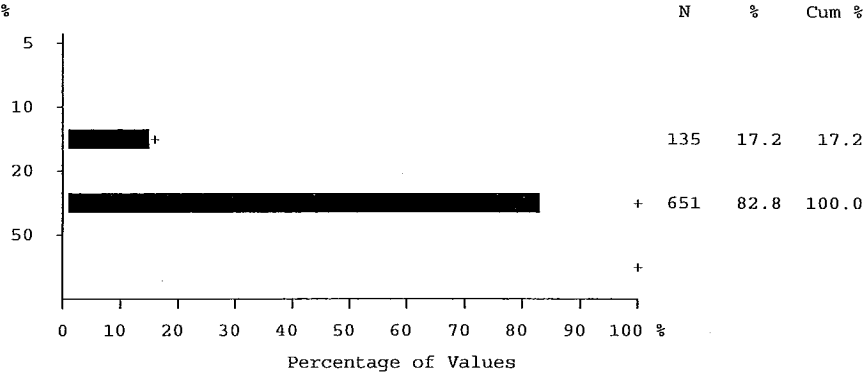
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
Statistics by Rock Type

Potassium (INAA)

Number of values - 786

Determination limit - 0.05 %

	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	0	0	0	0	0	0	0	0	0
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	23.799	21.100	27.020	24.223	23.424	24.810	23.213	24.092	23.650
Standard deviation	4.135	2.263	5.159	4.130	4.101	3.682	3.780	4.676	4.887
Skewness	0.240	0.000	0.131	-0.087	0.300	0.228	0.374	0.200	-0.085
Kurtosis	-0.118	-2.750	-1.987	-0.362	0.012	-0.299	-0.048	-0.279	-1.138
Geometric Mean	23.438	21.039	26.628	23.861	23.066	24.538	22.910	23.633	23.144
Percentiles									
Minimum value	13.100	19.500	21.300	13.200	13.800	16.200	13.500	13.100	15.000
25th	20.800	19.500	22.100	20.900	20.500	22.100	20.400	20.700	19.625
50th	23.600	21.100	26.800	24.200	23.300	24.500	22.900	23.850	23.950
75th	26.600	22.700	32.050	27.225	26.000	27.100	25.800	27.475	27.400
80th	27.360	22.700	33.100	28.080	26.620	28.060	26.540	27.700	28.300
90th	29.230	22.700	33.800	29.770	29.000	29.980	28.500	30.480	30.250
95th	30.965	22.700	33.800	31.050	30.310	31.660	29.520	32.675	31.800
98th	33.152	22.700	33.800	33.298	32.364	33.336	32.884	34.408	32.200
99th	33.913	22.700	33.800	33.400	34.420	33.944	33.796	35.870	32.200
Maximum value	37.100	22.700	33.800	33.400	37.100	34.200	34.000	36.200	32.200



Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

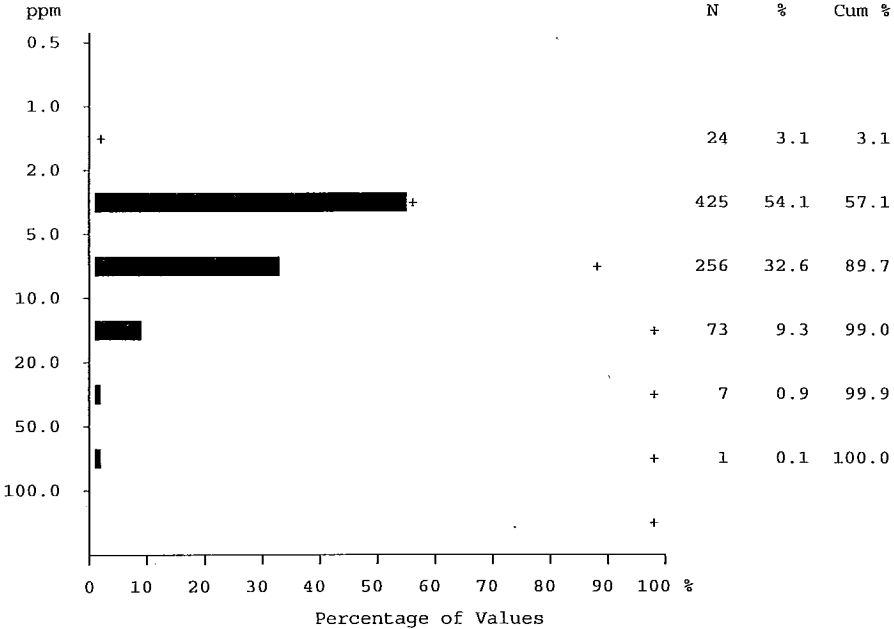
Statistics by Rock Type

Lanthanum (INAA)

Number of values - 786

Determination limit - 0.1 ppm

	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	0	0	0	0	0	0	0	0	0
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	5.681	5.800	3.280	5.542	6.384	4.782	5.486	6.044	2.729
Standard deviation	4.025	0.424	2.183	4.200	4.426	2.848	2.831	5.213	0.901
Skewness	3.751	0.000	0.669	2.230	2.280	1.797	1.431	5.806	0.547
Kurtosis	28.454	-2.750	-1.525	4.395	6.623	3.519	2.143	47.667	-0.939
Geometric Mean	4.820	5.792	2.803	4.611	5.385	4.174	4.882	5.043	2.595
Percentiles									
Minimum value	1.400	5.500	1.700	1.400	1.600	1.800	1.600	1.600	1.600
25th	3.300	5.500	1.700	3.300	3.600	2.900	3.600	3.400	2.025
50th	4.500	5.800	2.200	4.150	4.900	3.700	4.800	4.600	2.400
75th	6.700	6.100	5.400	6.575	7.200	5.800	6.500	7.550	3.500
80th	7.300	6.100	6.240	6.960	8.120	6.560	7.000	8.300	3.700
90th	10.000	6.100	6.800	9.480	12.600	9.400	9.120	11.000	4.000
95th	13.000	6.100	6.800	18.350	16.000	11.000	12.600	12.000	4.625
98th	17.000	6.100	6.800	19.940	20.040	14.080	14.280	17.040	4.800
99th	20.130	6.100	6.800	20.000	24.040	16.680	15.320	42.440	4.800
Maximum value	53.000	6.100	6.800	20.000	32.000	17.000	16.000	53.000	4.800



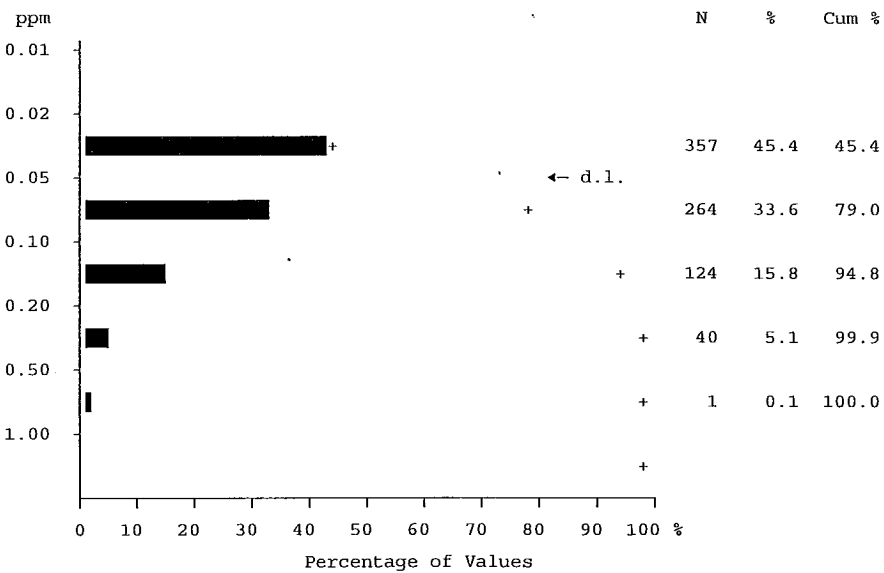
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Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
Statistics by Rock Type

Lutetium (INAA)

Number of values - 786

Determination limit - 0.05 ppm



	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	357	0	3	13	92	65	90	70	24
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	0.070	0.075	0.055	0.085	0.090	0.067	0.053	0.059	0.025
Standard deviation	0.065	0.007	0.046	0.073	0.080	0.057	0.038	0.055	0.000
Skewness	2.581	0.000	0.697	2.048	2.208	1.616	1.650	3.195	-0.938
Kurtosis	9.820	-2.750	-1.506	3.687	6.940	2.611	3.033	14.754	-2.082
Geometric Mean	0.052	0.075	0.043	0.065	0.065	0.049	0.043	0.045	0.025
Percentiles									
Minimum value	0.025	0.070	0.025	0.025	0.025	0.025	0.025	0.025	0.025
25th	0.025	0.070	0.025	0.031	0.025	0.025	0.025	0.025	0.025
50th	0.060	0.075	0.025	0.065	0.070	0.050	0.025	0.025	0.025
75th	0.090	0.080	0.100	0.090	0.110	0.090	0.070	0.080	0.025
80th	0.100	0.080	0.118	0.104	0.130	0.110	0.080	0.090	0.025
90th	0.150	0.080	0.130	0.167	0.196	0.158	0.100	0.117	0.025
95th	0.200	0.080	0.130	0.300	0.250	0.190	0.130	0.134	0.025
98th	0.283	0.080	0.130	0.320	0.346	0.238	0.176	0.247	0.025
99th	0.320	0.080	0.130	0.320	0.408	0.297	0.200	0.380	0.025
Maximum value	0.580	0.080	0.130	0.320	0.580	0.310	0.220	0.420	0.025

Lu

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

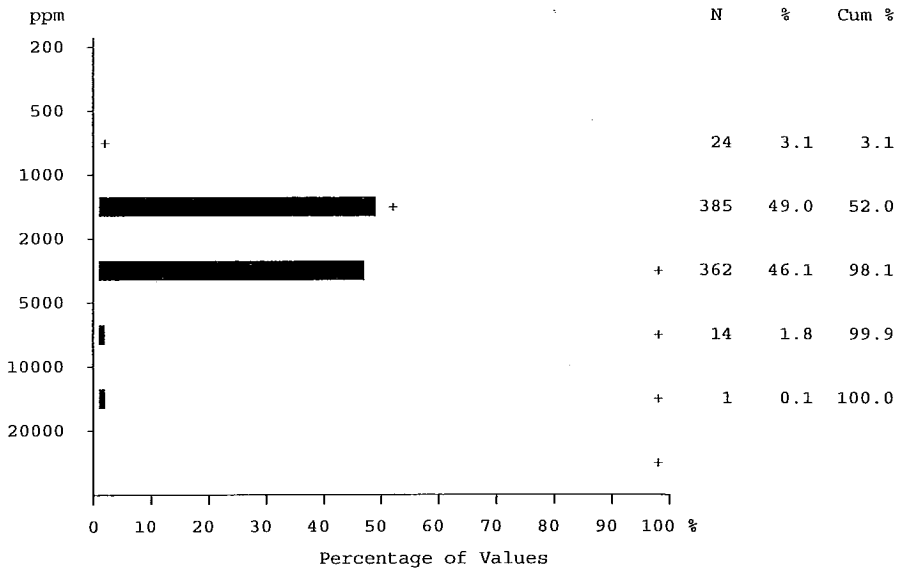
Statistics by Rock Type

Sodium (INAA)

Number of values - 786

Determination limit - 10 ppm

	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	0	0	0	0	0	0	0	0	0
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	2206.262	2620.000	5684.000	2254.712	2379.234	2208.916	1973.186	2084.621	1651.083
Standard deviation	1083.600	42.426	4346.427	974.257	1177.726	1034.102	753.572	852.120	444.980
Skewness	2.947	0.000	0.843	0.792	2.268	2.143	0.971	0.998	0.195
Kurtosis	18.338	-2.750	-1.195	-0.444	8.508	7.307	0.595	0.583	-1.212
Geometric Mean	2015.549	2619.828	4662.673	2067.148	2164.513	2028.218	1843.660	1929.117	1592.922
Percentiles									
Minimum value	620.000	2590.000	2200.000	925.000	938.000	877.000	720.000	620.000	936.000
25th	1520.000	2590.000	2645.000	1552.500	1575.000	1510.000	1400.000	1532.500	1180.000
50th	1945.000	2620.000	4380.000	1940.000	2090.000	1960.000	1800.000	1845.000	1625.000
75th	2580.000	2650.000	9375.000	2922.500	2860.000	2520.000	2380.000	2385.000	1990.000
80th	2826.000	2650.000	11610.000	3312.000	3032.000	2650.000	2508.000	2638.000	2140.000
90th	3590.000	2650.000	13100.000	3894.000	3776.000	3456.000	3046.000	3575.000	2275.000
95th	3966.500	2650.000	13100.000	4180.500	4384.000	4182.000	3610.000	3761.000	2472.500
98th	5006.400	2650.000	13100.000	4677.800	5896.400	5324.800	4086.400	3990.600	2530.000
99th	5869.100	2650.000	13100.000	4700.000	7262.000	7245.600	4178.400	4820.500	2530.000
Maximum value	13100.000	2650.000	13100.000	4700.000	9350.000	8020.000	4260.000	5200.000	2530.000



Na

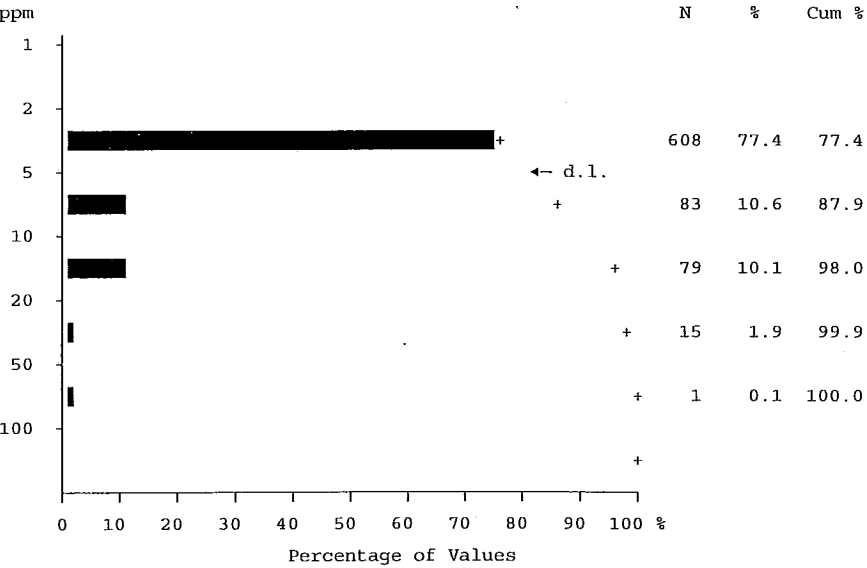
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
Statistics by Rock Type

Neodymium (INAA)

Number of values - 786

Determination limit - 5 ppm

	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	608	2	4	42	189	106	133	110	22
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	4.559	2.500	3.200	4.308	5.639	4.069	3.889	4.129	2.958
Standard deviation	4.753	0.000	1.565	4.460	5.719	3.766	3.132	5.348	1.661
Skewness	3.443	-	1.073	2.605	2.065	2.810	2.409	6.125	3.411
Kurtosis	18.153	-	-0.920	6.073	4.319	8.643	5.426	47.783	10.931
Geometric Mean	3.461	2.500	2.978	3.308	4.007	3.258	3.231	3.178	2.747
Percentiles									
Minimum value	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500
25th	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500
50th	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500
75th	2.500	2.500	4.250	2.500	8.000	2.500	2.500	2.500	2.500
80th	6.000	2.500	5.300	3.900	10.000	2.500	5.000	2.500	2.500
90th	11.000	2.500	6.000	10.400	14.000	9.000	9.000	9.700	4.250
95th	15.000	2.500	6.000	18.350	18.300	12.000	10.600	12.000	9.000
98th	20.260	2.500	6.000	21.820	24.000	17.800	15.640	18.400	10.000
99th	24.000	2.500	6.000	22.000	26.560	23.040	17.000	43.090	10.000
Maximum value	52.000	2.500	6.000	22.000	34.000	24.000	17.000	52.000	10.000



Nd

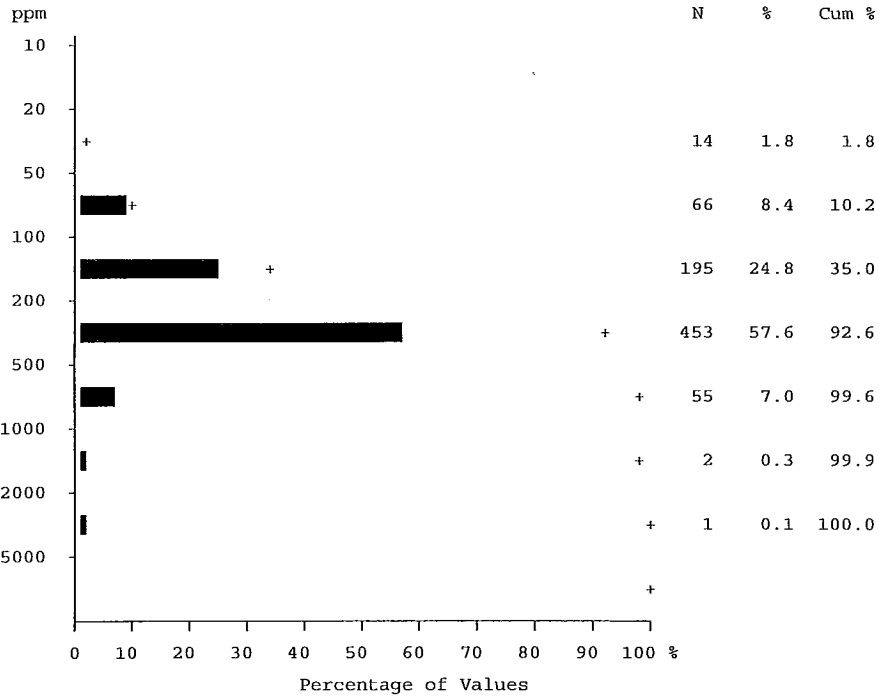
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
Statistics by Rock Type

Rubidium (INAA)

Number of values - 786

Determination limit - 5 ppm

	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	0	0	0	0	0	0	0	0	0
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	273.814	113.500	194.400	229.692	215.495	257.603	345.629	320.295	395.833
Standard deviation	176.022	65.761	183.151	103.595	136.275	233.502	137.681	197.409	160.757
Skewness	3.542	0.000	0.761	0.723	1.599	6.808	0.958	1.837	0.543
Kurtosis	33.733	-2.750	-1.327	0.604	4.343	62.192	0.914	4.419	-0.403
Geometric Mean	229.217	103.537	138.197	206.166	177.718	211.296	320.202	272.453	364.479
Percentiles									
Minimum value	31.000	67.000	47.000	62.000	31.000	45.000	110.000	60.000	140.000
25th	160.000	67.000	61.000	155.000	120.000	140.000	250.000	200.000	270.000
50th	250.000	113.500	130.000	215.000	190.000	230.000	330.000	290.000	395.000
75th	340.000	160.000	360.000	290.000	280.000	320.000	420.000	370.000	507.500
80th	370.000	160.000	444.000	304.000	312.000	340.000	440.000	404.000	540.000
90th	460.000	160.000	500.000	377.000	390.000	418.000	580.000	577.000	625.000
95th	580.000	160.000	500.000	424.000	470.000	470.000	630.000	734.000	752.500
98th	720.000	160.000	500.000	553.400	575.200	630.400	720.000	994.400	790.000
99th	826.500	160.000	500.000	560.000	763.000	1930.400	786.000	1167.000	790.000
Maximum value	2500.000	160.000	500.000	560.000	960.000	2500.000	820.000	1200.000	790.000



Rb

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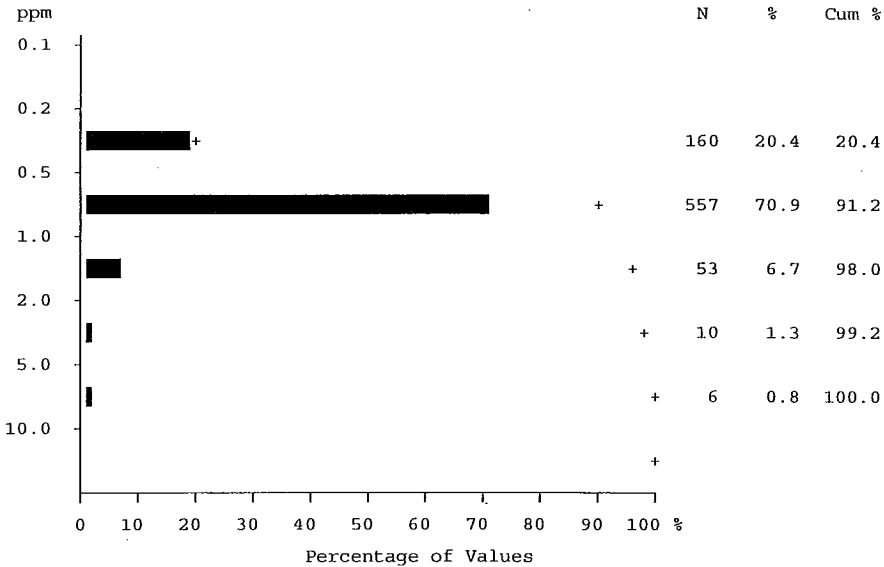
Statistics by Rock Type

Antimony (INAA)

Number of values - 786

Determination limit - 0.1 ppm

	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	0	0	0	0	0	0	0	0	0
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	0.704	0.550	0.500	0.596	0.630	0.628	0.754	0.880	0.942
Standard deviation	0.625	0.071	0.200	0.212	0.311	0.196	0.858	0.924	1.130
Skewness	7.037	0.000	0.450	0.652	5.091	0.837	6.581	4.257	2.182
Kurtosis	59.067	-2.750	-1.750	-0.307	41.234	1.478	44.731	19.751	3.445
Geometric Mean	0.616	0.548	0.470	0.561	0.584	0.599	0.637	0.707	0.646
Percentiles									
Minimum value	0.200	0.500	0.300	0.300	0.300	0.200	0.300	0.300	0.300
25th	0.500	0.500	0.350	0.400	0.500	0.500	0.500	0.500	0.400
50th	0.600	0.550	0.400	0.550	0.600	0.600	0.600	0.700	0.550
75th	0.800	0.600	0.700	0.700	0.700	0.700	0.800	0.800	0.775
80th	0.800	0.600	0.760	0.840	0.800	0.800	0.800	0.900	0.900
90th	0.900	0.600	0.800	0.900	0.900	0.900	1.000	1.200	3.350
95th	1.100	0.600	0.800	0.935	1.000	0.940	1.100	2.675	4.350
98th	2.130	0.600	0.800	1.188	1.200	1.200	4.700	5.340	4.600
99th	3.817	0.600	0.800	1.200	1.942	1.336	6.888	6.402	4.600
Maximum value	7.500	0.600	0.800	1.200	3.500	1.400	7.500	6.600	4.600



Sb

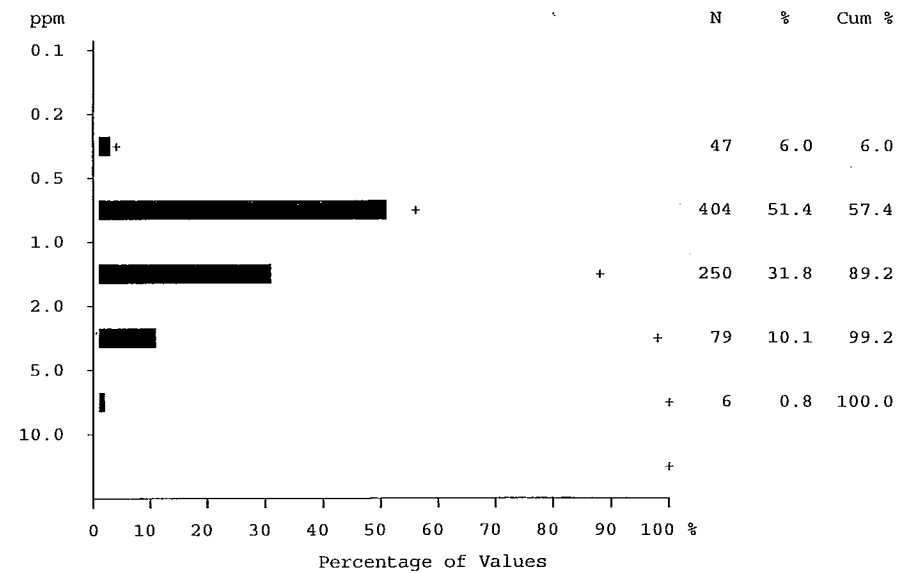
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

Statistics by Rock Type

Scandium (INAA)

Number of values - 786

Determination limit - 0.1 ppm



	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	0	0	0	0	0	0	0	0	0
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	1.136	1.150	0.760	1.279	1.375	1.105	0.916	1.020	0.538
Standard deviation	0.836	0.071	0.513	1.038	1.020	0.711	0.524	0.685	0.144
Skewness	2.634	0.000	0.719	2.365	2.211	1.932	2.022	3.002	0.701
Kurtosis	8.855	-2.750	-1.449	5.146	5.518	3.987	5.267	14.006	-0.132
Geometric Mean	0.949	1.149	0.649	1.043	1.133	0.948	0.808	0.875	0.520
Percentiles									
Minimum value	0.200	1.100	0.400	0.200	0.300	0.400	0.300	0.300	0.300
25th	0.600	1.100	0.400	0.700	0.700	0.600	0.600	0.600	0.400
50th	0.900	1.150	0.500	0.900	1.000	0.800	0.800	0.800	0.500
75th	1.300	1.200	1.250	1.375	1.550	1.400	1.100	1.200	0.600
80th	1.500	1.200	1.460	1.540	1.800	1.600	1.200	1.300	0.700
90th	2.100	1.200	1.600	2.270	2.600	1.900	1.600	1.800	0.750
95th	2.800	1.200	1.600	4.270	3.800	2.680	1.920	2.200	0.875
98th	4.000	1.200	1.600	5.246	4.700	3.644	2.848	3.074	0.900
99th	4.700	1.200	1.600	5.300	5.730	4.036	3.232	4.939	0.900
Maximum value	6.400	1.200	1.600	5.300	6.400	4.100	3.300	5.500	0.900

Sc



Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

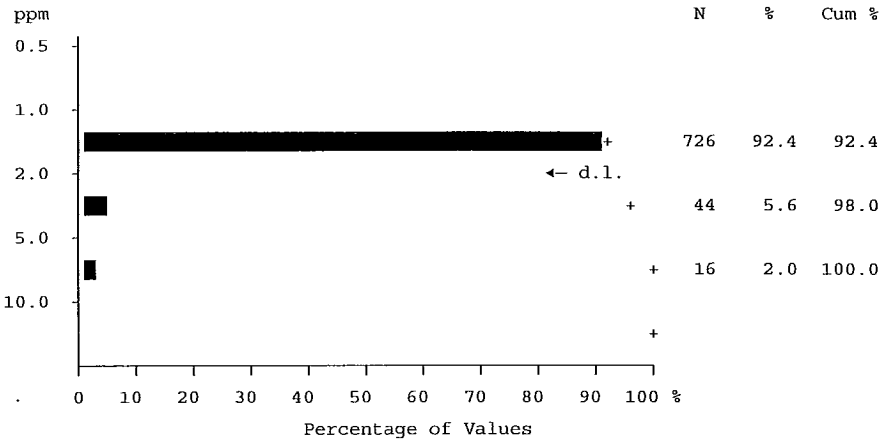
Statistics by Rock Type

Selenium (INAA)

Number of values - 786

Determination limit - 2 ppm

	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	726	2	5	49	258	118	151	123	20
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	1.220	1.000	1.000	1.173	1.136	1.252	1.275	1.273	1.500
Standard deviation	0.868	0.000	0.000	0.734	0.606	0.844	0.955	1.153	1.319
Skewness	4.610	-	-	4.116	4.662	3.460	3.931	4.708	2.453
Kurtosis	23.790	-	-	16.231	21.400	11.149	16.573	23.080	4.804
Geometric Mean	1.103	1.000	1.000	1.082	1.068	1.127	1.132	1.109	1.242
Percentiles									
Minimum value	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
25th	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
50th	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
75th	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
80th	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
90th	1.000	1.000	1.000	1.000	1.000	1.800	1.200	1.000	4.000
95th	3.000	1.000	1.000	3.350	2.000	3.400	4.000	4.000	5.750
98th	5.000	1.000	1.000	4.940	4.000	5.000	4.640	7.000	6.000
99th	5.000	1.000	1.000	5.000	4.260	5.000	7.000	8.340	6.000
Maximum value	9.000	1.000	1.000	5.000	5.000	5.000	7.000	9.000	6.000

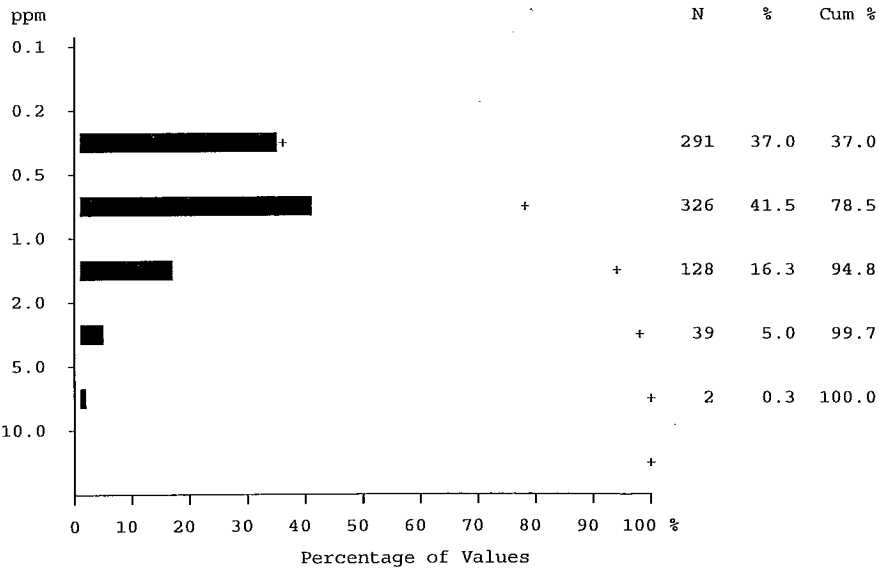


Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
Statistics by Rock Type

Samarium (INAA)

Number of values - 786

Determination limit - 0.1 ppm



	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	0	0	0	0	0	0	0	0	0
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	0.749	0.750	0.460	0.821	0.921	0.693	0.613	0.682	0.321
Standard deviation	0.629	0.071	0.397	0.708	0.751	0.486	0.387	0.664	0.106
Skewness	3.264	0.000	0.676	2.299	2.336	2.193	1.671	5.704	0.645
Kurtosis	16.442	-2.750	-1.543	4.676	6.724	6.112	2.916	43.731	-0.098
Geometric Mean	0.601	0.748	0.350	0.652	0.731	0.582	0.521	0.553	0.305
Percentiles									
Minimum value	0.200	0.700	0.200	0.200	0.200	0.300	0.200	0.200	0.200
25th	0.400	0.700	0.200	0.400	0.400	0.400	0.400	0.325	0.200
50th	0.600	0.750	0.200	0.600	0.700	0.500	0.500	0.500	0.300
75th	0.900	0.800	0.850	0.900	1.000	0.900	0.700	0.800	0.400
80th	1.000	0.800	1.000	1.000	1.300	1.000	0.800	0.900	0.400
90th	1.400	0.800	1.100	1.400	2.000	1.300	1.200	1.170	0.450
95th	2.000	0.800	1.100	3.070	2.600	1.600	1.500	1.470	0.575
98th	2.726	0.800	1.100	3.200	3.304	2.416	1.800	2.606	0.600
99th	3.200	0.800	1.100	3.200	4.278	3.004	2.132	5.411	0.600
Maximum value	6.500	0.800	1.100	3.200	5.100	3.100	2.200	6.500	0.600

Sm

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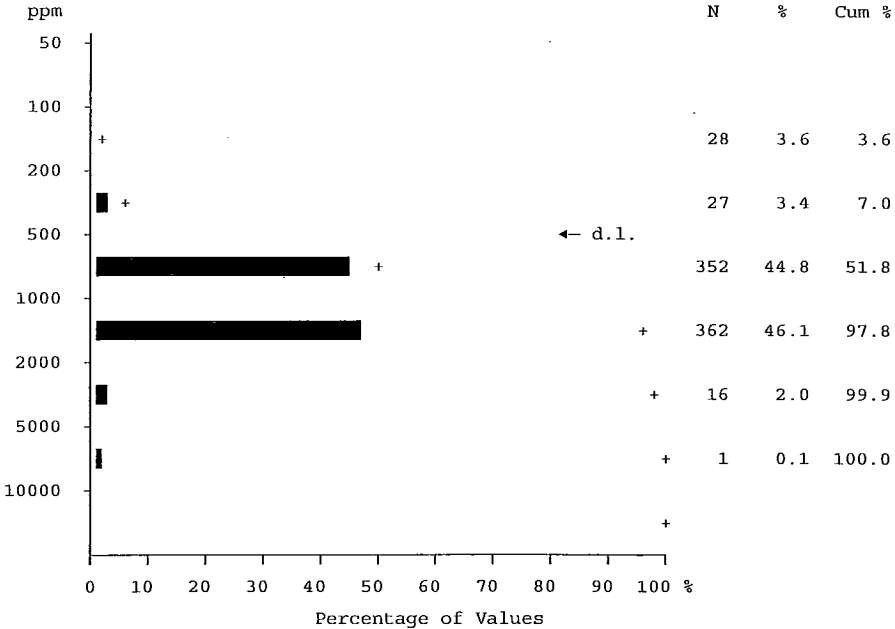
Statistics by Rock Type

Strontium (INAA)

Number of values - 786

Determination limit - 300 ppm

	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	28	1	0	2	17	2	3	3	0
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	1014.796	405.000	938.000	968.462	923.516	981.603	1150.240	1051.212	1258.750
Standard deviation	439.256	360.624	192.536	469.841	526.450	313.169	374.190	367.930	351.634
Skewness	1.825	0.000	-0.581	0.987	2.930	0.752	0.375	0.483	0.228
Kurtosis	12.542	-2.750	-1.490	1.774	18.099	2.610	1.870	0.986	-1.241
Geometric Mean	915.022	314.643	919.980	852.107	795.637	926.907	1075.815	976.065	1211.110
Percentiles									
Minimum value	150.000	150.000	630.000	150.000	150.000	150.000	150.000	150.000	630.000
25th	740.000	150.000	770.000	640.000	625.000	790.000	940.000	822.500	992.500
50th	980.000	405.000	950.000	920.000	870.000	940.000	1100.000	1000.000	1200.000
75th	1200.000	660.000	1100.000	1275.000	1100.000	1200.000	1400.000	1200.000	1500.000
80th	1300.000	660.000	1100.000	1400.000	1200.000	1200.000	1400.000	1400.000	1700.000
90th	1500.000	660.000	1100.000	1600.000	1500.000	1380.000	1520.000	1500.000	1800.000
95th	1700.000	660.000	1100.000	1735.000	1800.000	1500.000	1800.000	1700.000	1800.000
98th	2126.000	660.000	1100.000	2646.000	2300.000	1736.000	2092.000	2134.000	1800.000
99th	2300.000	660.000	1100.000	2700.000	2912.000	2208.000	2428.000	2200.000	1800.000
Maximum value	5200.000	660.000	1100.000	2700.000	5200.000	2400.000	2700.000	2200.000	1800.000



Sr

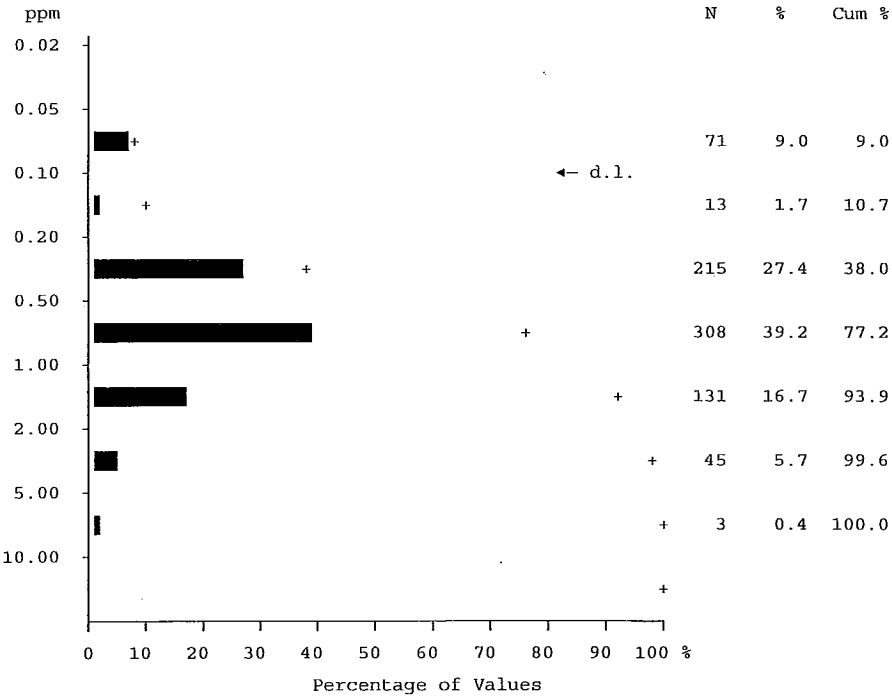
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
Statistics by Rock Type

Thorium (INAA)

Number of values - 786

Determination limit - 0.1 ppm

	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	71	0	3	0	11	14	19	17	7
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	0.765	0.950	0.310	0.898	0.975	0.743	0.567	0.655	0.285
Standard deviation	0.726	0.071	0.383	0.831	0.874	0.647	0.420	0.662	0.195
Skewness	2.524	0.000	0.567	2.115	2.098	1.792	1.413	3.415	0.219
Kurtosis	8.631	-2.750	-1.735	3.946	5.174	3.943	3.150	17.457	-1.074
Geometric Mean	0.509	0.949	0.141	0.667	0.684	0.492	0.402	0.428	0.201
Percentiles									
Minimum value	0.050	0.900	0.050	0.100	0.050	0.050	0.050	0.050	0.050
25th	0.300	0.900	0.050	0.400	0.400	0.300	0.300	0.300	0.050
50th	0.600	0.950	0.050	0.600	0.700	0.600	0.500	0.500	0.300
75th	0.900	1.000	0.700	1.000	1.150	1.000	0.800	0.800	0.400
80th	1.100	1.000	0.820	1.200	1.400	1.100	0.800	0.900	0.400
90th	1.500	1.000	0.900	1.840	2.000	1.580	1.120	1.300	0.550
95th	2.200	1.000	0.900	3.305	3.030	2.140	1.400	1.700	0.675
98th	3.200	1.000	0.900	3.782	3.756	3.016	1.664	2.938	0.700
99th	3.626	1.000	0.900	3.800	4.334	3.468	2.192	4.606	0.700
Maximum value	5.500	1.000	0.900	3.800	5.500	3.500	2.600	5.200	0.700



Th

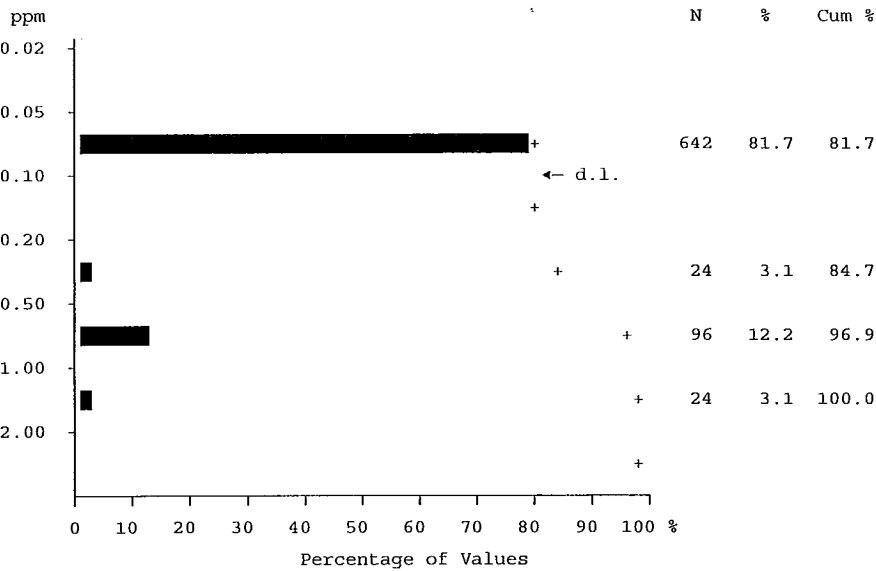
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

Statistics by Rock Type

Uranium (INAA)

Number of values - 786

Determination limit - 0.1 ppm



	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	642	2	5	46	203	110	143	111	22
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	0.171	0.050	0.050	0.150	0.233	0.146	0.131	0.143	0.104
Standard deviation	0.283	0.000	0.000	0.297	0.352	0.239	0.212	0.236	0.193
Skewness	2.504	-	-	2.795	1.948	2.468	2.521	2.820	3.273
Kurtosis	6.279	-	-	6.565	3.409	5.150	5.188	8.908	9.853
Geometric Mean	0.080	0.050	0.050	0.069	0.099	0.075	0.071	0.074	0.062
Percentiles									
Minimum value	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
25th	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
50th	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
75th	0.050	0.050	0.050	0.050	0.350	0.050	0.050	0.050	0.050
80th	0.050	0.050	0.050	0.050	0.500	0.050	0.050	0.050	0.050
90th	0.600	0.050	0.050	0.570	0.800	0.500	0.500	0.570	0.275
95th	0.865	0.050	0.050	1.070	1.000	0.800	0.700	0.700	0.800
98th	1.026	0.050	0.050	1.294	1.252	1.036	0.900	0.900	0.900
99th	1.213	0.050	0.050	1.300	1.552	1.100	0.932	1.302	0.900
Maximum value	1.900	0.050	0.050	1.300	1.900	1.100	1.000	1.500	0.900

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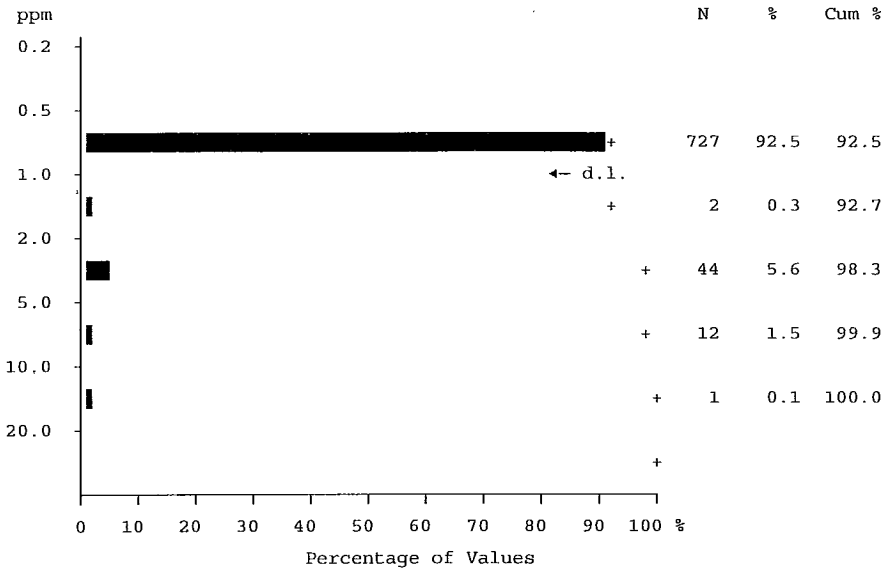
Statistics by Rock Type

Tungsten (INAA)

Number of values - 786

Determination limit - 1 ppm

	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	727	1	5	48	252	122	155	120	24
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	0.731	2.250	0.500	0.904	0.733	0.702	0.662	0.803	0.500
Standard deviation	0.944	2.475	0.000	1.587	0.990	0.799	0.614	1.044	0.000
Skewness	5.260	0.000	-	3.962	5.985	4.052	3.867	3.528	-
Kurtosis	34.708	-2.750	-	15.054	46.528	15.933	14.414	11.787	-
Geometric Mean	0.575	1.414	0.500	0.597	0.575	0.569	0.564	0.598	0.500
Percentiles									
Minimum value	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
25th	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
50th	0.500	2.250	0.500	0.500	0.500	0.500	0.500	0.500	0.500
75th	0.500	4.000	0.500	0.500	0.500	0.500	0.500	0.500	0.500
80th	0.500	4.000	0.500	0.500	0.500	0.500	0.500	0.500	0.500
90th	0.500	4.000	0.500	0.500	0.500	0.500	0.500	0.500	0.500
95th	3.000	4.000	0.500	5.700	3.000	3.000	2.000	4.000	0.500
98th	4.000	4.000	0.500	8.880	4.520	4.360	3.000	5.340	0.500
99th	5.000	4.000	0.500	9.000	5.000	5.000	4.000	6.000	0.500
Maximum value	11.000	4.000	0.500	9.000	11.000	5.000	4.000	6.000	0.500



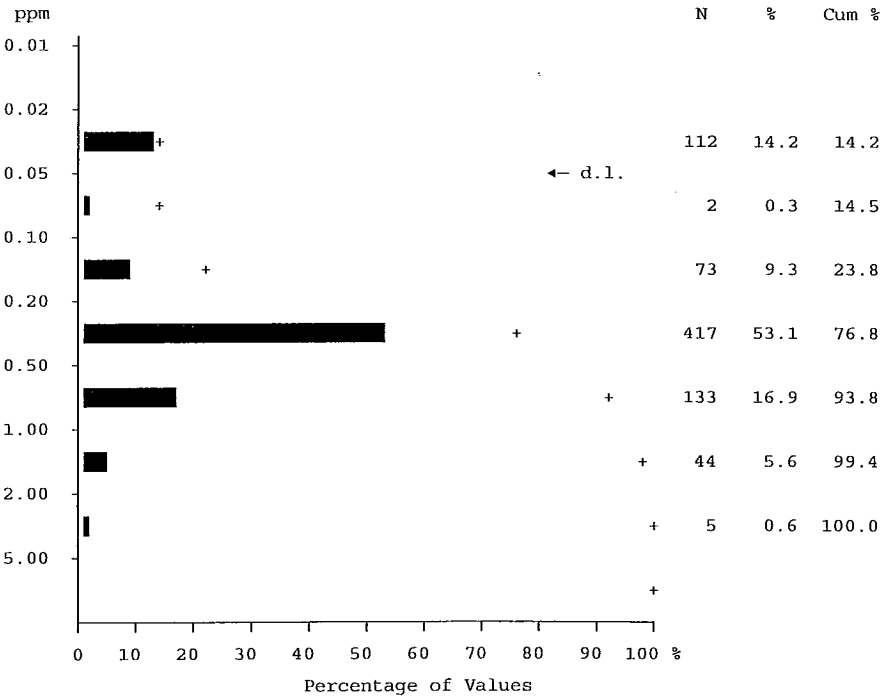
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
Statistics by Rock Type

Ytterbium (INAA)

Number of values - 786

Determination limit - 0.05 ppm

	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	112	0	3	6	29	17	31	16	10
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	0.390	0.350	0.151	0.439	0.492	0.379	0.293	0.352	0.140
Standard deviation	0.365	0.000	0.175	0.425	0.440	0.311	0.215	0.340	0.120
Skewness	2.733	-	0.349	1.965	2.263	1.849	1.391	4.152	0.544
Kurtosis	11.707	-	-2.144	3.417	7.631	4.482	4.004	25.215	-0.980
Geometric Mean	0.251	0.350	0.071	0.279	0.323	0.256	0.197	0.243	0.086
Percentiles									
Minimum value	0.025	0.350	0.025	0.025	0.025	0.025	0.025	0.025	0.025
25th	0.200	0.350	0.025	0.213	0.250	0.210	0.160	0.200	0.025
50th	0.310	0.350	0.025	0.340	0.370	0.310	0.260	0.300	0.115
75th	0.470	0.350	0.340	0.515	0.620	0.500	0.390	0.405	0.220
80th	0.530	0.350	0.364	0.564	0.720	0.566	0.440	0.428	0.250
90th	0.770	0.350	0.380	0.978	1.058	0.738	0.572	0.645	0.325
95th	1.090	0.350	0.380	1.664	1.352	0.982	0.664	0.814	0.393
98th	1.613	0.350	0.380	1.840	1.791	1.482	0.874	1.421	0.400
99th	1.813	0.350	0.380	1.850	2.176	1.703	1.186	2.560	0.400
Maximum value	3.280	0.350	0.380	1.850	3.280	1.780	1.390	2.920	0.400



Yb

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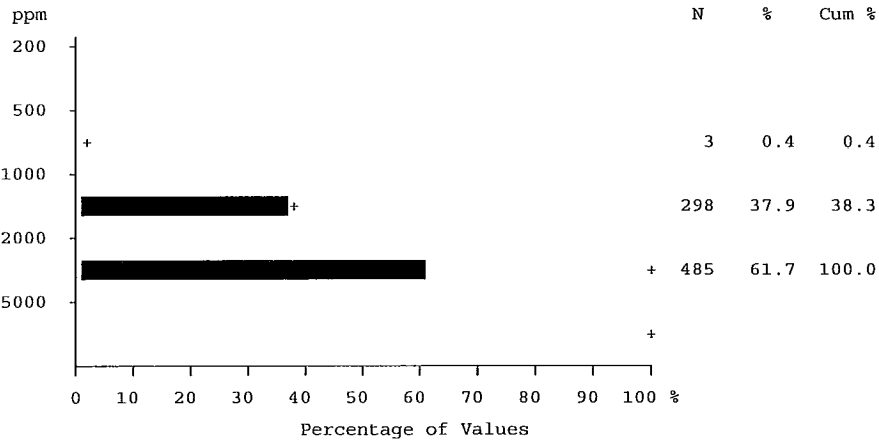
Statistics by Rock Type

Zinc (INAA)

Number of values - 786

Determination limit - 20 ppm

	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	0	0	0	0	0	0	0	0	0
Number of missing values	0	0	0	0	0	0	0	0	0
Mean	2154.746	2400.000	2480.000	1995.769	2008.242	2141.221	2265.269	2328.788	2425.000
Standard deviation	540.555	565.685	697.854	567.752	501.099	484.192	555.469	525.899	618.729
Skewness	0.600	0.000	0.068	0.586	0.547	0.482	1.100	0.132	0.387
Kurtosis	0.449	-2.750	-1.846	-0.469	0.543	-0.335	1.315	-0.088	-0.859
Geometric Mean	2088.452	2366.432	2399.305	1919.726	1946.497	2088.082	2204.276	2266.959	2350.503
Percentiles									
Minimum value	690.000	2000.000	1600.000	980.000	690.000	1100.000	1300.000	1100.000	1400.000
25th	1800.000	2000.000	1850.000	1600.000	1700.000	1800.000	1900.000	2000.000	2000.000
50th	2100.000	2400.000	2400.000	1900.000	2000.000	2100.000	2200.000	2300.000	2300.000
75th	2500.000	2800.000	3150.000	2275.000	2300.000	2400.000	2500.000	2700.000	2800.000
80th	2600.000	2800.000	3300.000	2540.000	2400.000	2560.000	2600.000	2740.000	3000.000
90th	2900.000	2800.000	3400.000	2900.000	2700.000	2880.000	3000.000	3100.000	3500.000
95th	3200.000	2800.000	3400.000	3105.000	2900.000	3100.000	3360.000	3300.000	3600.000
98th	3400.000	2800.000	3400.000	3300.000	3152.000	3200.000	3964.000	3402.000	3600.000
99th	3626.000	2800.000	3400.000	3300.000	3378.000	3336.000	4100.000	3734.000	3600.000
Maximum value	4100.000	2800.000	3400.000	3300.000	4000.000	3400.000	4100.000	3800.000	3600.000



Zn

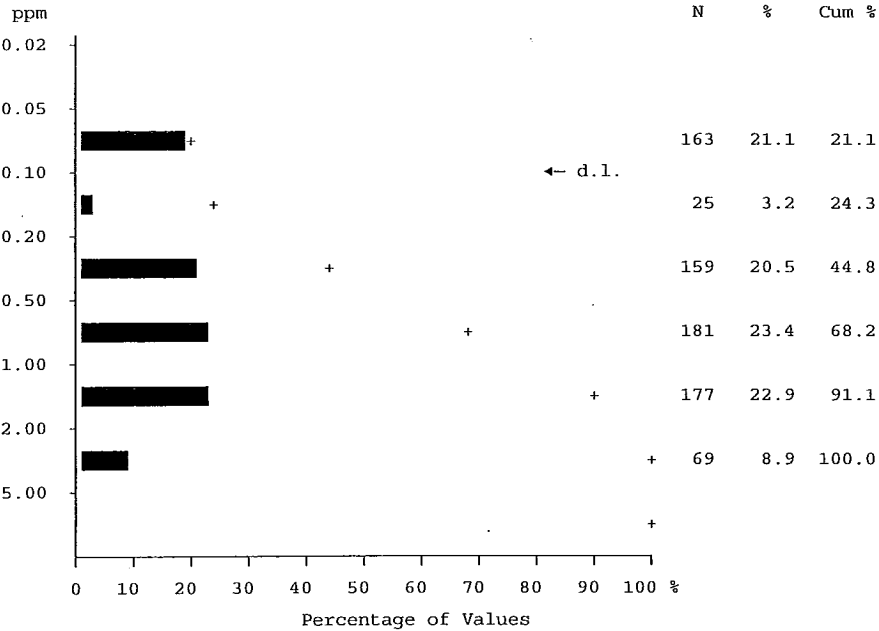


Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
Statistics by Rock Type

Silver (ICP-ES)

Number of values - 786

Determination limit - 0.1 ppm



	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	163	1	1	12	59	18	34	31	7
Number of missing values	12	0	0	1	3	3	2	3	0
Mean	0.776	0.125	0.830	0.514	0.581	1.109	0.863	0.945	0.294
Standard deviation	0.779	0.106	1.026	0.556	0.574	1.001	0.772	0.862	0.234
Skewness	1.506	0.000	0.898	2.264	1.883	1.226	0.878	0.858	0.771
Kurtosis	2.497	-2.750	-1.139	7.047	5.734	1.192	0.055	-0.058	-0.365
Geometric Mean	0.405	0.100	0.416	0.289	0.326	0.629	0.456	0.470	0.197
Percentiles									
Minimum value	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
25th	0.200	0.050	0.175	0.100	0.100	0.400	0.200	0.100	0.050
50th	0.500	0.125	0.400	0.400	0.400	0.800	0.700	0.800	0.300
75th	1.100	0.200	1.700	0.700	0.800	1.575	1.400	1.500	0.400
80th	1.400	0.200	2.240	0.860	1.000	1.820	1.500	1.700	0.500
90th	1.900	0.200	2.600	1.280	1.300	2.520	2.040	2.300	0.750
95th	2.400	0.200	2.600	1.500	1.700	3.000	2.400	2.650	0.800
98th	2.950	0.200	2.600	3.036	2.174	4.284	2.668	3.020	0.800
99th	3.250	0.200	2.600	3.100	2.703	4.471	3.268	3.550	0.800
Maximum value	4.500	0.200	2.600	3.100	4.000	4.500	3.400	3.700	0.800

Ag

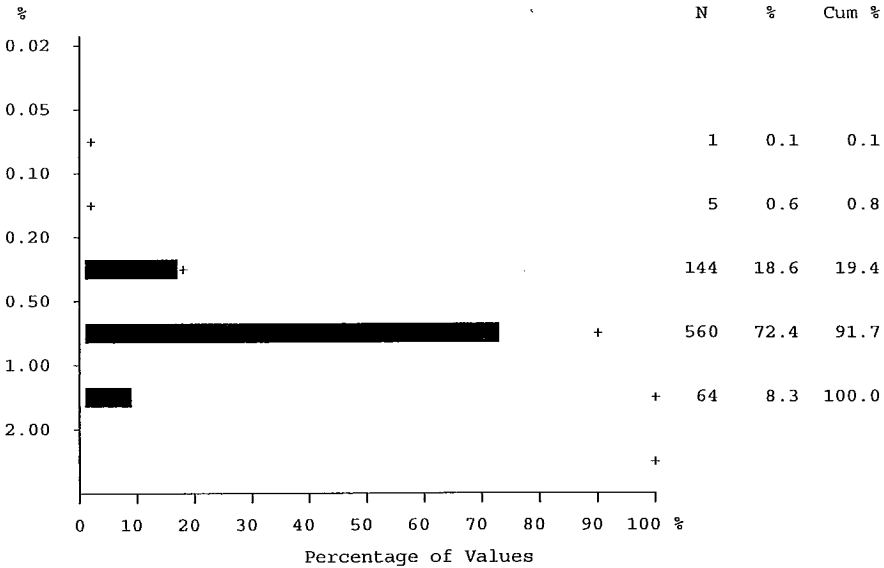
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
Statistics by Rock Type

Aluminum (ICP-ES)

Number of values - 786

Determination limit - 0.01 %

	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	0	0	0	0	0	0	0	0	0
Number of missing values	12	0	0	1	3	3	2	3	0
Mean	0.681	0.750	0.708	0.692	0.666	0.708	0.668	0.710	0.601
Standard deviation	0.220	0.099	0.275	0.258	0.243	0.196	0.197	0.209	0.153
Skewness	0.487	0.000	-0.291	0.679	0.492	0.175	0.379	0.813	-0.062
Kurtosis	0.778	-2.750	-1.895	-0.341	0.401	-0.643	0.106	3.586	-0.783
Geometric Mean	0.643	0.747	0.656	0.647	0.619	0.679	0.638	0.676	0.580
Percentiles									
Minimum value	0.070	0.680	0.320	0.240	0.170	0.230	0.270	0.070	0.260
25th	0.530	0.680	0.435	0.500	0.500	0.560	0.540	0.570	0.473
50th	0.660	0.750	0.760	0.640	0.645	0.675	0.660	0.700	0.590
75th	0.820	0.820	0.955	0.860	0.800	0.880	0.800	0.840	0.763
80th	0.860	0.820	0.976	0.922	0.850	0.900	0.820	0.870	0.780
90th	0.970	0.820	0.990	1.106	0.999	0.990	0.930	0.970	0.820
95th	1.060	0.820	0.990	1.220	1.124	1.036	0.997	1.030	0.845
98th	1.170	0.820	0.990	1.317	1.186	1.108	1.160	1.136	0.850
99th	1.235	0.820	0.990	1.320	1.415	1.167	1.227	1.566	0.850
Maximum value	1.740	0.820	0.990	1.320	1.540	1.170	1.300	1.740	0.850

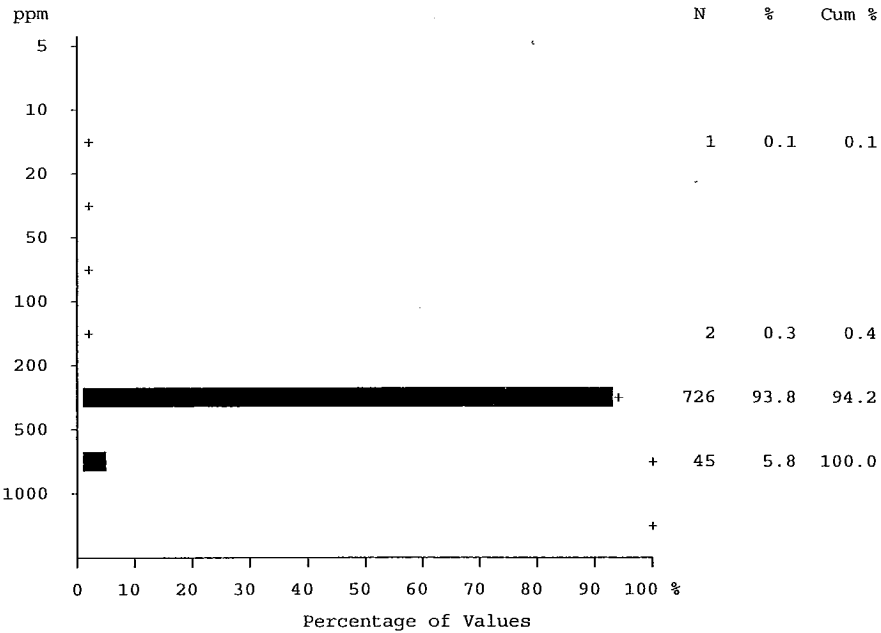


Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
Statistics by Rock Type

Boron (ICP-ES)

Number of values - 786

Determination limit - 2 ppm



	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	0	0	0	0	0	0	0	0	0
Number of missing values	12	0	0	1	3	3	2	3	0
Mean	375.620	284.000	330.600	360.118	357.385	374.734	397.479	390.845	403.333
Standard deviation	76.414	50.912	44.405	85.455	71.783	72.395	65.453	88.655	72.667
Skewness	0.352	0.000	-0.904	1.335	0.096	1.041	0.328	0.005	-0.096
Kurtosis	1.084	-2.750	-1.155	3.014	-0.075	1.698	-0.104	1.784	-0.858
Geometric Mean	367.151	281.709	327.923	351.240	349.867	368.335	392.145	376.465	396.792
Percentiles									
Minimum value	18.000	248.000	254.000	212.000	122.000	242.000	229.000	18.000	265.000
25th	322.000	248.000	292.000	303.000	303.000	321.250	354.000	327.500	334.250
50th	368.000	284.000	352.000	355.000	355.500	358.500	386.000	382.000	402.500
75th	422.000	320.000	358.500	388.000	407.000	420.500	446.500	445.500	453.500
80th	438.000	320.000	359.400	394.200	417.000	435.000	454.000	466.000	466.000
90th	475.500	320.000	360.000	462.200	458.900	462.300	484.400	513.000	510.000
95th	508.250	320.000	360.000	555.400	486.350	510.350	518.800	543.500	534.000
98th	544.000	320.000	360.000	663.640	507.740	592.440	553.920	591.800	537.000
99th	569.250	320.000	360.000	665.000	514.740	648.520	569.820	652.700	537.000
Maximum value	665.000	320.000	360.000	665.000	564.000	652.000	585.000	659.000	537.000

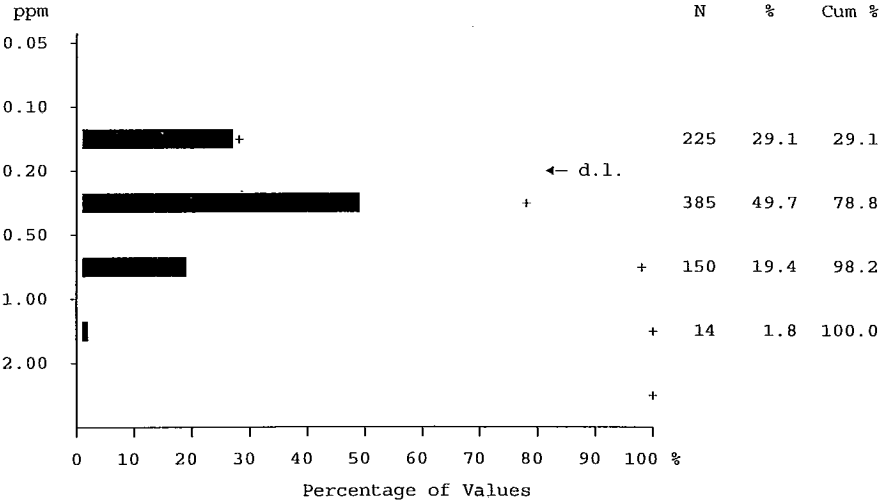
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

Statistics by Rock Type

Beryllium (ICP-ES)

Number of values - 786

Determination limit - 0.2 ppm



	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	225	0	2	12	81	23	64	38	5
Number of missing values	12	0	0	1	3	3	2	3	0
Mean	0.310	0.400	0.420	0.373	0.296	0.362	0.252	0.316	0.413
Standard deviation	0.222	0.283	0.383	0.262	0.208	0.227	0.184	0.230	0.288
Skewness	1.430	0.000	0.474	1.037	1.691	1.071	1.619	1.354	0.677
Kurtosis	2.434	-2.750	-1.747	0.404	4.733	1.086	2.820	1.879	-0.771
Geometric Mean	0.244	0.346	0.283	0.290	0.236	0.296	0.201	0.246	0.317
Percentiles									
Minimum value	0.100	0.200	0.100	0.100	0.100	0.100	0.100	0.100	0.100
25th	0.100	0.200	0.100	0.200	0.100	0.200	0.100	0.100	0.200
50th	0.300	0.400	0.300	0.300	0.200	0.300	0.200	0.200	0.300
75th	0.400	0.600	0.800	0.500	0.400	0.500	0.300	0.450	0.700
80th	0.500	0.600	0.920	0.500	0.400	0.500	0.400	0.500	0.700
90th	0.600	0.600	1.000	0.780	0.590	0.700	0.500	0.600	0.800
95th	0.800	0.600	1.000	1.000	0.700	0.800	0.600	0.800	1.025
98th	0.900	0.600	1.000	1.096	0.858	0.984	0.900	1.040	1.100
99th	1.100	0.600	1.000	1.100	1.100	1.171	0.934	1.170	1.100
Maximum value	1.500	0.600	1.000	1.100	1.500	1.200	1.000	1.200	1.100

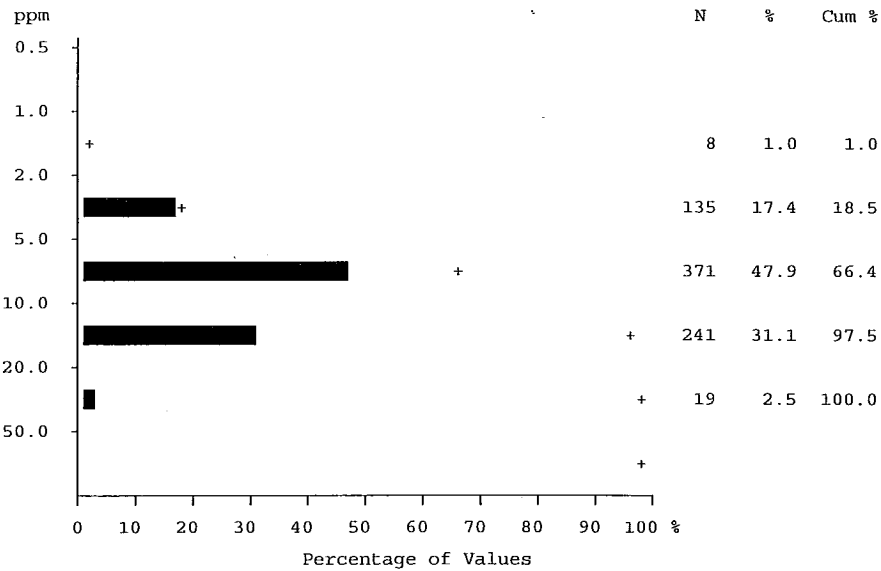
Be

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
Statistics by Rock Type

Cadmium (ICP-ES)

Number of values - 786

Determination limit - 0.2 ppm



	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	0	0	0	0	0	0	0	0	0
Number of missing values	12	0	0	1	3	3	2	3	0
Mean	8.993	7.500	9.920	8.280	7.997	9.712	9.188	10.121	10.392
Standard deviation	4.743	4.384	4.647	4.673	3.904	5.014	5.317	4.873	5.269
Skewness	1.553	0.000	0.728	1.281	1.042	1.292	2.347	0.952	0.877
Kurtosis	5.089	-2.750	-1.228	2.044	1.823	2.123	10.470	1.464	-0.283
Geometric Mean	7.888	6.829	9.172	7.138	7.085	8.584	8.000	8.973	9.250
Percentiles									
Minimum value	1.300	4.400	5.300	1.800	1.300	2.200	1.600	1.600	3.800
25th	5.600	4.400	6.750	5.000	5.075	6.225	5.750	6.400	6.925
50th	8.000	7.500	8.700	7.200	7.400	9.050	8.200	9.500	8.700
75th	11.200	10.600	13.700	11.100	10.100	11.500	10.850	12.800	14.550
80th	12.300	10.600	16.100	12.300	11.100	12.660	11.700	13.800	16.000
90th	15.150	10.600	17.700	13.780	13.300	16.980	16.940	17.100	18.900
95th	17.900	10.600	17.700	18.220	15.115	19.865	18.770	18.800	22.450
98th	20.700	10.600	17.700	24.928	16.816	24.392	22.368	23.200	23.600
99th	25.200	10.600	17.700	25.100	20.059	29.166	33.308	28.620	23.600
Maximum value	44.000	10.600	17.700	25.100	25.500	30.500	44.000	29.400	23.600

Cd

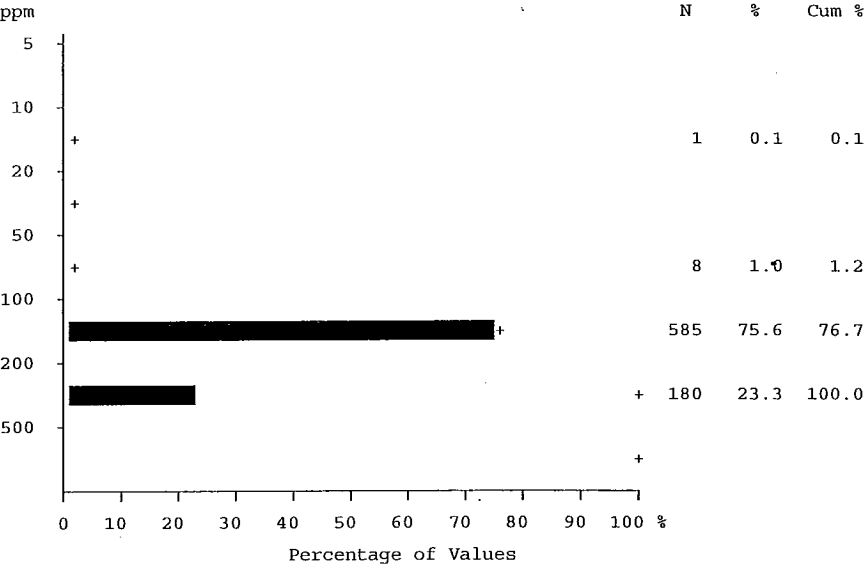
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
Statistics by Rock Type

Copper (ICP-ES)

Number of values - 786

Determination limit - 1 ppm

	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	0	0	0	0	0	0	0	0	0
Number of missing values	12	0	0	1	3	3	2	3	0
Mean	171.439	169.500	195.800	154.784	165.856	180.094	173.024	180.380	159.625
Standard deviation	39.512	19.092	25.908	30.111	36.928	45.468	33.835	46.295	27.800
Skewness	0.601	0.000	-0.690	0.501	0.309	0.712	0.372	0.527	-0.007
Kurtosis	1.307	-2.750	-1.327	-0.707	-0.304	0.402	-0.449	2.738	-1.413
Geometric Mean	166.736	168.962	194.301	152.006	161.695	174.662	169.778	172.910	157.260
Percentiles									
Minimum value	10.000	156.000	153.000	91.000	51.000	84.000	106.000	10.000	116.000
25th	143.000	156.000	174.500	136.000	136.750	144.500	147.000	151.500	136.250
50th	166.000	169.500	198.000	145.000	161.500	174.000	170.000	172.000	160.500
75th	197.250	183.000	216.000	177.000	194.000	210.250	197.500	211.500	186.250
80th	205.000	183.000	218.400	184.800	198.000	216.400	204.000	220.000	188.000
90th	225.000	183.000	220.000	204.400	220.900	247.200	220.000	240.000	194.500
95th	240.000	183.000	220.000	210.000	234.000	262.100	230.000	257.000	205.750
98th	259.000	183.000	220.000	216.720	248.060	303.660	248.440	277.200	208.000
99th	273.000	183.000	220.000	217.000	252.870	324.100	265.400	353.200	208.000
Maximum value	385.000	183.000	220.000	217.000	259.000	327.000	272.000	385.000	208.000



Cu

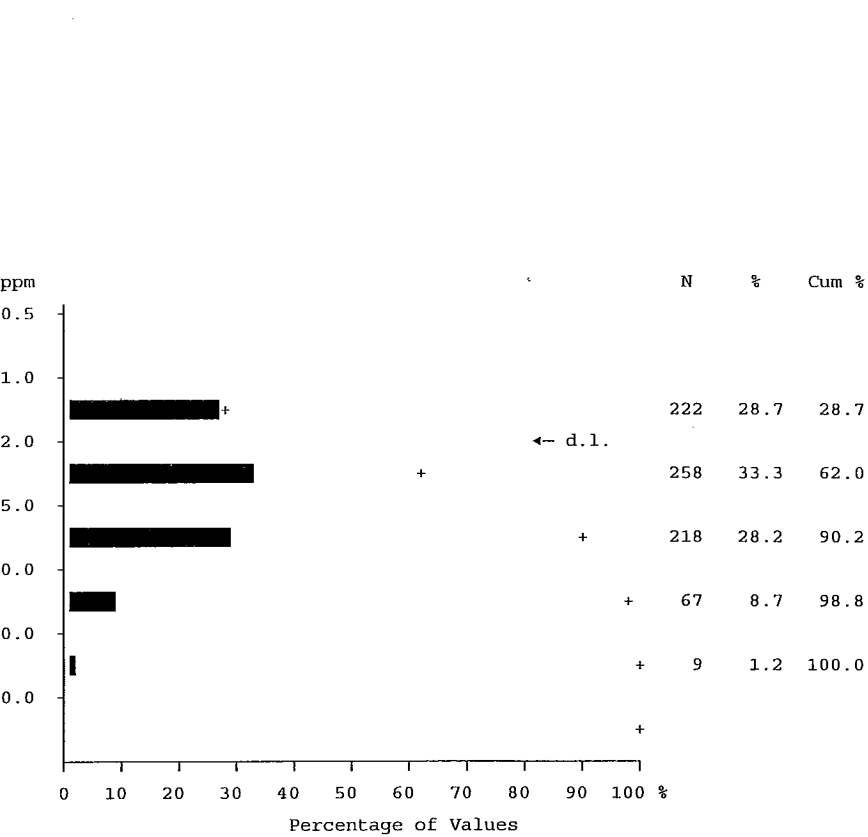
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

Statistics by Rock Type

Lithium (ICP-ES)

Number of values - 786

Determination limit - 2 ppm



	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	222	0	2	11	69	32	61	35	12
Number of missing values	12	0	0	1	3	3	2	3	0
Mean	4.441	5.000	4.000	5.961	5.167	4.313	3.273	4.225	2.958
Standard deviation	4.213	2.828	3.464	6.785	4.891	3.327	2.889	3.359	2.662
Skewness	2.709	0.000	0.375	3.017	2.090	1.132	2.343	2.060	1.249
Kurtosis	13.204	-2.750	-1.883	11.762	6.635	0.733	8.093	8.194	0.947
Geometric Mean	3.064	4.583	2.766	3.818	3.457	3.157	2.397	3.110	2.080
Percentiles									
Minimum value	1.000	3.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
25th	1.000	3.000	1.000	2.000	1.000	1.250	1.000	1.000	1.000
50th	3.000	5.000	3.000	4.000	4.000	3.500	3.000	4.000	1.500
75th	6.000	7.000	7.500	7.000	7.000	6.000	4.000	6.000	5.000
80th	6.000	7.000	8.400	8.600	8.800	6.200	5.000	6.000	6.000
90th	9.000	7.000	9.000	14.400	12.000	10.000	6.400	8.000	6.000
95th	12.000	7.000	9.000	18.400	15.000	11.550	8.000	10.000	9.750
98th	17.000	7.000	9.000	40.120	20.000	14.000	13.680	13.200	11.000
99th	20.000	7.000	9.000	41.000	22.290	14.000	16.040	21.300	11.000
Maximum value	41.000	7.000	9.000	41.000	36.000	14.000	20.000	24.000	11.000

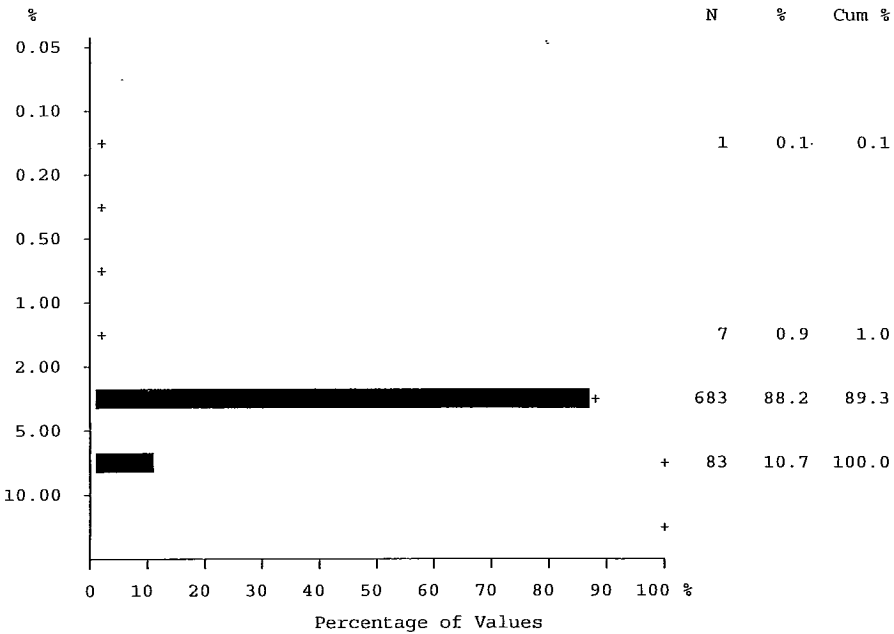
Li

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
Statistics by Rock Type

Magnesium (ICP-ES)

Number of values - 786

Determination limit - 0.01 %



	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	0	0	0	0	0	0	0	0	0
Number of missing values	12	0	0	1	3	3	2	3	0
Mean	3.919	5.380	4.396	3.667	3.821	3.851	4.058	3.944	4.607
Standard deviation	0.903	1.174	0.553	0.855	0.847	0.896	0.945	0.907	0.903
Skewness	0.269	0.000	0.149	0.712	0.211	0.224	0.337	-0.057	0.543
Kurtosis	0.656	-2.750	-2.103	0.236	0.733	1.038	-0.377	1.811	-0.742
Geometric Mean	3.804	5.316	4.368	3.574	3.722	3.741	3.948	3.791	4.526
Percentiles									
Minimum value	0.160	4.550	3.770	2.090	1.060	1.740	1.700	0.160	3.340
25th	3.290	4.550	3.925	3.140	3.238	3.293	3.395	3.285	3.940
50th	3.870	5.380	4.180	3.530	3.820	3.840	3.980	3.890	4.440
75th	4.450	6.210	4.975	4.080	4.390	4.408	4.620	4.415	5.280
80th	4.610	6.210	5.026	4.238	4.490	4.624	4.770	4.590	5.600
90th	5.090	6.210	5.060	5.180	4.837	4.891	5.530	5.090	6.105
95th	5.583	6.210	5.060	5.562	5.283	5.152	5.851	5.615	6.458
98th	5.975	6.210	5.060	5.880	5.705	5.699	6.071	6.202	6.530
99th	6.243	6.210	5.060	5.890	6.065	6.911	6.272	6.404	6.530
Maximum value	7.390	6.210	5.060	5.890	7.070	7.390	6.450	6.470	6.530

Mg



Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

Statistics by Rock Type

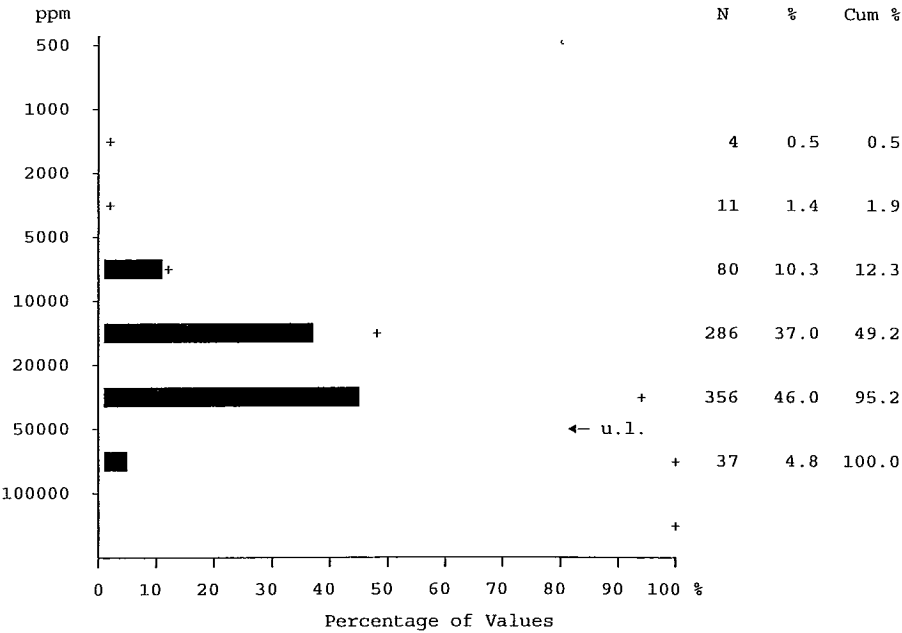
Manganese (ICP-ES)

Number of values - 786

Determination limit - 1 ppm

Upper detection limit - 99999 ppm

	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	0	0	0	0	0	0	0	0	0
Number of missing values	12	0	0	1	3	3	2	3	0
Mean	23519.461	16576.500	16124.600	22106.353	17099.667	25683.453	27322.958	31311.434	21292.000
Standard deviation	13654.073	12416.088	3921.913	9033.858	9218.066	14095.745	13952.729	16131.555	13108.775
Skewness	1.413	0.000	0.176	0.549	1.003	1.191	1.143	1.335	1.375
Kurtosis	3.388	-2.750	-2.032	-0.279	1.797	1.874	1.439	3.399	1.225
Geometric Mean	19831.053	14060.609	15747.782	20195.939	14496.708	22177.752	24072.022	27306.243	18210.139
Percentiles									
Minimum value	1135.000	7797.000	11704.000	3866.000	1135.000	5460.000	6069.000	1485.000	5556.000
25th	14127.000	7797.000	12705.000	15632.000	11154.250	15954.250	17743.000	19546.500	13051.500
50th	20262.500	16576.500	14885.000	20172.000	15726.500	22468.000	24844.000	30052.000	17872.000
75th	30744.000	25356.000	20164.000	28199.000	22480.750	33707.250	35236.500	39961.500	23588.000
80th	33945.000	25356.000	20758.600	31214.400	24288.200	36667.800	37059.000	43503.000	29724.000
90th	41256.500	25356.000	21155.000	35909.200	30156.800	44014.700	43648.200	51022.000	44263.000
95th	49482.250	25356.000	21155.000	39152.200	34834.450	51575.100	59361.600	56877.000	56650.750
98th	61273.000	25356.000	21155.000	44958.640	38412.420	65424.360	70463.960	81084.200	58636.000
99th	70325.500	25356.000	21155.000	45095.000	44538.710	80795.000	72691.900	99978.900	58636.000
Maximum value	99999.000	25356.000	21155.000	45095.000	61862.000	83956.000	73672.000	99999.000	58636.000



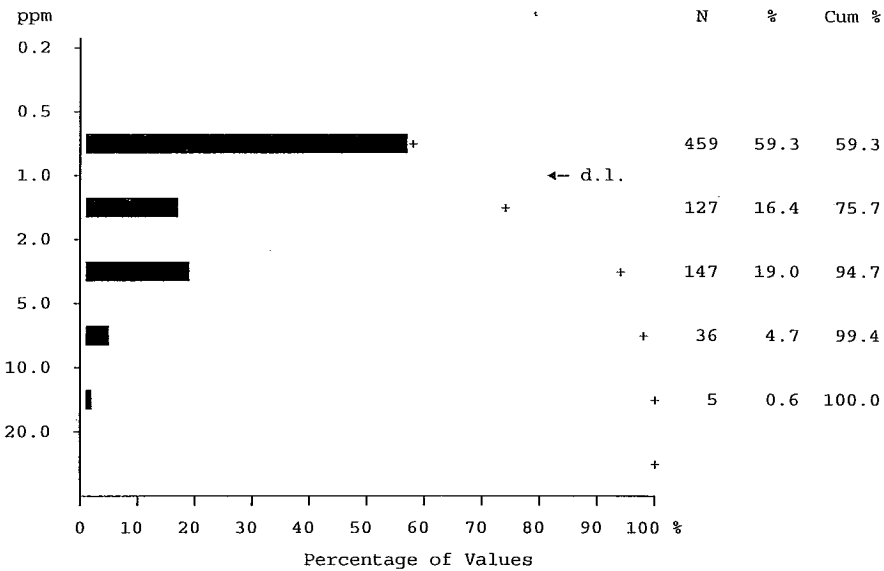
Mn

Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
Statistics by Rock Type

Molybdenum (ICP-ES)

Number of values - 786

Determination limit - 1 ppm



	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	459	2	3	32	149	79	104	77	13
Number of missing values	12	0	0	1	3	3	2	3	0
Mean	1.322	0.500	1.300	1.118	1.565	1.340	1.121	1.159	1.271
Standard deviation	1.671	0.000	1.151	1.013	1.857	1.823	1.342	1.739	1.294
Skewness	3.554	-	0.488	1.468	2.519	3.178	3.064	6.329	2.148
Kurtosis	18.222	-	-1.881	0.896	7.914	10.983	10.246	51.497	4.794
Geometric Mean	0.873	0.500	0.944	0.826	0.987	0.855	0.788	0.804	0.911
Percentiles									
Minimum value	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
25th	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
50th	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
75th	1.000	0.500	2.500	2.000	2.000	1.000	1.000	1.000	2.000
80th	2.000	0.500	2.800	2.000	3.000	2.000	1.000	1.000	2.000
90th	3.000	0.500	3.000	3.000	4.000	3.000	3.000	2.000	3.000
95th	5.000	0.500	3.000	3.400	6.000	5.550	4.000	4.000	5.250
98th	6.500	0.500	3.000	4.000	7.580	8.840	6.680	5.400	6.000
99th	8.000	0.500	3.000	4.000	9.290	10.710	8.000	13.700	6.000
Maximum value	17.000	0.500	3.000	4.000	13.000	11.000	8.000	17.000	6.000

Mo

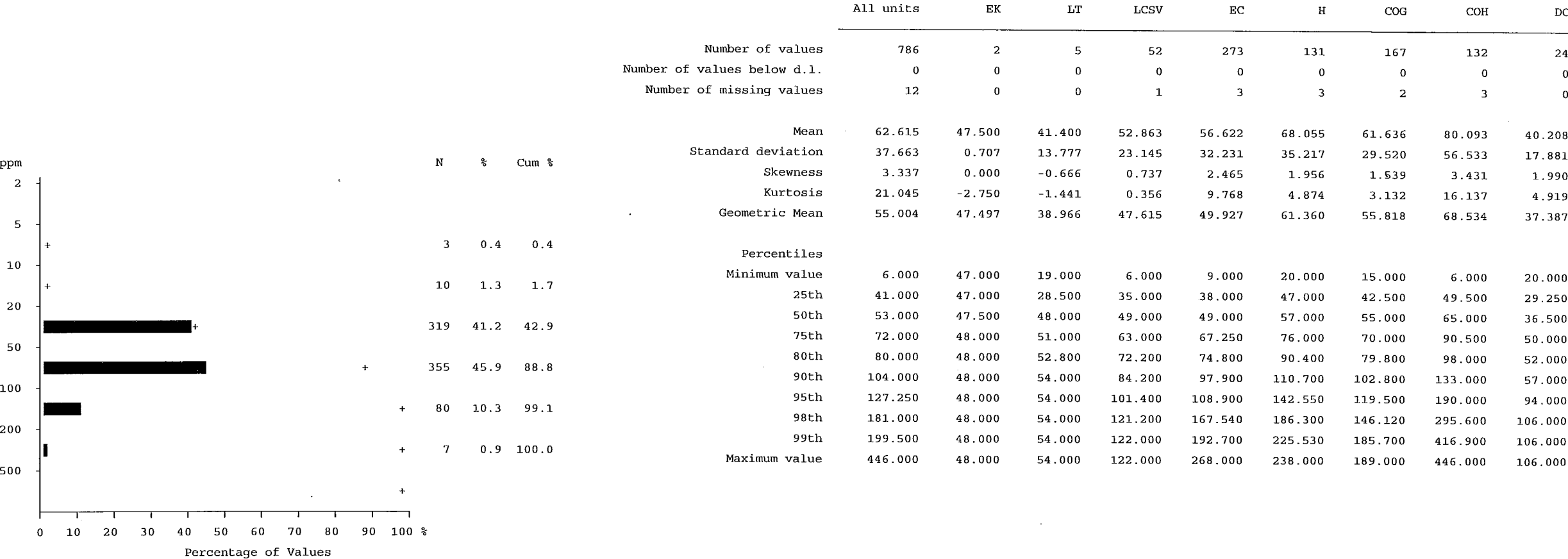
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

Statistics by Rock Type

Nickel (ICP-ES)

Number of values - 786

Determination limit - 1 ppm



Ni

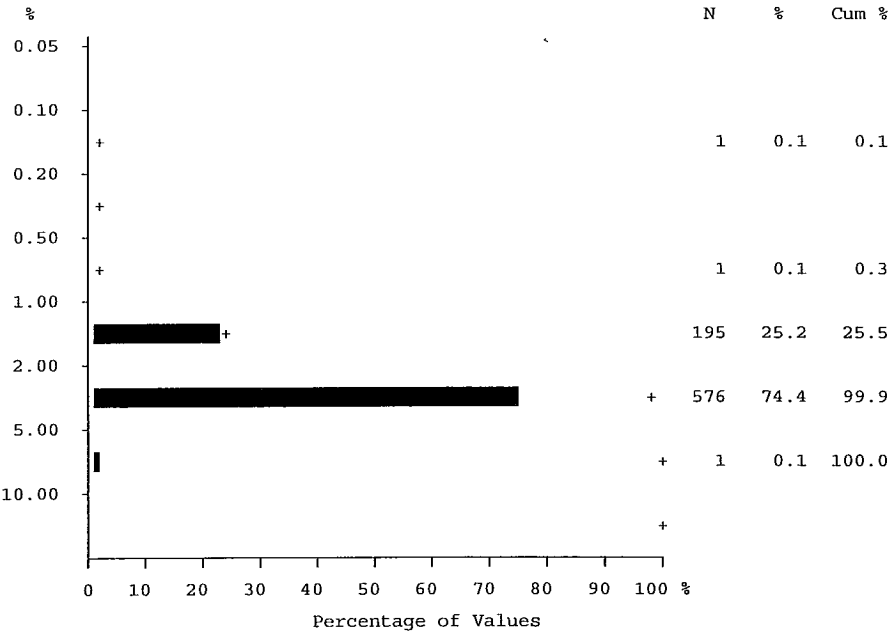
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996  
Statistics by Rock Type

Phosphorus (ICP-ES)

Number of values - 786

Determination limit - 0.001 %

	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	0	0	0	0	0	0	0	0	0
Number of missing values	12	0	0	1	3	3	2	3	0
Mean	2.440	2.944	2.699	2.137	2.322	2.619	2.389	2.658	2.535
Standard deviation	0.617	0.074	0.445	0.539	0.552	0.607	0.538	0.760	0.625
Skewness	0.891	0.000	-0.587	1.948	0.749	0.861	0.954	0.589	0.450
Kurtosis	1.586	-2.750	-1.340	5.828	0.790	0.697	1.023	1.579	-0.133
Geometric Mean	2.363	2.944	2.666	2.083	2.260	2.554	2.333	2.525	2.462
Percentiles									
Minimum value	0.113	2.892	1.977	1.408	0.880	1.512	1.157	0.113	1.428
25th	1.995	2.892	2.340	1.825	1.946	2.155	2.004	2.135	2.087
50th	2.338	2.944	2.736	1.986	2.240	2.570	2.325	2.558	2.535
75th	2.744	2.996	3.040	2.325	2.644	2.928	2.638	3.061	2.870
80th	2.875	2.996	3.122	2.519	2.734	3.022	2.700	3.175	2.997
90th	3.261	2.996	3.177	2.643	3.087	3.402	3.103	3.680	3.385
95th	3.631	2.996	3.177	3.206	3.366	3.859	3.550	4.166	3.961
98th	4.108	2.996	3.177	4.488	3.682	4.371	3.820	4.475	4.124
99th	4.378	2.996	3.177	4.540	3.920	4.504	4.146	5.264	4.124
Maximum value	5.544	2.996	3.177	4.540	4.391	4.534	4.208	5.544	4.124



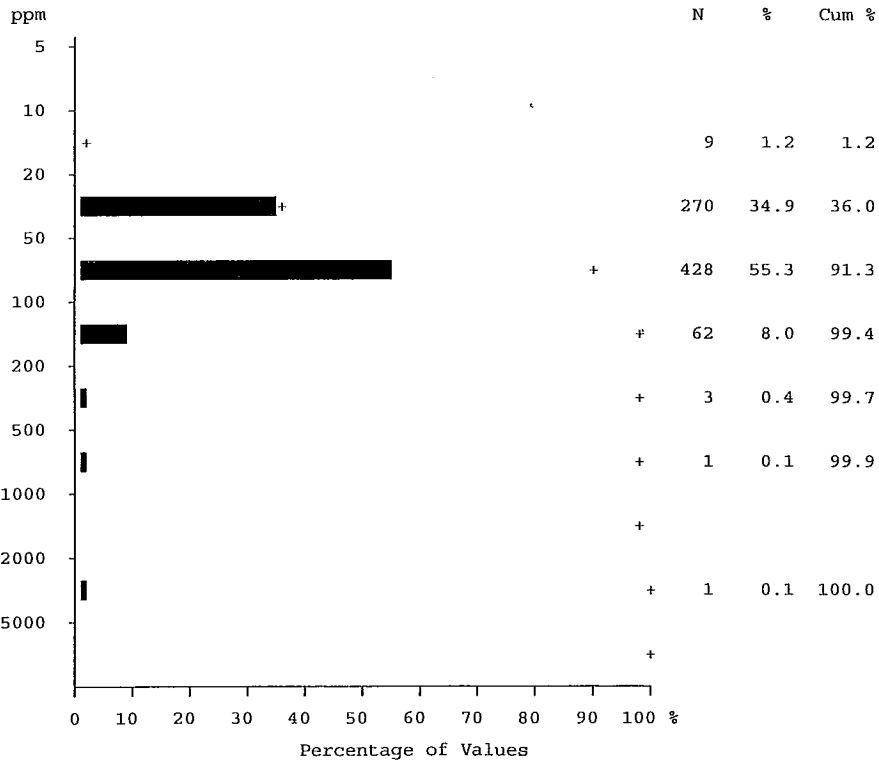
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

Statistics by Rock Type

Lead (ICP-ES)

Number of values - 786

Determination limit - 3 ppm



	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	0	0	0	0	0	0	0	0	0
Number of missing values	12	0	0	1	3	3	2	3	0
Mean	66.072	70.500	51.600	59.294	64.841	60.922	67.600	76.899	55.750
Standard deviation	84.139	21.920	10.310	27.386	57.218	24.438	30.420	182.941	26.780
Skewness	19.766	0.000	-0.220	1.425	8.700	1.481	1.796	10.794	0.908
Kurtosis	463.859	-2.750	-2.204	2.136	105.233	5.704	5.424	117.595	1.328
Geometric Mean	57.150	68.775	50.735	54.203	55.740	56.445	62.102	57.615	49.393
Percentiles									
Minimum value	11.000	55.000	40.000	23.000	15.000	11.000	24.000	13.000	13.000
25th	43.000	55.000	40.500	40.000	40.000	43.000	48.000	40.500	38.250
50th	57.000	70.500	57.000	52.000	55.000	58.000	60.000	59.000	56.500
75th	76.000	86.000	60.000	70.000	73.250	74.750	83.000	77.500	66.000
80th	81.000	86.000	61.200	79.000	81.000	78.200	89.000	83.000	66.000
90th	97.000	86.000	62.000	95.400	99.000	92.300	99.800	97.000	90.500
95th	114.500	86.000	62.000	123.000	121.600	103.650	126.400	113.000	127.500
98th	154.500	86.000	62.000	155.640	194.580	108.680	158.000	131.200	135.000
99th	195.250	86.000	62.000	157.000	258.440	171.350	187.800	1527.500	135.000
Maximum value	2120.000	86.000	62.000	157.000	810.000	196.000	234.000	2120.000	135.000

Pb

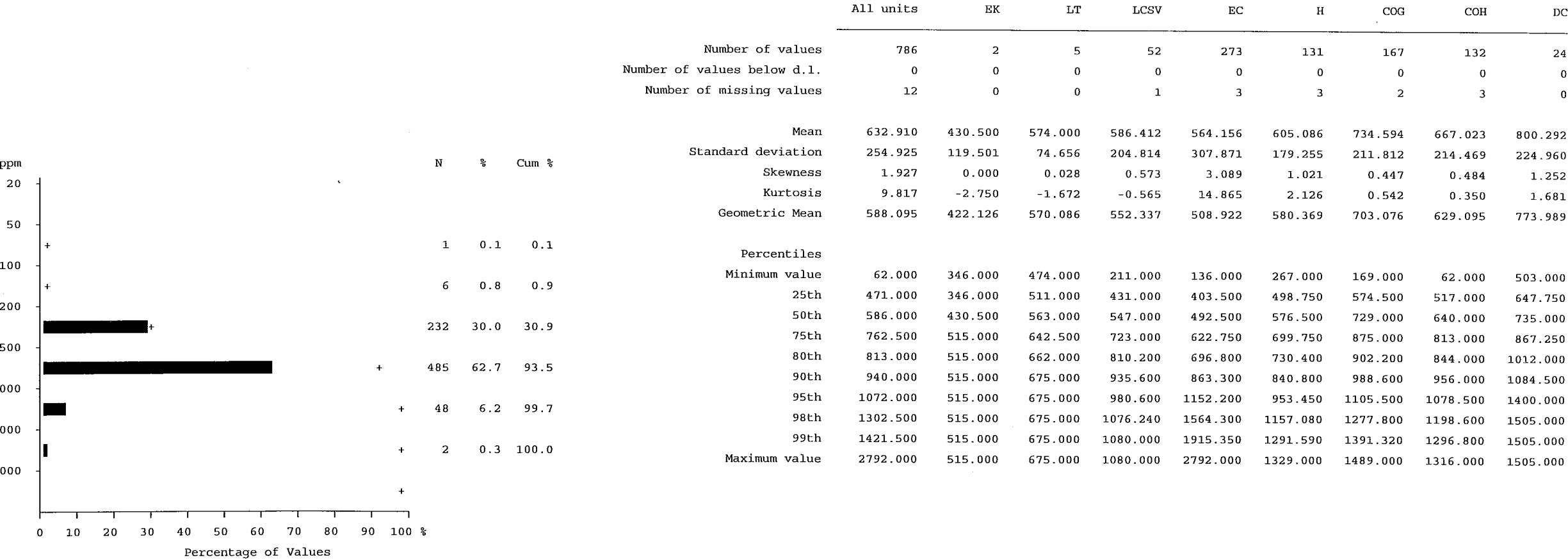
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

Statistics by Rock Type

Strontium (ICP-ES)

Number of values - 786

Determination limit - 1 ppm



Sr

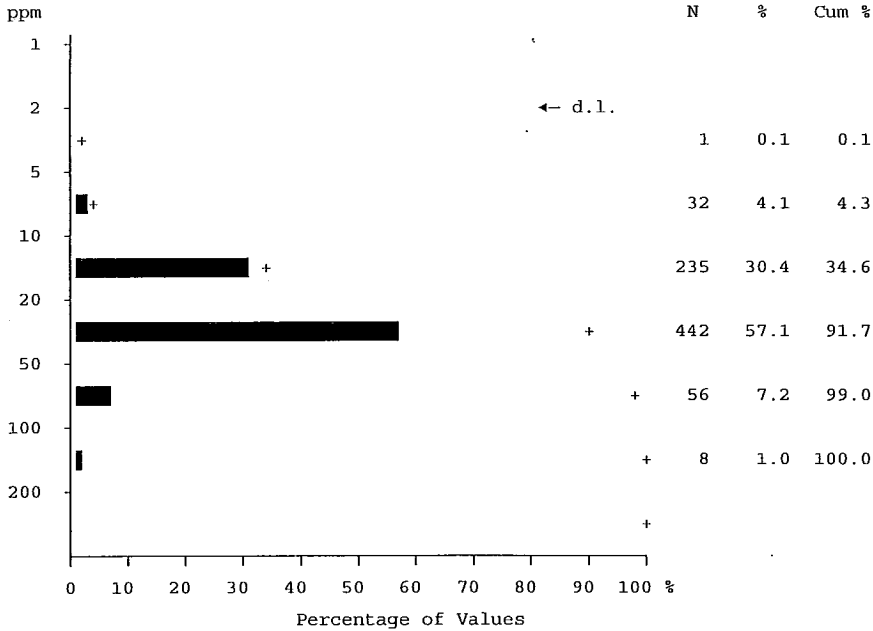
Reconnaissance Biogeochemical Survey, Central Nova Scotia - Balsam Fir Twigs; GSC Open File 3221, 1996

Statistics by Rock Type

Vanadium (ICP-ES)

Number of values - 786

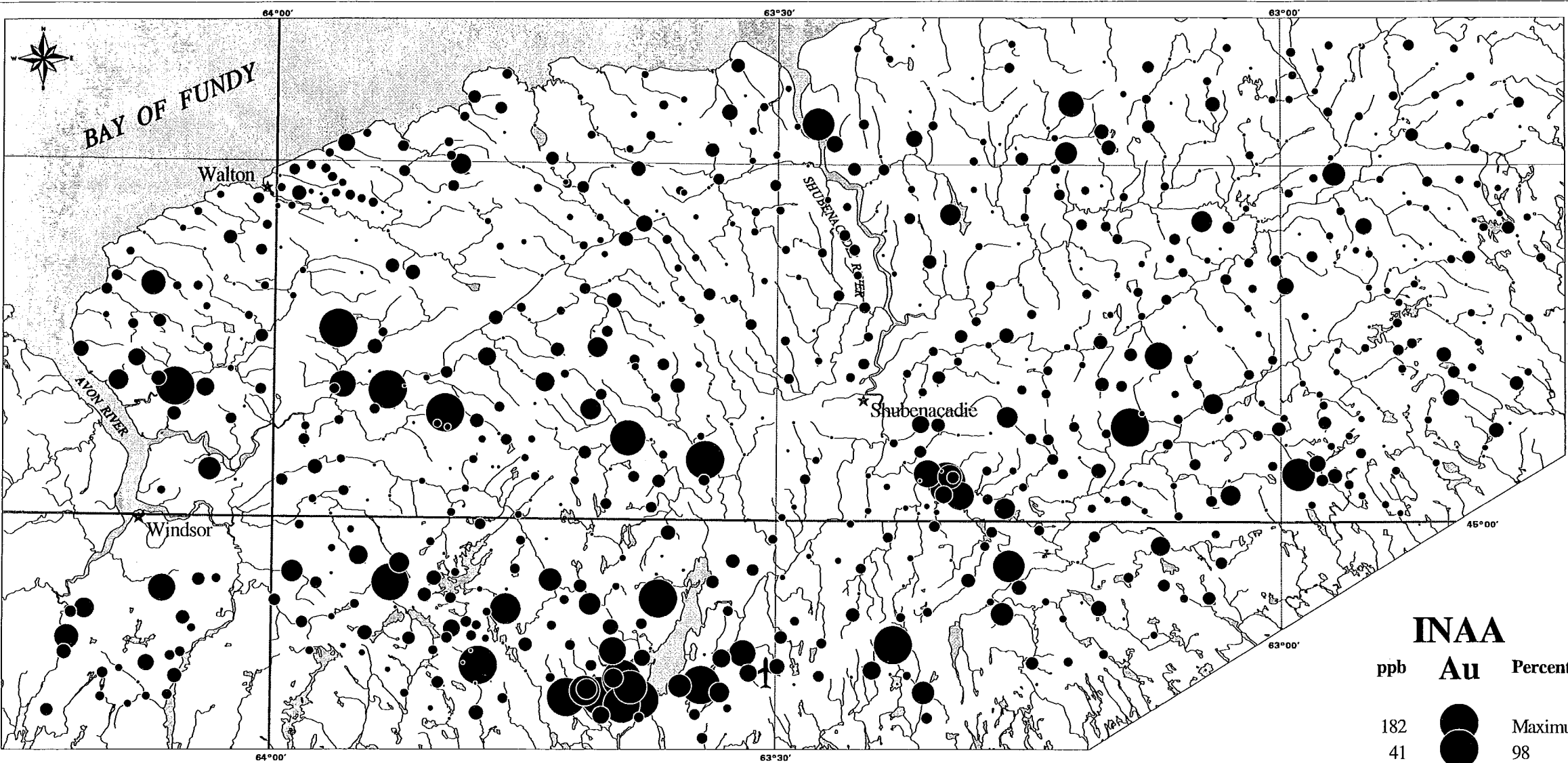
Determination limit - 2 ppm



	All units	EK	LT	LCSV	EC	H	COG	COH	DC
Number of values	786	2	5	52	273	131	167	132	24
Number of values below d.l.	0	0	0	0	0	0	0	0	0
Number of missing values	12	0	0	1	3	3	2	3	0
Mean	27.408	22.500	18.200	20.686	23.578	22.383	37.424	30.581	28.000
Standard deviation	16.604	0.707	10.545	8.787	9.978	10.454	21.659	20.483	20.515
Skewness	2.173	0.000	0.326	1.054	0.909	1.777	1.083	2.236	2.458
Kurtosis	6.712	-2.750	-1.609	1.415	1.510	5.464	0.925	6.140	6.919
Geometric Mean	23.718	22.494	15.605	19.031	21.523	20.395	31.852	25.748	23.460
Percentiles									
Minimum value	4.000	22.000	6.000	9.000	6.000	7.000	8.000	4.000	7.000
25th	17.000	22.000	9.000	14.000	17.000	15.000	21.000	18.000	16.250
50th	23.000	22.500	18.000	19.000	22.000	20.000	30.000	26.000	23.500
75th	32.000	23.000	27.500	26.000	29.000	27.000	50.500	37.000	31.750
80th	36.000	23.000	31.400	27.600	31.000	29.000	56.000	42.000	34.000
90th	47.000	23.000	34.000	32.000	36.900	34.100	69.000	50.000	50.000
95th	59.500	23.000	34.000	36.800	43.000	43.100	78.100	68.500	95.000
98th	76.500	23.000	34.000	51.440	48.160	52.040	101.080	111.400	108.000
99th	103.000	23.000	34.000	52.000	51.610	71.780	108.440	117.800	108.000
Maximum value	119.000	23.000	34.000	52.000	70.000	77.000	119.000	119.000	108.000

**APPENDIX C**  
**GSC Open File 3221**  
**Balsam Fir Twigs**  
**Central Nova Scotia**  
***ELEMENT DISTRIBUTION MAPS***





**Au**

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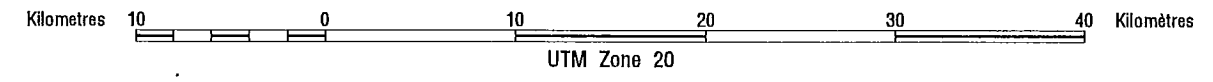
Contribution à l'Entente de coopération Canada - Nouvelle-Écosse sur l'exploitation minière (1992-1995), entente auxiliaire négociée en vertu de l'Entente Canada/Nouvelle-Écosse de développement économique et régional.

Nova Scotia

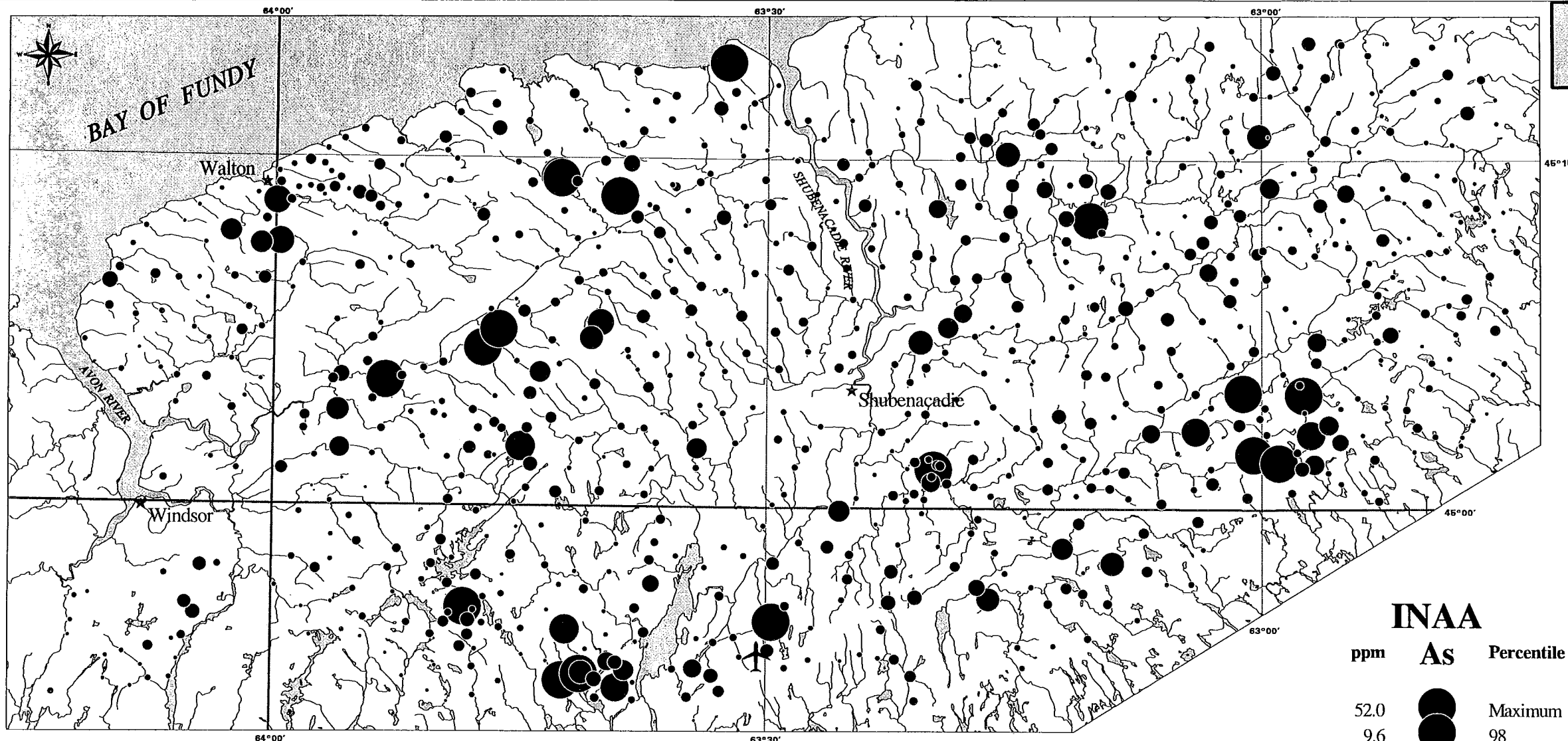
Province of Nova Scotia

# GOLD in BALSAM FIR TWIGS

Scale 1:400 000 - Échelle 1/400 000



INAA		
ppb	Au	Percentile
182		Maximum
41		98
24		95
17		90
11		75
8		50
5		Minimum
786 Samples		
Exponent = 1		



As

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Canada

Nova Scotia  
Province of  
Nova Scotia

# ARSENIC in BALSAM FIR TWIGS

Scale 1:400 000 - Échelle 1/400 000

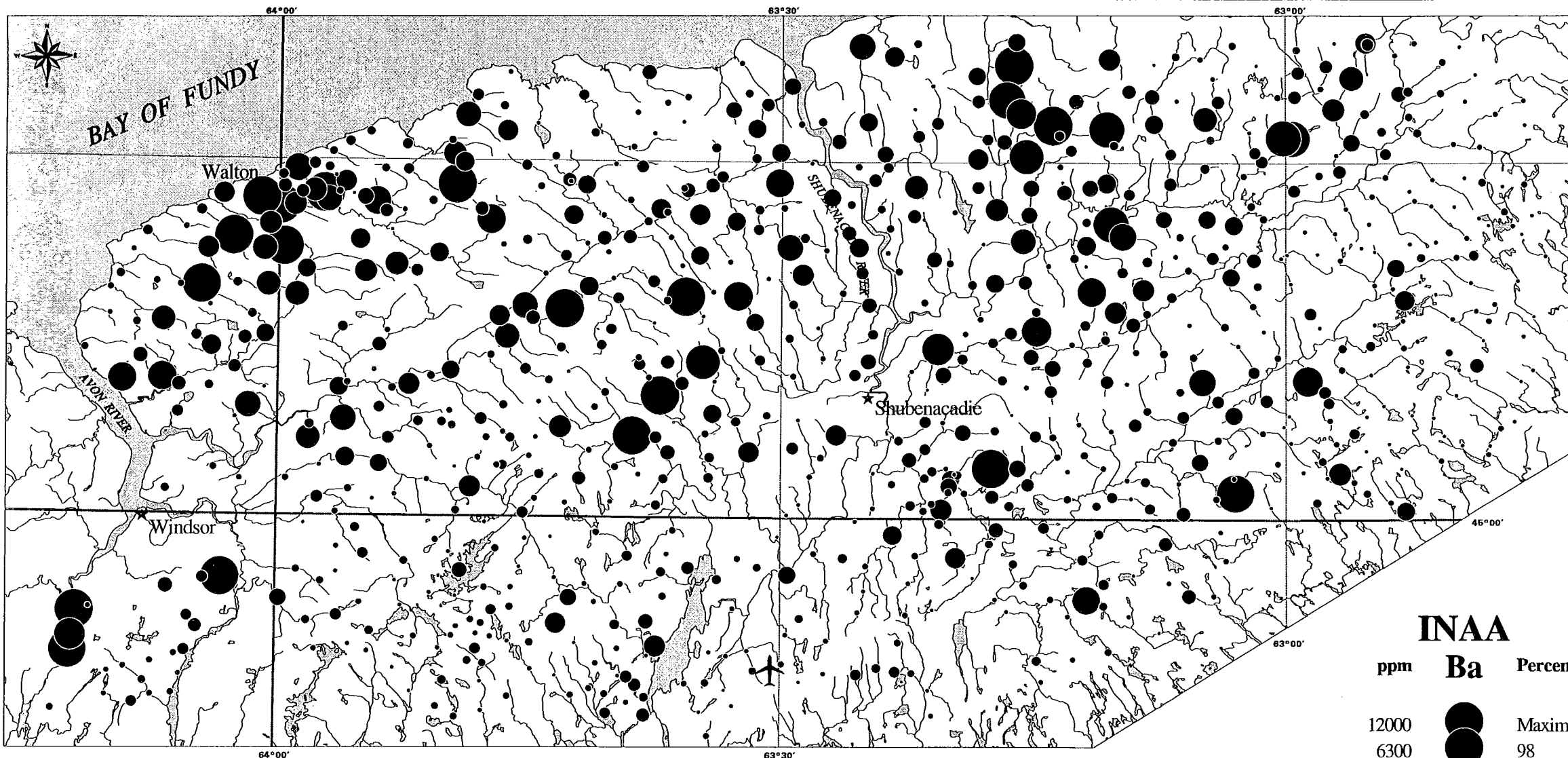
Kilometres 10 0 10 20 30 40 Kilomètres  
UTM Zone 20

INAA

ppm	As	Percentile
52.0		Maximum
9.6		98
6.8		95
5.5		90
4.3		75
3.3		50
<0.5		Minimum

786 Samples

Exponent = 2



**Ba**

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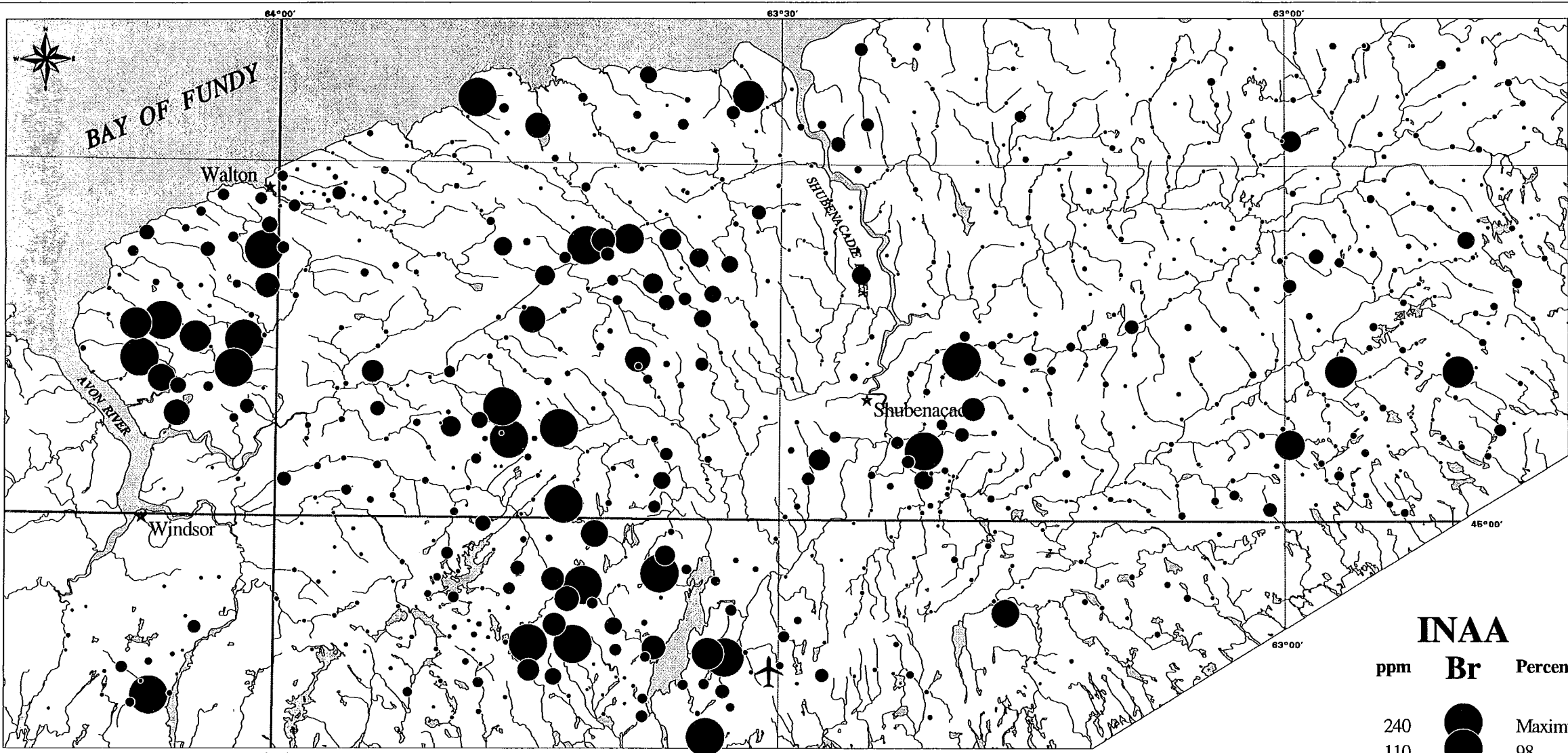
Canada Nova Scotia Province of Nova Scotia

# **BARIUM** in **BALSAM FIR TWIGS**

Scale 1:400 000 - Échelle 1/400 000



INAA		
ppm	Ba	Percentile
12000		Maximum
6300		98
5200		95
4500		90
3400		75
2500		50
330		Minimum
786 Samples		
Exponent = 2		



**Br**

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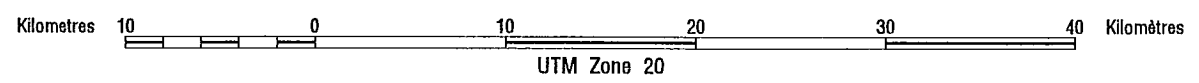
Contribution à l'Entente de coopération Canada-Nouvelle-Écosse sur l'exploitation minière (1992-1995), entente subsidiaire négociée en vertu de l'Entente Canada-Nouvelle-Écosse de développement économique et régional.

Canada

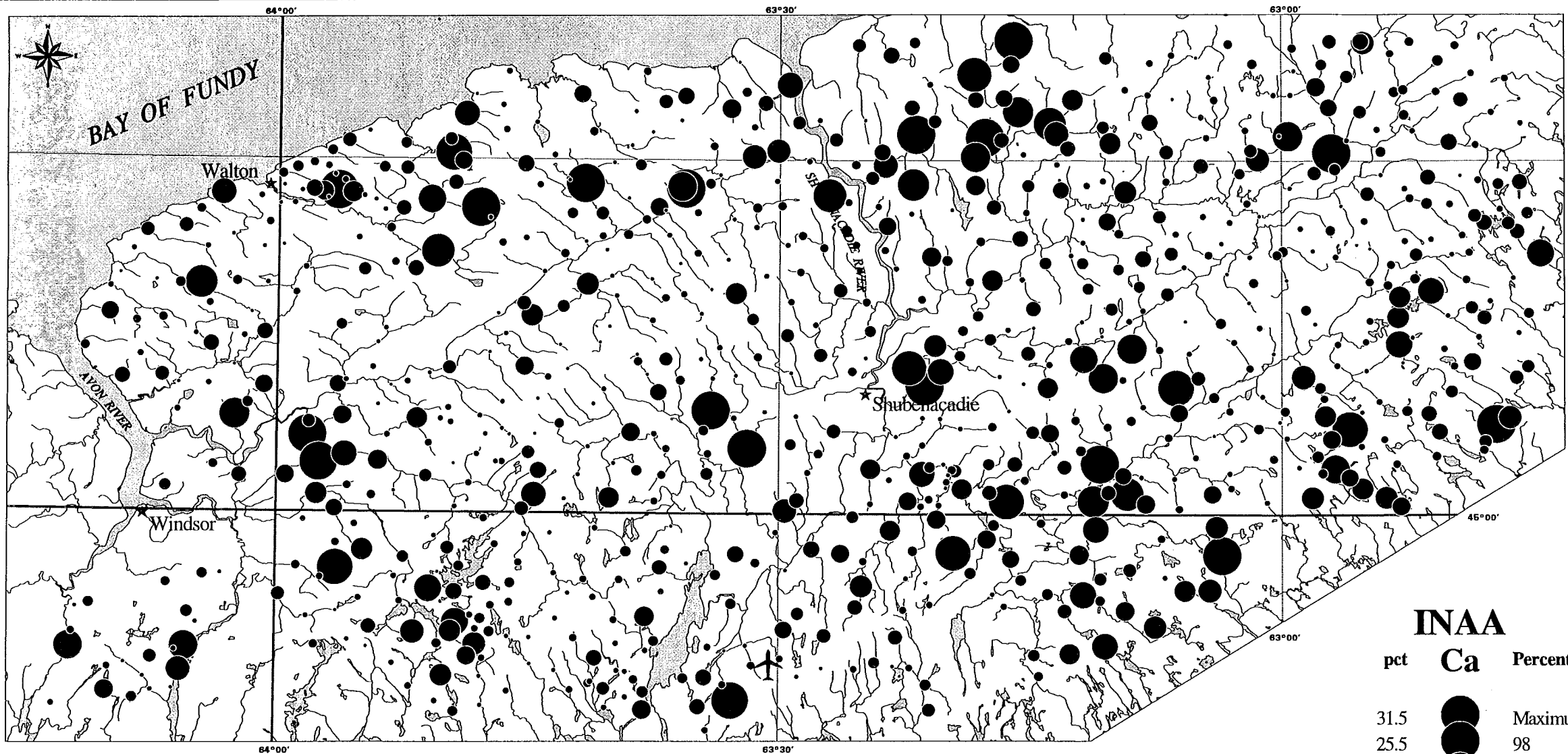
Nova Scotia Province of Nova Scotia

# BROMINE in BALSAM FIR TWIGS

Scale 1:400 000 - Échelle 1/400 000



INAA		
ppm	Br	Percentile
240		Maximum
110		98
87		95
66		90
45		75
33		50
13		Minimum
786 Samples		
Exponent = 2		



**Ca**

# **CALCIUM** in **BALSAM FIR TWIGS**

Scale 1:400 000 - Échelle 1/400 000



## **INAA**

pct	Ca	Percentile
31.5		Maximum
25.5		98
24.2		95
23.0		90
21.0		75
18.7		50
7.9		Minimum

786 Samples

Exponent = 4

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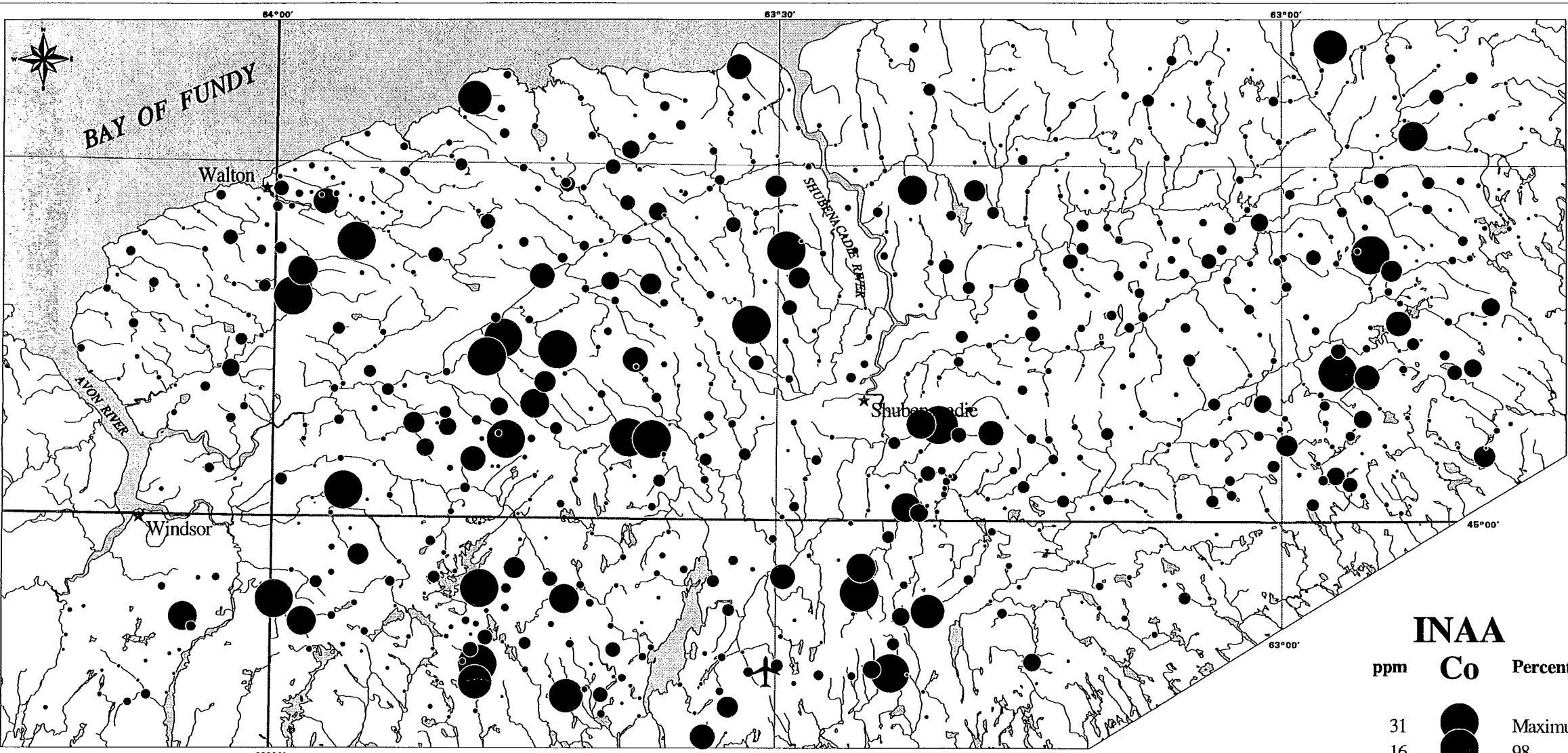
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Canada

Nova Scotia  
Province of  
Nova Scotia



**Co**

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Canada Nova Scotia Province of Nova Scotia

# COBALT in BALSAM FIR TWIGS

Scale 1:400 000 - Échelle 1/400 000

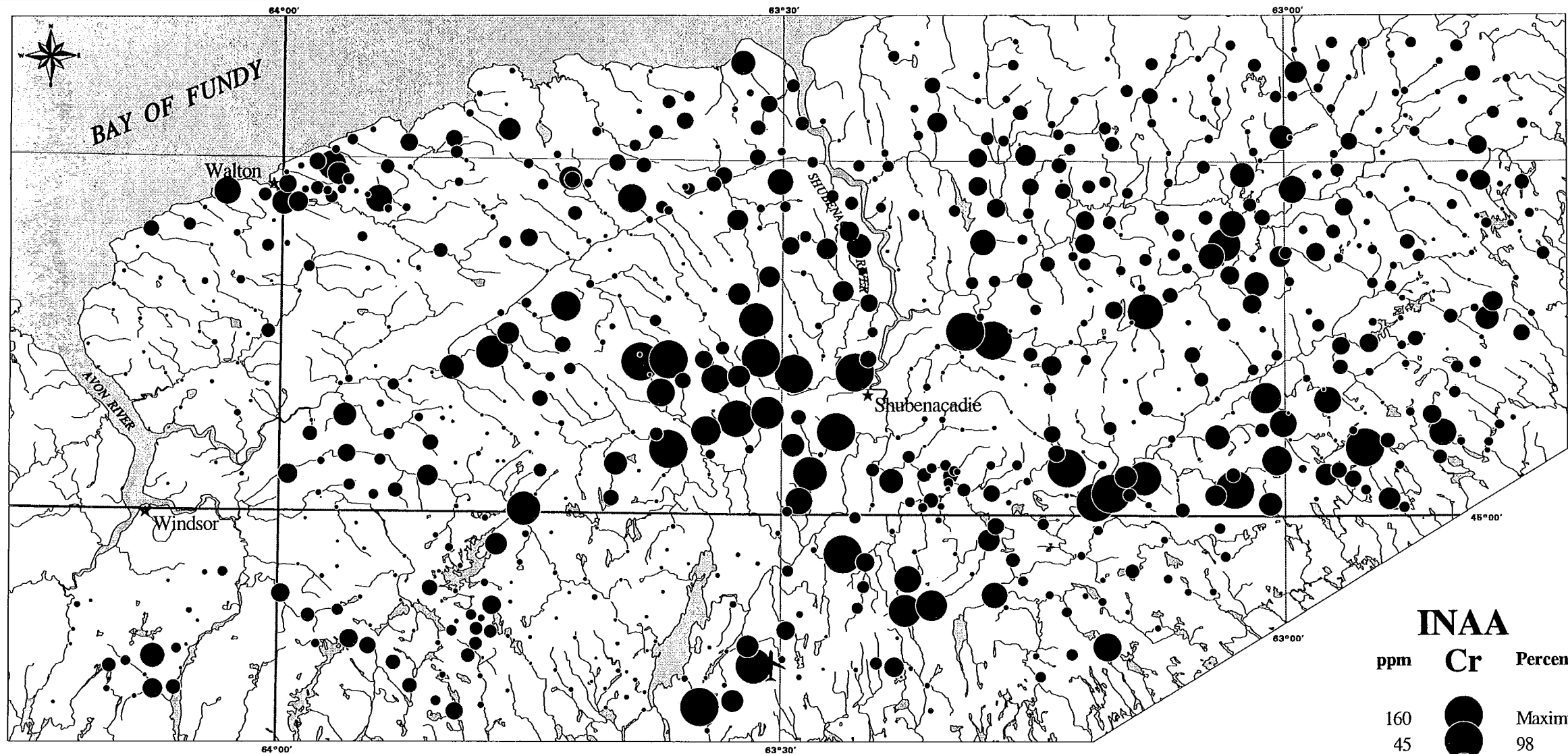


**INAA**

ppm	Co	Percentile
31		Maximum
16		98
13		95
10		90
8		75
5		50
2		Minimum

786 Samples  
Exponent = 2





**Cr**

# **CHROMIUM** in **BALSAM FIR TWIGS**

Scale 1:400 000 - Échelle 1/400 000



INAA		
ppm	Cr	Percentile
160		Maximum
45		98
37		95
33		90
25		75
17		50
<1		Minimum
786 Samples		
Exponent = 2		

COOPERATION

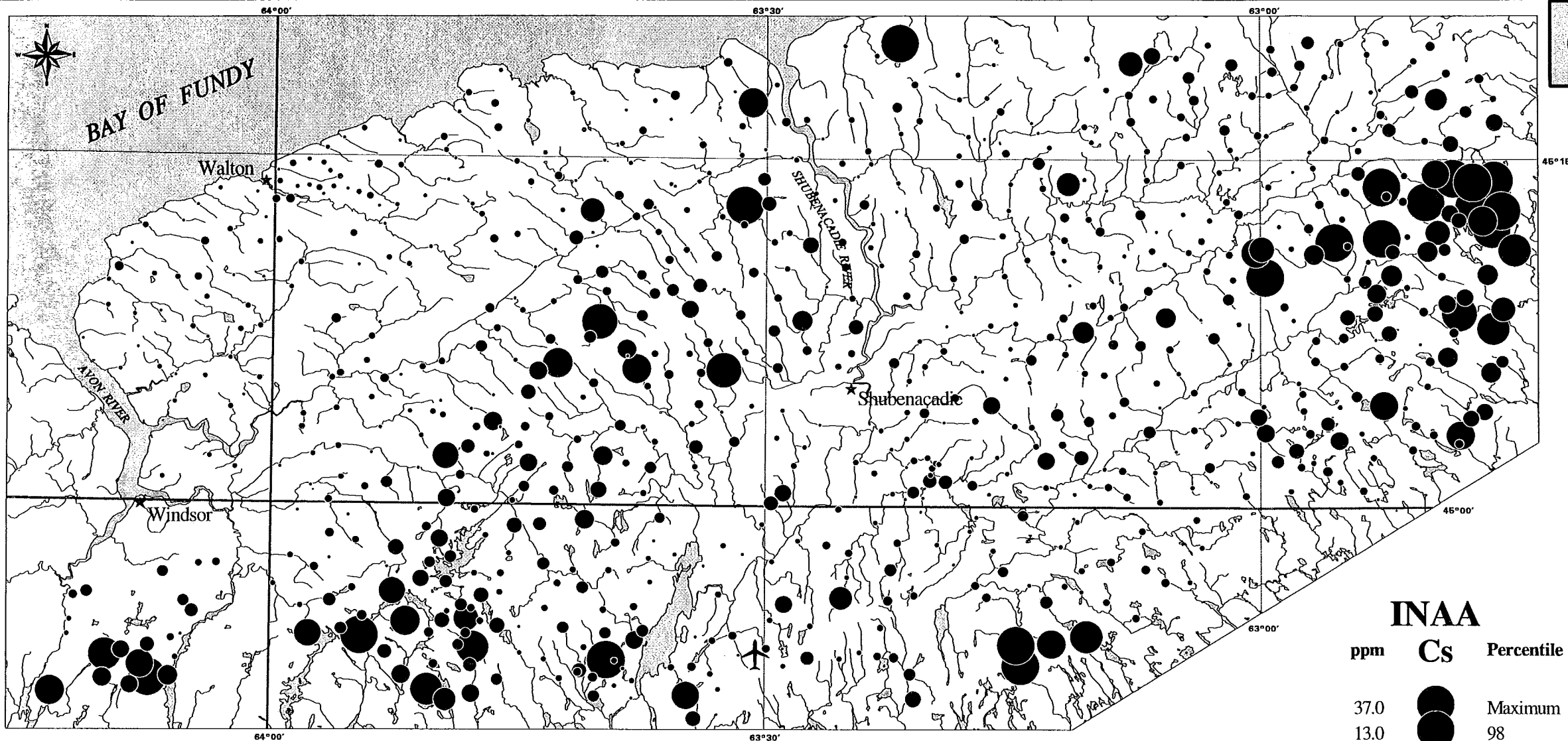
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Nova Scotia



Cs

# INAA

ppm	Cs	Percentile
37.0		Maximum
13.0		98
9.3		95
5.5		90
2.7		75
1.5		50
<0.5		Minimum

786 Samples

Exponent = 1

## CESIUM in BALSAM FIR TWIGS

Scale 1:400 000 - Échelle 1/400 000



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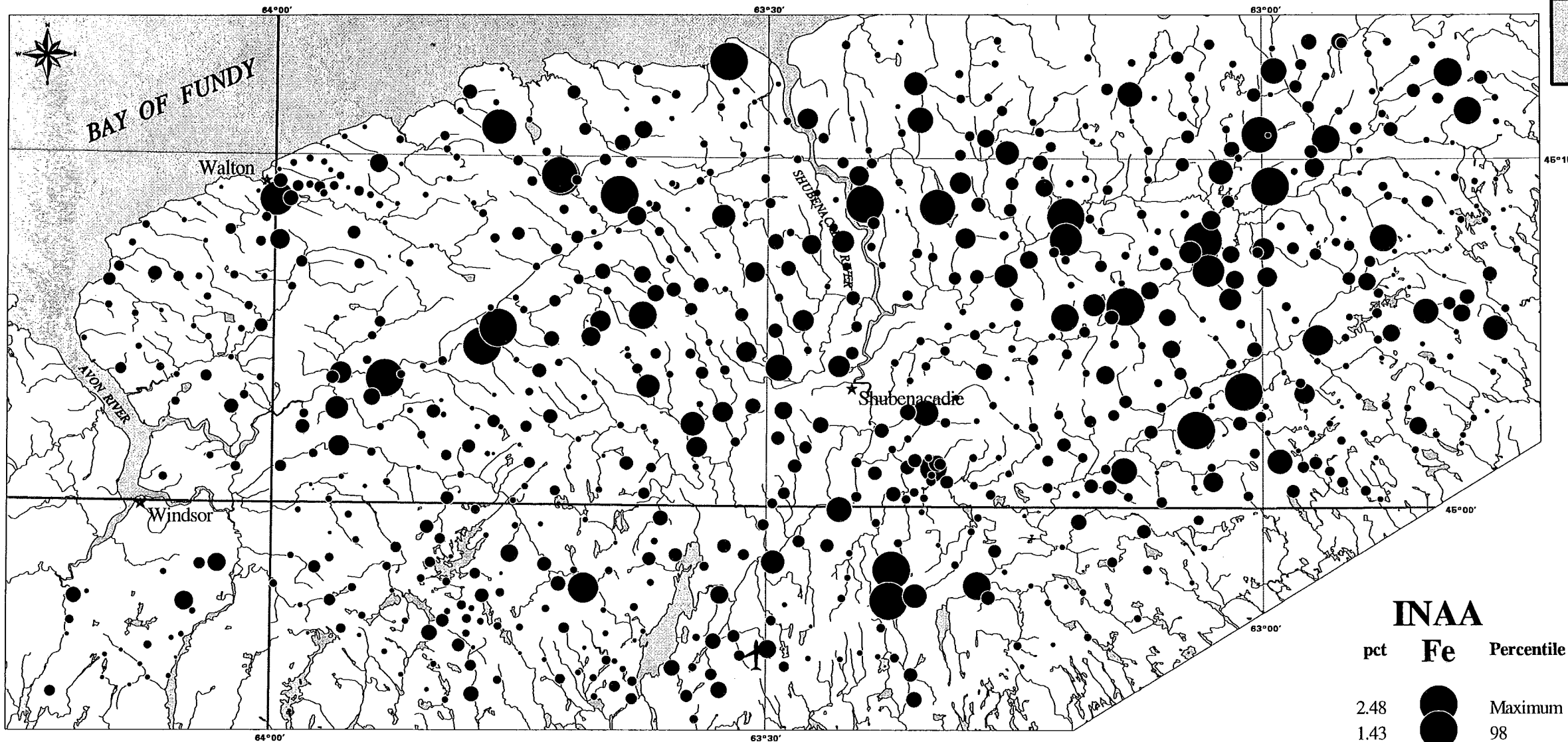
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Nova Scotia





Fe

## INAA

pct	Fe	Percentile
2.48		Maximum
1.43		98
0.96		95
0.72		90
0.47		75
0.32		50
0.12		Minimum

786 Samples

Exponent = 1

# IRON in BALSAM FIR TWIGS

Scale 1:400 000 - Échelle 1/400 000



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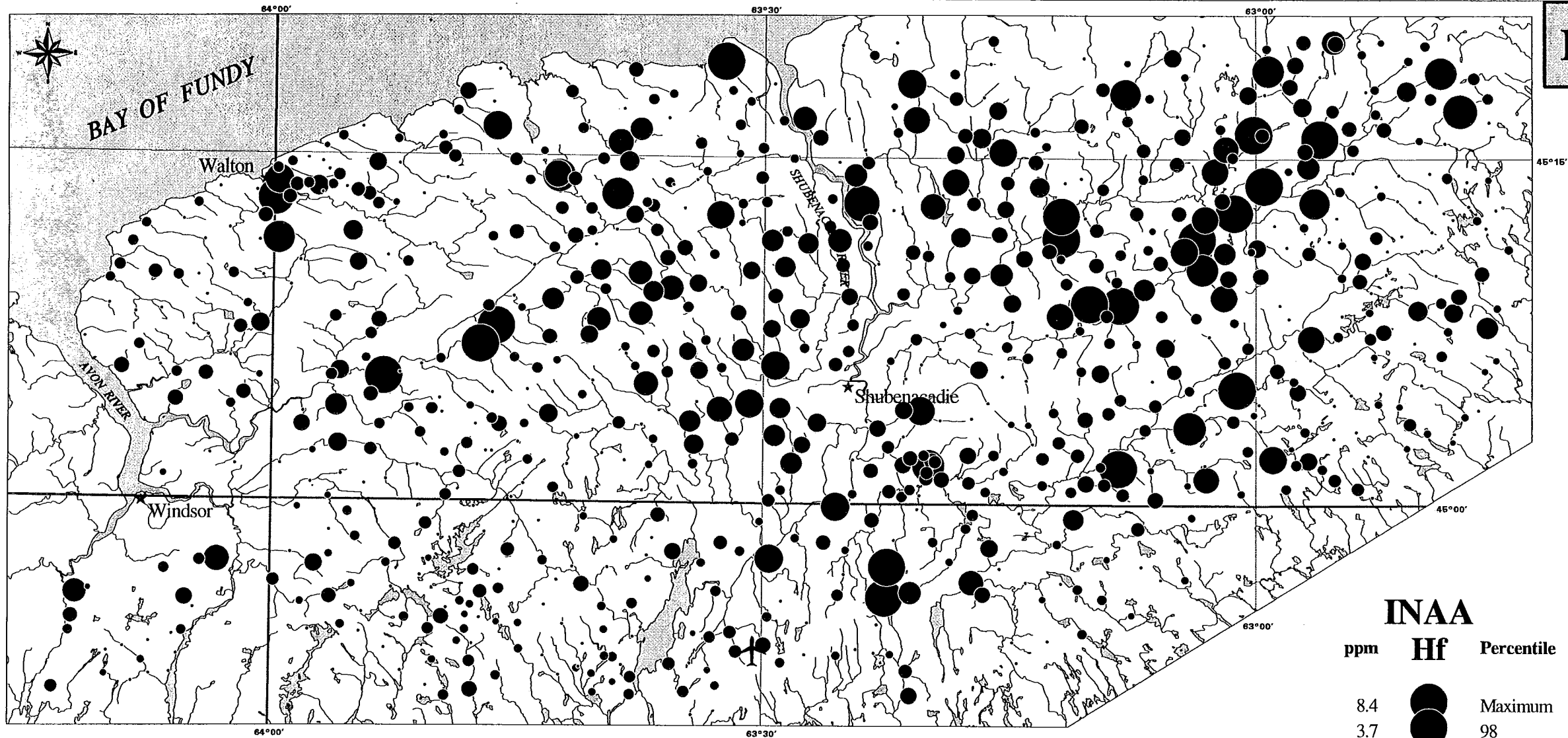
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Province of  
Nova Scotia



**Hf**

# **HAFNIUM** in **BALSAM FIR TWIGS**

Scale 1:400 000 - Échelle 1/400 000



INAA		
ppm	Hf	Percentile
8.4		Maximum
3.7		98
2.7		95
2.1		90
1.4		75
0.9		50
<0.5		Minimum

786 Samples  
Exponent = 1

COOPERATION

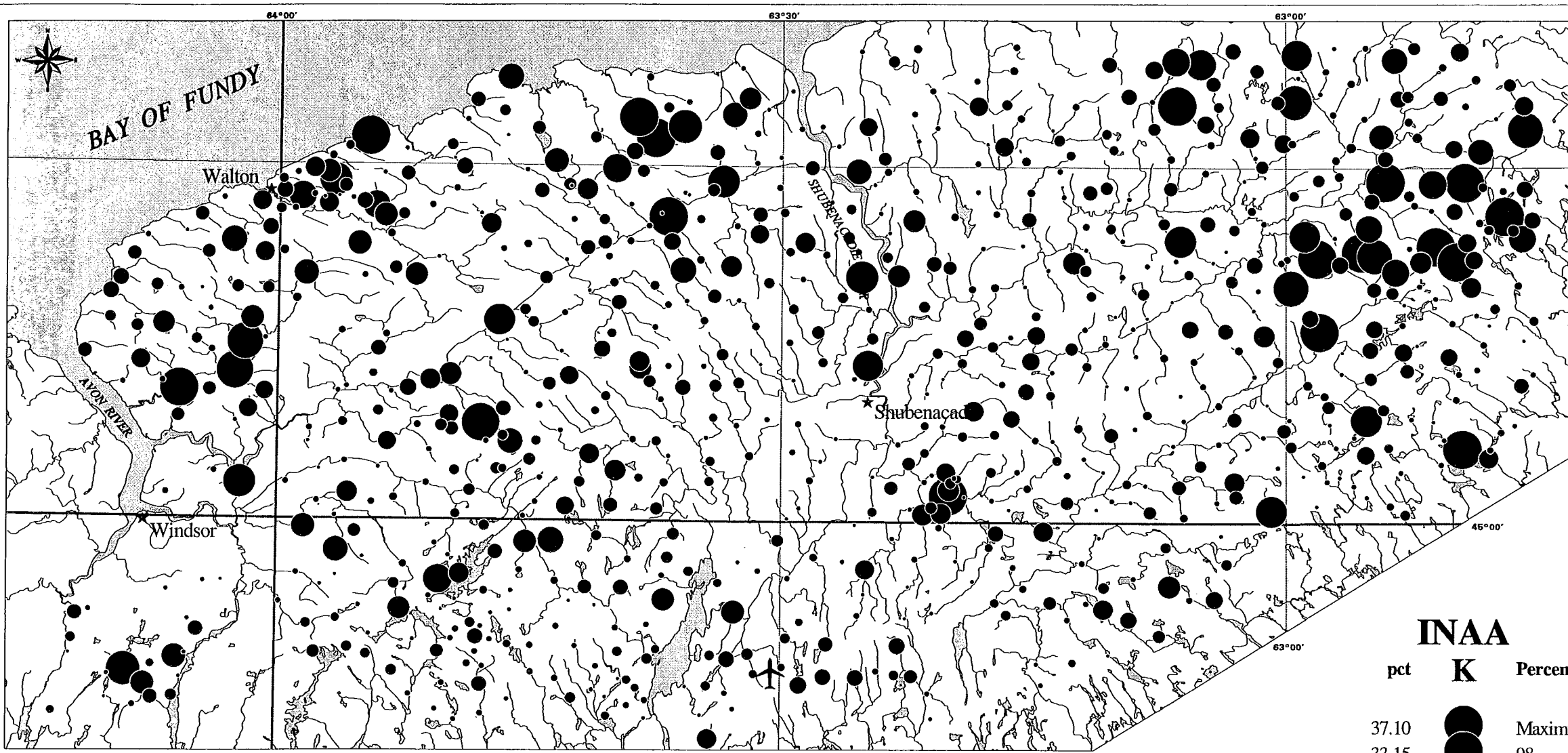
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Mineral Development (1992-1995) a subsidiary agreement under the  
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Canada

Nova Scotia  
Province of  
Nova Scotia



**K**

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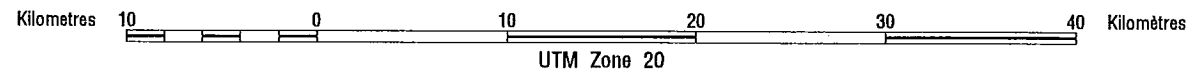
Contribution à l'Entente de coopération Canada-Nouvelle-Écosse sur l'exploitation minière (1992-1995), entente auxiliaire négociée en vertu de l'Entente Canada-Nouvelle-Écosse de développement économique et régional.

Canada

Nova Scotia Province of Nova Scotia

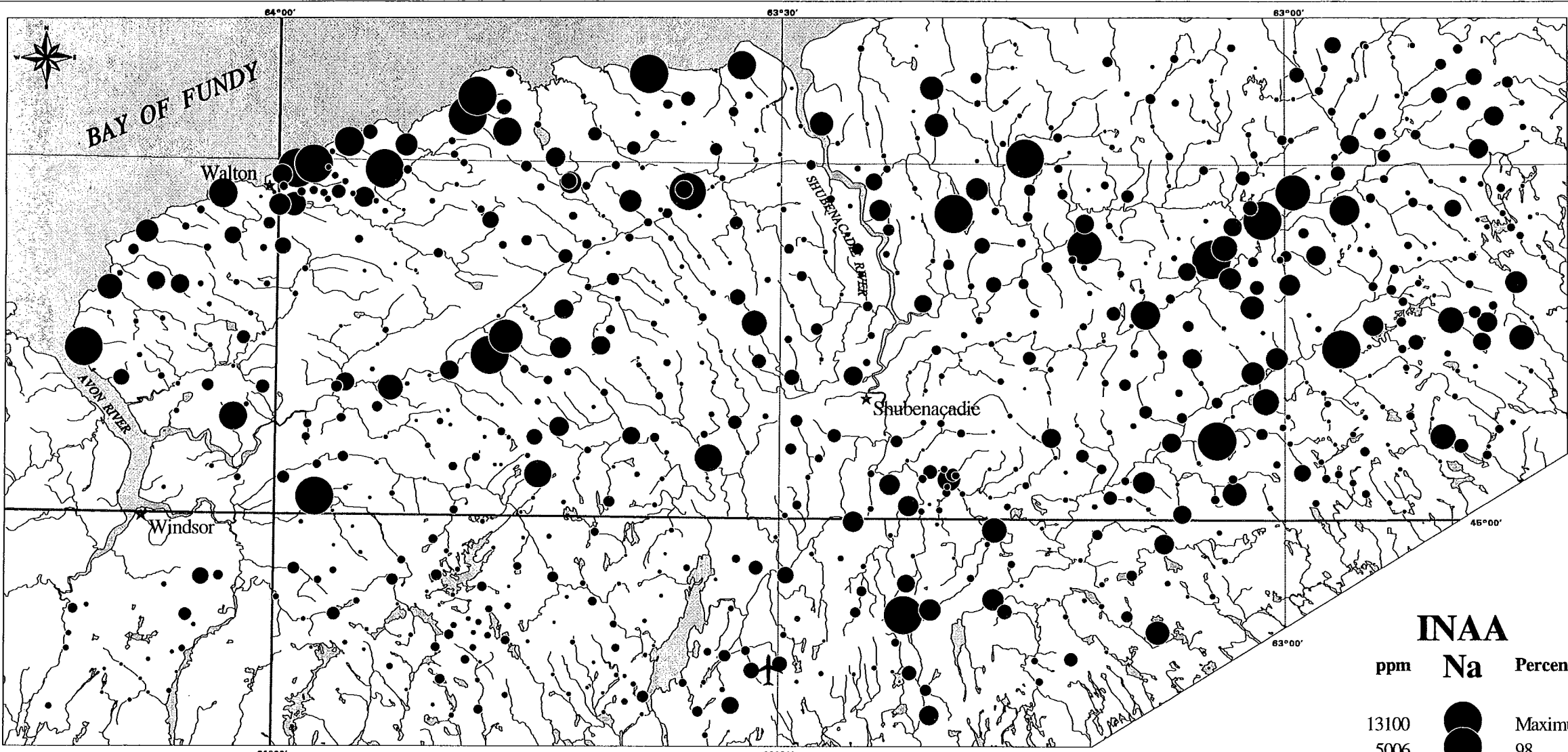
# POTASSIUM in BALSAM FIR TWIGS

Scale 1:400 000 - Échelle 1/400 000



INAA		
pct	K	Percentile
37.10		Maximum
33.15		98
30.97		95
29.23		90
26.60		75
23.60		50
13.10		Minimum

786 Samples  
Exponent = 3



**Na**

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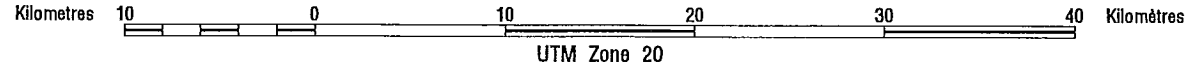
Contribution à l'Entente de coopération Canada-Nouvelle-Écosse sur l'exploitation minière (1992-1995), entente auxiliaire négociée en vertu de l'Entente Canada/Nouvelle-Écosse de développement économique et régional.

**Canada**

Nova Scotia  
Province of Nova Scotia

# SODIUM in BALSAM FIR TWIGS

Scale 1:400 000 - Échelle 1/400 000

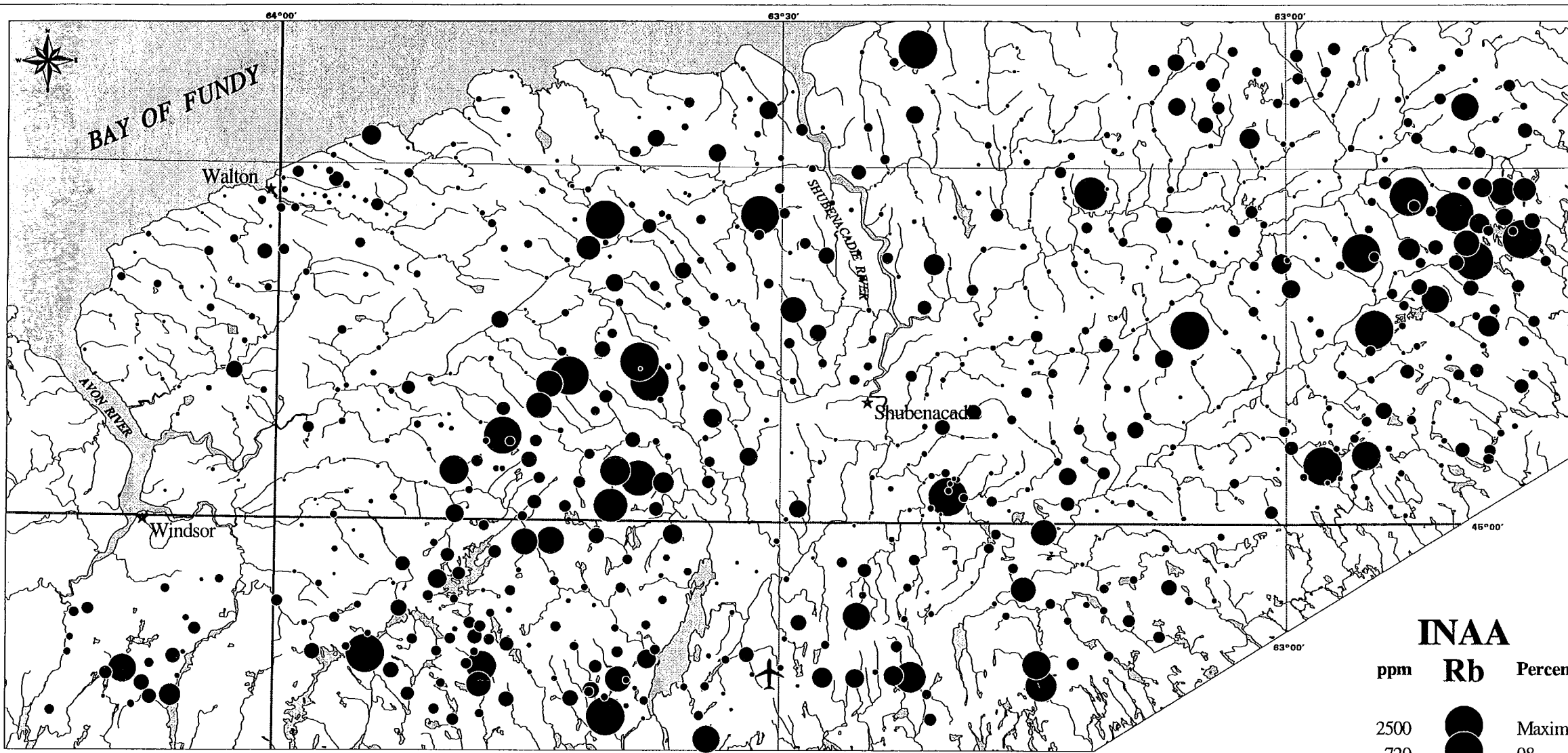


**INAA**

ppm	Na	Percentile
13100		Maximum
5006		98
3967		95
3590		90
2580		75
1945		50
620		Minimum

786 Samples

Exponent = 2



**Rb**

COOPERATION

COOPERATION  
AGREEMENT ON  
MINERAL DEVELOPMENT

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Mineral Development (1992-1995) a subsidiary agreement under the  
Economic and Regional Development Agreement.

ENTENTE DE  
COOPÉRATION SUR  
L'EXPLOITATION MINÉRALE

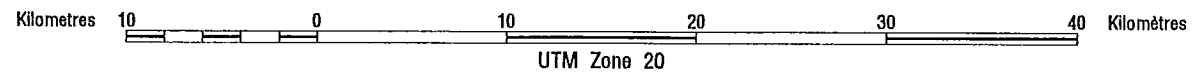
Contribution à l'Entente de coopération Canada-Nouvelle-Écosse  
sur l'exploitation minière (1992-1995), entente auxiliaire négociée  
en vertu de l'Entente Canada/Nouvelle-Écosse de développement  
économique et régional.

Canada

Nova Scotia  
Province of  
Nova Scotia

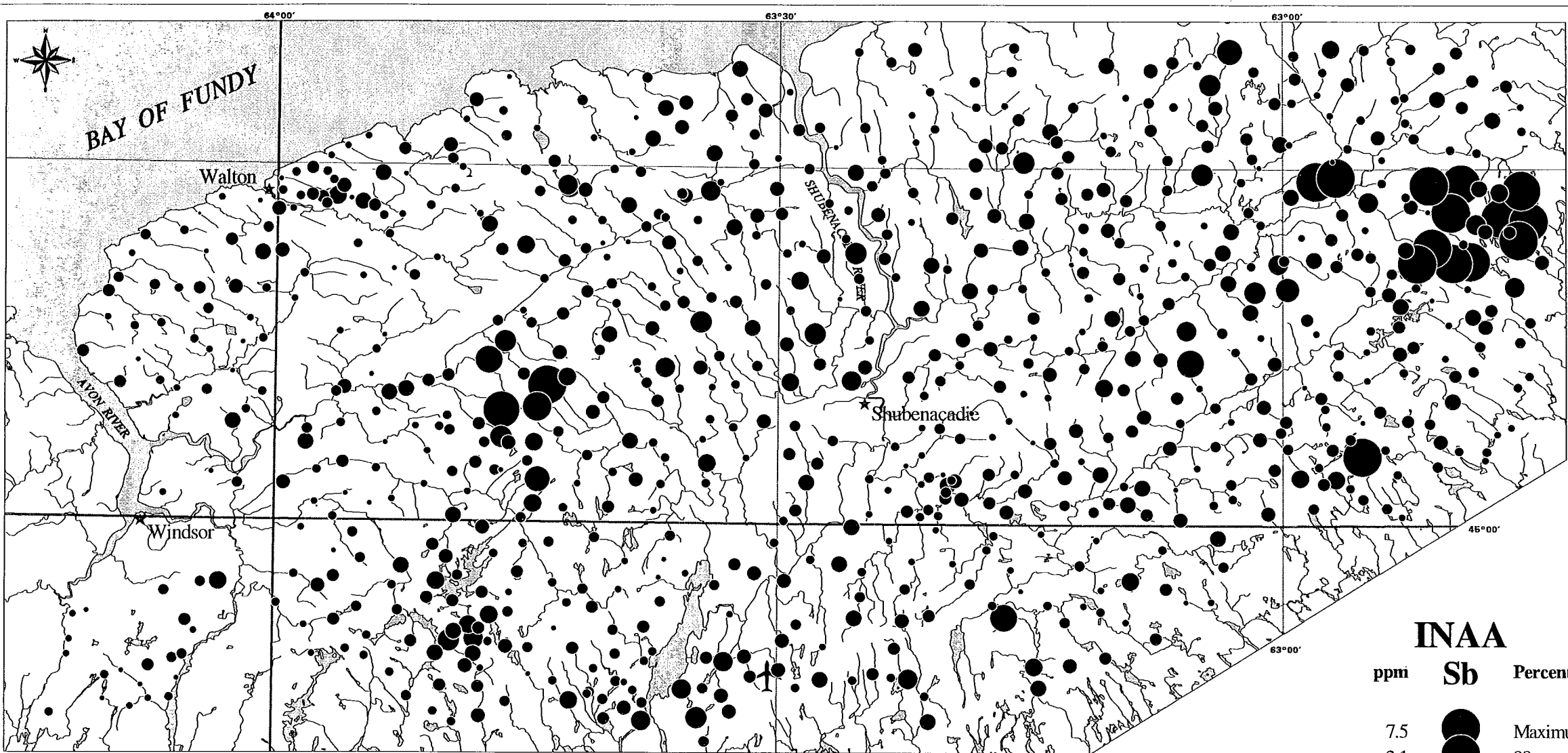
# RUBIDIUM in BALSAM FIR TWIGS

Scale 1:400 000 - Échelle 1/400 000



INAA		
ppm	Rb	Percentile
2500		Maximum
720		98
580		95
460		90
340		75
250		50
31		Minimum

786 Samples  
Exponent = 2



**Sb**

**COOPERATION**

COOPERATION AGREEMENT ON MINERAL DEVELOPMENT

ENTENTE DE COOPÉRATION SUR L'EXPLOITATION MINÉRALE

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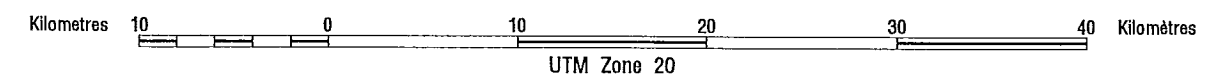
Contribution à l'Entente de coopération Canada-Nouvelle-Écosse sur l'exploitation minière (1992-1995), entente auxiliaire négociée en vertu de l'Entente Canada/Nouvelle-Écosse de développement économique et régional.

Canada

Nova Scotia Province of Nova Scotia

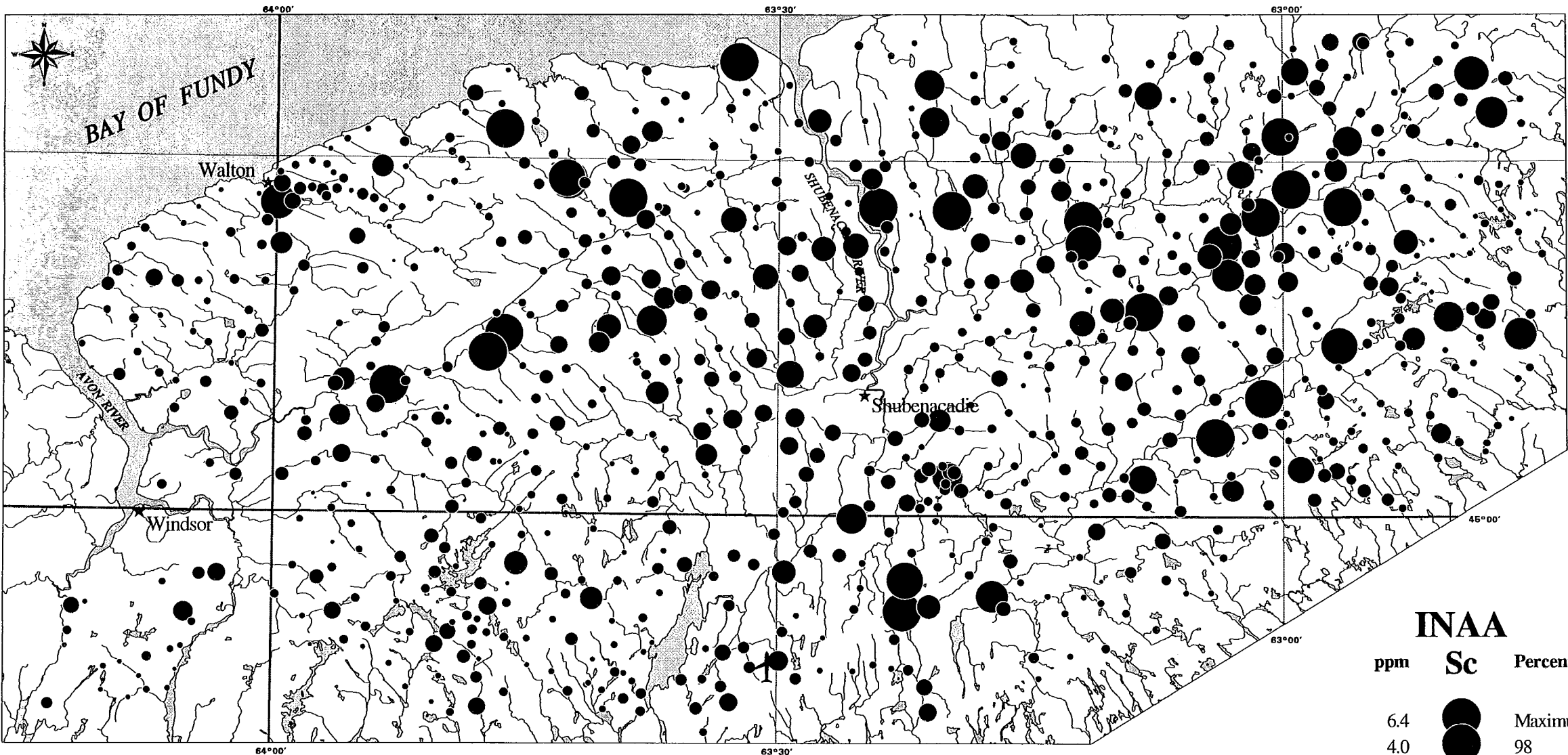
# ANTIMONY in BALSAM FIR TWIGS

Scale 1:400 000 - Échelle 1/400 000



INAA		
ppm	Sb	Percentile
7.5		Maximum
2.1		98
1.1		95
0.9		90
0.8		75
0.6		50
0.2		Minimum
786 Samples		
Exponent = 1		





Sc

COOPERATION

COOPERATION  
AGREEMENT ON  
MINERAL DEVELOPMENT

ENTENTE DE  
COOPÉRATION SUR  
L'EXPLOITATION MINÉRALE

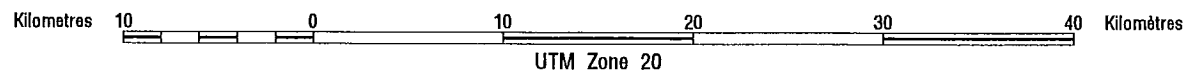
Contribution to Canada-Nova Scotia Cooperation Agreement on Mineral Development (1992 - 1995) a subsidiary agreement under the Economic and Regional Development Agreement.

Contribution à l'Entente de coopération Canada - Nouvelle-Écosse sur l'exploitation minière (1992 - 1995), entente auxiliaire négociée en vertu de l'Entente Canada/Nouvelle-Écosse de développement économique et régional.

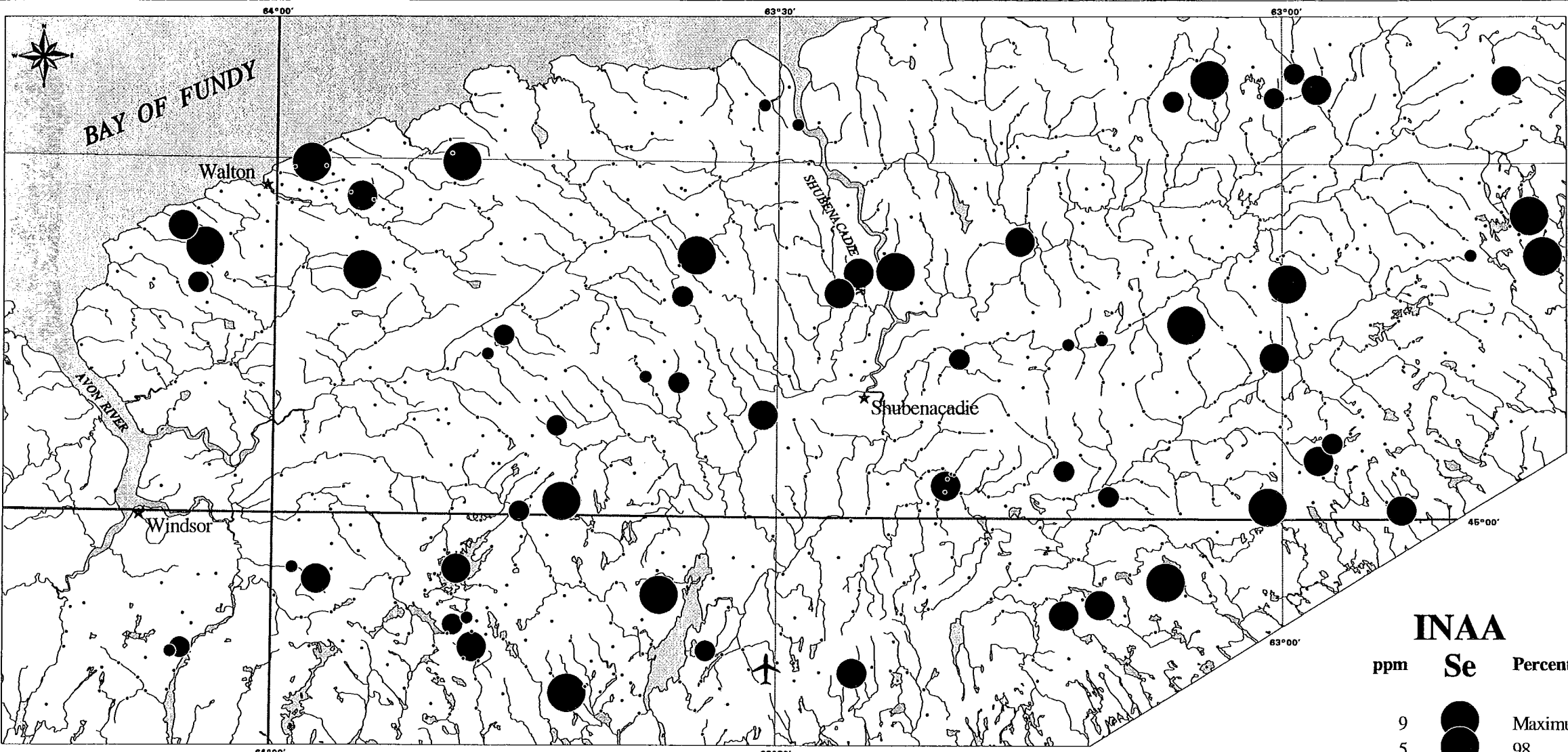
Nova Scotia  
Province of  
Nova Scotia

# SCANDIUM in BALSAM FIR TWIGS

Scale 1:400 000 - Échelle 1/400 000



INAA		
ppm	Sc	Percentile
6.4		Maximum
4.0		98
2.8		95
2.1		90
1.3		75
0.9		50
0.2		Minimum
786 Samples		
Exponent = 1		



Se

**COOPERATION**

COOPERATION AGREEMENT ON MINERAL DEVELOPMENT

ENTENTE DE COOPÉRATION SUR L'EXPLOITATION MINÉRALE

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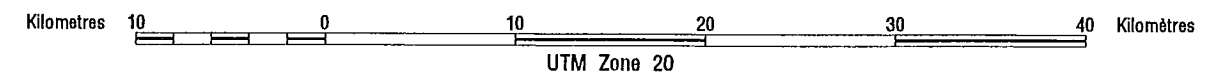
Canada

Nova Scotia

Province of Nova Scotia

# SELENIUM in BALSAM FIR TWIGS

Scale 1:400 000 - Échelle 1/400 000

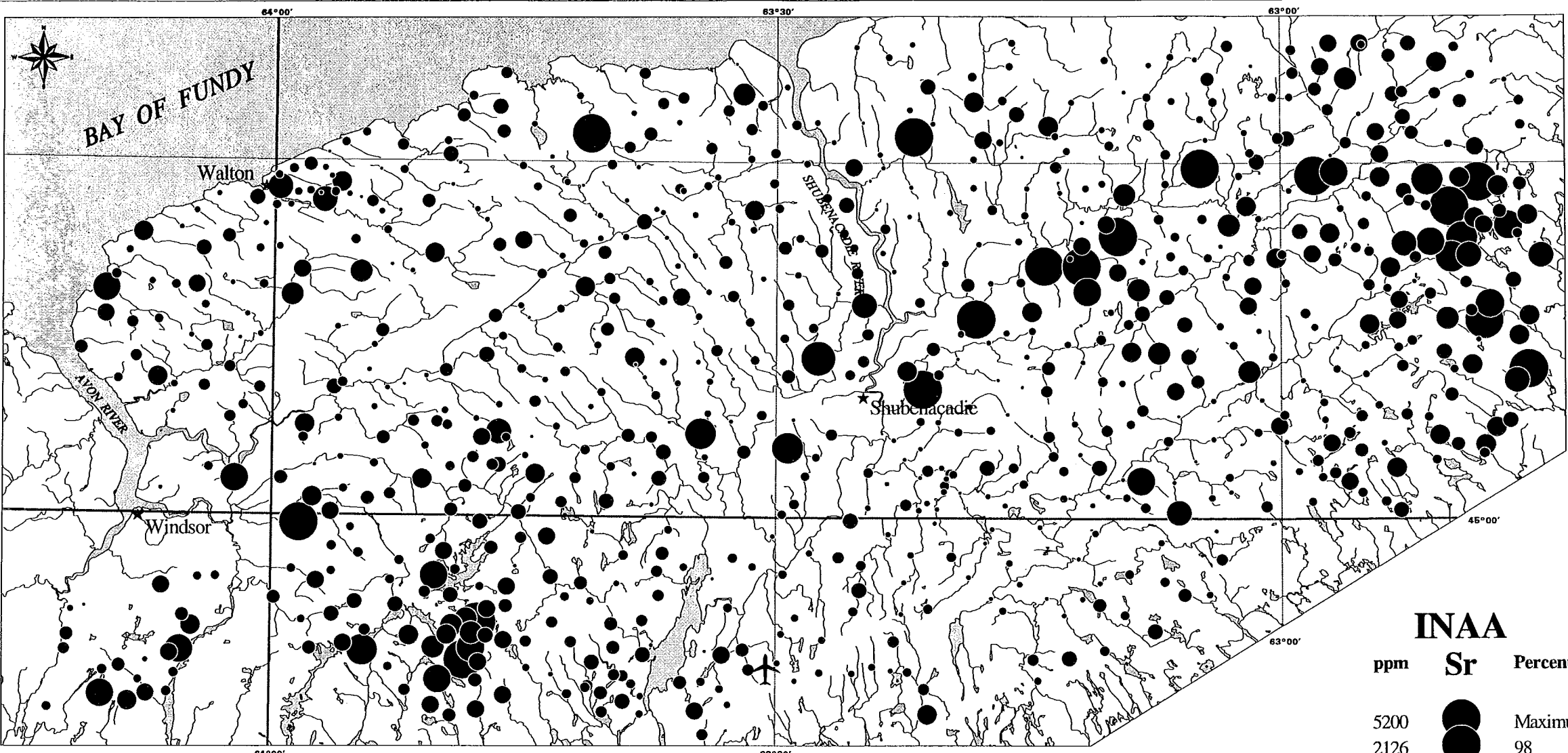


INAA		
ppm	Se	Percentile
9		Maximum
5		98
3		95
<2	.	90
<2	.	75
<2	.	50
<2	.	Minimum

786 Samples

Exponent = 1

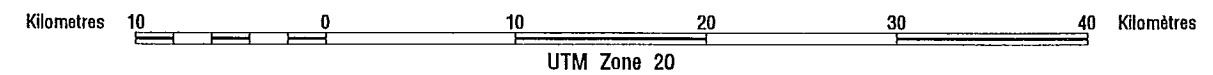




**Sr**

# **STRONTIUM** in **BALSAM FIR TWIGS**

Scale 1:400 000 - Échelle 1/400 000



INAA		
ppm	Sr	Percentile
5200		Maximum
2126		98
1700		95
1500		90
1200		75
980		50
<300		Minimum
786 Samples		
Exponent = 2		

COOPERATION

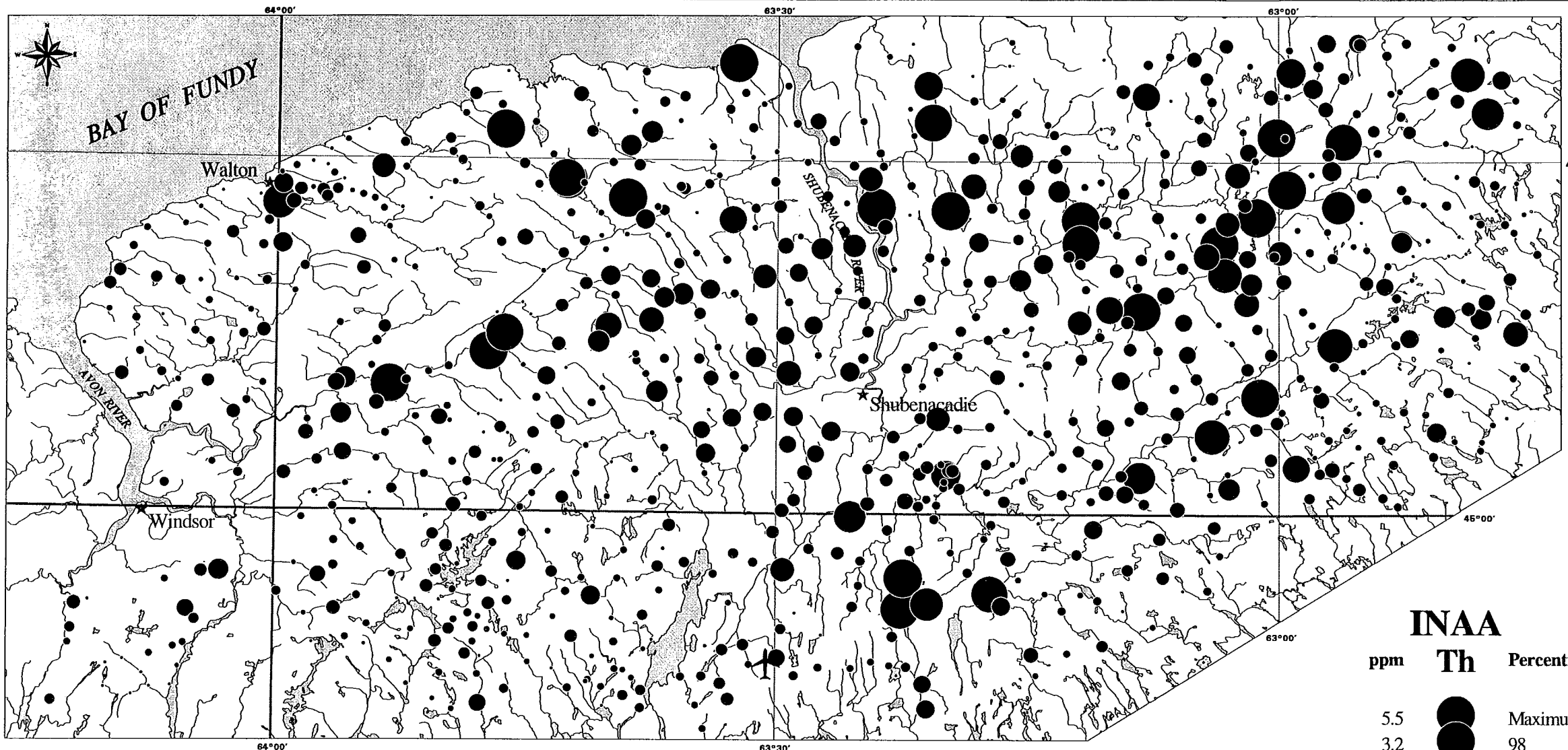
COOPERATION  
AGREEMENT ON  
MINERAL DEVELOPMENT

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Mineral Development (1992 - 1995) a subsidiary agreement under the  
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Contribution à l'Entente de coopération Canada - Nouvelle-Écosse  
sur l'exploitation minière (1992 - 1995), entente auxiliaire négociée  
en vertu de l'Entente Canada/Nouvelle-Écosse de développement  
économique et régional.

Canada

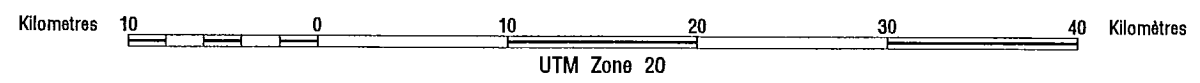
Nova Scotia  
Province of  
Nova Scotia



**Th**

# **THORIUM** in **BALSAM FIR TWIGS**

Scale 1:400 000 - Échelle 1/400 000



INAA		
ppm	Th	Percentile
5.5		Maximum
3.2		98
2.2		95
1.5		90
0.9		75
0.6		50
<0.1		Minimum

786 Samples  
Exponent = 1

COOPERATION

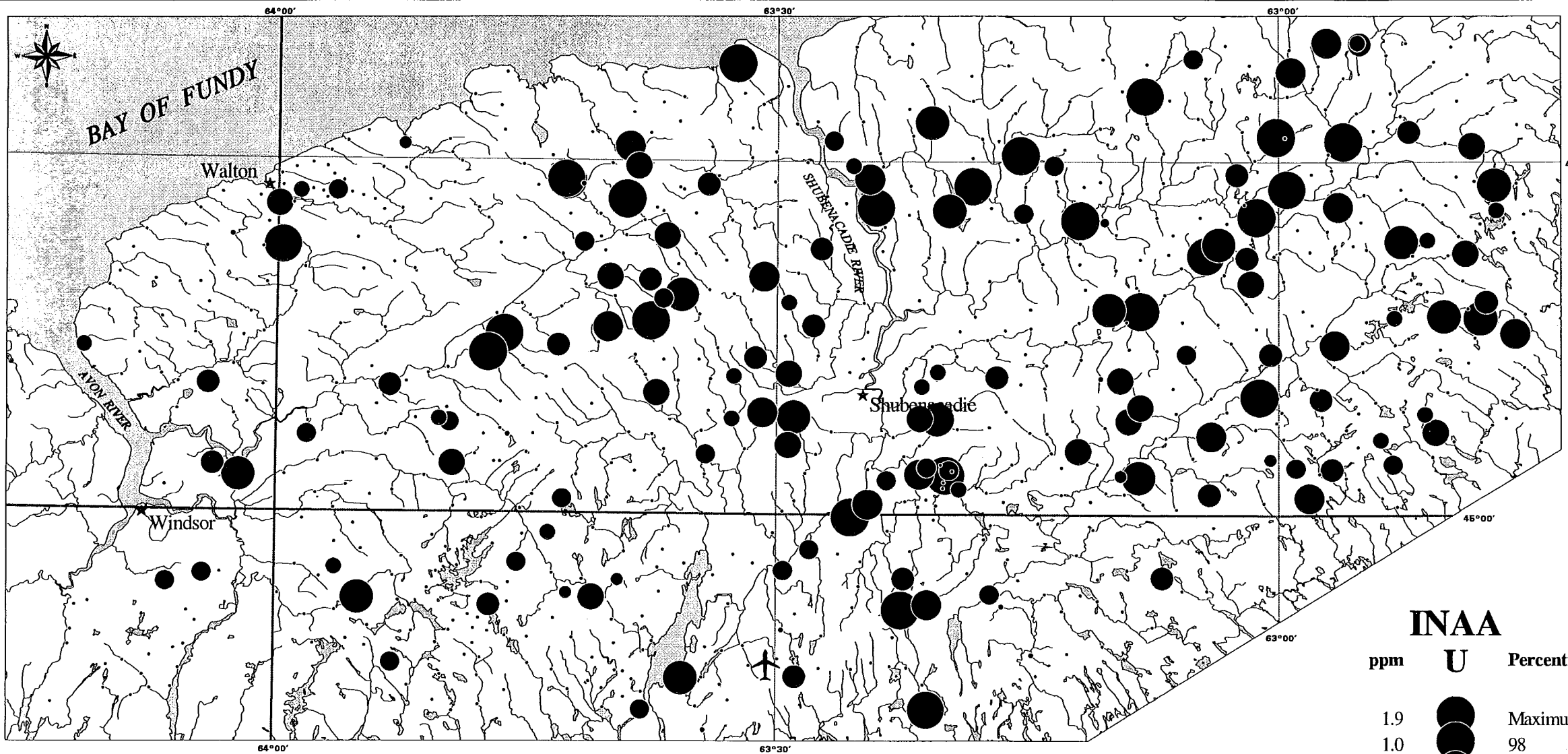
COOPERATION  
AGREEMENT ON  
MINERAL DEVELOPMENT

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Contribution à l'Entente de coopération Canada-Nouvelle-Écosse sur l'exploitation minière (1992 - 1995), entente auxiliaire négociée en vertu de l'Entente Canada-Nouvelle-Écosse de développement économique et régional.

ENTENTE DE  
COOPÉRATION SUR  
L'EXPLOITATION MINÉRALE

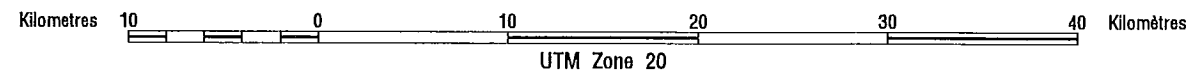
Nova Scotia  
Province of  
Nova Scotia



U

# **URANIUM** in **BALSAM FIR TWIGS**

Scale 1:400 000 - Échelle 1/400 000



INAA		
ppm	U	Percentile
1.9		Maximum
1.0		98
0.9		95
0.6		90
<0.1		75
<0.1		50
<0.1		Minimum
786 Samples		
Exponent = 1		

COOPERATION

COOPERATION AGREEMENT ON MINERAL DEVELOPMENT

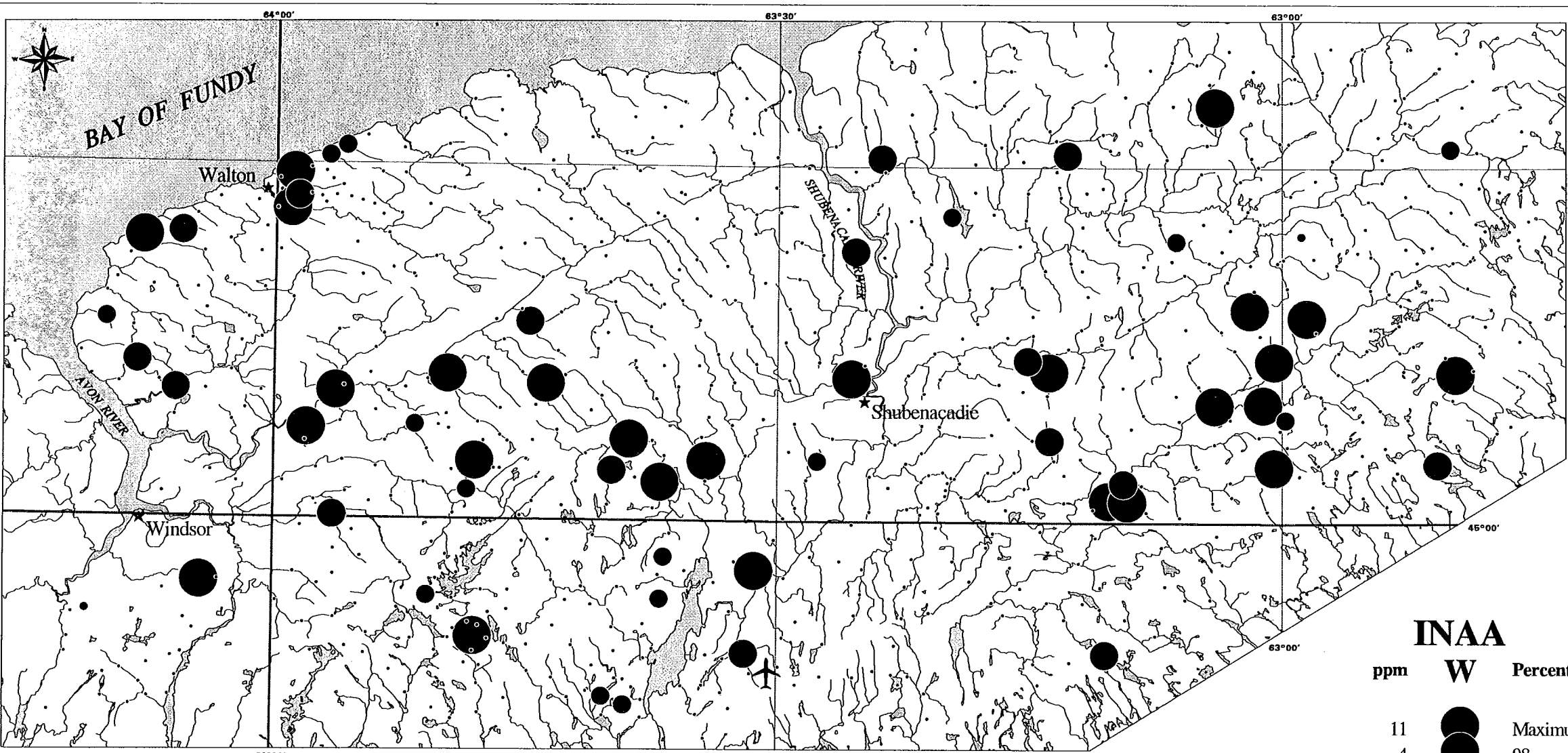
Contribution to Canada-Nova Scotia Cooperation Agreement on Mineral Development (1992-1995) a subsidiary agreement under the Economic and Regional Development Agreement.

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ENTENTE DE COOPÉRATION SUR L'EXPLOITATION MINÉRALE

Canada

Nova Scotia Province of Nova Scotia



W

**COOPERATION**

COOPERATION AGREEMENT ON MINERAL DEVELOPMENT

ENTENTE DE COOPÉRATION SUR L'EXPLOITATION MINÉRALE

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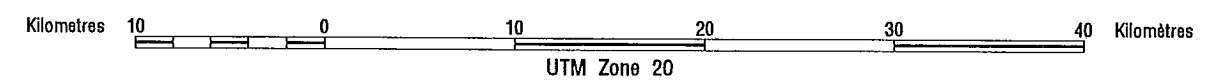
Contribution à l'Entente de coopération Canada - Nouvelle-Écosse sur l'exploitation minière (1992-1995), entente auxiliaire négociée en vertu de l'Entente Canada/Nouvelle-Écosse de développement économique et régional.

Canada

Nova Scotia Province of Nova Scotia

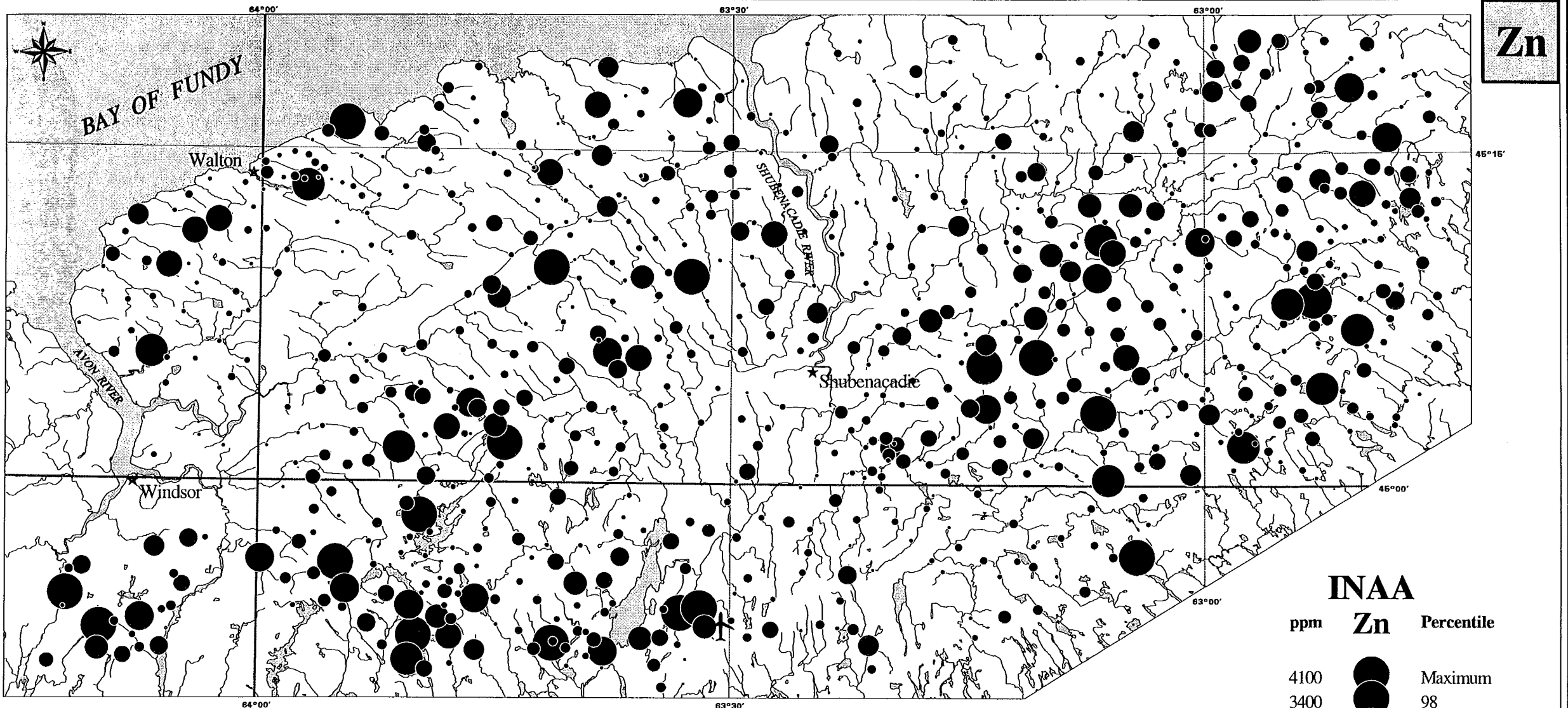
# TUNGSTEN in BALSAM FIR TWIGS

Scale 1:400 000 - Échelle 1/400 000



INAA		
ppm	W	Percentile
11		Maximum
4		98
3		95
<1		90
<1		75
<1		50
<1		Minimum

786 Samples  
Exponent = 1



**Zn**

**INAA**

ppm	Zn	Percentile
4100		Maximum
3400		98
3200		95
2900		90
2500		75
2100		50
690		Minimum

786 Samples

Exponent = 3

**ZINC**  
in

**BALSAM FIR TWIGS**

Scale 1:400 000 - Échelle 1/400 000



COOPERATION

COOPERATION  
AGREEMENT ON  
MINERAL DEVELOPMENT

ENTENTE DE  
COOPÉRATION SUR  
L'EXPLOITATION MINÉRALE

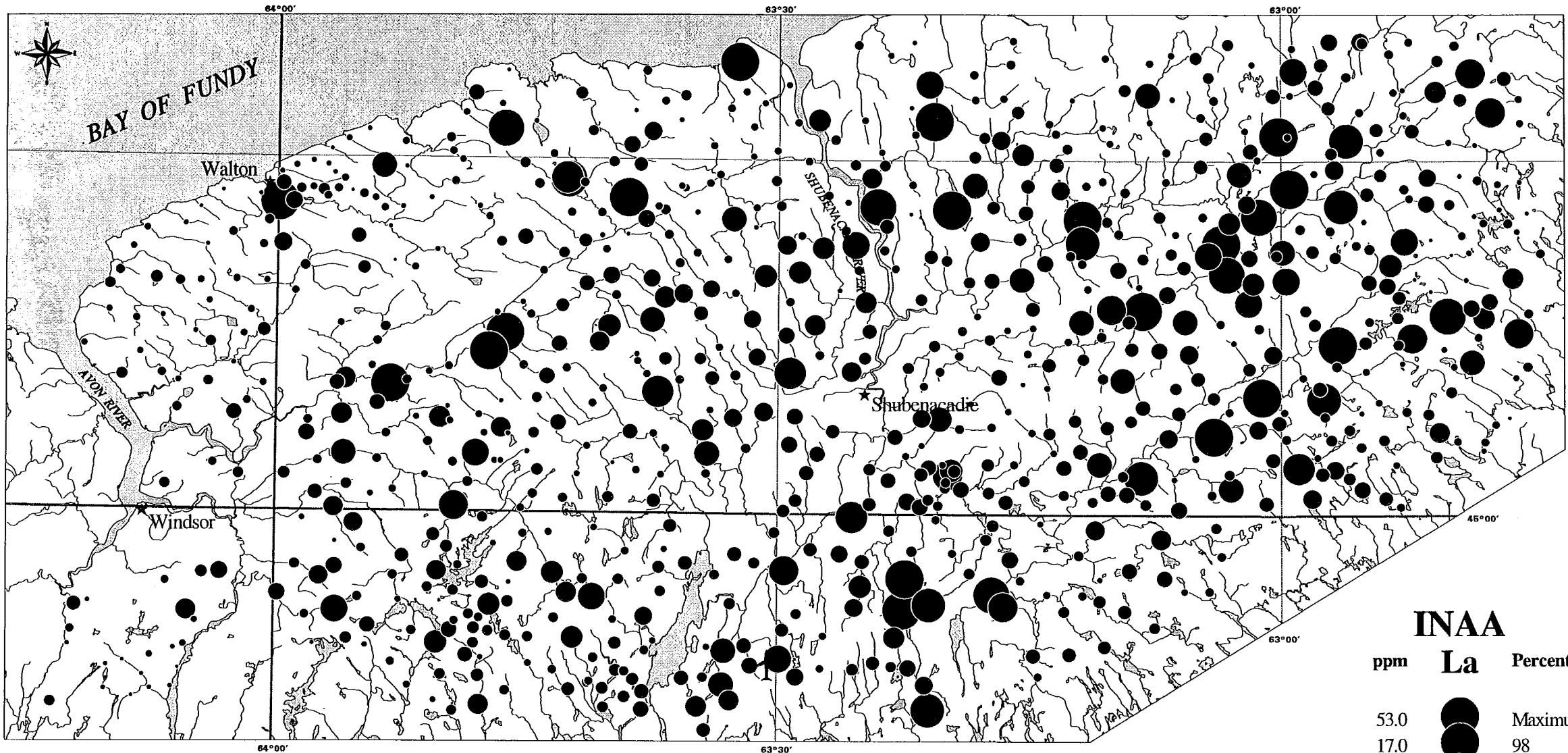
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Canada



Province of  
Nova Scotia



La

COOPERATION

COOPERATION AGREEMENT ON MINERAL DEVELOPMENT

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Canada

Nova Scotia Province of Nova Scotia

# LANTHANUM in BALSAM FIR TWIGS

Scale 1:400 000 - Échelle 1/400 000

Kilometres 10 0 10 20 30 40 Kilomètres  
UTM Zone 20

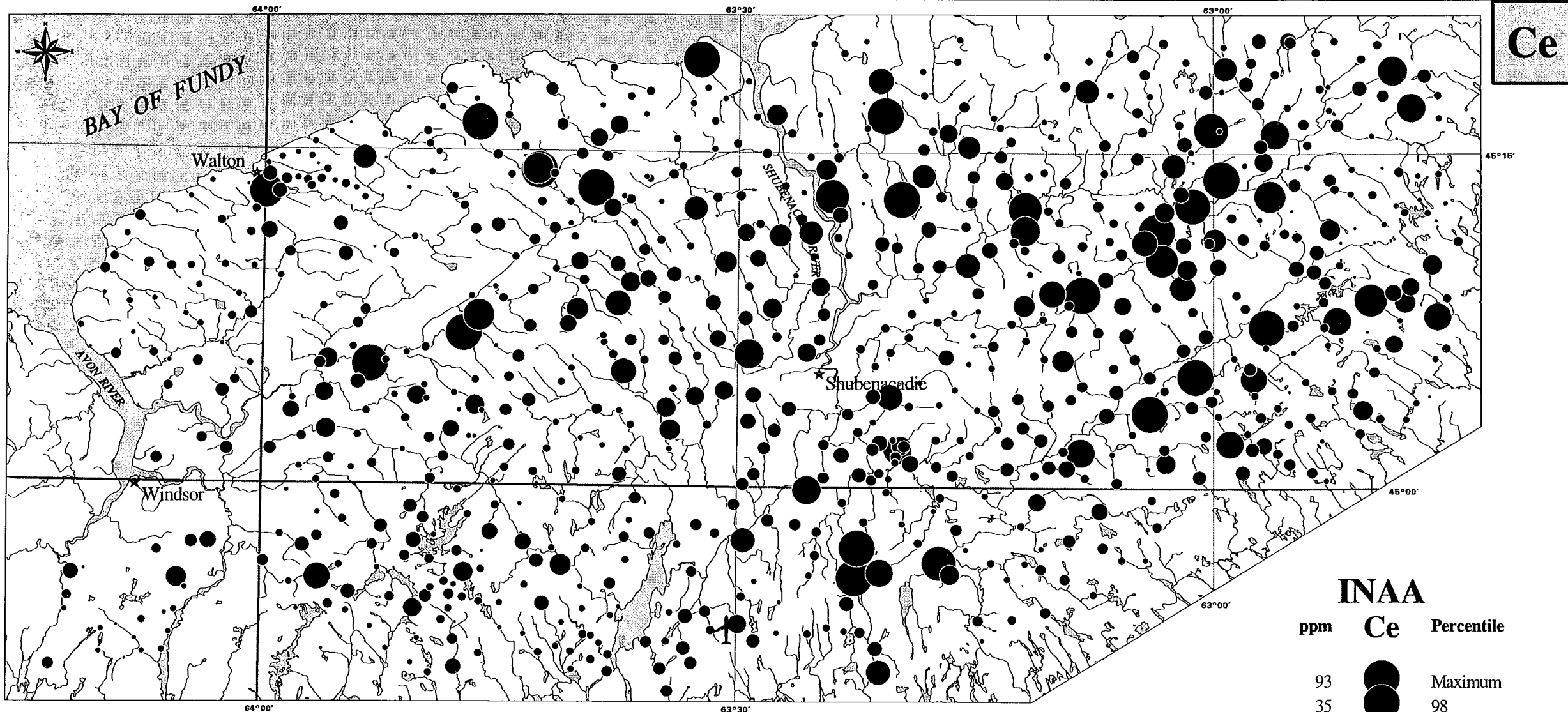
INAA

ppm	La	Percentile
53.0		Maximum
17.0		98
13.0		95
10.0		90
6.7		75
4.5		50
1.4		Minimum

786 Samples

Exponent = 1





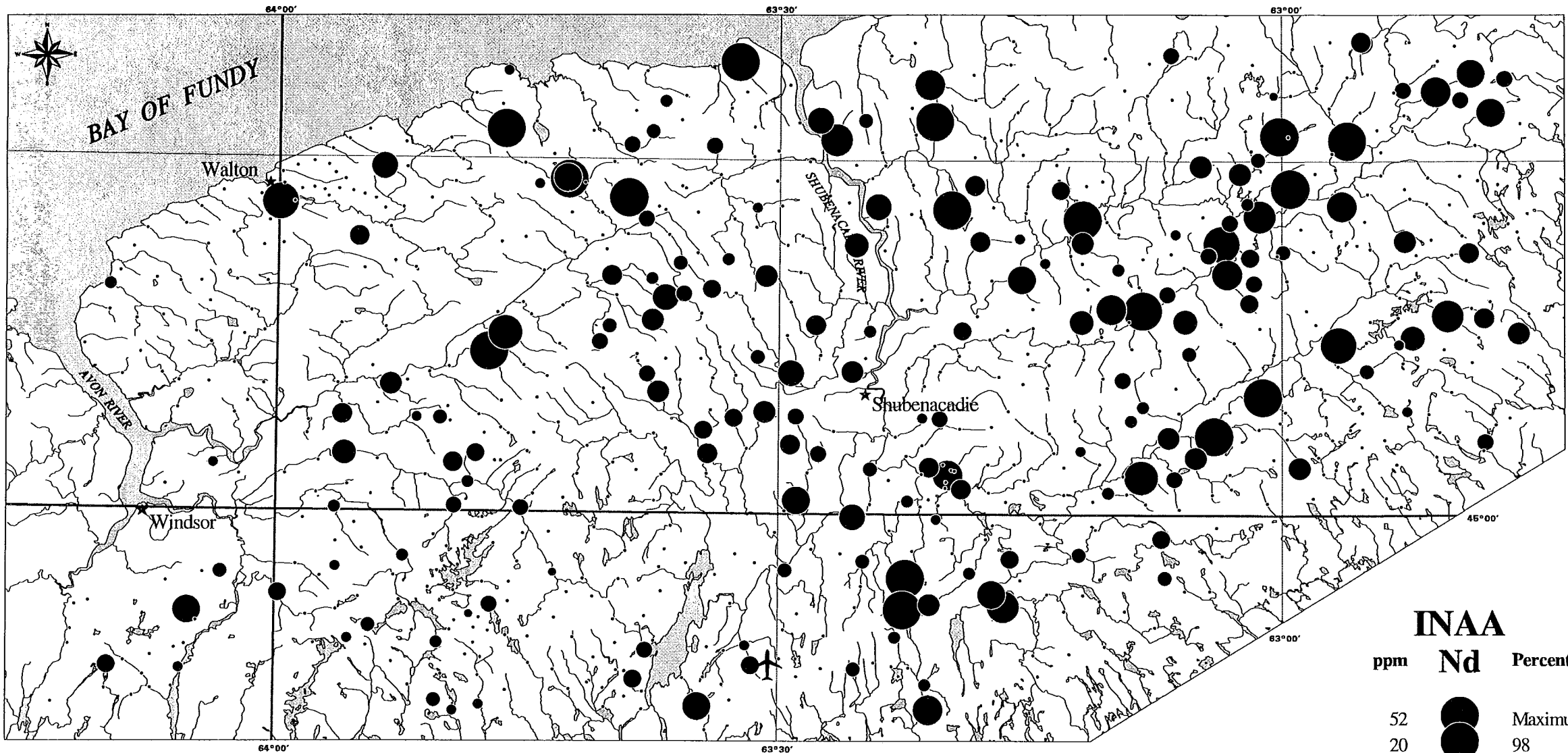
# **CERIUM** in **BALSAM FIR TWIGS**

Scale 1:400 000 - Échelle 1/400 000



**COOPERATION**  
COOPERATION AGREEMENT ON MINERAL DEVELOPMENT  
ENTENTE DE COOPÉRATION SUR L'EXPLOITATION MINÉRALE  
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Canada Nova Scotia Province of Nova Scotia

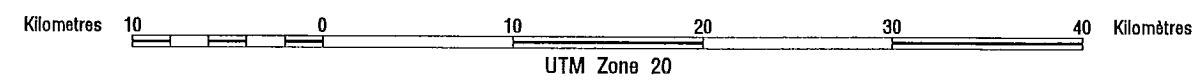
INAA		
ppm	Ce	Percentile
93	●	Maximum
35	●	98
26	●	95
18	●	90
11	●	75
7	●	50
<3	●	Minimum
786 Samples		
Exponent = 1		



Nd

# NEODYMIUM in BALSAM FIR TWIGS

Scale 1:400 000 - Échelle 1/400 000



**COOPERATION**  
COOPERATION AGREEMENT ON MINERAL DEVELOPMENT  
ENTENTE DE COOPÉRATION SUR L'EXPLOITATION MINÉRALE  
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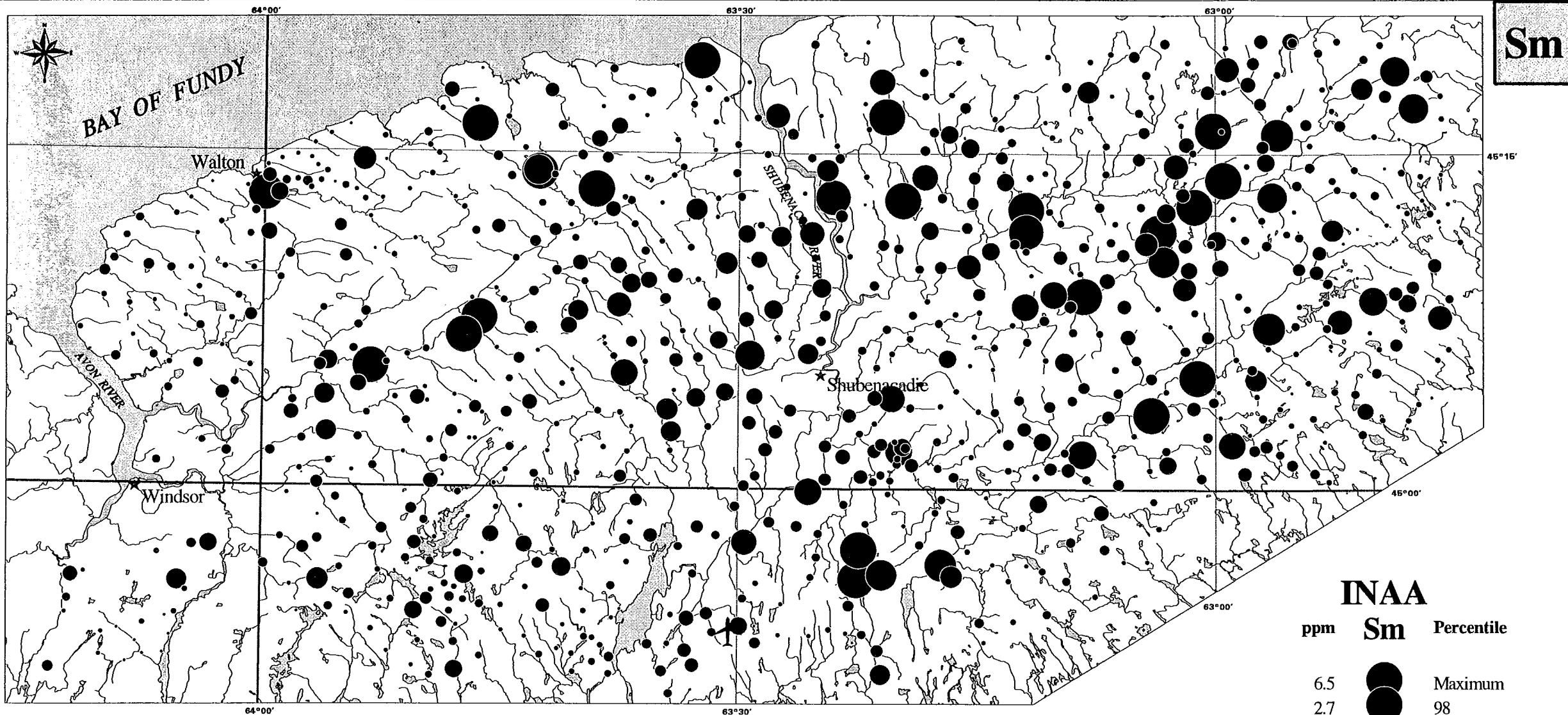


INAA		
ppm	Nd	Percentile
52		Maximum
20		98
15		95
11		90
5	.	75
5	.	50
5	.	Minimum

786 Samples

Exponent = 1





Sm

# **SAMARIUM** in **BALSAM FIR TWIGS**

Scale 1:400 000 - Échelle 1/400 000



INAA		
ppm	Sm	Percentile
6.5		Maximum
2.7		98
2.0		95
1.4		90
0.9		75
0.6		50
0.2		Minimum

786 Samples

Exponent = 1

COOPERATION

COOPERATION  
AGREEMENT ON  
MINERAL DEVELOPMENT

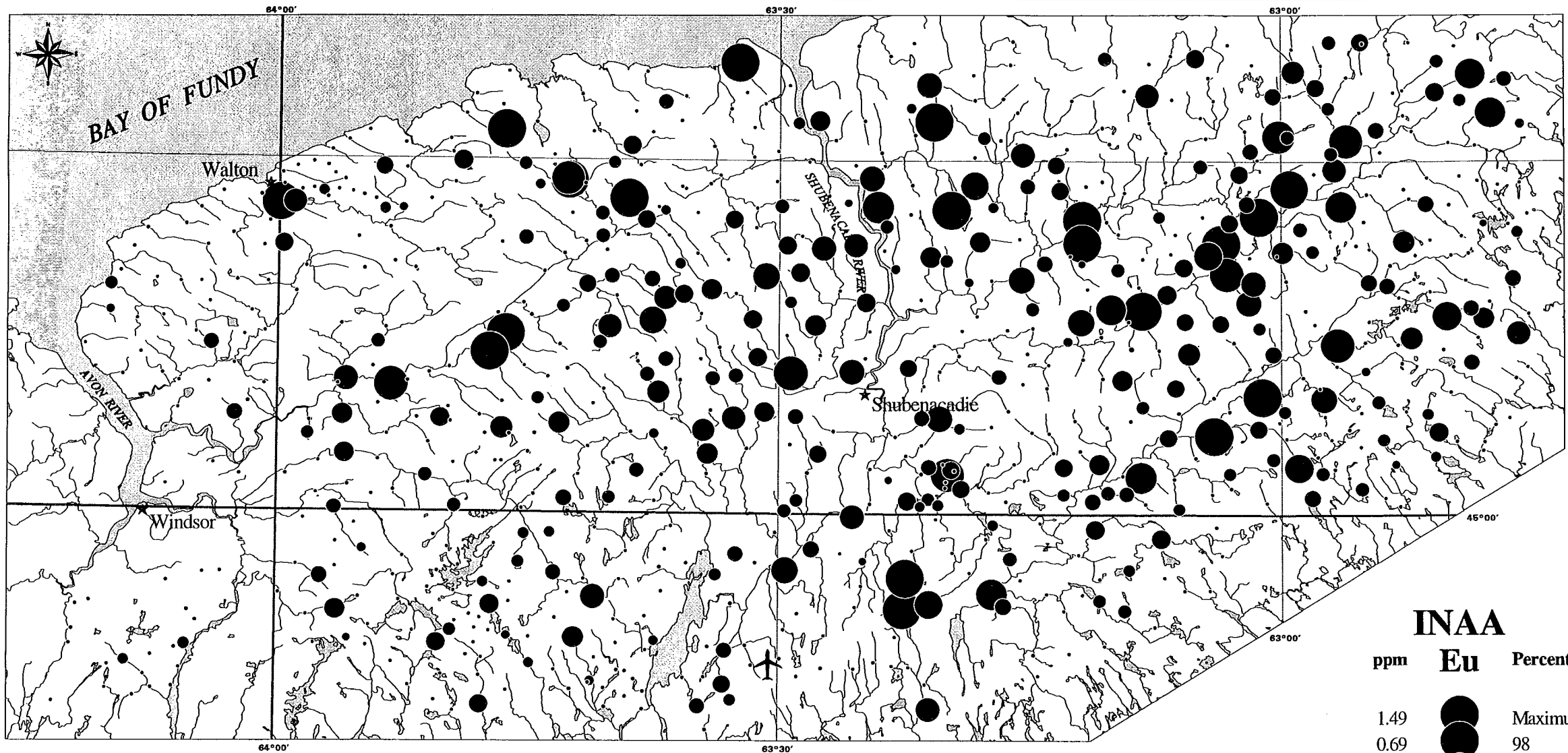
Contribution to Canada-Nova Scotia Cooperation Agreement on  
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en vertu de l'Entente Canada-Nouvelle-Écosse de développement  
économique et régional.

Canada

Nova Scotia  
Province of  
Nova Scotia

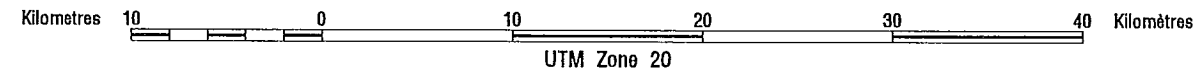
ENTENTE DE  
COOPÉRATION SUR  
L'EXPLOITATION MINÉRALE



**Eu**

# **EUROPIUM** in **BALSAM FIR TWIGS**

Scale 1:400 000 - Échelle 1/400 000



**COOPERATION**

COOPERATION AGREEMENT ON MINERAL DEVELOPMENT

ENTENTE DE COOPÉRATION SUR L'EXPLOITATION MINÉRALE

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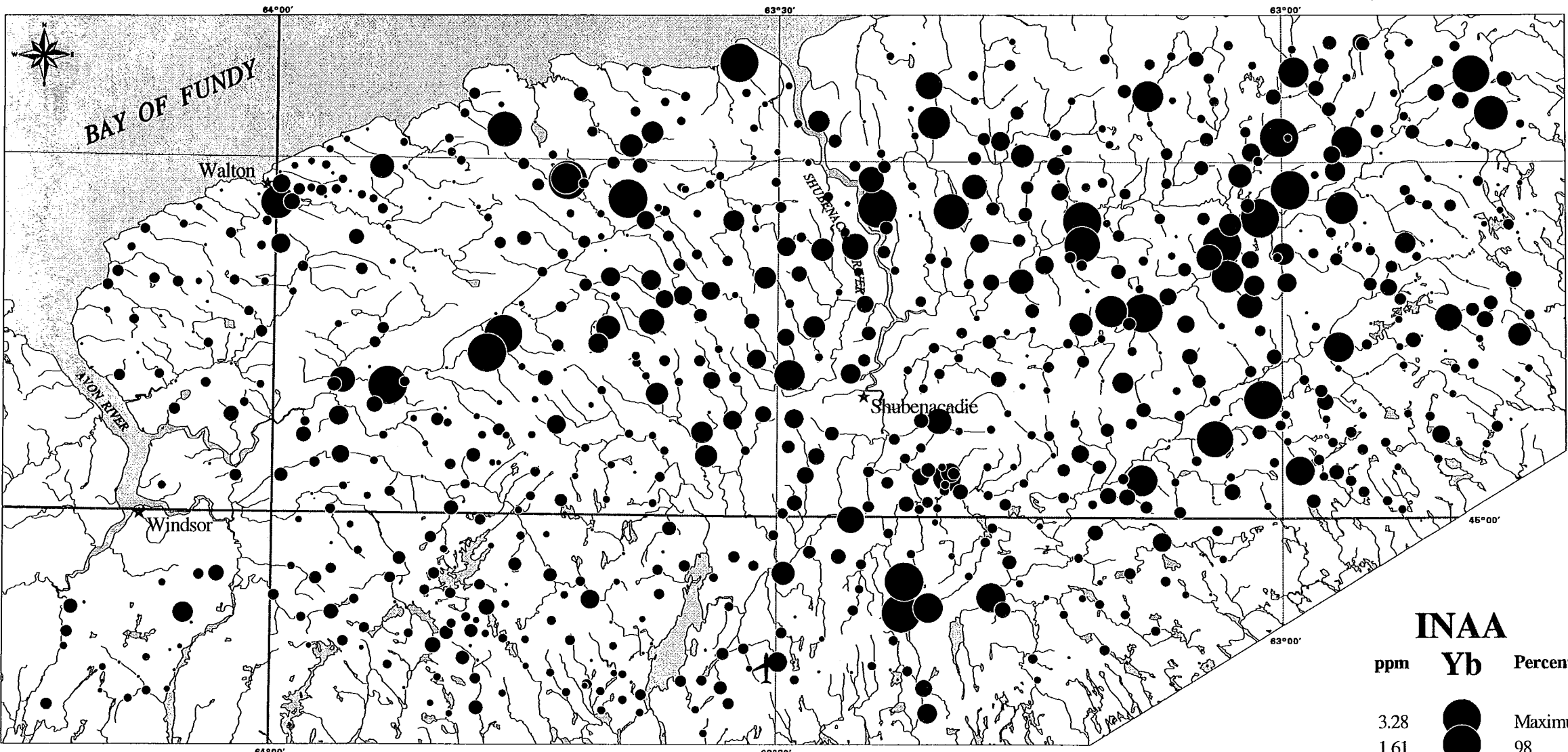
Contribution à l'Entente de coopération Canada-Nouvelle-Écosse sur l'exploitation minière (1992 - 1995), entente subsidiaire négociée en vertu de l'Entente Canada/Nouvelle-Écosse de développement économique et régional.

Canada

Nova Scotia Province of Nova Scotia

INAA		
ppm	Eu	Percentile
1.49		Maximum
0.69		98
0.48		95
0.34		90
0.19		75
<0.01		50
<0.01		Minimum

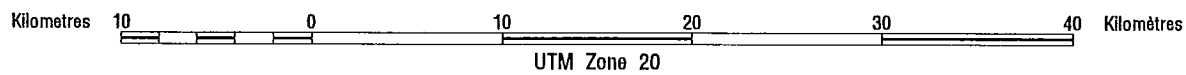
786 Samples  
Exponent = 1



**Yb**

# **YTTERBIUM** in **BALSAM FIR TWIGS**

Scale 1:400 000 - Échelle 1/400 000



INAA		
ppm	Yb	Percentile
3.28		Maximum
1.61		98
1.09		95
0.77		90
0.47		75
0.31		50
<0.05		Minimum

786 Samples  
Exponent = 1

COOPERATION

COOPERATION AGREEMENT ON MINERAL DEVELOPMENT

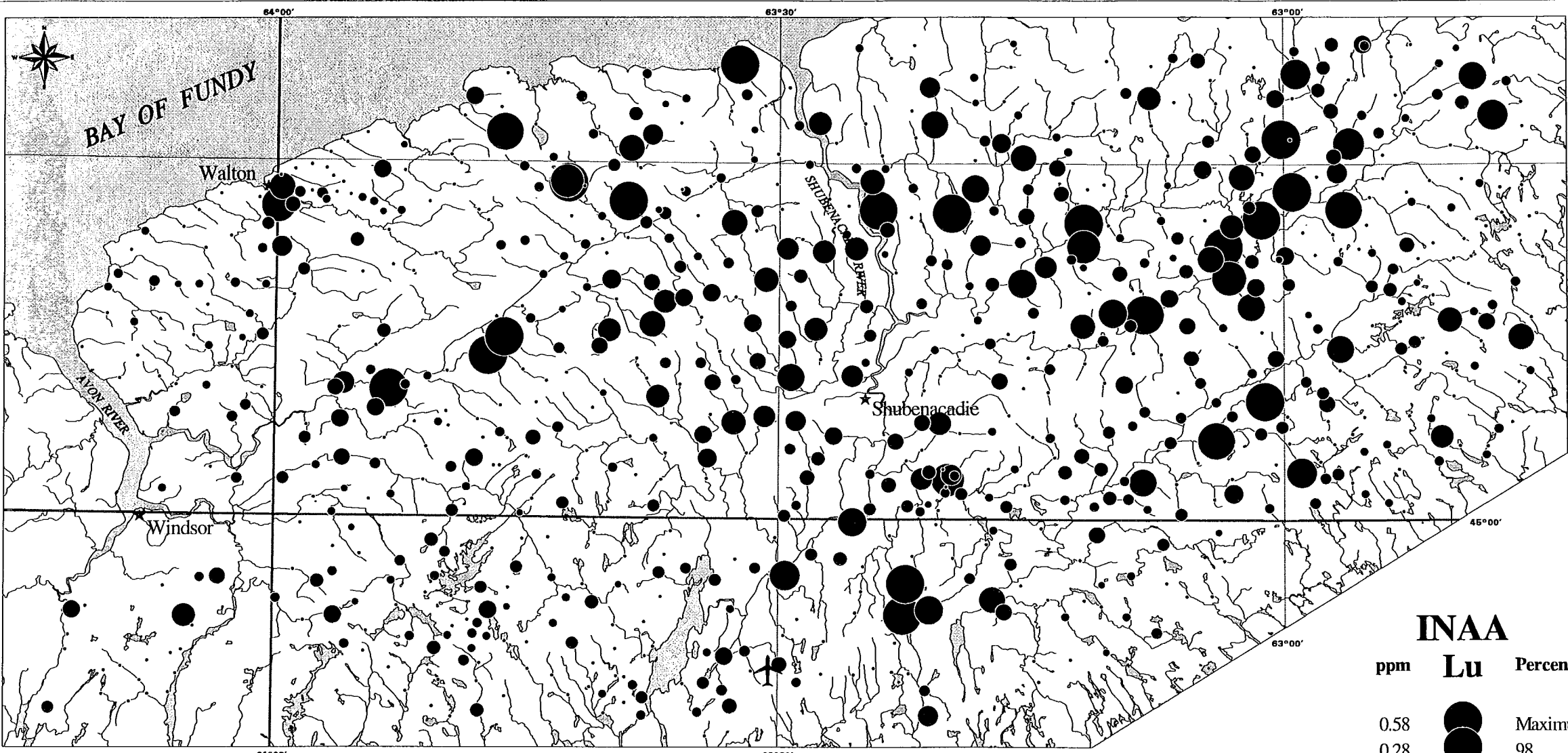
Contribution to Canada-Nova Scotia Cooperation Agreement on Mineral Development (1992-1995) a subsidiary agreement under the Economic and Regional Development Agreement.

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Canada

Nova Scotia Province of Nova Scotia

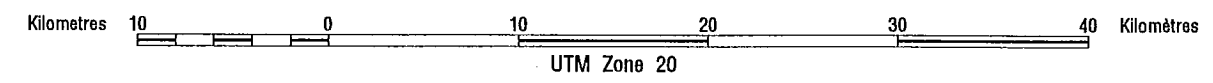
ENTENTE DE COOPÉRATION SUR L'EXPLOITATION MINÉRALE



**Lu**

# **LUTETIUM** in **BALSAM FIR TWIGS**

Scale 1:400 000 - Échelle 1/400 000



INAA		
ppm	Lu	Percentile
0.58		Maximum
0.28		98
0.20		95
0.15		90
0.09		75
0.06		50
<0.05		Minimum
786 Samples		
Exponent = 1		

**COOPERATION**

COOPERATION AGREEMENT ON MINERAL DEVELOPMENT

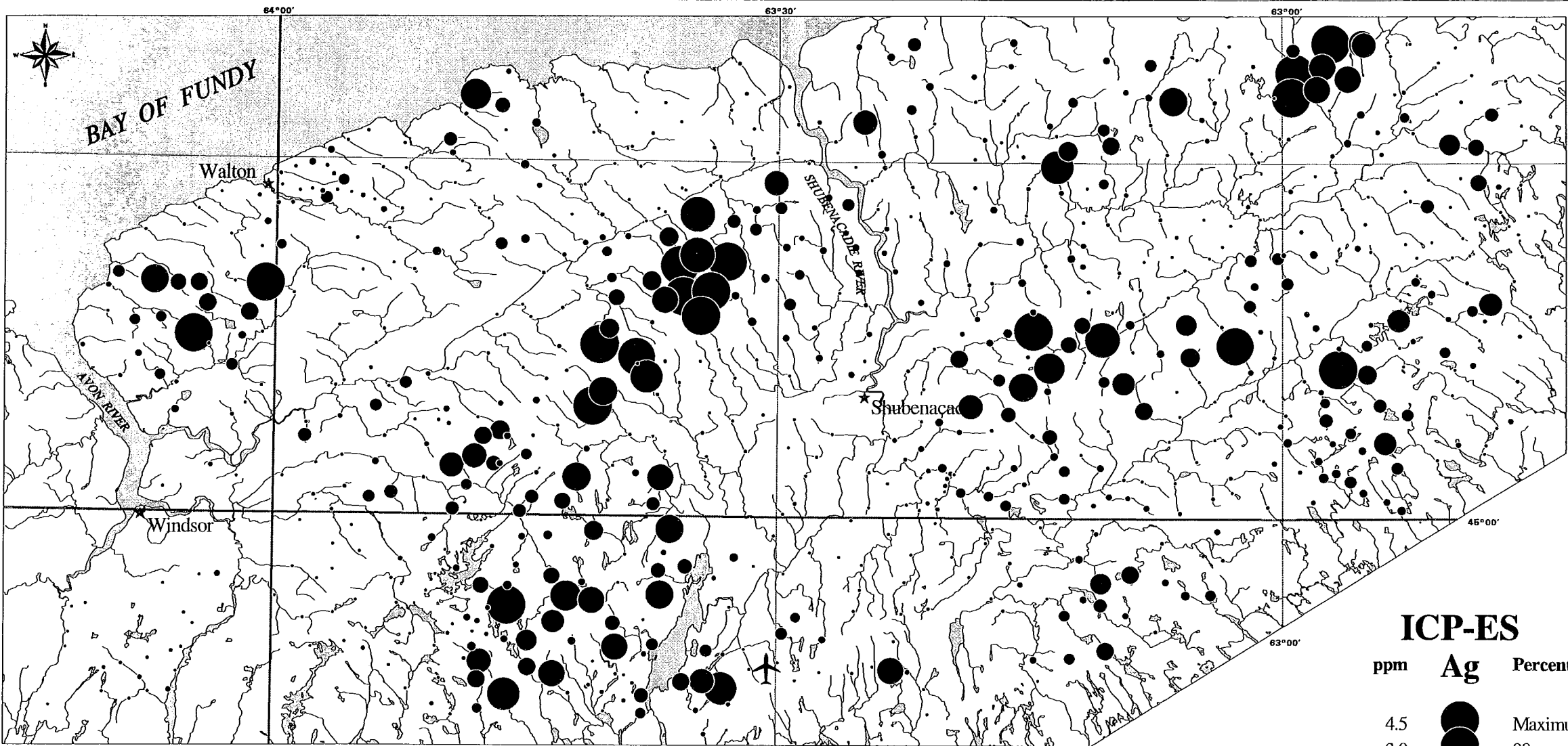
ENTENTE DE COOPÉRATION SUR L'EXPLOITATION MINÉRALE

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Canada

Nova Scotia Province of Nova Scotia



**Ag**

**COOPERATION**

COOPERATION AGREEMENT ON MINERAL DEVELOPMENT

ENTENTE DE COOPÉRATION SUR L'EXPLOITATION MINÉRALE

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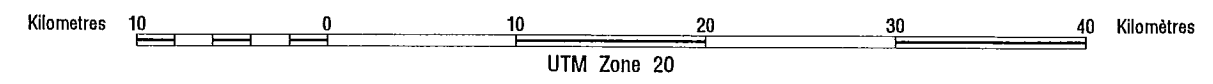
Contribution à l'Entente de coopération Canada-Nouvelle-Écosse sur l'exploitation minière (1992-1995), entente auxiliaire négociée en vertu de l'Entente Canada/Nouvelle-Écosse de développement économique et régional.

Canada

Nova Scotia Province of Nova Scotia

# SILVER in BALSAM FIR TWIGS

Scale 1:400 000 - Échelle 1/400 000

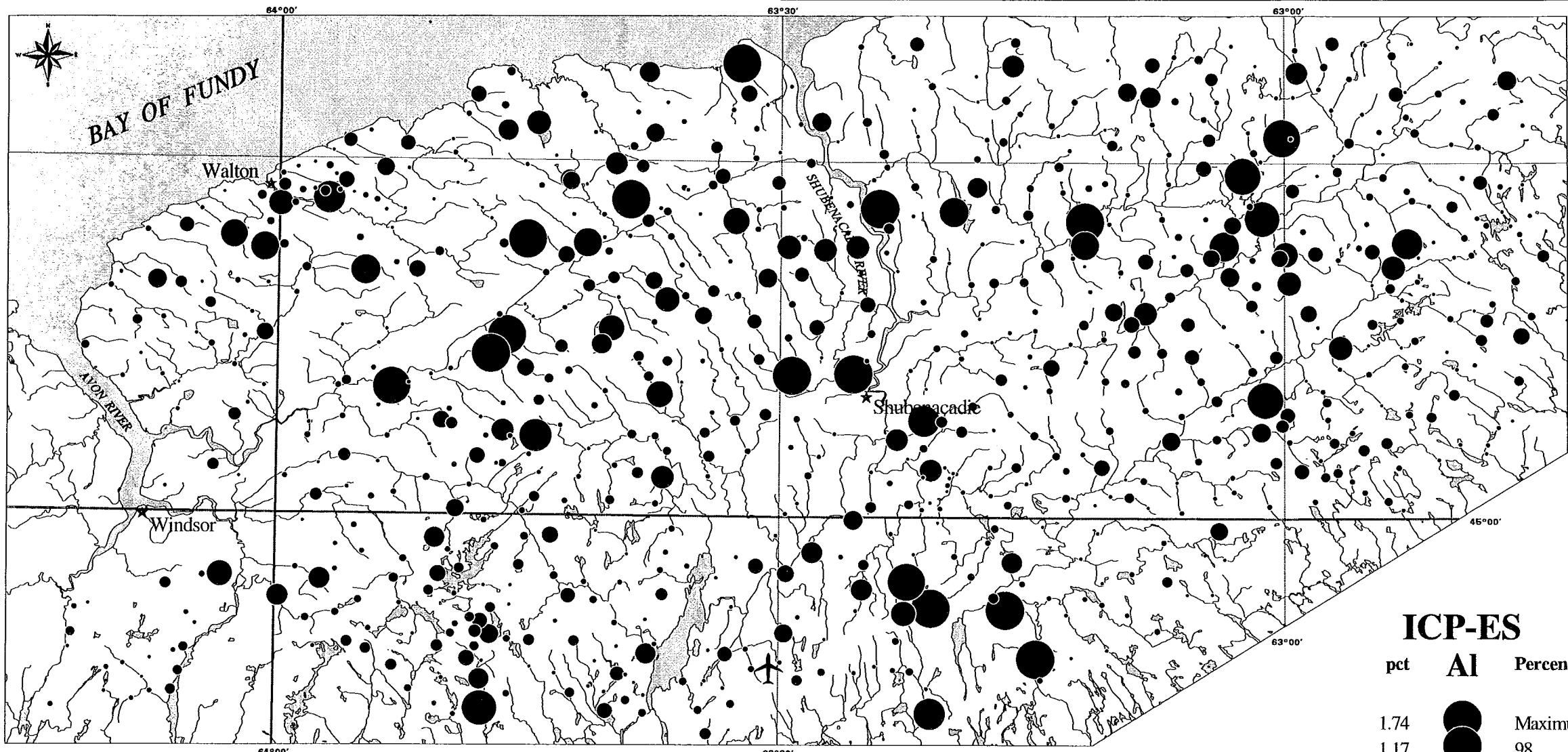


**ICP-ES**

ppm	Ag	Percentile
4.5		Maximum
3.0		98
2.4		95
1.9		90
1.1		75
0.5		50
<0.1		Minimum

774 Samples

Exponent = 2



**COOPERATION**

COOPERATION AGREEMENT ON MINERAL DEVELOPMENT

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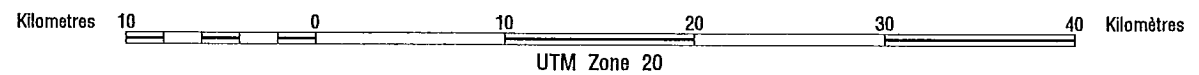
Canada

Nova Scotia

Province of Nova Scotia

# ALUMINUM in BALSAM FIR TWIGS

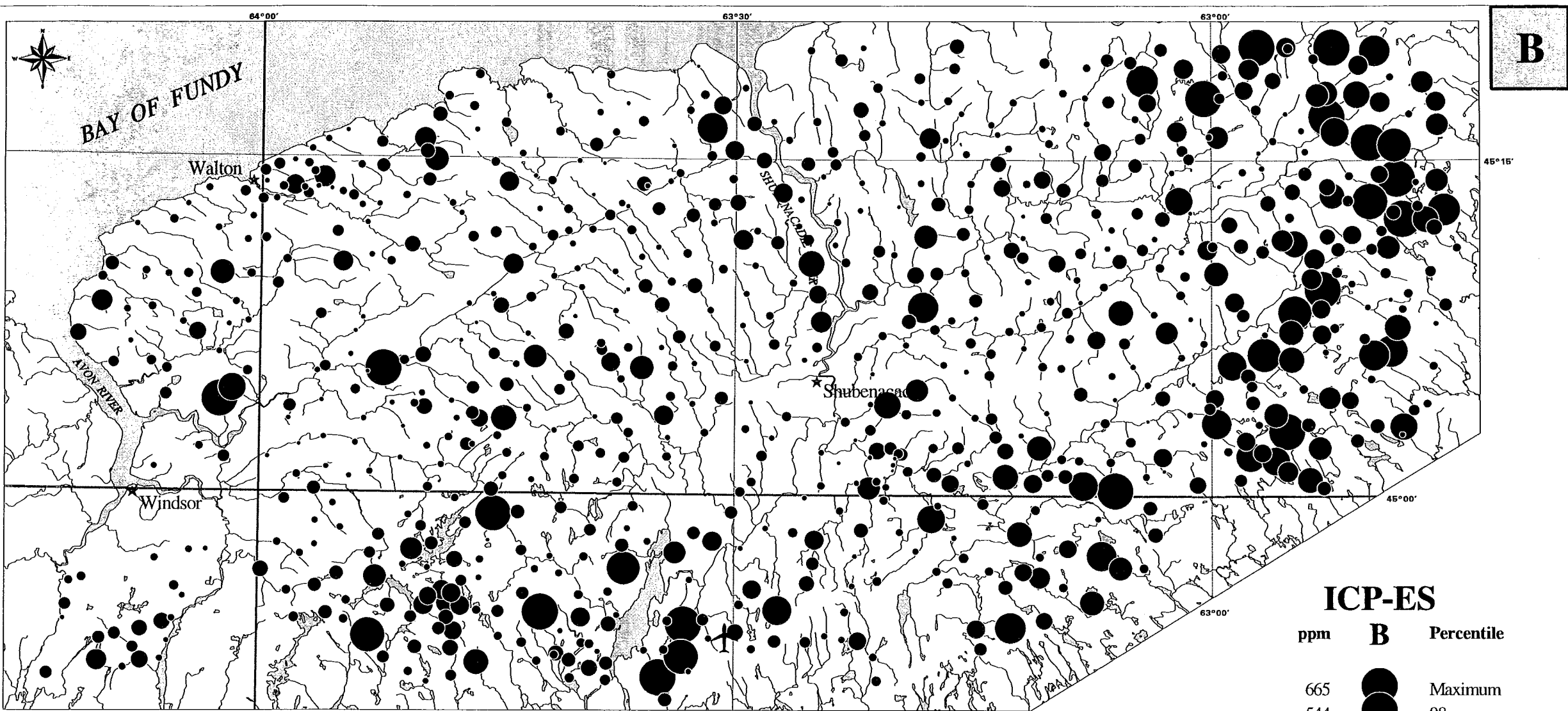
Scale 1:400 000 - Échelle 1/400 000



ICP-ES		
pct	Al	Percentile
1.74		Maximum
1.17		98
1.06		95
0.97		90
0.82		75
0.66		50
0.07		Minimum

774 Samples  
Exponent = 4





**B**

COOPERATION

COOPERATION AGREEMENT ON MINERAL DEVELOPMENT

ENTENTE DE COOPÉRATION SUR L'EXPLOITATION MINÉRALE

Contribution to Canada-Nova Scotia Cooperation Agreement on Mineral Development (1992-1995) a subsidiary agreement under the Economic and Regional Development Agreement.

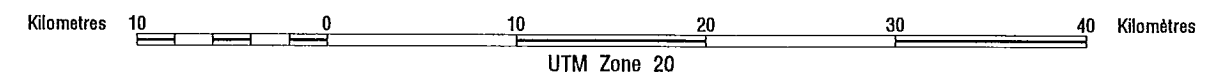
Contribution à l'Entente de coopération Canada-Nouvelle-Écosse sur l'exploitation minière (1992-1995), entente auxiliaire négociée en vertu de l'Entente Canada/Nouvelle-Écosse de développement économique et régional.

Nova Scotia

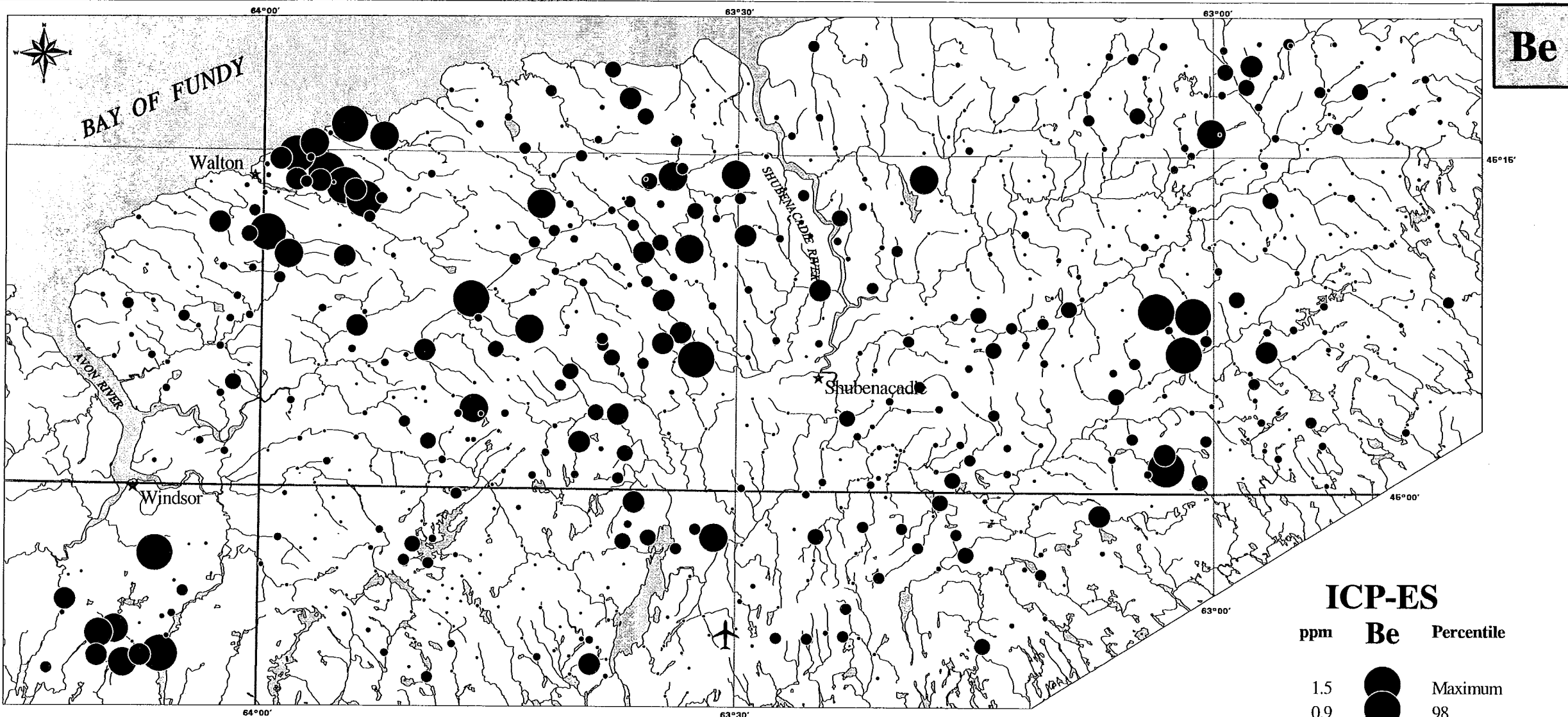
Province of Nova Scotia

# BORON in BALSAM FIR TWIGS

Scale 1:400 000 - Échelle 1/400 000



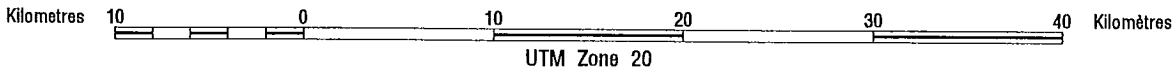
ICP-ES		
ppm	B	Percentile
665		Maximum
544		98
508		95
476		90
422		75
368		50
18		Minimum
774 Samples		
Exponent = 4		



**Be**

# **BERYLLIUM** in **BALSAM FIR TWIGS**

Scale 1:400 000 - Échelle 1/400 000



ICP-ES		
ppm	Be	Percentile
1.5		Maximum
0.9		98
0.8		95
0.6		90
0.4		75
0.3		50
<0.2		Minimum

774 Samples  
Exponent = 2

COOPERATION

COOPERATION AGREEMENT ON MINERAL DEVELOPMENT

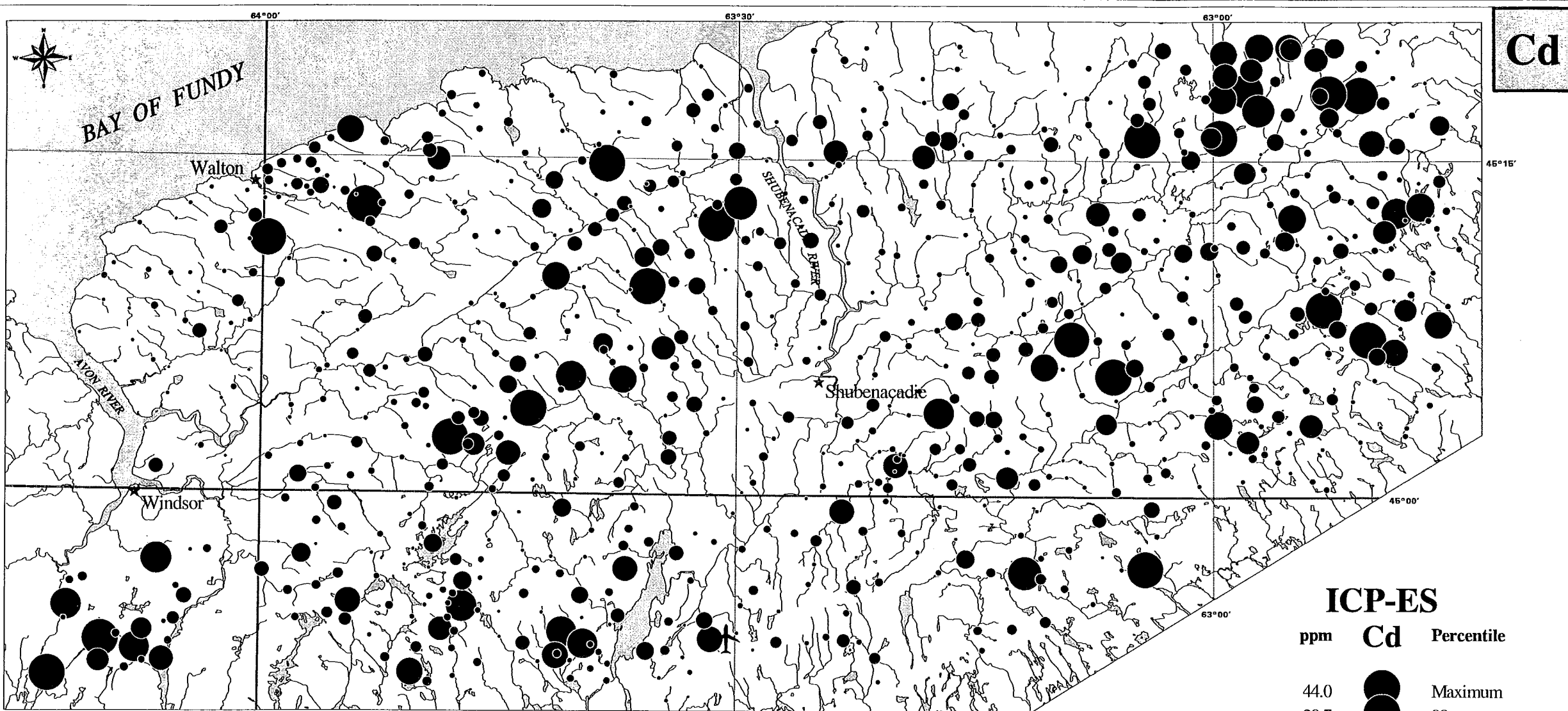
Contribution to Canada-Nova Scotia Cooperation Agreement on Mineral Development (1992 - 1995) a subsidiary agreement under the Economic and Regional Development Agreement.

Contribution à l'Entente de coopération Canada-Nouvelle-Écosse sur l'exploitation minière (1992 - 1995), entente auxiliaire négociée en vertu de l'Entente Canada-Nouvelle-Écosse de développement économique et régional.

ENTENTE DE COOPÉRATION SUR L'EXPLOITATION MINÉRALE

Nova Scotia  
Province of Nova Scotia





**Cd**

**COOPERATION**

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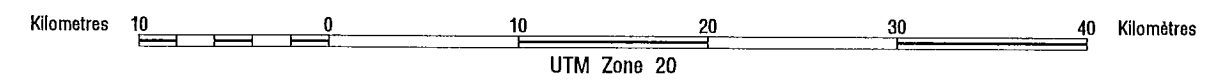
Contribution à l'Entente de coopération Canada-Nouvelle-Écosse sur l'exploitation minérale (1992-1995), entente auxiliaire négociée en vertu de l'Entente Canada/Nouvelle-Écosse de développement économique et régional.

Canada

Nova Scotia Province of Nova Scotia

# **CADMIUM** in **BALSAM FIR TWIGS**

Scale 1:400 000 - Échelle 1/400 000

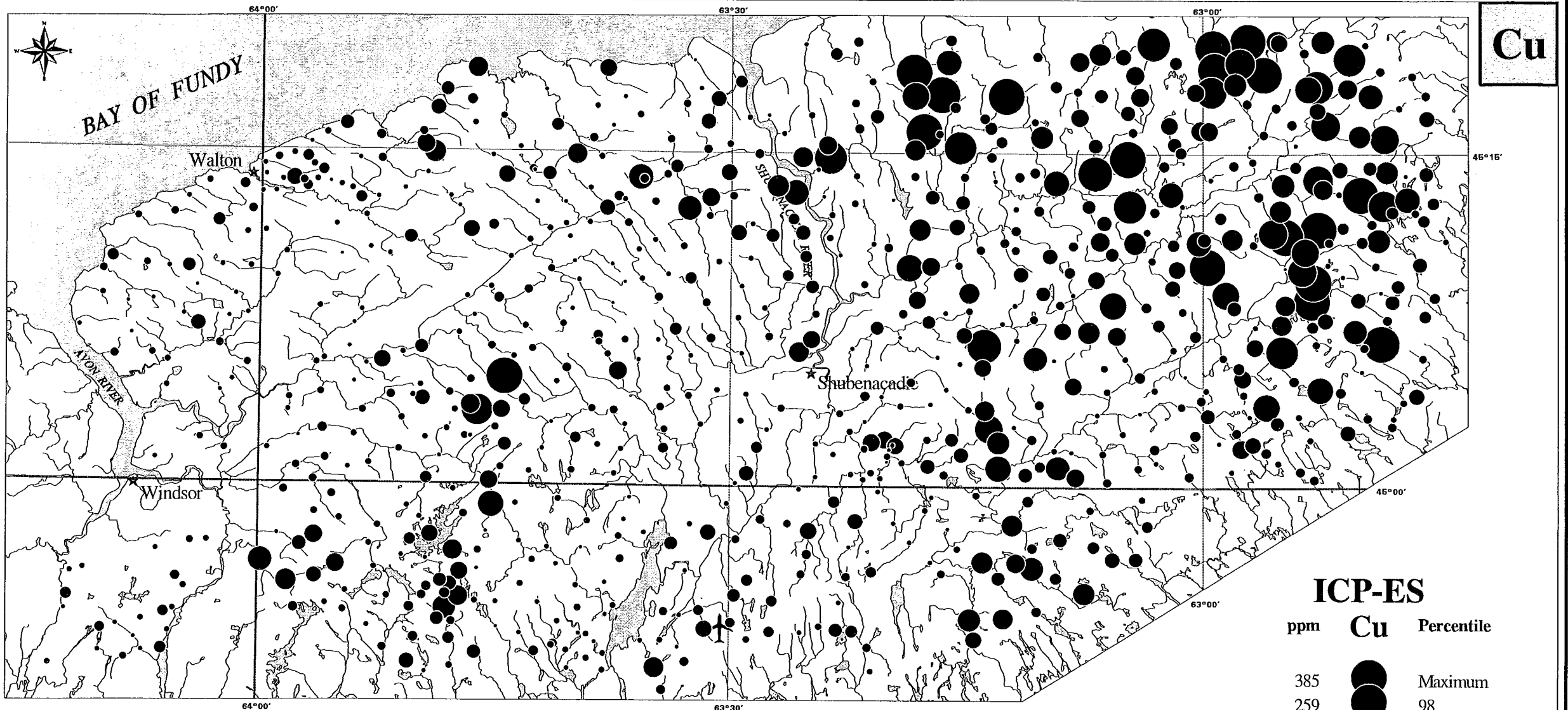


**ICP-ES**

ppm	Cd	Percentile
44.0		Maximum
20.7		98
17.9		95
15.2		90
11.2		75
8.0		50
1.3		Minimum

774 Samples

Exponent = 2



**COOPERATION**

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Canada

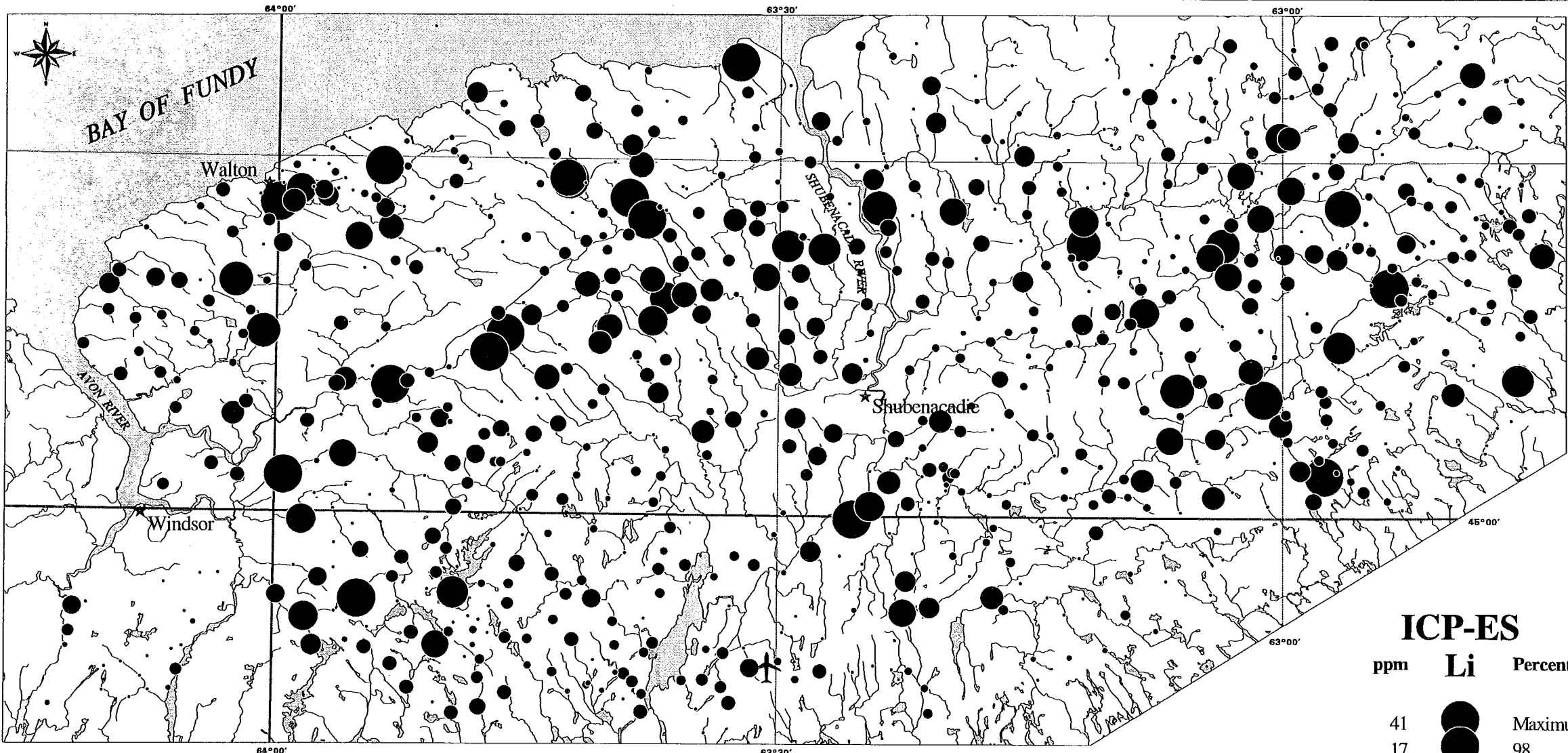
Nova Scotia

Province of Nova Scotia

# COPPER in BALSAM FIR TWIGS

Scale 1:400 000 - Échelle 1/400 000





**Li**

**COOPERATION**  
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**ENTENTE DE COOPÉRATION SUR L'EXPLOITATION MINÉRALE**  
 Nova Scotia  
 Province of Nova Scotia

**Canada**

# LITHIUM in BALSAM FIR TWIGS

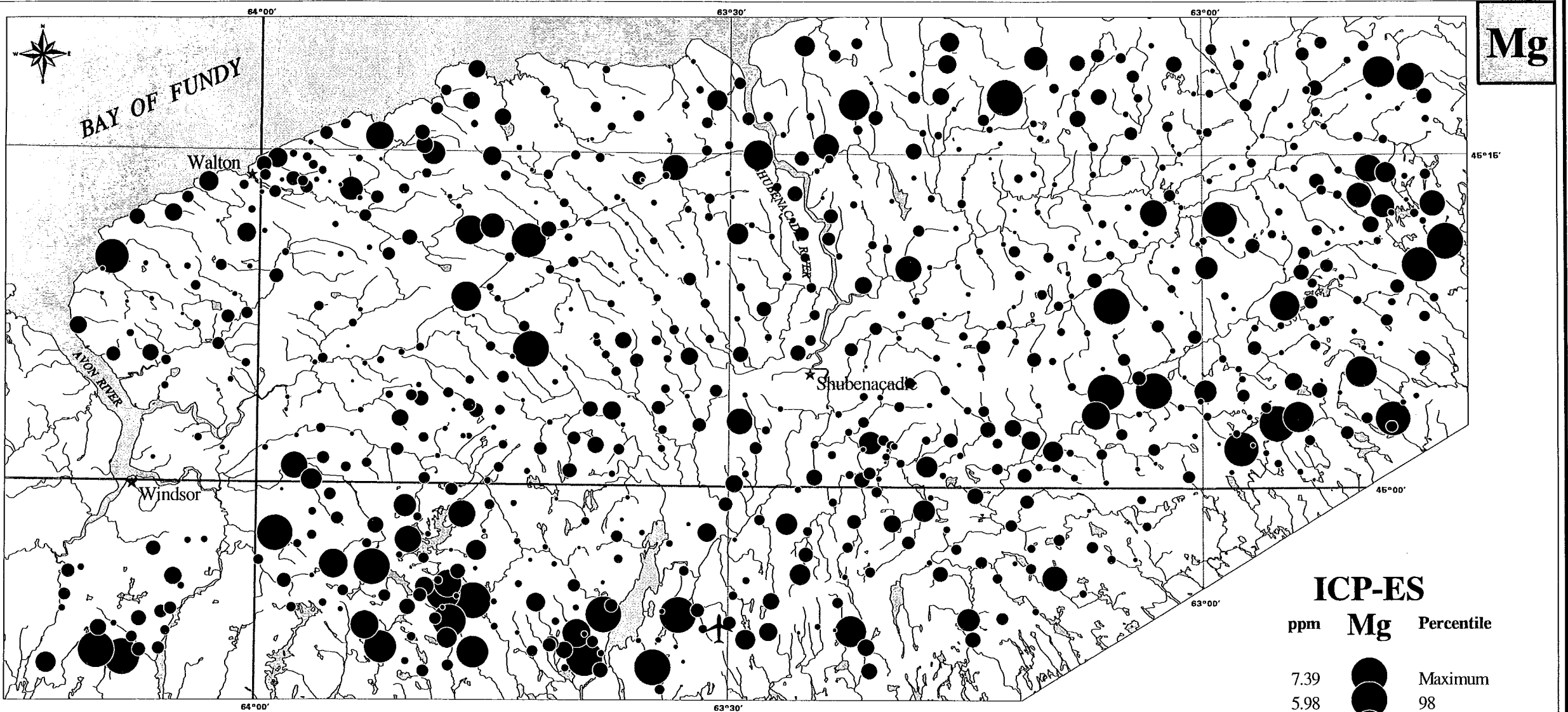
Scale 1:400 000 - Échelle 1/400 000



**ICP-ES**

ppm	Li	Percentile
41		Maximum
17		98
12		95
9		90
6		75
3		50
<2		Minimum

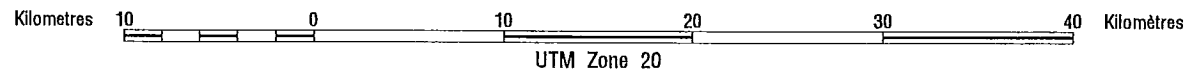
774 Samples  
 Exponent = 1



Mg

# MAGNESIUM in BALSAM FIR TWIGS

Scale 1:400 000 - Échelle 1/400 000



## ICP-ES

ppm	Mg	Percentile
7.39		Maximum
5.98		98
5.58		95
5.09		90
4.45		75
3.87		50
0.16		Minimum

774 Samples

Exponent = 4

COOPERATION

COOPERATION  
AGREEMENT ON  
MINERAL DEVELOPMENT

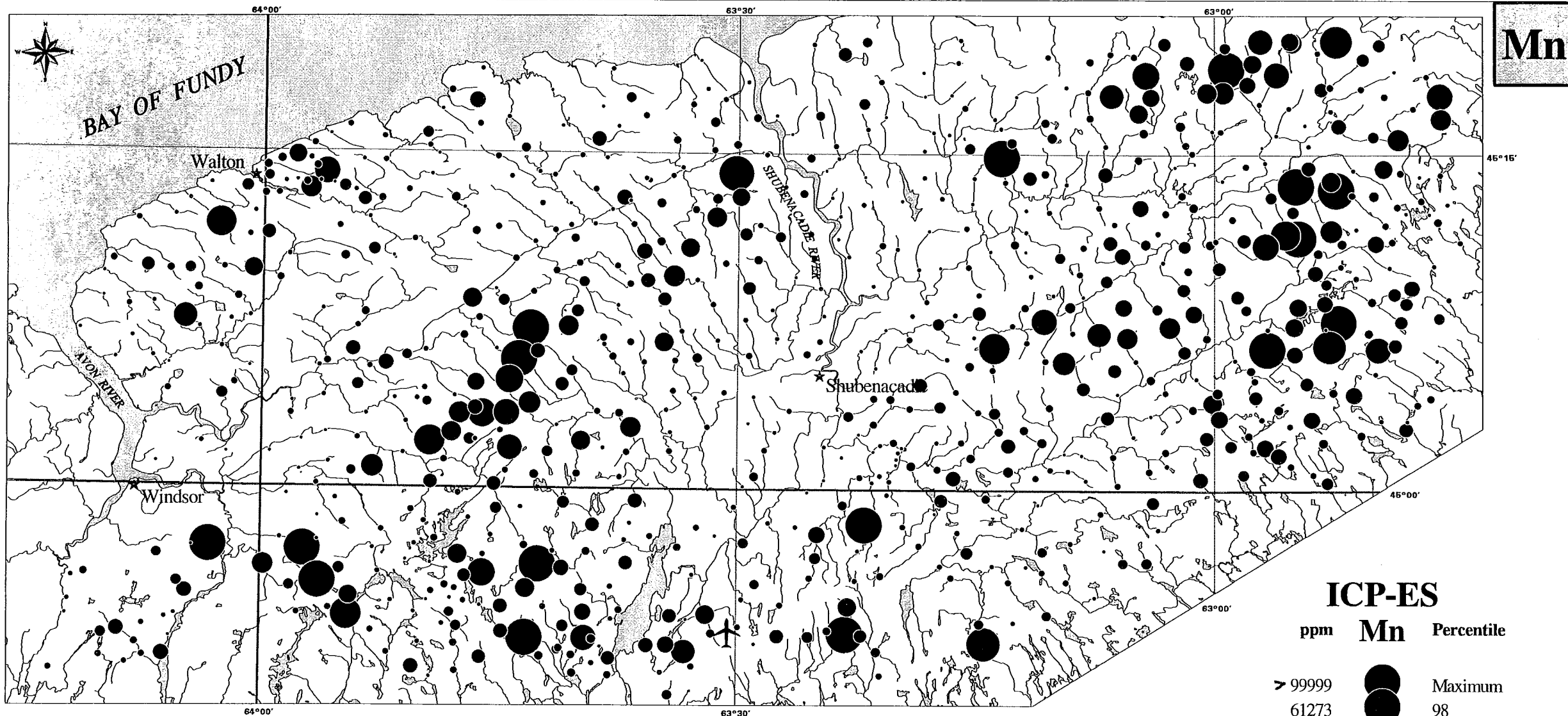
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Canada

Nova Scotia  
Province of  
Nova Scotia



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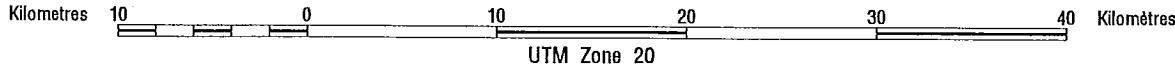
Contribution à l'Entente de coopération Canada-Nouvelle-Écosse sur l'exploitation minière (1992-1995), entente auxiliaire négociée en vertu de l'Entente Canada/Nouvelle-Écosse de développement économique et régional.

Canada

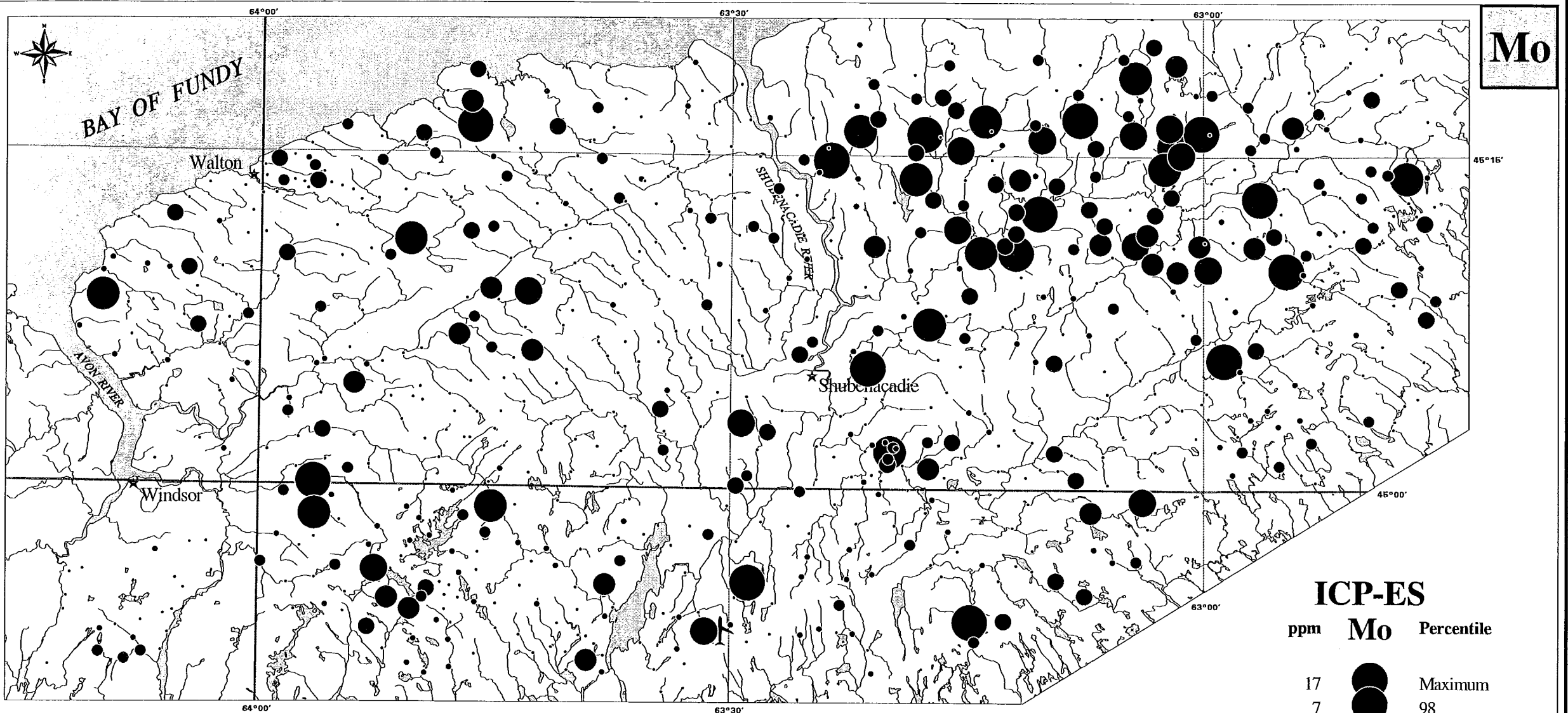
Nova Scotia Province of Nova Scotia

# MANGANESE in BALSAM FIR TWIGS

Scale 1:400 000 - Échelle 1/400 000



ICP-ES		
ppm	Mn	Percentile
> 99999		Maximum
61273		98
49482		95
41256		90
30744		75
20263		50
1135		Minimum
774 Samples		
Exponent = 2		



Mo

# **MOLYBDENUM** in **BALSAM FIR TWIGS**

Scale 1:400 000 - Échelle 1/400 000

Kilometres 10 0 10 20 30 40 Kilomètres  
UTM Zone 20

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économique et régional.

Canada



Province of  
Nova Scotia

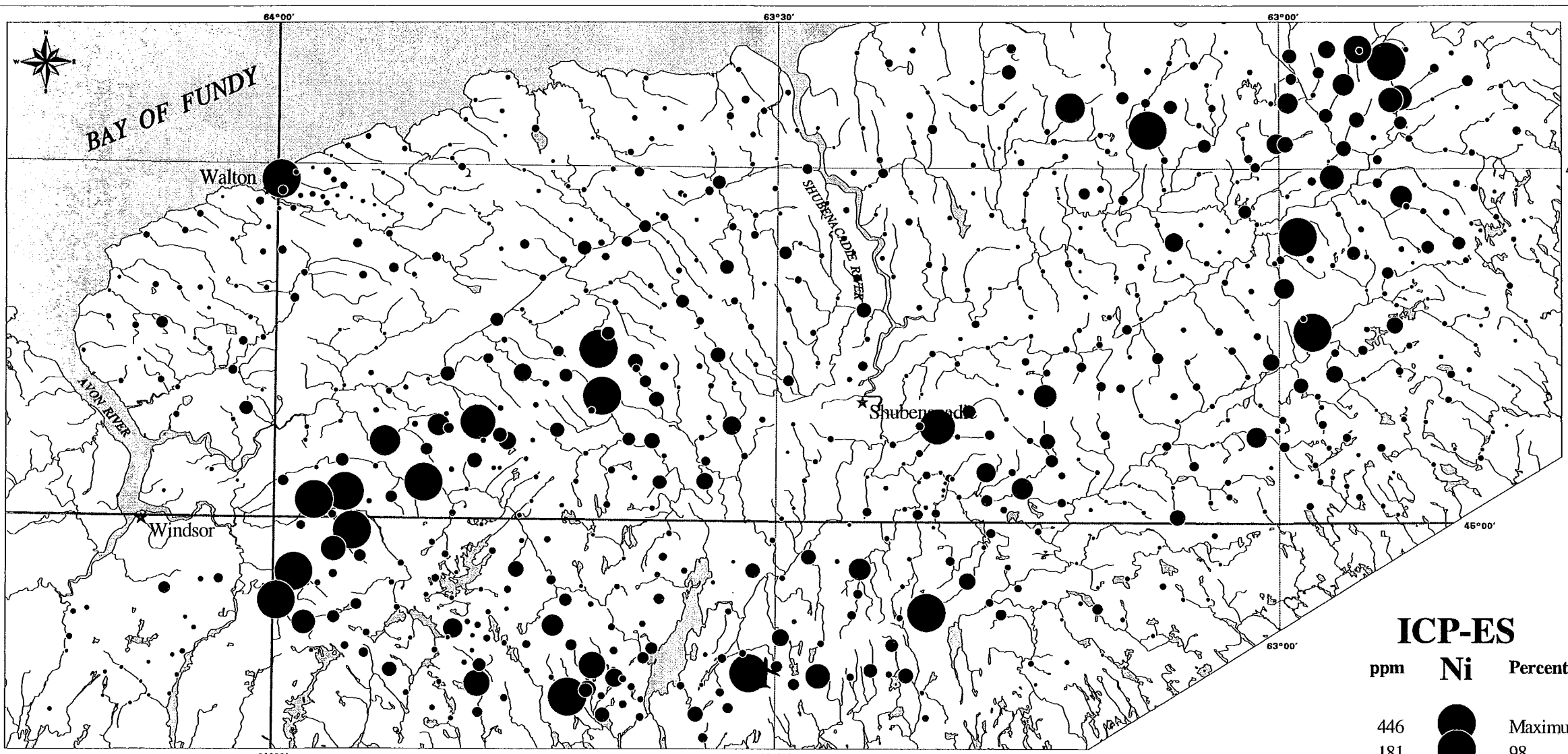
ICP-ES

ppm Mo Percentile

17		Maximum
7		98
5		95
3		90
1		75
<1		50
<1		Minimum

774 Samples

Exponent = 1



**Ni**

**COOPERATION**

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ENTENTE DE  
COOPÉRATION SUR  
L'EXPLOITATION MINÉRALE

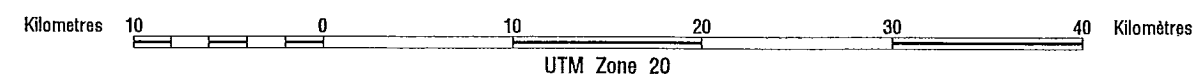
Contribution to Canada-Nova Scotia Cooperation Agreement on  
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économique et régional.

Canada Nova Scotia  
Province of  
Nova Scotia

# **NICKEL** in **BALSAM FIR TWIGS**

Scale 1:400 000 - Échelle 1/400 000

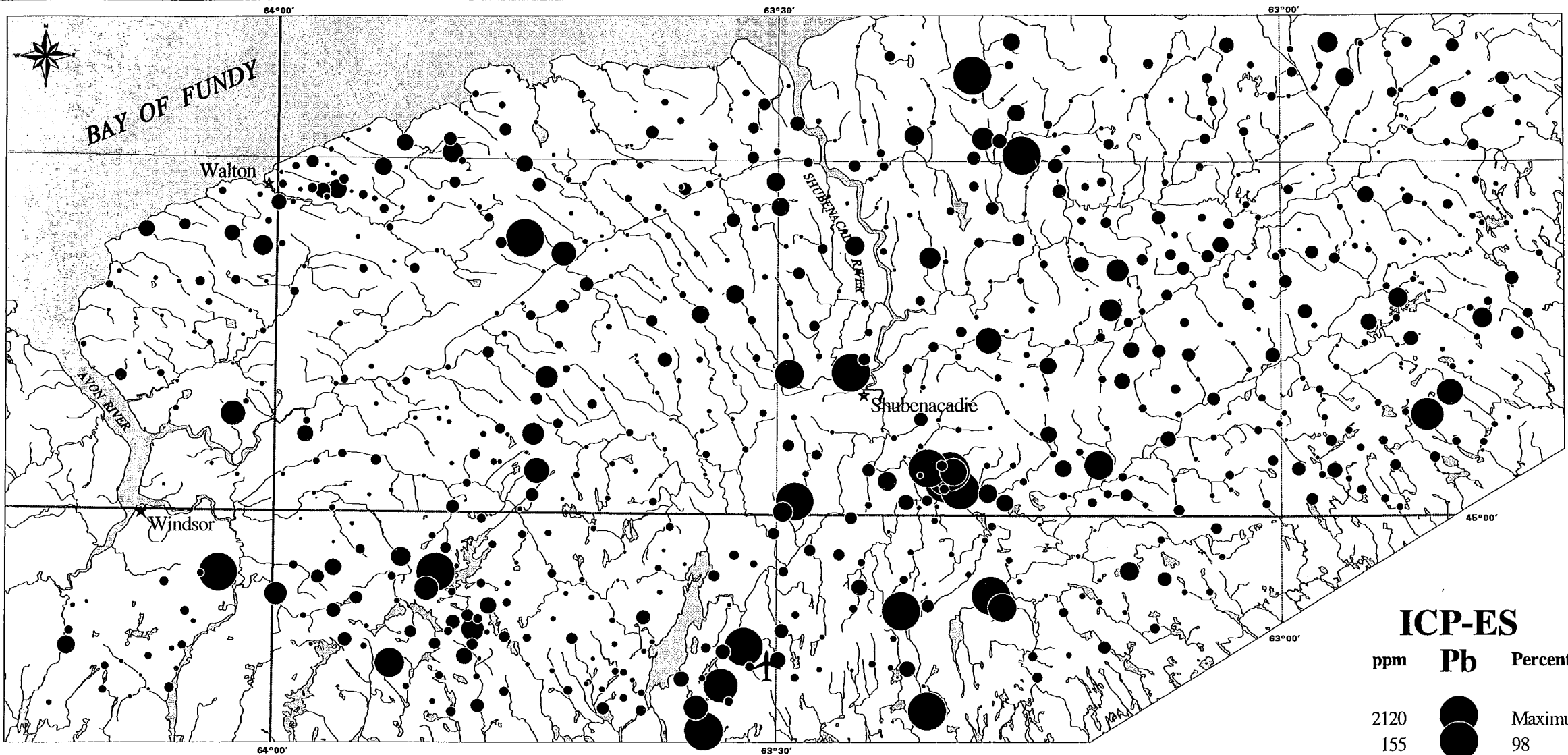


**ICP-ES**

ppm	Ni	Percentile
446		Maximum
181		98
128		95
104		90
72		75
53		50
6		Minimum

774 Samples  
Exponent = 2





Pb

## ICP-ES

ppm	Pb	Percentile
2120		Maximum
155		98
115		95
97		90
76		75
57		50
11		Minimum

774 Samples

Exponent = 2

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Canada

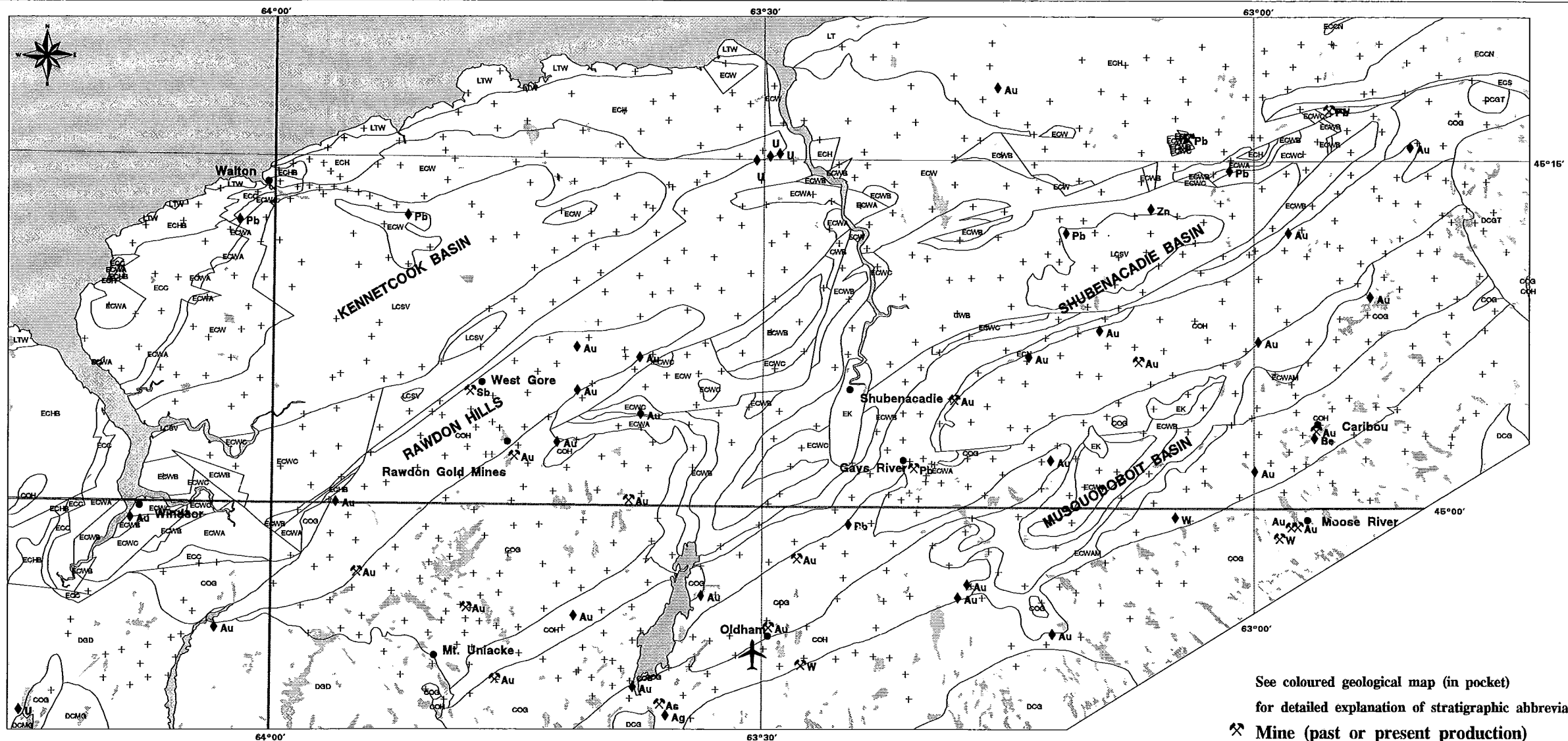
Nova Scotia  
Province of  
Nova Scotia

# LEAD in BALSAM FIR TWIGS

Scale 1:400 000 - Échelle 1/400 000

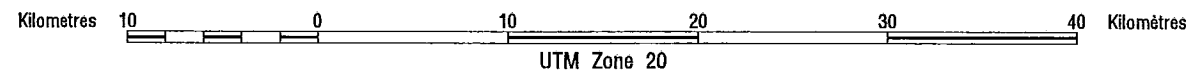
Kilometres 10 0 10 20 30 40 Kilomètres  
UTM Zone 20





# **GEOLOGY OVERLAY** (With Metallic Mineral Deposits and Occurrences)

Scale 1:400 000 - Échelle 1/400 000

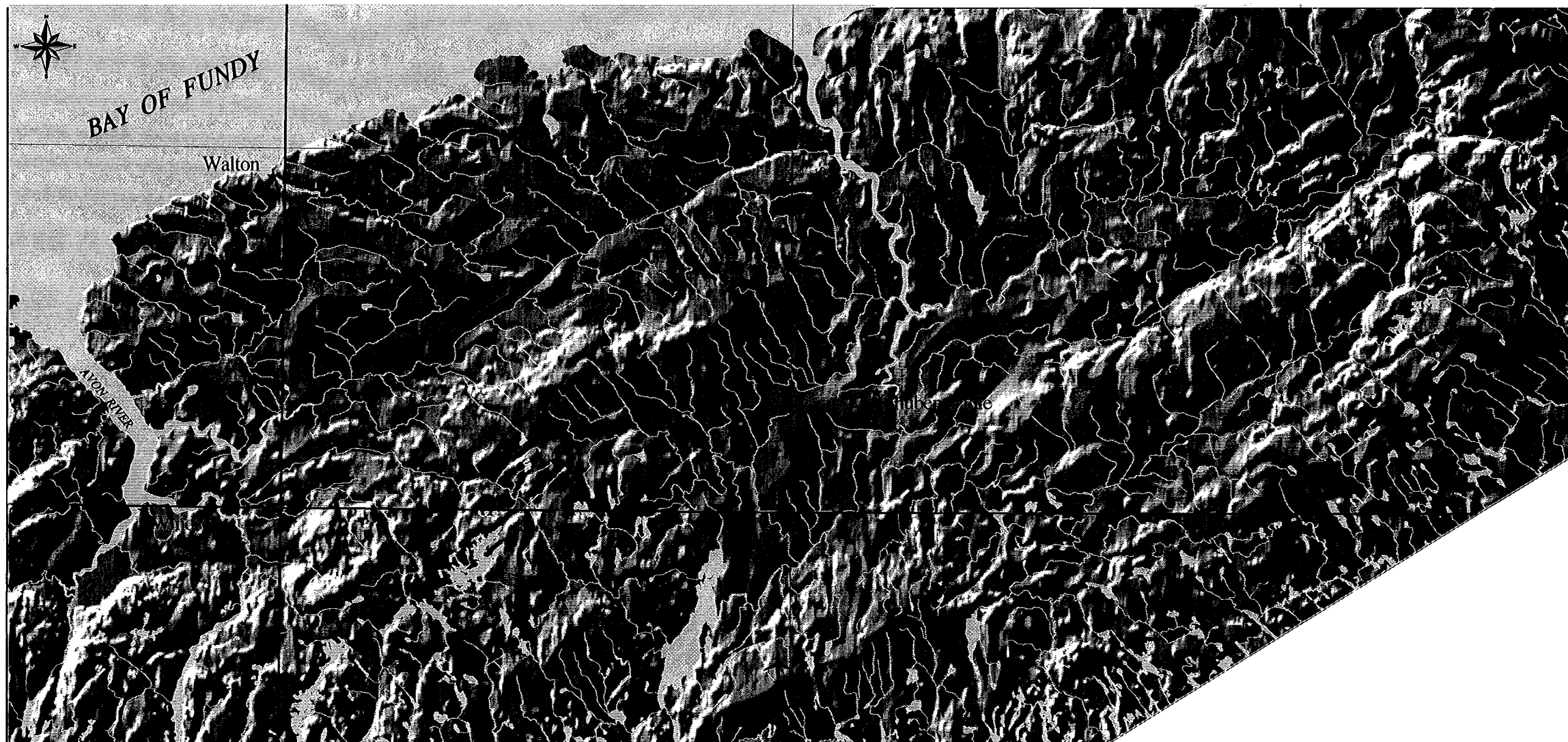


See coloured geological map (in pocket)  
for detailed explanation of stratigraphic abbreviations

- ✕ Mine (past or present production)
- ◆ Metallic mineral occurrence  
(excluding Mn and Fe - many  
occurrences on N. Side of Kennetcook  
Basin)

From: Keppie (1979), with  
mineral occurrences added  
by Gregory et al. (undated)

REPRODUCE THIS SHEET AS A TRANSPARENCY



# ***DIGITAL ELEVATION***

## **Central Nova Scotia**

Scale 1:400 000 - Échelle 1/400 000



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