

# **GEOSCIENCE BC**

## **MPB REGIONAL GEOCHEMICAL DATA REPOSITORY**

**VERSION 1.0 (JULY 2007)**

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**File: TILL README.PDF**

### **SURVEY SUMMARY**

Publicly funded reconnaissance-scale regional till surveys have been conducted in BC since the early 1990's. Information for a total of 4,601 till sample sites have been included as part of the MPB data repository (see attached map).

### **DATA NOTES**

A total of 14 different till surveys have been conducted in the MPB area from 1990 to 2000 and include both ICP and INAA analytical information. Several surveys include additional analyses for major element oxides and determinations on different size fractions. Currently the MPB repository only includes elements analyzed by ICP and INAA in 64 micron till material. Analytical information between surveys often differs in the types of elements determined, the analytical laboratory conducting the analysis and/or the analytical methods used. Also, some of the surveys include sites where multiple samples (STATUS = 2 to 20) have been collected at various pit depths.

Analytical data are provided in the following files in XLS, DBF and ARC Shapefile formats. Refer to attached tables for a listing of associated elements and analytical detection limits.

1. TILL\_ICP

2. TILL\_INA

Refer to README.PDF for a description of the digital data file structure.

### **REFERENCES**

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- Weary G.F., Levson, V.M. and Broster, B.E. (1997): Till geochemistry of the Chedakuz Creek map area (93F/7); *BC Ministry of Energy, Mines and Petroleum Resources*, Open File 1997-11.
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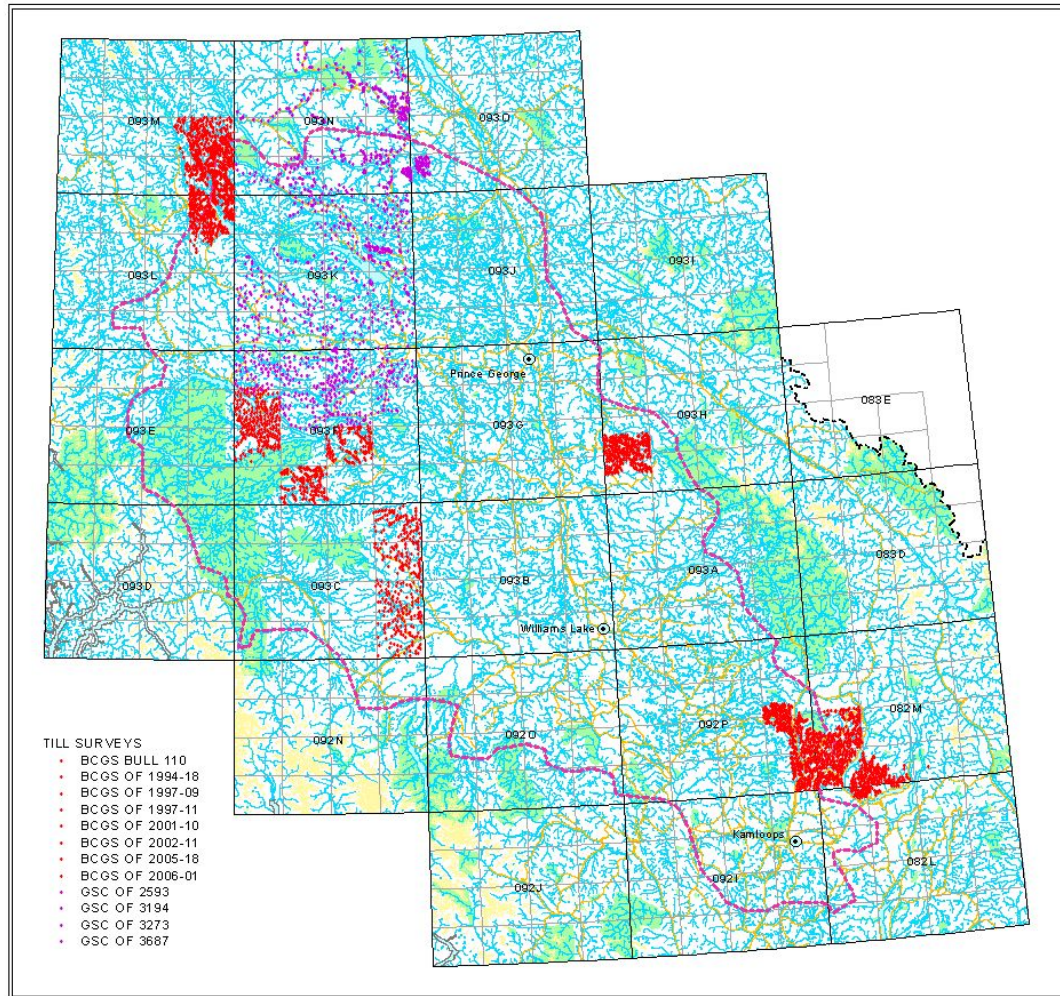
## WWW LINKS

<http://www.em.gov.bc.ca/Mining/Geolsurv/Geochinv/tillgeo.htm>  
[http://gdr.nrcan.gc.ca/geochem/metadata\\_svy\\_e.php?key=210040](http://gdr.nrcan.gc.ca/geochem/metadata_svy_e.php?key=210040)  
[http://gdr.nrcan.gc.ca/geochem/metadata\\_pub\\_e.php?id=00231](http://gdr.nrcan.gc.ca/geochem/metadata_pub_e.php?id=00231)  
[http://gdr.nrcan.gc.ca/geochem/metadata\\_svy\\_e.php?key=210064](http://gdr.nrcan.gc.ca/geochem/metadata_svy_e.php?key=210064)  
[http://gdr.nrcan.gc.ca/geochem/metadata\\_pub\\_e.php?id=00582](http://gdr.nrcan.gc.ca/geochem/metadata_pub_e.php?id=00582)

## UPDATE HISTORY

- ✓ Preliminary release January 2007
- ✓ Version 1.0 released July 2007

Location map showing till sample sites included in the MPB data repository.



Total Samples:	5,200
Total Sites:	4,601
Collection Years:	1990 to 2000
Area Covered:	40,000 sq km
Average Density:	1 site per 2.5 to 1 site per 10 sq km

## Analytical data and reported detection limits.

## FILE: TILL\_ICP:

REPORT	MAP	YEAR	N	LAB	MTHD	Au ppb	Ag ppm	Al pct	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca pct	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe pct	Ga ppm	Hg ppb	K pct	La ppm	Li ppm	Mg pct	Mn ppm	Mo ppm
GSC OF 2593	93K/N	1990	336	BONDAR	ICP		0.2		2		1	0.5	2		0.2	2	1	1	1	0.01	2			1	2		2	1
GSC OF 3194	93K	1993	448	CHEMEX	ICP		0.2	0.01	2		1	0.5	2	0.01	0.2		1	1	1	0.01	2	1 ppm	0.01	1		0.01	2	1
GSC OF 3687	93F	1996	313	CHEMEX	ICP		0.2	0.01	2		1	0.5	2	0.01	0.2		1	1	1	0.01	10	1 ppm	0.01	1		0.01	2	1
GSC OF 3272	93N/O	1996	109	ACME	ICP			0.01						0.01					1				0.01			0.001	2	
BCGS OF 2006-01	93C	1992	330	ACME	ICP		0.2	0.01	2		10	0.5	2	0.01	0.5		1	1	1	0.01		20	0.01			0.01	1	1
BCGS OF 1994-18	93F	1993	171	ACME	ICP		0.1	0.01		2	2		2	0.01	0.2		1	1	1	0.01				0.01		0.01	1	1
BCGS OF 1997-11	93F	1994	143	ACME	ICP		0.1	0.01	2		1			0.01	0.2		1	1	1	0.01				0.01		0.01	2	1
BCGS BULL 110	93L/M	1995	937	ACME	ICP		0.3	0.01	2		1			0.01	0.2		1	1	1	0.01		10	0.01			0.01	2	1
BCGS OF 1997-09	82M	1996	496	ACME	ICP		0.3	0.01	2	3	1		2	0.01	0.2		1	1	1	0.01			0.01	1		0.01	2	1
BCGS OF 2002-11	93F	1995/98	181	ACME	ICP		0.3	0.01	2	3	1		3	0.01	0.2		1	1	1	0.01	0.5	10	0.01			0.01	2	1
BCGS OF 2002-11	93F	1997	93	ACME	ICP+		0.05	0.01	2	3	1		0.2	0.01	0.2		1	1	1	0.01	0.5	10	0.01			0.01	2	1
BCGS OF 2005-18	92P/82M/L	1997/98	719	ACME	ICP+		2 ppb	0.01	0.1		1		0.2	0.01	0.2		1	1	0.1	0.01	0.1	10	0.01	1		0.01	1	0.1
BCGS OF 2001-10	93H	2000	324	ACME	ICPMS		2 ppb	0.01	0.1		1		0.02	0.01	0.01		0.1	0.5	0.01	0.01	0.01	5	0.01	0.5		0.01	1	0.01

REPORT	MAP	YEAR	N	LAB	MTHD	Na pct	Nb ppm	Ni ppm	P pct	Pb ppm	Rb ppm	S pct	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti pct	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
GSC OF 2593	93K/N	1990	336	BONDAR	ICP		2	1		2	2		2	1		2	2	5	5					2	10	2	1	2
GSC OF 3194	93K	1993	448	CHEMEX	ICP	0.01		1	0.001	2			2	1			2				0.01			2			1	
GSC OF 3687	93F	1996	313	CHEMEX	ICP	0.01		1	0.001	2			2	1			1				0.01	10	10	1	10		1	
GSC OF 3272	93N/O	1996	109	ACME	ICP	0.01		1		2														2				2
BCGS OF 2006-01	93C	1992	330	ACME	ICP	0.01		1	10 ppm	2				1			2				0.01			2			2	
BCGS OF 1994-18	93F	1993	171	ACME	ICP	0.01		1	0.001	2							1				0.01			2			1	
BCGS OF 1997-11	93F	1994	143	ACME	ICP	0.01		1	0.001	3							1				0.01			1			1	
BCGS BULL 110	93L/M	1995	937	ACME	ICP	0.01		1	0.001	3							1				0.01			1			1	
BCGS OF 1997-09	82M	1996	496	ACME	ICP	0.01		1	0.001	3			2				1			2	0.01			1	2		1	
BCGS OF 2002-11	93F	1995/98	181	ACME	ICP	0.01		1	0.001	3							1				0.01			1			1	
BCGS OF 2002-11	93F	1997	93	ACME	ICP+	0.01		1	0.001	3							1				0.01			1			1	
BCGS OF 2005-18	92P/82M/L	1997/98	719	ACME	ICP+	0.01		1	0.001	0.1			0.1		0.3		1		0.2	1	0.01	0.2		1			0.1	
BCGS OF 2001-10	93H	2000	324	ACME	ICPMS	0.001		0.1	0.001	0.01			0.02		0.1		0.5		0.02	0.1	0.001	0.02		2			0.1	

ICP: Inductively Coupled Plasma Analysis

ICP+: Inductively Coupled Plasma – Ultra Trace

ICPMS: Inductively Coupled Plasma Mass Spectrometry

## FILE: TILL\_INAA:

REPORT	MAP	YEAR	N	LAB	MTHD	Au ppb	Ag ppm	As ppm	Ba ppm	Br ppm	Ca ppm	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Eu ppm	Fe pct	Hf ppm	Hg ppm	Ir ppb	La ppm	Lu ppm	Mo ppm
BCGS OF 2006-01	93C	1992	460	Activation	INAA	2		1	50	0.5	1		3	1	5	1	0.2	0.01	1			1	0.05	1
BCGS OF 1994-18	93F	1993	679	Activation	INAA	2		0.5	50	0.5	1		3	1	5	1	0.2	0.01	1			0.5	0.05	
BCGS OF 1997-11	93F	1994	390	Activation	INAA	2		0.5	50	0.5			3	1	5	1	0.2	0.01	1			0.5	0.05	
BCGS OF 2002-11	93F	1995	274	Activation	INAA	2		0.5	50	0.5			3	1	5	1	0.2	0.01	1			0.5	0.05	
BCGS BULL 110	93L/M	1995	330	Activation	INAA	2		0.5	50	0.5			3	1	5	1	0.2	0.01	1			0.5	0.05	
BCGS OF 1997-09	82L/M	1996	171	Activation	INAA	2		0.5	50	0.5	1		3	1	5	1	0.2	0.01	1			1	0.05	1
BCGS OF 2005-18	92P	1997	143	Activation	INAA	2		0.5	50	0.5	1		3	1	5	1	0.2	0.01	1			0.5	0.05	1
BCGS OF 2001-10	93H	2000	995	Activation	INAA	2		0.5	50	0.5	1		3	1	5	1	0.2	0.01	1			0.5	0.05	
GSC OF 3272	93N/O	1996	109	Activation	INAA	1.5		0.5	50				3	1	5		0.2	0.01				1	0.05	
GSC OF 2593	93K/N	1990	526	Becquerel	INAA	2	5	0.5	50	0.5		5	3	1	5	1	0.2	0.01	1		2	1	0.05	1
GSC OF 3194	93K	1993	758	Activation	INAA	2	5	0.5	50	0.5	1		3	1	5	1	0.2	0.01	1	1	2	1	0.05	1
GSC OF 3687	93F	1996	366	Activation	INAA	2	5	0.5	50	0.5	1		3	1	5	1	0.2	0.01	1	1	2	1	0.05	1

REPORT	MAP	YEAR	N	LAB	MTHD	Na pct	Nd ppm	Ni ppm	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Te ppm	Th ppm	U ppm	W ppm	Yb ppm	Zn ppm	Zr ppm
BCGS OF 2006-01	93C	1992	460	Activation	INAA	0.01	5		15	0.1	0.1		0.1			0.5	0.5		0.2	0.5	1	0.2		
BCGS OF 1994-18	93F	1993	679	Activation	INAA	0.01	5		15	0.1	0.1		0.1			0.5	0.5		0.2	0.5	1	0.2		
BCGS OF 1997-11	93F	1994	390	Activation	INAA	0.01	5		15	0.1	0.1		0.1			0.5	0.5		0.2	0.5	1	0.2		
BCGS OF 2002-11	93F	1995	274	Activation	INAA	0.01	5		15	0.1	0.1		0.1			0.5	0.5		0.2	0.5	1	0.2	50	
BCGS BULL 110	93L/M	1995	330	Activation	INAA	0.01	5		15	0.1	0.1		0.1			0.5	0.5		0.2	0.5	1	0.2	50	
BCGS OF 1997-09	82L/M	1996	171	Activation	INAA	0.01	5	20	15	0.1	0.1	3	0.1		100	0.5	0.5		0.5	0.5	1	0.2	50	
BCGS OF 2005-18	92P	1997	143	Activation	INAA	0.01	5		15	0.1	0.1	3	0.1		0.05 pct	0.5	0.5		0.2	0.5	1	0.2	50	
BCGS OF 2001-10	93H	2000	995	Activation	INAA	0.01	5		15	0.1	0.1		0.1			0.5	0.5		0.2	0.5	1	0.2	50	
GSC OF 3272	93N/O	1996	109	Activation	INAA		5		15	0.1			0.1				0.5		0.2	0.5		0.2		
GSC OF 2593	93K/N	1990	526	Becquerel	INAA	0.01		20	15	0.1	0.1	3	0.1	100		0.5	0.5	5	0.2	0.5	1	0.2	50	5
GSC OF 3194	93K	1993	758	Activation	INAA	0.01	5	20	15	0.1	0.1	3	0.1	100	100	0.5	0.5	5	0.2	0.5	1	0.2	50	
GSC OF 3687	93F	1996	366	Activation	INAA	0.01	5	20	15	0.1	0.1	3	0.1	100	500	0.5	0.5		0.2	0.5	1	0.2	50	

INAA: Instrumental Neutron Activation Analysis