

# **GEOSCIENCE BC MPB REGIONAL GEOCHEMICAL DATA REPOSITORY**

**VERSION 1.0 (JULY 2007)**

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## **File: STREAM README.PDF**

### **SURVEY SUMMARY**

Publicly funded reconnaissance-scale regional stream surveys have been conducted in BC since the mid 1970's. Information for a total of 18,038 stream sample sites have been included as part of the MPB data repository (see attached map). Material collected at these sites includes stream sediment and water.

### **DATA NOTES**

A total of 21 different stream surveys have been conducted in the MPB area from 1976 to 2005. Earlier programs utilized AAS to generate a limited selection of analytical information for sediment material. Archived sediment pulps saved from these surveys were reanalyzed by INAA in the 1990's and more recent surveys include both ICP and INAA methods. As a result, analytical information between surveys often differs in the types of elements determined, the analytical laboratory conducting the analysis and/or the analytical methods used.

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. STRM_SED_AAS | 3. STRM_SED_INA | 5. STRM_SED_OTHR |
| 2. STRM_SED_ICP | 4. STRM_WATR    |                  |

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

### **REFERENCES**

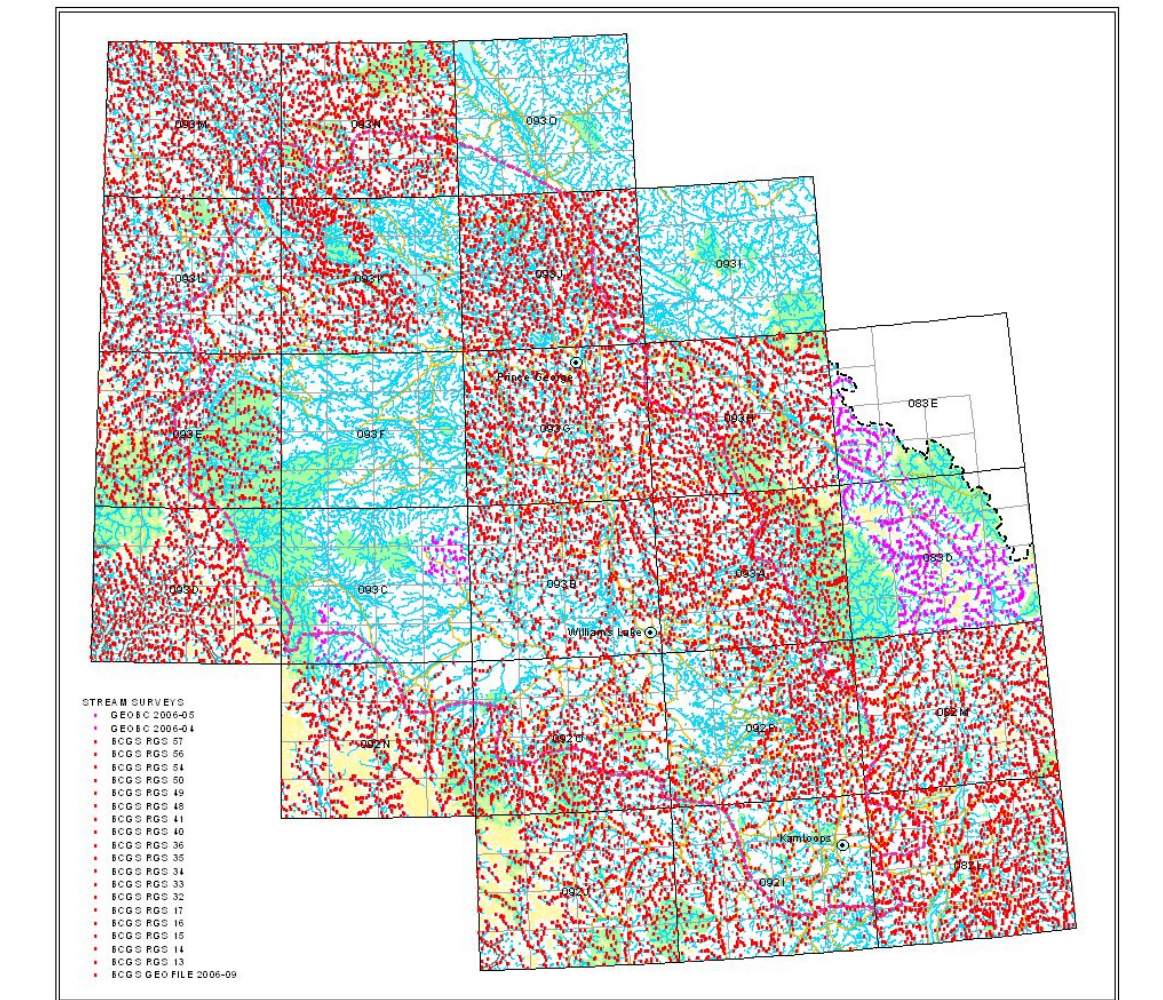
Lett, R.E.W. (2005): Regional Geochemical Survey Database on CD, *BC Ministry of Energy, Mines and Petroleum Resources*, Geofile 2005-17.

### **WWW LINKS**

<http://www.em.gov.bc.ca/Mining/Geolsurv/Geochinv/rgs.htm>

### **UPDATE HISTORY**

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



## Analytical data and reported detection limits.

## FILE: STRM\_SED\_AAS:

REPORT	MAP	YEAR	N	LAB	MTHD	Au ppb	Ag ppm	As ppm	Ba ppm	Bi ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe pct	Hg ppb
BCGS RGS 32	82L	1976	1385	CHEMEX	AAS		0.2					2		2	0.02	
BCGS RGS 33	82M	1977	1219	CHEMEX	AAS		0.2					2		2	0.02	10
BCGS RGS 35	92O	1979	935	CHEMEX	AAS		0.2	0.5				2		2	0.02	10
BCGS RGS 36	92P	1979	913	CHEMEX	AAS		0.2	0.5				2		2	0.02	10
BCGS RGS 50	93A	1980	1292	CHEMEX	AAS		0.2	0.5				2		2	0.02	10
BCGS RGS 54	93B	1980	757	CHEMEX	AAS		0.2	0.5				2		2	0.02	10
BCGS RGS 40	92I	1981	606	CHEMEX	AAS		0.2	0.5				2		2	0.02	10
BCGS RGS 41	92J	1981	852	CHEMEX	AAS		0.2	0.5				2		2	0.02	10
BCGS RGS 48	93M	1983	1099	CHEMEX	AAS		0.2	0.5				2		2	0.02	10
BCGS RGS 49	93N	1983	1123	CHEMEX	AAS		0.2	0.5				2		2	0.02	10
BCGS RGS 13	93G	1984/85	1159	BARRINGER/BONDAR	AAS		0.2	0.5	10		0.2	2		2	0.02	10
BCGS RGS 14	93H	1984/85	1185	BARRINGER/BONDAR	AAS		0.2	0.5	10		0.2	2		2	0.02	10
BCGS RGS 15	93J	1985	1152	BARRINGER	AAS		0.2	0.5	10		0.2	2		2	0.02	10
BCGS RGS 16	93E	1986	951	CHEMEX	AAS+	2	0.2	0.5	10		0.2	2		2	0.02	10
BCGS RGS 17	93L	1986	900	BONDAR	AAS+	2	0.2	0.5	10		0.2	2		2	0.02	10
BCGS RGS 34	92N	1991	868	BARRINGER	AAS		0.2	0.5		0.2	0.2	2	0.2	2	0.02	10

REPORT	MAP	YEAR	N	LAB	MTHD	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	U ppm	V ppm	W ppm	Zn ppm
BCGS RGS 32	82L	1976	1385	CHEMEX	AAS	5	1	2	2				0.5			2
BCGS RGS 33	82M	1977	1219	CHEMEX	AAS	5	1	2	2				0.5			2
BCGS RGS 35	92O	1979	935	CHEMEX	AAS	5	1	2	2				0.5		1	2
BCGS RGS 36	92P	1979	913	CHEMEX	AAS	5	1	2	2				0.5		1	2
BCGS RGS 50	93A	1980	1292	CHEMEX	AAS	5	1	2	2	0.2			0.5		1	2
BCGS RGS 54	93B	1980	757	CHEMEX	AAS	5	1	2	2	0.2			0.5		1	2
BCGS RGS 40	92I	1981	606	CHEMEX	AAS	5	1	2	2	0.2			0.5		1	2
BCGS RGS 41	92J	1981	852	CHEMEX	AAS	5	1	2	2	0.2			0.5		1	2
BCGS RGS 48	93M	1983	1099	CHEMEX	AAS	5	1	2	2	0.2			0.5		1	2
BCGS RGS 49	93N	1983	1123	CHEMEX	AAS	5	1	2	2	0.2			0.5		1	2
BCGS RGS 13	93G	1984/85	1159	BARRINGER/BONDAR	AAS	5	1	2	2	0.2			0.5	5	1	2
BCGS RGS 14	93H	1984/85	1185	BARRINGER/BONDAR	AAS	5	1	2	2	0.2			0.5	5	1	2
BCGS RGS 15	93J	1985	1152	BARRINGER	AAS	5	1	2	2	0.2			0.5	5	1	2
BCGS RGS 16	93E	1986	951	CHEMEX	AAS+	5	1	2	2	0.2			0.5		1	2
BCGS RGS 17	93L	1986	900	BONDAR	AAS+	5	1	2	2	0.2			0.5		1	2
BCGS RGS 34	92N	1991	868	BARRINGER	AAS	5	1	2	2	0.2			0.5	5	1	2

AAS: Atomic Absorption Spectrometry

AAS+: Atomic Absorption Spectrometry plus gold by fire assay.

## FILE: STRM\_SED\_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
BCGS GF 2006-09	93J	1985	1088	ACME	ICPMS	0.2	2 ppb	0.01	0.1		0.5		0.02	0.01	0.01		0.1	0.5	0.01	0.01	0.2	5	0.01	0.5		0.01	1	0.01
BCGS RGS 56	93D	1999	900	ACME	ICPMS	0.2	2 ppb	0.01	0.1		0.5		0.02	0.01	0.01		0.1	0.5	0.01	0.01	0.2	5	0.01	0.5		0.01	1	0.01
BCGS RGS 57	93K	2002	795	ACME	ICPMS		2 ppb	0.01	0.1		0.5		0.02	0.01	0.01		0.1	0.5	0.01	0.01	0.2	5	0.01	0.5		0.01	1	0.01
GEOBC 2006-04	93C/F	2005	101	ACME	ICPMS	0.2	2 ppb	0.01	0.1		0.5		0.02	0.01	0.01		0.1	0.5	0.01	0.01	0.1	5	0.01	0.5		0.01	1	0.01
GEOBC 2006-05	83D/E	2005	755	ACME	ICPMS	0.2	2 ppb	0.01	0.1		0.5		0.02	0.01	0.01		0.1	0.5	0.01	0.01	0.1	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
BCGS GF 2006-09	93J	1985	1088	ACME	ICPMS	0.001		0.1	0.001	0.01		0.02	0.02	0.1	0.1		0.5		0.02	0.1	0.001	0.02	0.1	2	0.1		0.1	
BCGS RGS 56	93D	1999	900	ACME	ICPMS	0.001		0.1	0.001	0.01		0.02	0.02	0.1	0.1		0.5		0.02	0.1	0.001	0.02	0.1	2	0.1		0.1	
BCGS RGS 57	93K	2002	795	ACME	ICPMS	0.001		0.1	0.001	0.01		0.02	0.02	0.1	0.1		0.5		0.02	0.1	0.001	0.02	0.1	2	0.1		0.1	
GEOBC 2006-04	93C/F	2005	101	ACME	ICPMS	0.001		0.1	0.001	0.01		0.01	0.02	0.1	0.1		0.5		0.02	0.1	0.001	0.02	0.1	2	0.1		0.1	
GEOBC 2006-05	83D/E	2005	755	ACME	ICPMS	0.001		0.1	0.001	0.01		0.01	0.02	0.1	0.1		0.5		0.02	0.1	0.001	0.02	0.1	2	0.1		0.1	

ICPMS: Inductively Coupled Plasma Mass Spectrometry

## FILE: STRM\_SED\_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 RGS 32	82L	1976	1385	Becquerel	INAA	2		0.5	100	0.5			10	5	5	0.5		0.2	1			5	0.2	1
BCGS RGS 33	82M	1977	1219	Becquerel	INAA	2		0.5	100	0.5			10	5	5	0.5		0.2	1			5	0.2	1
BCGS RGS 35	92O	1979	935	Becquerel	INAA	2		0.5	100	0.5			10	5	5	0.5		0.2	1			5	0.2	1
BCGS RGS 36	92P	1979	913	Becquerel	INAA	2		0.5	100	0.5			10	5	5	0.5		0.2	1			5	0.2	1
BCGS RGS 50	93A	1980	1292	Becquerel	INAA	2		0.5	100	0.5			10	5	5	0.5		0.2	1			5	0.2	1
BCGS RGS 54	93B	1980	757	Becquerel	INAA	2		0.5	100	0.5			10	5	5	0.5		0.2	1			5	0.2	1
BCGS RGS 40	92I	1981	606	Becquerel	INAA	2		0.5	100	0.5			10	5	5	0.5		0.2	1			5	0.2	1
BCGS RGS 41	92J	1981	852	Becquerel	INAA	2		0.5	100	0.5			10	5	5	0.5		0.2	1			5	0.2	1
BCGS RGS 48	93M	1983	1099	Becquerel	INAA	2		0.5	100	0.5			10	5	5	0.5		0.2	1			5	0.2	1
BCGS RGS 49	93N	1983	1123	Becquerel	INAA	2		0.5	100	0.5			10	5	5	0.5		0.2	1			5	0.2	1
BCGS RGS 13	93H	1984/85	1159	Becquerel	INAA	2		0.5	100	0.5			10	5	5	0.5		0.2	1			5	0.2	1
BCGS RGS 14	93G	1984/85	1185	Becquerel	INAA	2		0.5	100	0.5			10	5	5	0.5		0.2	1			5	0.2	1
BCGS RGS 34	92N	1991	868	Activation	INAA	2		0.5	50	0.5			3	1	5	1		0.01	1			0.5	0.05	1
BCGS RGS 56	93D	1999	951	Becquerel	INAA	2		0.5	50	0.5			5	5	20	0.5	1	0.2	1			2	0.2	
BCGS RGS 57	93K	2002	843	Becquerel	INAA	2		0.5	50	0.5			5	5	20	0.5	1	0.2	1			2	0.2	
GEOBC 2006-04	93C/F	2005	106	Becquerel	INAA	2		0.5	50	0.5			5	5	20	0.5	1	0.2	1			2	0.2	1
GEOBC 2006-05	83D/E	2005	801	Becquerel	INAA	2		0.5	50	0.5			5	5	20	0.5	1	0.2	1			2	0.2	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 RGS 32	82L	1976	1385	Becquerel	INAA	0.1		10	5	0.1	0.5		0.5			0.5	0.5		0.5	0.2	2	2		200
BCGS RGS 33	82M	1977	1219	Becquerel	INAA	0.1		10	5	0.1	0.5		0.5			0.5	0.5		0.5	0.2	2	2		200
BCGS RGS 35	92O	1979	935	Becquerel	INAA	0.1		10	5	0.1	0.5		0.5			0.5	0.5		0.5	0.2	2	2		200
BCGS RGS 36	92P	1979	913	Becquerel	INAA	0.1		10	5	0.1	0.5		0.5			0.5	0.5		0.5	0.2	2	2		200
BCGS RGS 50	93A	1980	1292	Becquerel	INAA	0.1		10	5	0.1	0.5		0.5			0.5	0.5		0.5	0.2	2	2		200
BCGS RGS 54	93B	1980	757	Becquerel	INAA	0.1		10	5	0.1	0.5		0.5			0.5	0.5		0.5	0.2	2	2		200
BCGS RGS 40	92I	1981	606	Becquerel	INAA	0.1		10	5	0.1	0.5		0.5			0.5	0.5		0.5	0.2	2	2		200
BCGS RGS 41	92J	1981	852	Becquerel	INAA	0.1		10	5	0.1	0.5		0.5			0.5	0.5		0.5	0.2	2	2		200
BCGS RGS 48	93M	1983	1099	Becquerel	INAA	0.1		10	5	0.1	0.5		0.5			0.5	0.5		0.5	0.2	2	2		200
BCGS RGS 49	93N	1983	1123	Becquerel	INAA	0.1		10	5	0.1	0.5		0.5			0.5	0.5		0.5	0.2	2	2		200
BCGS RGS 13	93H	1984/85	1159	Becquerel	INAA	0.1		10	5	0.1	0.5		0.5			0.5	0.5		0.5	0.2	2	2		200
BCGS RGS 14	93G	1984/85	1185	Becquerel	INAA	0.1		10	5	0.1	0.5		0.5			0.5	0.5		0.5	0.2	2	2		200
BCGS RGS 34	92N	1991	868	Activation	INAA	0.01		10	15	0.1	0.1		0.1			0.5	0.5		0.2	0.5	1	0.2		
BCGS RGS 56	93D	1999	951	Becquerel	INAA	0.02			5	0.1	0.2		0.1			0.5	0.5		0.2	0.2	1	2		
BCGS RGS 57	93K	2002	843	Becquerel	INAA	0.02			5	0.1	0.2		0.1			0.5	0.5		0.2	0.2	1	2		
GEOBC 2006-04	93C/F	2005	106	Becquerel	INAA	0.02			5	0.1	0.2		0.1			0.5	0.5		0.2	0.2	1	2		
GEOBC 2006-05	83D/E	2005	801	Becquerel	INAA	0.02			5	0.1	0.2		0.1			0.5	0.5		0.2	0.2	1	2		

INAA: Instrumental Neutron Activation Analysis

FILE: STRM\_SED\_OTHR:

MAP	YEAR	REPORT	SITES	F ppm	LOI pct
93G	1984/85	BCGS RGS 13	1095		0.1
93H	1984/85	BCGS RGS 14	1119		0.1
93J	1985	BCGS RGS 15	1088		0.1
93E	1986	BCGS RGS 16	898		0.1
93L	1986	BCGS RGS 17	850	40	0.1
92N	1991	BCGS RGS 34	820	40	0.1
93D	1999	BCGS RGS 56	900		0.1
93K	2002	BCGS RGS 57	795	40	0.1
93C/F	2005	GEOBC 2006-04	101	40	0.1
83D/E	2005	GEOBC 2006-05	755	40	0.1

FILE: STRM\_WATR:

MAP	YEAR	REPORT	SITES	pH	U ppb	F ppb	SO4 ppm	CND uS
82L	1976	BCGS RGS 32	1309	0.1	0.05	10		
82M	1977	BCGS RGS 33	1151	0.1	0.05	10		
92O	1979	BCGS RGS 35	885	0.1	0.05	10		
92P	1979	BCGS RGS 36	863	0.1	0.05	10		
93A	1980	BCGS RGS 50	1219	0.1	0.05	10		
93B	1980	BCGS RGS 54	715	0.1	0.05	10		
92I	1981	BCGS RGS 40	572	0.1	0.05	10		
92J	1981	BCGS RGS 41	806	0.1	0.05	10		
93M	1983	BCGS RGS 48	1037	0.1	0.05	10		
93N	1983	BCGS RGS 49	1060	0.1	0.05	10		
93G	1984/85	BCGS RGS 13	1095	0.1	0.05	10		
93H	1984/85	BCGS RGS 14	1119	0.1	0.05	10		
93J	1985	BCGS RGS 15	1088	0.1	0.05	10		
93E	1986	BCGS RGS 16	898	0.1	0.05	10		
93L	1986	BCGS RGS 17	850	0.1	0.05	10		
92N	1991	BCGS RGS 34	820	0.1	0.05	10	1	
93D	1999	BCGS RGS 56	900	0.1	0.05	10		
93K	2002	BCGS RGS 57	795	0.1	0.05	10		
93C/F	2005	GEOBC 2006-04	101	0.1		10		1
83D/E	2005	GEOBC 2006-05	755	0.1		10		1