BRITISH COLUMBIA

Ministry of Employment and Investment
Energy and Minerals Division
Geological Survey Branch

Geological Survey Branch

OPEN FILE 1997-14

PRELIMINARY GEOLOGY OF THE NORTHERN KECHIKA TROUGH, BRITISH COLUMBIA

NTS 94L/14, 15; 94M/3, 4, 5, 6, 12, 13; 104P/8, 9, 15, 16

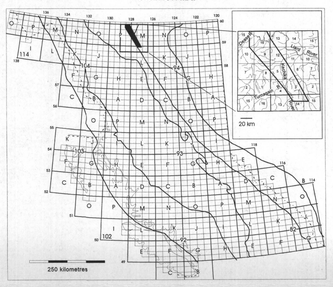
by Filippo Ferri, Chris Rees, JoAnne Nelson and Andrew Legun

SCALE 1:100 000

kilometres

1 0 1 2 3 4 5 6 7 8 9 10

LOCATION MAP



LITHOGEOCHEMICAL SAMPLES

MAP NO.	FIELD NO.	EASTING	NORTHING	DESCRIPTION
1	FFE96-7-4-2	592352	6554016	Rusty-brown weathering, dark grey carbonate bed within slate; unit DME
2	FFE96-19-4	570407	6592527	Thin pyritic layer in grey to black calcareous siltstone (cf. MINFILE 94M 020); unit Ṕ
3	FFE96-19-4b	570407	6592527	Vein, 30 cm thick, of calcite with smithsonite, in calcareous siltstone (cf. MINFILE 94M 020); unit Ṕ
4	FFE96-25-11	599644	6541418	Siliceous horizons, with disseminated pyrite, in grey slate and siltstone; unit OSDRR
5	CRE96-9-6	573289	6570067	White quartz vein, slightly rusty, in phyllite; unit P̈Pc
6	CRE96-17-3	568430	6604762	Grey to black, (baritic?) limy siltstone to silty limestone; unit Ṕ
7	CRE96-17-6-1	570749	6604575	Quartz-carbonate vein, with sphalerite, malachite, in limestone (MINFILE 94M 018); unit OSDRR
8	CRE96-19-7-2	564710	6589100	Gossanous quartz vein and slate, argillite; unit COKR/DME
9	CRE96-25-3	601810	6541106	Pyrite in sulphides in dark grey carbonaceous, dolomitic siltstone, slate; unit OSDRR
10	JN96-11-3	578287	6585352	'Kechika River Barite'. 1-10 cm thick barite beds with pyrite laminations; unit DME
11	JN96-15-5	567444	6576777	Quartz-ankerite-muscovite vein, with pyrite, in grey laminated phyllite; unit P̈Pc

LITHOGEOCHEMICAL ANALYSES

	Element	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe*	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ba	Ti	B	Al	Na	K	W	Au**
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	ppm	ppb
	Method	AICP	AICP	AICP	AICP	AICP	AICP	AICP	AICP	ACP	ACP	AICP	AICP	AICP	AICP	AICP	AICP	AICP	AICP	AICP	AICP	AICP	AICP	AICP	AICP	XRF2	AICP	AICP	AICP	AICP	AICP	AICP	FAAS
	Lab	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	ACM	COM	ACM	ACM	ACM	ACM	ACM	ACM	ACM
	Detection limit	1	1	3	1	0.3	1	1	2	0.01	2	5	2	2	1	0.2	2	2	1	0.01	0	1	1	0.01	1	5	0.01	3	0.01	0.01	0.01	2	2
Map No.	Field Number																																
1	FFE96-7-4-2	1	14	11	62	0.3	23	1	640	0.49	17	< 5	< 2	< 2	990	1.1	< 2	< 2	139	21.11	0.078	1	61	12.46	606	811	< .01	3	0.06	0.01	0.01	< 2	5
2	FFE96-19-4	83	109	20	394	1	16	5	56	18.54	88	< 5	< 2	< 2	15	3.6	< 2	< 2	8	1.94	0.004	1	39	0.08	97	23710	< .01	< 3	0.04	0.01	0.09	< 2	5
3	FFE96-19-4b	6	25	5	30819	0.5	4	1	405	1.08	< 2	< 5	< 2	< 2	704	330.7	< 2	2	14	30.45	0.008	11	22	1.85	66	47574	< .01	< 3	0.02	< .01	0.01	< 2	9
4	FFE96-25-11	2	40	9	191	< 3	36	10	1142	9.78	10	< 5	< 2	2	399	< .2	2	< 2	11	5.39	0.086	4	44	2.32	20	3813	< .01	< 3	0.24	0.01	0.05	< 2	4
5	CRE96-9-6	14	118	70	325	4	19	2	13	0.94	66	7	< 2	2	101	2.3	27	< 2	167	0.61	0.051	3	79	0.03	232	1236	< .01	8	0.28	< .01	0.15	< 2	8
6	CRE96-17-3	3	8	< 3	173	0.3	22	2	99	0.39	3	< 5	< 2	< 2	550	6.9	< 2	< 2	20	27.85	0.024	12	68	0.32	1937	2379	< .01	< 3	0.2	< .01	0.04	< 2	< 2
7	CRE96-17-6-1	1	27	3	4167	0.3	7	1	20	0.15	3	< 5	< 2	< 2	1443	55.8	7	< 2	99	28.55	0.02	6	85	0.53	1238	1185	< .01	< 3	0.03	< .01	< 2	< 2	6
8	CRE96-19-7-2	1	6	< 3	18	< 3	4	< 1	18	1.09	19	< 5	< 2	< 2	30	< .2	< 2	< 2	84	0.11	0.101	2	135	0.01	85	610	< .01	< 3	0.12	< .01	0.09	< 2	11
9	CRE96-25-3	3	30	17	67	< 3	42	11	307	2.65	51	< 5	< 2	2	85	< .2	< 2	< 2	9	5.68	0.024	4	28	2.63	132	1078	< .01	5	0.39	< .01	0.2	< 2	50
10	JN96-11-3	2	17	6	198	< 3	31	8	253	1.69	4	5	< 2	< 2	257	3.8	2	< 2	11	0.88	0.078	2	14	0.33	147	42402	< .01	< 3	1.15	< .01	0.06	< 2	< 2
11	JN96-15-5	3	8	7	167	< 3	9	4	266	2.12	< 2	< 5	< 2	< 2	108	1.5	< 2	< 2	4	2.62	0.041	2	91	0.96	142	558	< .01	< 3	0.05	0.01	0.03	< 2	< 2

NOTES

Fe* = possible Fe contamination from steel mill grinding
AICP = Aqua regia digestion-ICPES
ACM = ACME Analytical
FAAS = Fire assay-ICP Finish
XRF2 = Pressed pellet XRF
COM = Comineo

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Copies of this map may be obtained from Crown Publications Inc., Victoria, B.C.

BASE MAP INFORMATION

ELEVATIONS IN METRES OR FEET ABOVE SEA LEVEL; CONTOUR INTERVAL VARIES

TRANSVERSE MERCATOR PROJECTION

ONE THOUSAND METRE UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 9

NORTH AMERICAN DATUM 1927

GRID NORTH IS APPROXIMATELY 1° EAST OF TRUE NORTH

N.B. OUTCROP LOCATIONS ARE DIGITALLY REFERENCED TO LOCAL UTM COORDINATES. DUE TO MINOR DISCREPANCIES IN UTM GRID BETWEEN NTS BASE MAP SHEETS, LOCATION ERRORS UP TO 200 METRES WITH RESPECT TO TOPOGRAPHIC BASE MAY BE PRESENT

LEGEND

ANCESTRAL NORTH AMERICA

CENOZOIC
QUATERNARY

Q — *Glacial deposits and post-glacial alluvium.*

TERTIARY TO QUATERNARY

TQT — **TUYA FORMATION**
Fresh, massive and fragmental basalt. Dark grey-brown to dark green, plagioclase-olivine-phyric. Locally vesicular or glassy. Minor basaltic tuff, with angular basalt fragments.

PALEOZOIC
MISSISSIPPIAN TO PERMIAN

MPMC — **MOUNT CHRISTIE FORMATION**
Grey to buff-weathering, pale to dark grey chert. Locally pale salmon pink or green. Thinly to thickly bedded. Minor argillite. Locally found stratigraphically above Earn Group.

UPPER DEVONIAN TO MISSISSIPPIAN

DME — **EARN GROUP**
Pale grey to blue-grey weathering, dark grey to black argillite, cherty argillite, siltstone and slate. Generally carbonaceous. Thinly to thickly bedded. Locally calcareous, ranging to black, fetid, platy to blocky argillaceous limestone (possibly related to Kitza Creek facies). Rare bedded barite: pale grey, fine to medium grained, with fine pyrite laminations, and associated with grey slate with barite and pyrite nodules.

UPPER ORDOVICIAN TO MIDDLE DEVONIAN

OSDRR — **ROAD RIVER GROUP**
Upper part: 'Silurian Siltstone': Buff-brown to orange-weathering, grey to greenish-grey siltstone, dolomitic siltstone. Commonly bioturbated, with wispy or mottled texture, or thinly laminated. Locally coarser grained, becoming fine sandstone which may be cross-laminated. Generally well and thinly to thickly bedded, with interbeds of grey slate or argillite, which predominate in some areas. Minor grey limestone; grey to grey-brown banded chert; sooty black slate or argillite; grey, fine-grained sandstone to quartzite, locally calcareous.

Lower part: Recessive, grey to blue-grey weathering, carbonaceous, grey to black shale to slate and argillite, partly siliceous; siltstone, cherty siltstone and chert; grey to bluish-grey limestone. Thinly to moderately thickly bedded.

UPPER CAMBRIAN AND ORDOVICIAN

COKR — *Undifferentiated Kechika and lower Road River groups.*

UPPER CAMBRIAN TO LOWER ORDOVICIAN

COK — **KECHIKA GROUP**
Pale grey to creamy-buff weathering, thinly and regularly interbedded grey to dark grey laminated slate, calcareous slate and fine-grained limestone, silty or platy limestone, silty limestone. On weathering, generally soft, friable, with shiny lustre. Fine to medium-grained, thickly bedded grey limestone predominates locally.

COKs (between Graveyard Lake and Kechika River): Siliceous facies. Well and thinly interbedded, grey to orange-buff weathering, pinkish-grey, hard, fine to medium-grained calcareous siltstone to fine sandstone with good cross-stratified wavy laminae and micaceous partings; grey calcareous slate and silty slate; pale to mid-grey silty limestone or dolostone. Dark grey, platy micritic limestone to argillaceous limestone north of Gemini Lakes.

CAMBRIAN

C — *Grey to rusty-brown weathering, grey micaceous slate, silty slate, siltstone; locally calcareous or dolomitic. Pale to mid-grey to maroon, thinly to thickly bedded, laminated micaceous sandstone, quartz sandstone and lesser greywacke; locally with calcareous matrix, cross-laminations, argillite clasts. Quartz-, quartzite- and chert-pebble conglomerate, with calcareous matrix tending to sandy limestone (possibly Middle Cambrian). Grey, fine to medium-grained, massive to platy limestone. Minor grey to red-brown chert, cherty argillite or siltstone.*

UPPER PROTEROZOIC AND CAMBRIAN

PC — *Undivided Hyland Group and Cambrian rocks.*

PROTEROZOIC
UPPER PROTEROZOIC

PH — **HYLAND GROUP**
Grey, olive-green-grey, red-brown to maroon, laminated slate, phyllite, argillite, silty slate and siltstone. Generally associated or interbedded with buff to grey to white, thickly bedded to massive, micaceous sandstone, quartzite and granule to pebble conglomerate, locally with blue quartz and ca. 10% feldspar clasts, and minor greywacke. Grey to brown-weathering, dark grey finely crystalline, massive to platy limestone (northern and western Cow Mountain). Grey, massive, medium-grained crystalline limestone and sandy limestone, and thinly interbedded limestone and chert (Boya Hill). Pale grey to cream, fine-grained dolomitic limestone (Red River). Coarse greywacke and quartz- and chert-pebble conglomerate and brecciа (Liard Plain).
P̈Ph: Hornfelsed rocks, on Boya Hill. P̈Phv: Orange-brown weathering, green to brown tuff and lapilli tuff with calcareous matrix, on Boya Hill.

INFORMAL UNITS OF UNCERTAIN AGE

ORDOVICIAN TO MISSISSIPPIAN

P — **KITZA CREEK FACIES**
Generally calcareous, dark grey to black, carbonaceous siltstone to silty argillite, shaly slate. Associated with buff to grey-weathering, thinly to thickly bedded dark grey to black, platy to blocky, silty to argillaceous fetid limestone. Minor, thinly bedded to massive, calcareous or non-calcareous quartz sandstone to sandy limestone, pale grey calcareous tuff, black chert. Thick sections on Kitza Creek and lower Red River of black slate and argillite with thin beds of dolomitic siltstone.

UPPER PROTEROZOIC(?) TO LOWER PALEOZOIC

AEROPLANE LAKE PANEL
Low grade metamorphic rocks.

P̈Pc — *Calcareous phyllite and schist. Grey, finely laminated to thinly bedded calcareous and graphitic phyllite to schist, locally crenulated. Thin interbeds of silty limestone to marble. Minor thin sandy phyllite and quartz sandstone. Grades into calcareous slate and limestone. Areas of non-calcareous phyllite. Possibly correlative with Kechika Group.*

P̈Ps — *Siliceous schist and quartz sandstone. Grey to dark grey, crenulated slate to phyllite to schist, up to biotite grade, with layers of micaceous quartz sandstone, greywacke and siltstone. Minor dark grey, platy to massive limestone. Similar to Proterozoic or Cambrian units.*

P̈Pl — *Limestone, phyllite and sandstone. Grey, recrystallized limestone to marble with thin layers of crenulated muscovite-chlorite schist, phyllite and greenish-grey calc-silicate. Minor dark blue-grey feldspathic sandstone to granule conglomerate. Similar to Hyland Group carbonates on Chee Mountain.*

CASSIAR TERRANE

UPPER PROTEROZOIC(?) TO PALEOZOIC

CA — *Grey, moderately to thickly bedded, quartz-feldspar sandstone, and phyllite; possibly Ingenika Group. Grey to orange-weathering, grey to green, massive to finely laminated dolomitic siltstone, cherty siltstone, siltstone and chert. Grey to buff-yellow, silty limestone to calcareous siltstone. Grey, coarse-grained calcareous or non-calcareous quartz sandstone, slate.*

INTRUSIVE ROCKS

LATE CRETACEOUS TO EARLY TERTIARY(?)

KTg — *Speckled grey, medium-grained hornblende granite, with small quartz phenocrysts.*

KTp: *Pale yellow-green, altered, quartz-plagioclase porphyry (rhyodacite?) dike.*

CRETACEOUS(?)

p — *Feldspar, feldspar-biotite, and quartz-feldspar porphyry, in or near Aeroplane Lake panel. Pink to buff-yellow feldspar and brown biotite phenocrysts in blue-grey-pink, fine-grained, weakly calcareous groundmass. Post-metamorphic; possibly Cretaceous.*

EARLY CRETACEOUS

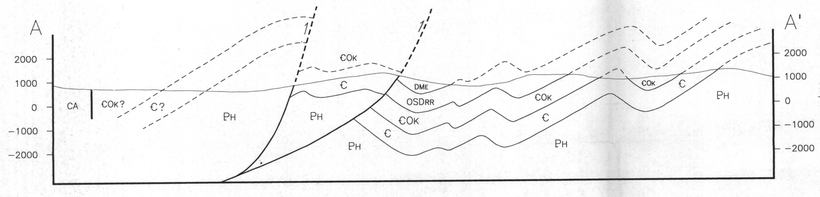
EKp — *Dikes, sills and small stocks on Boya Hill. Speckled grey to mauve-grey, fine to medium-grained, quartz-biotite-feldspar porphyry and quartz porphyry. Generally altered. Quartz monzonite to granodiorite composition; locally aplitic.*

EARLY PALEOZOIC(?)

g — *Gabbro. Orange-brown weathering, speckled green and white, non-foliated, equigranular, medium to coarse-grained, with pyroxene, hornblende and biotite.*

SYMBOLS

- Geological contact (approximate, inferred)
- Thrust or reverse fault (approximate, inferred)
- Fault (approximate, inferred)
- Normal fault (approximate, inferred)
- Strike–slip fault (approximate)
- Axial surface trace (anticline, syncline)
- Bedding (right way up, overturned, top unknown, vertical)
- Slaty cleavage or schistosity (inclined, vertical)
- Crenulation cleavage
- Minor fold axis (first generation, second)
- Outcrop exposure
- Small intrusion (dike, sill, stock)
- Ice flow indicator (direction known, unknown)
- Approximate boundary of significant Quaternary deposits
- Lithogeochemical sample location (number refers to tables)
- MINFILE locality (name, number, commodities; ba, barite)
- Cross-section line
- Limit of mapped area



JOINS OPEN FILE 1996-3

BRITISH COLUMBIA
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Energy and Minerals Division
Geological Survey Branch

Geological Survey Branch
OPEN FILE 1997-14

PRELIMINARY REGIONAL LAKE SEDIMENT GEOCHEMISTRY OF THE NORTHERN KECHIKA TROUGH, BRITISH COLUMBIA

NTS 94M/2, 3, 4, 5, 6, 12, 13; 104P/8, 9, 15, 16

by Stephen Cook, Wayne Jackaman, Peter Friske, Stephen Day, Anna Coneys and Helena Wong

SCALE 1:100 000

kilometres
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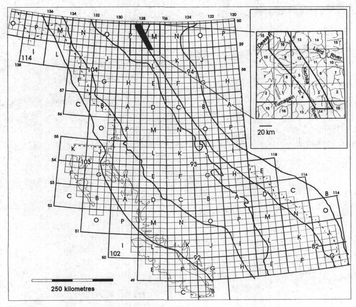

SAMPLE SITE LOCATIONS

INTRODUCTION

Open File 1997-14 presents preliminary regional lake sediment geochemical data for zinc, lead and barium for the North Gataga survey of the northern Kechika Trough. The survey covers parts of several 1:50 000 map areas (94M/2, 3, 4, 5, 6, 12; 104P/8, 9, 10, 15, 16) in the Rabbit River and McBride map areas of north-central British Columbia. A joint effort of the B.C. Geological Survey Branch and the Geological Survey of Canada, the survey was conducted in July 1996 and is a contribution to the North Gataga Project, an interdisciplinary Geological Survey Branch bedrock mapping and geochemistry project. The area surveyed corresponds to the 1996 bedrock mapping area of Ferri *et al.* (1997a,b), and a corresponding bedrock geology map for the northern Kechika Trough accompanies this map package. Complementary lake sediment geochemistry and bedrock mapping surveys have proven effective in stimulating mineral exploration in low-lying drift-covered regions of the northern Interior Plateau in central British Columbia. Mineral exploration in the north Gataga region has also been hindered by an extensive drift cover and poor bedrock exposure, and new baseline geochemical data should prove useful for further exploration.

GEOLOGICAL SETTING AND RELATED SURVEYS

The North Gataga survey area follows the previously-mapped distribution of Devonian-Mississippian Earn Group rocks within the Kechika Trough. The Earn Group is a prospective unit for hosting sedimentary-exhalative (SEDEX) zinc-lead-barite deposits, the primary exploration target in the area. The survey area is bounded in the southwest by the Rocky Mountain Trench and the Cassiar Mountains, and in the north by the British Columbia-Yukon border. This survey bridges the gap between two prior regional geochemical surveys to the north and south. To the south, the survey area is bounded by a Geological Survey Branch stream sediment and water geochemistry survey conducted in 1995 in the more rugged terrain of the Gataga Mountain area (Jackaman *et al.*, 1996); to the north, it is bounded in the Yukon by the Geological Survey of Canada regional lake sediment survey of the Watson Lake map area (NTS 105A; Friske *et al.*, 1994). RGS stream sediment data for the McBride map area (NTS 104P) is also available for the western part of the survey area.

FIELD AND ANALYTICAL METHODS

Centre-lake sediments were obtained from 445 sites using a Hornbrook-type torpedo sampler. Samples were dried, disaggregated in a ceramic ring mill and analyzed for the standard RGS suite of elements by atomic absorption spectroscopy (AAS) and instrumental neutron activation (INA) techniques. Unfiltered lake waters are also routinely analyzed for pH, uranium, fluoride and sulphate. Previous Geological Survey Branch lake sediment geochemistry reports (*e.g.* Cook *et al.*, 1997b; Cook and Jackaman, 1994) should be consulted for full details of standard collection, preparation and analytical procedures employed in RGS lake sediment surveys in British Columbia. Only preliminary geochemical maps for zinc (AAS), lead (AAS) and barium (INAA) are presented here. Data for these elements and for arsenic (AAS), cadmium (AAS) and Loss on Ignition are also shown in tabular form; the remaining sediment and water geochemical data, including results of a new ICP-MS water geochemical suite (Cook *et al.*, 1997a), will be released at a later date.

Recommended Citation

Cook, S.J., Jackaman, W., Friske, P.W., Day, S.J., Coneys, A.M. and Wong, H.F.N. (1997): Preliminary Regional Lake Sediment Geochemistry of the Northern Kechika Trough, British Columbia (NTS 94M/2, 3, 4, 5, 6, 12; 104P/8, 9, 10, 15, 16); *B.C. Ministry of Employment and Investment*, Open File 1997-14.

Copies of this map may be obtained from Crown Publications Inc., 521 Fort Street, Victoria, B.C. (386-4636).

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BASE MAP INFORMATION

ELEVATIONS IN METRES OR FEET ABOVE SEA LEVEL; CONTOUR INTERVALS VARY

TRANSVERSE MERCATOR PROJECTION

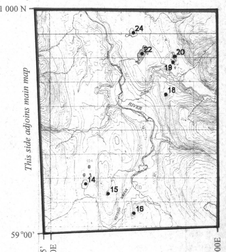
ONE THOUSAND METRE UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 9

NORTH AMERICAN DATUM 1927

GRID NORTH IS APPROXIMATELY 1° EAST OF TRUE NORTH

BASE MAPS PRODUCED BY SURVEYS AND MAPPING BRANCH, MINISTRY OF NATURAL RESOURCES, OTTAWA

Rabbit River Inset Map



NTS	ID	REP	Zn ppm (AAS)	Pb ppm (AAS)	Ba ppm (INAA)	As ppm (AAS)	Cd ppm (AAS)	LOI %
94M03	964002	0	236	12	1100	5.8	1.8	27.4
94M03	964003	0	151	21	1800	3.0	0.3	7.6
94M03	964004	0	55	4	930	1.9	0.6	23.8
94M03	964005	0	271	16	1500	5.0	3.7	51.0
94M03	964006	0	55	5	1100	1.9	0.6	25.9
94M03	964007	0	170	22	1700	2.8	0.6	9.0
94M03	964008	0	74	6	1200	0.9	0.7	23.7
94M03	964009	0	216	23	1600	3.9	1.6	9.9
94M03	964010	0	155	16	1000	5.3	1.1	23.3
94M02	964011	10	282	30	670	2.3	1.3	57.5
94M02	964012	20	279	30	740	1.6	1.0	39.9
94M02	964013	0	368	23	730	4.7	2.0	37.1
94M02	964014	0	155	26	1100	4.8	0.2	9.8
94M02	964015	0	177	15	1000	4.1	0.5	54.2
94M02	964016	0	93	5	580	1.7	1.2	37.0
94M02	964018	0	185	11	470	2.4	0.8	53.9
94M02	964019	0	295	16	480	3.3	1.3	53.8
94M02	964020	0	273	18	590	2.3	2.0	57.0
94M02	964022	0	296	16	2600	5.1	3.3	23.8
94M02	964024	0	334	19	3100	5.0	2.3	11.0
94M02	964025	10	197	4	640	3.4	3.0	54.1
94M02	964026	20	309	3	1000	8.5	5.6	48.0
94M02	964027	0	276	8	1100	2.7	6.8	47.0
94M02	964028	0	179	4	700	1.5	1.6	58.5
94M03	964029	0	140	10	900	0.5	2.0	39.2
94M06	964030	0	105	13	1100	3.8	1.0	23.0
94M06	964031	0	78	2	580	1.2	0.2	55.1
94M06	964032	0	125	16	1500	4.8	1.0	21.1
94M06	964033	0	1000	6	340	4.1	3.3	39.3
94M06	964034	0	228	8	690	3.6	1.0	59.8
94M03	964035	0	17	2	250	0.5	0.1	36.8
94M03	964036	0	298	18	2200	13.0	2.7	17.4
94M03	964037	0	274	17	2100	15.0	2.4	18.7
94M03	964038	0	111	8	990	7.4	1.1	32.6
94M03	964039	0	351	9	2000	9.0	3.9	28.8
94M03	964040	0	460	10	2700	15.0	4.0	19.7
94M03	964042	0	810	12	2700	33.0	6.0	24.5
94M03	964043	0	343	9	1900	25.0	4.0	25.0
94M03	964044	10	203	9	680	2.0	2.3	61.9
94M03	964045	20	195	7	680	1.8	2.2	61.9
94M03	964046	0	236	9	710	2.5	2.5	57.0
94M03	964047	0	800	5	1900	26.0	2.7	34.0
94M03	964048	0	58	4	880	3.7	0.9	39.2
94M02	964049	0	267	18	2100	5.2	1.8	10.5
94M02	964051	0	175	12	1500	3.7	1.2	20.5
94M02	964052	0	159	15	1300	3.0	1.4	17.8
94M03	964053	0	224	8	1200	36.0	2.3	30.9
94M03	964054	0	347	14	2300	6.0	2.5	19.4
94M03	964055	0	136	19	1100	4.2	0.4	9.5
94M03	964056	0	194	14	1900	16.0	1.5	16.0
94M03	964057	0	246	14	2300	16.0	2.0	12.7
94M03	964058	0	480	22	2300	6.3	9.4	36.2
94M03	964059	0	1450	4	1100	3.3	5.4	34.9
94M03	964060	0	159	15	1800	2.5	0.9	21.7
94M03	964062	0	221	22	510	8.5	0.6	43.7
94M03	964063	0	137	18	1100	4.2	0.1	12.2
94M03	964064	0	153	14	1300	15.0	1.0	23.7
94M03	964065	0	227	11	1500	9.5	1.3	30.3
94M03	964066	0	396	7	1000	7.4	2.0	35.5
94M03	964067	0	560	8	1900	19.0	3.6	33.9
94M03	964068	10	136	2	110	1.5	0.8	80.5
94M03	964069	20	119	3	310	1.1	1.0	81.9
94M03	964070	0	70	2	100	0.6	0.1	48.9
94M03	964072	0	138	2	210	0.9	2.2	44.8
94M03	964073	0	19	2	150	0.2	0.1	49.8
94M03	964074	0	366	13	1400	46.0	2.8	21.7
94M03	964075	0	600	15	1400	41.0	4.3	21.2
94M03	964076	0	605	14	1600	40.0	4.2	19.6
94M03	964077	0	700	18	2200	33.0	6.0	17.4
94M03	964078	0	650	12	1500	40.0	4.5	21.4
94M03	964079	0	3550	8	1000	4.5	17.0	29.6
94M03	964080	0	223	4	570	2.9	1.1	47.2
94M03	964082	0	26	2	100	0.1	0.2	49.3
94M03	964083	0	78	2	270	1.3	0.7	44.2
94M03	964084	0	120	3	270	0.7	0.4	58.6
94M03	964085	0	21	2	170	0.1	0.1	38.8
94M03	964087	0	153	16	1100	5.4	0.7	16.8
94M03	964088	0	595	2	390	3.5	1.0	48.0
94M03	964089	0	170	12	770	13.0	0.8	40.9
94M03	964090	0	650	7	1200	60.0	8.0	36.7
94M03	964091	0	213	2	100	0.2	0.1	31.9
94M03	964092	10	45	4	270	0.8	0.1	39.1
94M03	964093	20	39	3	320	0.7	0.1	38.9
94M03	964094	0	140	14	1300	2.0	1.2	21.0
94M03	964095	0	6600	3	270	11.0	4.4	46.2
94M03	964096	0	122	2	220	4.3	0.5	45.8
94M03	964097	0	368	12	2500	7.0	5.3	29.0
94M03	964098	0	29	1	100	0.1	0.1	45.2
94M03	964099	0	156	9	1600	4.0	2.6	23.7
94M03	964100	0	10	1	66	0.1	0.1	25.3
94M04	964102	0	148	6	360	3.4	0.3	62.9
94M03	964103	0	25	3	820	1.4	0.1	18.7
94M04	964104	0	135	8	1200	6.9	0.7	13.8
94M04	964105	10	149	10	790	3.0	0.7	34.7
94M04	964107	20	134	8	740	2.9	0.7	38.5
94M04	964108	0	71	5	620	1.2	0.3	45.8
94M04	964109	0	42	5	730	4.5	0.3	25.5
94M04	964110	0	95	8	1200	3.9	0.5	30.6
94M04	964111	0	22	2	360	0.4	0.1	37.6
94M04	964112	0	66	3	830	2.2	0.2	48.3
94M04	964113	0	83	13	810	18.0	0.3	25.2
94M04	964114	0	125	13	690	10.0	0.3	29.6
94M04	964115	0	54	7	630	3.5	0.2	38.2
94M04	964116	0	55	8	510	8.5	0.2	26.3
94M04	964117	0	56	7	590	9.0	0.3	24.6
94M04	964118	0	111	17	730	8.5	0.2	20.8
94M04	964119	0	134	7	410	2.5	0.5	65.5
94M04	964120	0	185	14	830	31.0	0.7	23.2
94M04	964122	0	146	12	540	34.0	0.6	25.7
94M05	964123	0	300	23	870	43.0	0.9	20.8
94M05	964124	0	66	2	280	8.5	0.1	45.6
94M05	964125	0	104	5	260	27.0	0.2	50.2
94M05	964126	10	71	5	230	5.1	0.3	40.6
94M05	964127	20	74	5	300	5.7	0.3	43.4
94M04	964128	0	55	3	100	0.5	0.2	56.4
94M04	964129	0	15	2	100	0.3	0.1	50.1
94M04	964130	0	70	4	230	0.5	0.2	61.7
94M04	964131	0	124	13	980	5.0	0.8	11.6
94M05	964132	0	116	5	450	1.2	0.8	58.6
94M05	964133	0	13	1	410	0.2	0.1	44.8
94M05	964134	0	118	16	2300	33.0	0.9	16.0
94M05	964135	0	59	8	600	6.0	0.6	36.0
94M06	964136	0	201	16	1400	3.0	1.3	15.5
94M06	964137	0	52	3	470	0.7	0.1	51.9
94M06	964138	0	6	2	320	0.4	0.1	43.7
94M06	964139	0	52	5	460	4.2	0.2	48.5
94M06	964142	0	188	7	340	6.4	1.2	77.4
94M06	964143	0	185	5	580	5.4	1.1	65.7
94M06	964144	0	141	7	620	2.5	0.6	54.4
94M06	964145	0	168	10	1100	11.0	0.9	34.9
94M06	964146	10	97	10	1100	6.4	0.8	34.0
94M06	964147	20	105	9	930	6.8	0.7	32.9
94M06	964148	0	47	4	720	5.4	0.2	26.4
94M06	964149	0	112	11	1000	12.0	0.7	29.7
94M06	964150	0	65	4	250	1.2	0.3	55.7
94M06	964151	0	114	14	1700	7.8	0.8	13.4
94M06	964152	0	137	3	400	1.4	0.8	72.3
94M06	964154	0	44	4	600	1.3	0.2	44.0
94M06	964155	0	25	2	400	0.3	0.1	49.3
94M06	964156	0	93	4	420	1.1	0.5	72.5
94M06	964157	0	88	6	510	1.8	0.5	45.1
94M06	964158	0	83	8	880	3.2	0.5	25.5
94M06	964159	0	74	9	970	2.0	0.6	25.1
94M06	964160	0	155	8	840	6.5	1.1	39.7
94M06	964162	0	240	11	940	8.0	1.4	41.7
94M06	964163	10	55	2	700	4.8	0.3	48.3
94M06	964164	20	67	4	700	5.8	0.4	50.2
94M06	964165	0	40	1	780	0.5	0.1	51.4
94M06	964166	0	86	9	900	2.9	0.5	27.7
94M06	964168	0	197	7	550	1.1	1.2	63.4
94M06	964169	0	51	7	900	3.1	0.2	35.0
94M06	964170	0	112	6	730	2.3	0.3	40.3
94M06	964171	0	64	6	820	3.5	0.4	38.3
94M06	964172	0	42	3	360	1.9	0.2	53.0
94M12	964173	0	40	2	280	0.2	0.3	29.5
94M12	964174	0	2880	6	600	6.4	39.0	38.1
94M12	964175	0	565	16	2200	17.0	3.4	11.0
94M12	964176	0	1850	12	2300	20.0	11.0	24.1
94M12	964177	0	421	9	2400	11.0	6.0	21.1
94M12	964178	0	3220	4	1000	1.8	23.0	32.1
94M12	964179	0	5800	2	350	18.0	14.0	18.0
94M12	964180	0	46	3	480	0.9	0.2	52.4
94M12	964182	0	60	2	900	2.4	0.1	45.6
94M12	964184	10	104	7	1000	8.5	0.6	18.1
94M12	964185	20	120	8	1000	9.5	0.7	17.6
94M12	964186	0	27	3	860	3.0	0.1	29.5
94M12	964187	0	76	4	870	6.8	0.6	34.3
94M12	964188	0	59	2	990	7.5	0.4	30.1
94M09	964189	0	93	6	1000	7.2	0.7	30.5
104P16	964190	0	109	9	1100	1.5	0.4	13.9
104P16	964191	0	122	2	330	1.4	0.4	68.6
104P16	964192	0	81	2	410	1.0	0.1	68.8
104P16	964193	0	96	3	730	7.4	0.3	70.4
104P16	964194	0	160	2	270	0.8	0.3	73.4
104P16	964195	0	57	4	1000	3.2	0.2	15.1
104P16	964196	0	226	7	590	1.2	2.2	62.7
104P16	964197	0	144	5	930	3.9	0.8	43.7
104P16	964198	0	64	2	510	0.9	0.6	42.8
104P16	964199	0	27	1	590	0.9	0.4	28.9
104P16	964200	0	45	2	720	2.0	1.0	30.9
104P16	964202	0	141	3	540	3.8	0.5	52.4
104P16	964203	0	181	4	590	2.3	0.5	67.5
104P16	964204	0	116	5	1100	5.4	0.9	39.9

NTS	ID	REP	Zn ppm (AAS)	Pb ppm (AAS)	Ba ppm (INAA)	As ppm (AAS)	Cd ppm (AAS)	LOI %
104P16	964205	0	72	4	660	3.3	0.5	28.1
104P16	964206	10	110	6	780	1.6	0.5	37.7
104P16	964207	20	111	6	940	1.7	0.5	33.7
104P16	964208	0	73	2	1600	4.5	0.2	37.1
104P16	964209	0	115	6	1400	11.0	0.7	30.5
104P16	964210	0	168	4	1200	2.2	3.0	44.2
104P16	964212	0	55	2	500	0.4	0.2	42.2
104P16	964213	0	52	3	270	0.5	0.3	44.0
104P16	964214	0	66	3	1000	16.0	0.2	49.3
104P16	964215	0	21	2	270	0.4	0.1	44.1
104P15	964216	0	6	1	970	0.4	0.1	35.3
104P16	964217	0	165	1	540	4.2	0.2	69.9
104P15	964218	0	219	1	1800	4.7	0.1	59.0
104P15	964219	0	45	1	1300	4.8	0.1	46.1
104P16	964220	0	188	8	830	1.3	1.7	43.4
104P15	964222	10	175	4	670	1.7	1.4	62.1
104P15	964223	20	178	4	600	1.6	1.4	62.5
104P15	964224	0	162	9	1200	4.7	1.0	46.0
104P15	964225	0	141	5	850	2.0	1.0	53.0
104P16	964226	0	78	4	880	2.1	0.6	54.4
104P15	964227	0	91	3	580	0.7	0.6	66.5
104P15	964228	0	115	4	570	0.5	0.5	55.9
104P15	964229	0	106	3	560	1.1	0.7	56.4
104P15	964231	0	135	5	540	0.9	1.3	62.9
104P10	964232	0	141	7	780	1.7	1.2	49.1
104P09	964233	0	99	5	590	1.8	0.6	73.3
104P10	964234	0	116	4	790	0.8	0.7	55.4
104P10	964235	0	147	5	520	0.7	1.1	56.3
104P10	964236	0	96	3	500	0.6	0.9	65.6
104P10	964237	0	95	2	560	0.5	1.0	61.5
104P09	964238	0	180	8	790	3.3	1.7	40.4
104P09	964239	0	66	5	850	2.6	0.8	51.3
104P09	964240	0	161	4	430	0.8	0.8	66.3
104P09	964242	0	92	2	440	3.6	0.3	75.0
104P09	964243	0	108	3	460	0.6	0.5	72.3
104P09	964245	0	147	4	440	0.9	0.8	67.1
104P09	964246	0	161	4	380	0.8	0.8	68.0
104P09	964247	0	214	5	260	0.9	1.5	70.2
104P09	964248	0	105	3	320	0.7	0.6	64.2
94M06	964249	0	32	2	200	16.0	0.1	38.3
94M06	964250	0	14	1	170	2.7	0.1	36.7
94M06	964251	0	14	1	160	1.3	0.1	32.1
94M06	964252	0	79	2	290	190.0	0.3	36.5
94M06	964253	0	130	5	510	360.0	0.8	30.1
94M06	964254	0	216	8	220	1.8	0.9	69.5
94M06	964255	0	124	6	250	1.3	1.6	60.2
94M06	964256	0	95	12	800	6.7	0.9	33.4
94M06	964257	0	72	2	190	0.5	0.3	54.6
94M06	964258	0	190	26	1800	33.0	1.1	11.4
94M06	964259	0	181	24	1600	24.0	1.0	14.5
94M06	964260	0	176	23	1600	12.0	0.9	9.1
94M06	964262	0	174	26	1600	14.0	0.9	7.8
94M06	964263	10	33	2	280	11.0	0.3	36.7
94M06	964264	20	26	3	310	5.4	0.3	40.1
94M06	964265	0	24	2	310	4.3	0.3	28.0
94M06	964266	0	33	3	500	1.3	0.3	24.4
94M06	964267	0	149	19	1400	4.9	1.2	19.6
94M06	964268	0	74	4	340	1.3	0.5	42.7
94M06	964269	0	136	8	430	1.3	1.2	51.9
94M06	964270	0	64	3	560	0.7	0.3	58.3
94M06	964271	0	120	14	1300	8.2	1.0	27.9
94M06	964272	0	118	7	350	1.2	0.9	70.0
94M06	964273	0	5	1	240	0.8	0.1	36.2
94M06	964274	0	68	3	610	4.1	0.7	34.1
94M03	964276	0	322	15	2200	17.0	3.0	15.8
94M03	964277	0	85	6	410	1.6	0.9	36.7
94M03	964278	0	430	24	2800	29.0	3.6	14.5
94M03	964279	0	136	8	1300	5.5	1.0	33.5
104P09	964280	0	187	3	600	2.6	0.9	58.6
104P09	964282	0	68	1	1200	1.0	0.8	47.2
104P09	964283	0	92	6	910	16.0	0.7	30.9
104P09	964284	10	50	3	780	5.9	0.6	51.8
104P09	964285	20	40	2	780	4.9	0.6	50.6
104P09	964286	0	144	5	450	3.8	1.0	64.7
104P09	964287	0	86	8	1200	6.0	0.9	35.7
104P09	964288	0	209	1	240	0.8	0.8	73.5
104P09	964289	0	31	1	500	1.3	0.2	38.6
104P09	964290	0	72	2	450	0.8	0.2	51.5
104P09	964291	0	129	7	740	1.5	0.8	46.6
104P09	964293	0	163	16	1200	5.0	1.0	15.5
104P09	964294	0	154	2	300	1.7	0.6	81.8
104P10	964295	0	32	2	500	1.5	0.2	41.8
104P16	964296	0	181	7	670	1.3	1.3	61.6
104P16	964297	0	26	1	480	1.1	0.3	57.2
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BRITISH COLUMBIA
Ministry of Employment and Investment
Energy and Minerals Division
Geological Survey Branch

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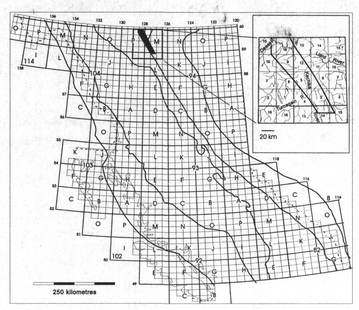
PRELIMINARY REGIONAL LAKE SEDIMENT GEOCHEMISTRY OF THE NORTHERN KECHIKA TROUGH, BRITISH COLUMBIA

NTS 94M/2, 3, 4, 5, 6, 12, 13; 104P/8, 9, 15, 16

by Stephen Cook, Wayne Jackaman, Peter Friske, Stephen Day, Anna Coneys and Helena Wong

SCALE 1:100 000

kilometres
1 0 1 2 3 4 5 6 7 8 9 10



ZINC (PPM)

Zinc (ppm) AAS

>95th:	◆	566 - 6600
90th - 95th:	■	297 - 565
70th - 90th:	●	156 - 296
50th - 70th:	•	113 - 155
0 - 50th:	+	5 - 112

BASE MAP INFORMATION

ELEVATIONS IN METRES OR FEET ABOVE SEA LEVEL; CONTOUR INTERVALS VARY

TRANSVERSE MERCATOR PROJECTION

ONE THOUSAND METRE UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 9

NORTH AMERICAN DATUM 1927

GRID NORTH IS APPROXIMATELY 1° EAST OF TRUE NORTH

BASE MAPS PRODUCED BY SURVEYS AND MAPPING BRANCH, MINISTRY OF NATURAL RESOURCES, OTTAWA

NTS	ID	REP	Zn ppm (AAS)	Pb ppm (AAS)	Ba ppm (INAA)	As ppm (AAS)	Cd ppm (AAS)	LOI %
94M03	964002	0	236	12	1100	5.8	1.8	27.4
94M03	964003	0	151	21	1800	3.0	0.3	7.6
94M03	964004	0	55	4	930	1.9	0.6	23.8
94M03	964005	0	271	16	1500	5.0	3.7	51.0
94M03	964006	0	55	5	1100	1.9	0.6	25.9
94M03	964007	0	170	22	1700	2.8	0.6	9.0
94M03	964008	0	74	6	1200	0.9	0.7	23.7
94M03	964009	0	216	23	1600	3.9	1.6	9.9
94M03	964010	0	155	16	1000	5.3	1.1	23.3
94M02	964011	10	282	30	670	2.3	1.3	57.5
94M02	964012	20	279	30	740	1.6	1.0	39.9
94M02	964013	0	368	23	730	4.7	2.0	37.1
94M02	964014	0	155	26	1100	4.8	0.2	9.8
94M02	964015	0	177	15	1000	4.1	0.5	54.2
94M02	964016	0	93	5	580	1.7	1.2	37.0
94M02	964018	0	185	11	470	2.4	0.8	53.9
94M02	964019	0	295	16	480	3.3	1.3	53.8
94M02	964020	0	273	18	590	2.3	2.0	57.0
94M02	964022	0	296	16	2600	5.1	3.3	23.8
94M02	964024	0	334	19	3100	5.0	2.3	11.0
94M02	964025	10	197	4	640	3.4	3.0	54.1
94M02	964026	20	309	3	1000	8.5	5.6	48.0
94M02	964027	0	276	8	1100	2.7	6.8	47.0
94M02	964028	0	179	4	700	1.5	1.6	58.5
94M03	964029	0	140	10	900	0.5	2.0	39.2
94M06	964030	0	105	13	1100	3.8	3.8	1.0	23.0
94M06	964031	0	78	2	580	1.2	0.2	55.1
94M06	964032	0	125	16	1500	4.8	1.0	21.1
94M06	964033	0	1000	6	340	4.1	3.3	39.3
94M06	964034	0	228	8	690	3.6	1.0	59.8
94M03	964035	0	17	2	250	0.5	0.1	36.8
94M03	964036	0	298	18	2200	13.0	2.7	17.4
94M03	964037	0	274	17	2100	15.0	2.4	18.7
94M03	964038	0	111	8	990	7.4	1.1	32.6
94M03	964039	0	351	9	2000	9.0	3.9	28.8
94M03	964040	0	460	10	2700	15.0	4.0	19.7
94M03	964042	0	810	12	2700	33.0	6.0	24.5
94M03	964043	0	343	9	1900	25.0	4.0	25.0
94M03	964044	10	203	9	680	2.0	2.3	61.9
94M03	964045	20	195	9	680	1.8	2.2	61.9
94M03	964046	0	236	9	710	2.5	2.5	57.0
94M03	964047	0	800	5	1900	26.0	2.7	34.0
94M03	964048	0	58	4	880	3.7	0.9	39.2
94M02	964049	0	267	18	2100	5.2	1.8	10.5
94M02	964051	0	175	12	1500	3.7	1.2	20.5
94M02	964052	0	159	15	1300	3.0	1.4	17.8
94M03	964053	0	224	8	1200	36.0	2.3	30.9
94M03	964054	0	347	14	2300	6.0	2.5	19.4
94M03	964055	0	136	19	1100	4.2	0.4	9.5
94M03	964056	0	194	14	1900	16.0	1.5	16.0
94M03	964057	0	246	18	2300	16.0	2.0	12.7
94M03	964058	0	480	22	2300	6.3	9.4	36.2
94M03	964059	0	1450	4	1100	3.3	5.4	34.9
94M03	964060	0	159	15	1800	2.5	0.9	21.7
94M03	964062	0	221	22	510	8.5	0.6	43.7
94M03	964063	0	137	18	1100	4.2	0.1	12.2
94M03	964064	0	153	14	1300	15.0	1.0	23.7
94M03	964065	0	227	11	1500	9.5	1.3	30.3
94M03	964066	0	396	7	1000	7.4	2.0	35.5
94M03	964067	0	560	8	1900	19.0	3.6	33.9
94M03	964068	10	136	2	110	1.5	0.8	80.5
94M03	964069	20	119	3	310	1.1	1.0	81.9
94M03	964070	0	70	2	100	0.6	0.1	48.9
94M03	964072	0	138	2	210	0.9	2.2	44.8
94M03	964073	0	19	2	150	0.2	0.1	49.8
94M03	964074	0	366	13	1400	46.0	2.8	21.7
94M03	964075	0	600	15	1400	41.0	4.3	21.2
94M03	964076	0	605	14	1600	40.0	4.2	19.6
94M03	964077	0	700	18	2200	33.0	6.0	17.4
94M03	964078	0	650	12	1500	40.0	4.5	21.4
94M03	964079	0	3550	8	1000	4.5	17.0	29.6
94M03	964080	0	223	4	570	2.9	1.1	47.2
94M03	964082	0	26	2	100	0.1	0.2	49.3
94M03	964083	0	78	2	270	1.3	0.7	44.2
94M03	964084	0	120	3	270	0.7	0.4	58.6
94M03	964085	0	21	2	170	0.1	0.1	38.8
94M03	964087	0	153	16	1100	5.4	0.7	16.8
94M03	964088	0	595	2	390	3.5	1.0	48.0
94M03	964089	0	170	12	770	13.0	0.8	40.9
94M03	964090	0	650	7	1200	60.0	8.0	36.7
94M03	964091	0	213	2	100	0.2	0.1	31.9
94M03	964092	10	45	4	270	0.8	0.1	39.1
94M03	964093	20	39	3	320	0.7	0.1	38.9
94M03	964094	0	140	14	1300	2.0	1.2	21.0
94M03	964095	0	6600	3	270	11.0	4.4	46.2
94M03	964096	0	122	2	220	4.3	0.5	45.8
94M03	964097	0	368	12	2500	7.0	5.3	29.0
94M03	964098	0	29	1	100	0.1	0.1	45.2
94M03	964099	0	156	9	1600	4.0	2.6	23.7
94M03	964100	0	10	1	66	0.1	0.1	25.3
94M04	964102	0	148	6	360	3.4	0.3	62.9
94M04	964103	0	25	3	820	1.4	0.1	18.7
94M04	964104	0	135	8	1200	6.9	0.7	13.8
94M04	964105	10	149	10	790	3.0	0.7	34.7
94M04	964107	20	134	8	740	2.9	0.7	38.5
94M04	964108	0	71	5	620	1.2	0.3	45.8
94M04	964109	0	42	5	730	4.5	0.3	25.5
94M04	964110	0	95	8	1200	3.9	0.5	30.6
94M04	964111	0	22	2	360	0.4	0.1	37.6
94M04	964112	0	66	3	830	2.2	0.2	48.3
94M04	964113	0	83	13	810	18.0	0.3	25.2
94M04	964114	0	125	13	690	10.0	0.3	29.6
94M04	964115	0	54	7	630	3.5	0.2	38.2
94M04	964116	0	55	8	510	8.5	0.2	26.3
94M04	964117	0	56	7	590	9.0	0.3	24.6
94M04	964118	0	111	17	730	8.5	0.2	20.8
94M04	964119	0	134	7	410	2.5	0.5	65.5
94M04	964120	0	185	14	830	31.0	0.7	23.2
94M04	964122	0	146	12	540	34.0	0.6	25.7
94M05	964123	0	300	23	870	43.0	0.9	20.8
94M05	964124	0	66	2	280	8.5	0.1	45.6
94M05	964125	0	104	5	260	27.0	0.2	50.2
94M05	964126	10	71	5	230	5.1	0.3	40.6
94M05	964127	20	74	5	300	5.7	0.3	43.4
94M04	964128	0	55	3	100	0.5	0.2	56.4
94M04	964129	0	15	2	100	0.3	0.1	50.1
94M04	964130	0	70	4	230	0.5	0.2	61.7
94M04	964131	0	124	13	980	5.0	0.8	11.6
94M04	964132	0	116	5	450	1.2	0.8	58.6
94M05	964133	0	13	1	410	0.2	0.1	44.8
94M04	964134	0	118	16	2300	33.0	0.9	16.0
94M05	964135	0	59	8	600	6.0	0.6	36.0
94M06	964136	0	201	16	1400	3.0	1.3	15.5
94M06	964137	0	52	3	470	0.7	0.1	51.9
94M06	964138	0	6	2	320	0.4	0.1	43.7
94M06	964139	0	52	6	460	4.2	0.2	48.5
94M06	964142	0	188	7	340	6.4	1.2	77.4
94M03	964143	0	185	5	580	5.4	1.1	65.7
94M06	964144	0	141	7	620	2.5	0.6	54.4
94M06	964145	0	168	10	1100	11.0	0.9	34.9
94M06	964146	10	97	10	1100	6.4	0.8	34.0
94M06	964147	20	105	9	930	6.8	0.7	32.9
94M06	964148	0	47	4	720	5.4	0.2	26.4
94M06	964149	0	112	11	1000	12.0	0.7	29.7
94M06	964150	0	65	4	250	1.2	0.3	55.7
94M06	964151	0	114	14	1700	7.8	0.8	13.4
94M06	964152	0	137	3	400	1.4	0.8	72.3
94M06	964154	0	44	4	600	1.3	0.2	44.0
94M06	964155	0	25	2	400	0.3	0.1	49.3
94M06	964156	0	93	4	420	1.1	0.5	72.5
94M06	964157	0	88	6	510	1.8	0.5	45.1
94M06	964158	0	83	8	880	3.2	0.5	25.5
94M06	964159	0	74	9	970	2.0	0.6	25.1
94M06	964160	0	155	8	840	6.5	1.1	39.7
94M06	964162	0	240	11	940	8.0	1.4	41.7
94M06	964163	10	55	2	700	4.8	0.3	48.3
94M06	964164	20	67	4	700	5.8	0.4	50.2
94M06	964165	0	40	1	780	0.5	0.1	51.4
94M06	964166	0	86	9	900	2.9	0.5	27.7
94M06	964168	0	197	7	550	1.1	1.2	63.4
94M06	964169	0	51	7	900	3.1	0.2	35.0
94M06	964170	0	112	6	730	2.3	0.3	40.3
94M06	964171	0	64	6	820	3.5	0.4	38.3
94M06	964172	0	42	3	360	1.9	0.2	53.0
94M12	964173	0	40	2	280	0.2	0.3	29.5
94M12	964174	0	2880	6	600	6.4	39.0	38.1
94M12	964175	0	565	16	2200	17.0	3.4	11.0
94M12	964176	0	1850	12	2300	20.0	11.0	24.1
94M12	964177	0	421	9	2400	11.0	6.0	21.1
94M12	964178	0	3220	4	1000	1.8	23.0	32.1
94M12	964179	0	5800	2	350	18.0	14.0	18.0
94M12	964180	0	46	3	480	0.9	0.2	52.4
94M12	964182	0	60	2	900	2.4	0.1	45.6
94M12	964184	10	104	7	1000	8.5	0.6	18.1
94M12	964185	20	120	8	1000	9.5	0.7	17.6
94M12	964186	0	27	3	860	3.0	0.1	29.5
94M12	964187	0	76	4	870	6.8	0.6	34.3
94M12	964188	0	59	2	990	7.5	0.4	30.1
104P09	964189	0	93	6	1000	7.2	0.7	30.5
104P16	964190	0	109	9	1100	1.5	0.4	13.9
104P16	964191	0	122	2	330	1.4	0.4	68.6
104P16	964192	0	81	2	410	1.0	0.1	68.8
104P16	964193	0	96	3	730	7.4	0.3	70.4
104P16	964194	0	160	2	270	0.8	0.3	73.4
104P16	964195	0	57	4	1000	3.2	0.2	15.1
104P16	964196	0	226	7	590	1.2	2.2	62.7
104P16	964197	0	144	5	930	3.9	0.8	43.7
104P16	964198	0	64	2	510	0.9	0.6	42.8
104P16	964199	0	27	1	590	0.9	0.4	28.9
104P16	964200	0	45	2	720	2.0	1.0	30.9
104P16	964202	0	141	3	540	3.8	0.5	52.4
104P16	964203	0	181	4	590	2.3	0.5	67.5
104P16	964204	0	116	5	1100	5.4	0.9	39.9

NTS	ID	REP	Zn ppm (AAS)	Pb ppm (AAS)	Ba ppm (INAA)	As ppm (AAS)	Cd ppm (AAS)	LOI %
104P16	964205	0	72	4	660	3.3	0.5	28.1
104P16	964206	10	110	6	780	1.6	0.5	37.7
104P16	964207	20	111	6	940	1.7	0.5	33.7
104P16	964208	0	73	2	1600	4.5	0.2	37.1
104P16	964209	0	115	6	1400	11.0	0.7	30.5
104P16	964210	0	168	4	1200	2.2	3.0	44.2
104P16	964212	0	55	2	500	0.4	0.2	42.2
104P16	964213	0	52	3	270	0.5	0.3	44.0
104P16	964214	0	66	3	1000	16.0	0.2	49.3
104P16	964215	0	21	2	270	0.4	0.1	44.1
104P15	964216	0	6	1	970	0.4	0.1	35.3
104P16	964217	0	165	1	540	4.2	0.2	69.9
104P15	964218	0	219	1	1800	4.7	0.1	59.0
104P15	964219	0	45	1	1300	4.8	0.1	46.1
104P16	964220	0	188	8	830	1.3	1.7	43.4
104P15	964222	0	175	4	670	1.7	1.4	62.1
104P15	964223	20	178	4	600	1.6	1.4	62.5
104P15	964224	0	162	9	1200	4.7	1.0	46.0
104P15	964225	0	141	5	850	2.0	1.0	53.0
104P16	964226	0	78	4	880	2.1	0.6	54.4
104P15	964227	0	91	3	580	0.7	0.6	66.5
104P15	964228	0	115	4	570	0.5	0.5	55.9
104P15	964229	0	106	3	560	1.1	0.7	56.4
104P15	964231	0	135	5	540	0.9	1.3	62.9
104P10	964232	0	141	7	780	1.7	1.2	49.1
104P09	964233	0	99	5	590	1.8	0.6	73.3
104P10	964234	0	116	4	790	0.8	0.7	55.4
104P10	964235	0	147	5	520	0.7	1.1	56.3
104P10	964236	0	96	3	500	0.6	0.9	65.6
104P10	964237	0	95	2	560	0.5	1.0	61.5
104P09	964238	0	180	8	790	3.3	1.7	40.4
104P09	964239	0	66	5	850	2.6	0.8	51.3
104P09	964240	0	161	4	430	0.8	0.8	66.3
104P09	964242	0	92	2	440	3.6	0.3	75.0
104P09	964243	0	108	3	460	0.6	0.5	72.3
104P09	964245	0	147	4	440	0.9	0.8	67.1
104P09	964246	0	161	4	380	0.8	0.8	68.0
104P09	964247	0	214	5	260	0.9	1.5	70.2
104P09	964248	0	105	3	320	0.7	0.6	64.2
94M06	964249	0	32	2	200	16.0	0.1	38.3
94M06	964250	0	14	1	170	2.7	0.1	36.7
94M06	964251	0	14	1	160	1.3	0.1	32.1
94M06	964252	0	79	2	290	190.0	0.3	36.5
94M06	964253	0	130	5	510	360.0	0.8	30.1
94M06	964254	0	216	8	220	1.8	0.9	69.5
94M06	964255	0	124	6	250	1.3	1.6	60.2
94M06	964256	0	95	12	800	6.7	0.9	33.4
94M06	964257	0	72	2	190	0.5	0.3	54.6
94M06	964258	0	190	26	1800	33.0	1.1	11.4
94M06	964259	0	181	24	1600	24.0	1.0	14.5
94M06	964260	0	176	23	1600	12.0	0.9	9.1
94M06	964262	0	174	26	1600	14.0	0.9	7.8
94M06	964263	10	33	2	280	11.0	0.3	36.7
94M06	964264	20	26	3	310	5.4	0.3	40.1
94M06	964265	0	24	2	310	4.3	0.3	28.0
94M06	964266	0	33	3	500	1.3	0.3	24.4
94M06	964267	0	149	19	1400	4.9	1.2	19.6
94M06	964268	0	74	4	340	1.3	0.5	42.7
94M06	964269	0	136	8	430	1.3	1.2	51.9
94M06	964270	0	64	3	560	0.7	0.3	58.3
94M06	964271	0	120	14	1300	8.2	1.0	27.9
94M06	964272	0	118	7	350	1.2	0.9	70.0
94M06	964273	0	5	1	240	0.8	0.1	36.2
94M03	964274	0	68	3	610	4.1	0.7	34.1
94M03	964276	0	322	15	2200	17.0	3.0	15.8
94M03	964277	0	85	6	410	1.6	0.9	36.7
94M03	964278	0	430	24	2800	29.0	3.6	14.5
94M03	964279	0	136	8	1300	5.5	1.0	33.5
94M03	964280	0	187	3	600	2.6	0.9	58.6
104P09	964282	0	68	1	1200	1.0	0.8	47.2
104P09	964283	0	92	6	910	16.0	0.7	30.9
104P09	964284	0	50	3	780	5.9	0.6	51.8
104P09	964285	20	40	2	780	4.9	0.6	50.6
104P09	964286	0	144	3	450	3.8	1.0	64.7
104P09	964287	0	86	8	1200	6.0	0.9	35.7
104P09	964288	0	209	1	240	0.8	0.8	73.5
104P09	964289	0	31	1	500	1.3	0.2	38.6
104P09	964290	0	72	2	450	0.8	0.2	51.5
104P09	964291	0	129	7	740	1.5	0.8	46.6
104P09	964293	0	163	16	1200	5.0	1.0	15.5
104P09	964294	0	154	2	300	1.7	0.6	81.8
104P09	964295	0	32	2	500	1.5	0.2	41.8
104P16	964296	0	181	7	670	1.3	1.3	61.6
104P16	964297	0	26	1	480	1.1	0.3	57.2
104P16	964298	0	48	1	510	0.6	0.7	49.5
104P16	964299	0	95	1	470	0.6	0.2	66.7
104P16	964300	0	64	3	1300	8.4	0.2	41.8
104P16	964302	0	53	2	1500	30.0	0.5	49.1
104P16	964303	0	16	1	820	0.2	0.2	27.0
104P16	964304	0	19	1	560	0.5	0.2	26.4
104P16	964305	0	18	1	560	0.3	0.2	27.3
104P16	964306	0	21	1	610	0.2	0.5	19.6
104P16	964307	10	90	2	390	2.7	0.5	84.1
104P16	964308	20	91	1	330	2.9	0.5	84.3
104P16	964309	0	146	2	270	1.7	0.7	70.9
104P09	964310	0	98	3	650	1.4	0.4	57.6
104P09	964311	0	107	8	1200	3.6	0.5	48.4
104P09	964312	0	64	1	820	3.0	0.2	59.7
104P09	964313	0	140	4	560	2.6	0.7	61.9
104P09	964314	0	112	2	580	6.9	0.6	58.4
104P09	964315	0	92	2	430	8.0	0.1	69.7
104P09	964316	0	78	1	420	3.3	0.3	81.9
94M12	964317	0	280	5	790	3.4	1.1	44.3
94M12	964319	0	560	8	1900	3.8	2.0	54.7
94M12	964320	0	550	6	1200	4.0	2.1	54.2
104P09	964322	0	288	1	500	23.0	0.7	78.2
104P09	964323	0	85	5	1200	8.3	0.5	39.3
104P09	964324	10	86	6	1800	28.0	0.4	35.4
104P09	964325	20	79	5	1800	26.0	0.3	38.1
104P09	964326	0	122	6	600	4.5	0.3	61.3
104P09	964327	0	113	4	1100	11.0	0.4	63.2
104P09	964328	0	127	4	780	2.9	0.4	51.5
104P09	964329	0	150	4	580	2.4	0.7	54.5
104P09	964330	0	165	1	350	13.0	0.1	64.1
104P09	964331	0	135	8	680	3.7	0.1	63.8
104P09	964332	0	98	3	490	1.0	0.2	68.8
104P09	964333	0	198	2	890	28.0	0.3	53.1
104P16	964334	0	39	1	2400	260.0	0.1	38.6
104P16	964335	0	68	3	890	12.0	0.1	59.0
104P16

BRITISH COLUMBIA
Ministry of Employment and Investment
Energy and Minerals Division
Geological Survey Branch

Geological Survey Branch
OPEN FILE 1997-14

PRELIMINARY REGIONAL LAKE SEDIMENT GEOCHEMISTRY OF THE NORTHERN KECHIKA TROUGH, BRITISH COLUMBIA

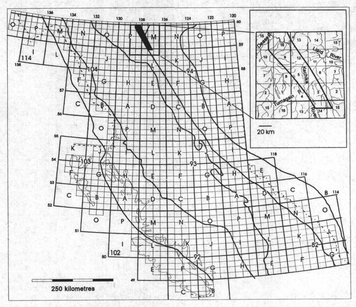
NTS 94M/2, 3, 4, 5, 6, 12, 13; 104P/8, 9, 15, 16

by Stephen Cook, Wayne Jackaman, Peter Friske, Stephen Day, Anna Coneys and Helena Wong

SCALE 1:100 000

kilometres
1 0 1 2 3 4 5 6 7 8 9 10

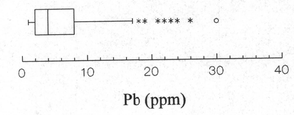
GSC Open File 2860

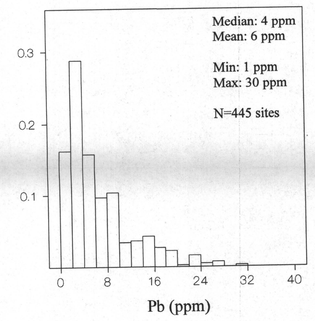


LEAD (PPM)

Lead (ppm) AAS

>95th:	◆	19 - 30
90th - 95th:	■	15 - 18
70th - 90th:	●	8 - 14
50th - 70th:	•	5 - 7
0 - 50th:	+	1 - 4





BASE MAP INFORMATION

ELEVATIONS IN METRES OR FEET ABOVE SEA LEVEL; CONTOUR INTERVALS VARY

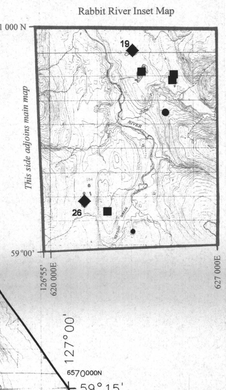
TRANSVERSE MERCATOR PROJECTION

ONE THOUSAND METRE UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 9

NORTH AMERICAN DATUM 1927

GRID NORTH IS APPROXIMATELY 1° EAST OF TRUE NORTH

BASE MAPS PRODUCED BY SURVEYS AND MAPPING BRANCH, MINISTRY OF NATURAL RESOURCES, OTTAWA



NTS	ID REP	Zn ppm (AAS)	Pb ppm (AAS)	Ba ppm (INAA)	As ppm (AAS)	Cd ppm (AAS)	LOI %
94M03	964002 0	236	12	1100	5.8	1.8	27.4
94M03	964003 0	151	21	1800	3.0	0.3	7.6
94M03	964004 0	55	4	930	1.9	0.6	23.8
94M03	964005 0	271	16	1500	5.0	3.7	51.0
94M03	964006 0	55	5	1100	1.9	0.6	25.9
94M03	964007 0	170	22	1700	2.8	0.6	9.0
94M03	964008 0	74	6	1200	0.9	0.7	23.7
94M03	964009 0	216	23	1600	3.9	1.6	9.9
94M03	964010 0	155	16	1000	5.3	1.1	23.3
94M02	964011 10	282	30	670	2.3	1.3	57.5
94M02	964012 20	279	30	740	1.6	1.0	39.9
94M02	964013 0	368	23	730	4.7	2.0	37.1
94M02	964014 0	155	26	1100	4.8	0.2	9.8
94M02	964015 0	177	15	1000	4.1	0.5	54.2
94M02	964016 0	93	5	580	1.7	1.2	37.0
94M02	964018 0	185	11	470	2.4	0.8	53.9
94M02	964019 0	295	16	480	3.3	1.3	53.8
94M02	964020 0	273	18	590	2.3	2.0	57.0
94M02	964022 0	296	16	2600	5.1	3.3	23.8
94M02	964024 0	334	19	3100	5.0	2.3	11.0
94M02	964025 10	197	4	640	3.4	3.0	54.1
94M02	964026 20	309	3	1000	8.5	5.6	48.0
94M02	964027 0	276	8	1100	2.7	6.8	47.0
94M02	964028 0	179	4	700	1.5	1.6	58.5
94M03	964029 0	140	10	900	0.5	2.0	39.2
94M06	964030 0	105	13	1100	3.8	1.0	23.0
94M06	964031 0	78	2	580	1.2	0.2	55.1
94M06	964032 0	125	16	1500	4.8	1.0	21.1
94M06	964033 0	1000	6	340	4.1	3.3	39.3
94M06	964034 0	228	8	690	3.6	1.0	59.8
94M03	964035 0	17	2	250	0.5	0.1	36.8
94M03	964036 0	298	18	2200	13.0	2.7	17.4
94M03	964037 0	274	17	2100	15.0	2.4	18.7
94M03	964038 0	111	8	990	7.4	1.1	32.6
94M03	964039 0	351	9	2000	9.0	3.9	28.8
94M03	964040 0	460	10	2700	15.0	4.0	19.7
94M03	964042 0	810	12	2700	33.0	6.0	24.5
94M03	964043 0	343	9	1900	25.0	4.0	25.0
94M03	964044 10	203	9	680	2.0	2.3	61.9
94M03	964045 20	195	9	680	1.8	2.2	61.9
94M03	964046 0	236	9	710	2.5	2.5	57.0
94M03	964047 0	800	5	1900	26.0	2.7	34.0
94M03	964048 0	58	4	880	3.7	0.9	39.2
94M02	964049 0	267	18	2100	5.2	1.8	10.5
94M02	964051 0	175	12	1500	3.7	1.2	20.5
94M02	964052 0	159	15	1300	3.0	1.4	17.8
94M03	964053 0	224	8	1200	36.0	2.3	30.9
94M03	964054 0	347	14	2300	6.0	2.5	19.4
94M03	964055 0	136	19	1100	4.2	0.4	9.5
94M03	964056 0	194	14	1900	16.0	1.5	16.0
94M03	964057 0	246	18	2300	16.0	2.0	12.7
94M03	964058 0	480	22	2300	6.3	9.4	36.2
94M03	964059 0	1450	4	1100	3.3	5.4	34.9
94M03	964060 0	159	15	1800	2.5	0.9	21.7
94M03	964062 0	221	22	510	8.5	0.6	43.7
94M03	964063 0	137	18	1100	4.2	0.1	12.2
94M03	964064 0	153	14	1300	15.0	1.0	23.7
94M03	964065 0	227	11	1500	9.5	1.3	30.3
94M03	964066 0	396	7	1000	7.4	2.0	35.5
94M03	964067 0	560	8	1900	19.0	3.6	33.9
94M03	964068 10	136	2	110	1.5	0.8	80.5
94M03	964069 20	119	3	310	1.1	1.0	81.9
94M03	964070 0	70	2	100	0.6	0.1	48.9
94M03	964072 0	138	2	210	0.9	2.2	44.8
94M03	964073 0	19	2	150	0.2	0.1	49.8
94M03	964074 0	366	13	1400	46.0	2.8	21.7
94M03	964075 0	600	15	1400	41.0	4.3	21.2
94M03	964076 0	605	14	1600	40.0	4.2	19.6
94M03	964077 0	700	18	2200	33.0	6.0	17.4
94M03	964078 0	650	12	1500	40.0	4.5	21.4
94M03	964079 0	3550	8	1000	4.5	17.0	29.6
94M03	964080 0	223	4	570	2.9	1.1	47.2
94M03	964082 0	26	2	100	0.1	0.2	49.3
94M03	964083 0	78	2	270	1.3	0.7	44.2
94M03	964084 0	120	3	270	0.7	0.4	58.6
94M03	964085 0	21	2	170	0.1	0.1	38.8
94M03	964087 0	153	16	1100	5.4	0.7	16.8
94M03	964088 0	595	2	390	3.5	1.0	48.0
94M03	964089 0	170	12	770	13.0	0.8	40.9
94M03	964090 0	650	7	1200	60.0	8.0	36.7
94M03	964091 0	213	2	100	0.2	0.1	31.9
94M03	964092 10	45	4	270	0.8	0.1	39.1
94M03	964093 20	39	3	320	0.7	0.1	38.9
94M03	964094 0	140	14	1300	2.0	1.2	21.0
94M03	964095 0	6600	3	270	11.0	4.4	46.2
94M03	964096 0	122	2	220	4.3	0.5	45.8
94M03	964097 0	368	12	2500	7.0	5.3	29.0
94M03	964098 0	29	1	100	0.1	0.1	45.2
94M03	964099 0	156	9	1600	4.0	2.6	23.7
94M03	964100 0	10	1	66	0.1	0.1	25.3
94M04	964102 0	148	6	360	3.4	0.3	62.9
94M03	964103 0	25	3	820	1.4	0.1	18.7
94M04	964104 0	135	8	1200	6.9	0.7	13.8
94M04	964105 10	149	10	790	3.0	0.7	34.7
94M04	964107 20	134	8	740	2.9	0.7	38.5
94M04	964108 0	71	5	620	1.2	0.3	45.8
94M04	964109 0	42	5	730	4.5	0.3	25.5
94M04	964110 0	95	8	1200	3.9	0.5	30.6
94M04	964111 0	22	2	360	0.4	0.1	37.6
94M04	964112 0	66	3	830	2.2	0.2	48.3
94M04	964113 0	83	13	810	18.0	0.3	25.2
94M04	964114 0	125	13	690	10.0	0.3	29.6
94M04	964115 0	54	7	630	3.5	0.2	38.2
94M04	964116 0	55	8	510	8.5	0.2	26.3
94M04	964117 0	56	7	590	9.0	0.3	24.6
94M04	964118 0	111	17	730	8.5	0.2	20.8
94M04	964119 0	134	7	410	2.5	0.5	65.5
94M04	964120 0	185	14	830	31.0	0.7	23.2
94M04	964122 0	146	12	540	34.0	0.6	25.7
94M05	964123 0	300	23	870	43.0	0.9	20.8
94M05	964124 0	66	2	280	8.5	0.1	45.6
94M05	964125 0	104	5	260	27.0	0.2	50.2
94M05	964126 10	71	5	230	5.1	0.3	40.6
94M05	964127 20	74	5	300	5.7	0.3	43.4
94M04	964128 0	55	3	100	0.5	0.2	56.4
94M04	964129 0	15	2	100	0.3	0.1	50.1
94M04	964130 0	70	4	230	0.5	0.2	61.7
94M04	964131 0	124	13	980	5.0	0.8	11.6
94M05	964132 0	116	5	450	1.2	0.8	58.6
94M05	964133 0	13	1	410	0.2	0.1	44.8
94M05	964134 0	118	16	2300	33.0	0.9	16.0
94M05	964135 0	59	8	600	6.0	0.6	36.0
94M06	964136 0	201	16	1400	3.0	1.3	15.5
94M06	964137 0	52	3	470	0.7	0.1	51.9
94M06	964138 0	6	2	320	0.4	0.1	43.7
94M06	964139 0	52	5	460	4.2	0.2	48.5
94M06	964142 0	188	7	340	6.4	1.2	77.4
94M06	964143 0	185	5	580	5.4	1.1	65.7
94M06	964144 0	141	7	620	2.5	0.6	54.4
94M06	964145 0	168	10	1100	11.0	0.9	34.9
94M06	964146 10	97	10	1100	6.4	0.8	34.0
94M06	964147 20	105	9	930	6.8	0.7	32.9
94M06	964148 0	47	4	720	5.4	0.2	26.4
94M06	964149 0	112	11	1000	12.0	0.7	29.7
94M06	964150 0	65	4	250	1.2	0.3	55.7
94M06	964151 0	114	14	1700	7.8	0.8	13.4
94M06	964152 0	137	3	400	1.4	0.8	72.3
94M06	964154 0	44	4	600	1.3	0.2	44.0
94M06	964155 0	25	2	400	0.3	0.1	49.3
94M06	964156 0	93	4	420	1.1	0.5	72.5
94M06	964157 0	88	6	510	1.8	0.5	45.1
94M06	964158 0	83	8	880	3.2	0.5	25.5
94M06	964159 0	74	9	970	2.0	0.6	25.1
94M06	964160 0	155	8	840	6.5	1.1	39.7
94M06	964162 0	240	11	940	8.0	1.4	41.7
94M06	964163 10	55	2	700	4.8	0.3	48.3
94M06	964164 20	67	4	700	5.8	0.4	50.2
94M06	964165 0	40	1	780	0.5	0.1	51.4
94M06	964166 0	86	9	900	2.9	0.5	27.7
94M06	964168 0	197	7	550	1.1	1.2	63.4
94M06	964169 0	51	7	900	3.1	0.2	35.0
94M06	964170 0	112	6	730	2.3	0.3	40.3
94M06	964171 0	64	6	820	3.5	0.4	38.3
94M06	964172 0	42	3	360	1.9	0.2	53.0
94M12	964173 0	40	2	280	0.2	0.3	29.5
94M12	964174 0	2880	6	600	6.4	39.6	38.1
94M12	964175 0	565	16	2200	17.0	3.4	11.0
94M12	964176 0	1850	12	2300	20.0	11.0	24.1
94M12	964177 0	421	9	2400	11.0	6.0	21.1
94M12	964178 0	3220	4	1000	1.8	23.0	32.1
94M12	964179 0	5800	2	350	18.0	14.0	18.0
94M12	964180 0	46	3	480	0.9	0.2	52.4
94M12	964182 0	60	2	900	2.4	0.1	45.6
94M12	964184 10	104	7	1000	8.5	0.6	18.1
94M12	964185 20	120	8	1000	9.5	0.7	17.6
94M12	964186 0	27	3	860	3.0	0.1	29.5
94M12	964187 0	76	4	870	6.8	0.6	34.3
94M12	964188 0	59	2	990	7.5	0.4	30.1
104P09	964189 0	93	6	1000	7.2	0.7	30.5
104P16	964190 0	109	7	1100	1.5	0.4	13.9
104P16	964191 0	122	2	330	1.4	0.4	68.6
104P16	964192 0	81	2	410	1.0	0.1	68.8
104P16	964193 0	96	3	730	7.4	0.3	70.4
104P16	964194 0	160	2	270	0.8	0.3	73.4
104P16	964195 0	57	4	1000	3.2	0.2	15.1
104P16	964196 0	226	7	590	1.2	2.2	62.7
104P16	964197 0	144	5	930	3.9	0.8	43.7
104P16	964198 0	64	2	510	0.9	0.6	42.8
104P16	964199 0	27	1	590	0.9	0.4	28.9
104P16	964200 0	45	2	720	2.0	1.0	30.9
104P16	964202 0	141	3	540	3.8	0.5	52.4
104P16	964203 0	181	4	590	2.3	0.5	67.5
104P16	964204 0	116	5	1100	5.4	0.9	39.9

NTS	ID REP	Zn ppm (AAS)	Pb ppm (AAS)	Ba ppm (INAA)	As ppm (AAS)	Cd ppm (AAS)	LOI %
104P16	964205 0	72	4	660	3.3	0.5	28.1
104P16	964206 10	110	6	780	1.6	0.5	37.7
104P16	964207 20	111	6	940	1.7	0.5	33.7
104P16	964208 0	73	2	1600	4.5	0.2	37.1
104P16	964209 0	115	6	1400	11.0	0.7	30.5
104P16	964210 0	168	4	1200	2.2	3.0	44.2
104P16	964212 0	55	2	500	0.4	0.2	42.2
104P16	964213 0	52	3	270	0.5	0.3	44.0
104P16	964214 0	66	3	1000	16.0	0.2	49.3
104P16	964215 0	21	2	270	0.4	0.1	44.1
104P15	964216 0	6	1	970	0.4	0.1	35.3
104P16	964217 0	165	1	540	4.2	0.2	69.9
104P15	964218 0	219	1	1800	4.7	0.1	59.0
104P15	964219 0	45	1	1300	4.8	0.1	46.1
104P16	964220 0	188	8	830	1.3	1.7	43.4
104P15	964222 10	175	4	670	1.7	1.4	62.1
104P15	964223 20	178	4	600	1.6	1.4	62.5
104P15	964224 0	162	9	1200	4.7	1.0	46.0
104P15	964225 0	141	5	850	2.0	1.0	53.0
104P16	964226 0	78	4	880	2.1	0.6	54.4
104P15	964227 0	91	3	580	0.7	0.6	66.5
104P15	964228 0	115	4	570	0.5	0.5	55.9
104P15	964229 0	106	3	560	1.1	0.7	56.4
104P15	964231 0	135	5	540	0.9	1.3	62.9
104P10	964232 0	141	7	780	1.7	1.2	49.1
104P09	964233 0	99	5	590	1.8	0.6	73.3
104P10	964234 0	116	4	790	0.8	0.7	55.4
104P10	964235 0	147	5	520	0.7	1.1	56.3
104P10	964236 0	96	3	500	0.6	0.9	65.6
104P10	964237 0	95	2	560	0.5	1.0	61.5
104P09	964238 0	180	8	790	3.3	1.7	40.4
104P09	964239 0	66	5	850	2.6	0.8	51.3
104P09	964240 0	161	4	430	0.8	0.8	66.3
104P09	964242 0	92	2	440	3.6	0.3	75.0
104P09	964243 0	108	3	460	0.6	0.5	72.3
104P09	964245 0	147	4	440	0.9	0.8	67.1
104P09	964246 0	161	4	380	0.8	0.8	68.0
104P09	964247 0	214	5	260	0.9	1.5	70.2
104P09	964248 0	105	3	320	0.7	0.6	64.2
94M06	964249 0	32	2	200	16.0	0.1	38.3
94M06	964250 0	14	1	170	2.7	0.1	36.7
94M06	964251 0	14	1	160	1.3	0.1	32.1
94M06	964252 0	79	2	290	190.0	0.3	36.5
94M06	964253 0	130	5	510	360.0	0.8	30.1
94M06	964254 0	216	8	220	1.8	0.9	69.5
94M06	964255 0	124	6	250	1.3	1.6	60.2
94M06	964256 0	95	12	800	6.7	0.9	33.4
94M06	964257 0	72	2	190	0.5	0.3	54.6
94M06	964258 0	190	26	1800	33.0	1.1	11.4
94M06	964259 0	181	24	1600	24.0	1.0	14.5
94M06	964260 0	176	23	1600	12.0	0.9	9.1
94M06	964262 0	174	26	1600	14.0	0.9	7.8
94M06	964263 10	33	2	280	11.0	0.3	36.7
94M06	964264 20	26	3	310	5.4	0.3	40.1
94M06	964265 0	24	2	310	4.3	0.3	28.0
94M06	964266 0	33	3	500	1.3	0.3	24.4
94M06	964267 0	149	19	1400	4.9	1.2	19.6
94M06	964268 0	74	4	340	1.3	0.5	42.7
94M06	964269 0	136	8	430	1.3	1.2	51.9
94M06	964270 0	64	3	560	0.7	0.3	58.3
94M06	964271 0	120	14	1300	8.2	1.0	27.9
94M06	964272 0	118	7	350	1.2	0.9	70.0
94M06	964273 0	5	1	240	0.8	0.1	36.2
94M03	964274 0	68	3	610	4.1	0.7	34.1
94M03	964276 0	322	15	2200	17.0	3.0	15.8
94M03	964277 0	85	6	410	1.6	0.9	36.7
94M03	964278 0	430	24	2800	29.0	3.6	14.5
94M03	964279 0	136	8	1300	5.5	1.0	33.5
104P09	964280 0	187	3	600	2.6	0.9	58.6
104P09	964282 0	68	1	1200	1.0	0.8	47.2
104P09	964283 0	92	6	910	16.0	0.7	30.9
104P09	964284 10	50	3	780	5.9	0.6	51.8
104P09	964285 20	40	2	780	4.9	0.6	50.6
104P09	964286 0	144	3	450	3.8	1.0	64.7
104P09	964287 0	86	8	1200	6.0	0.9	35.7
104P09	964288 0	209	1	240	0.8	0.8	73.5
104P09	964289 0	31	1	500	1.3	0.2	38.6
104P09	964290 0	72	2	450	0.8	0.2	51.5
104P09	964291 0	129	7	740	1.5	0.8	46.6
104P09	964293 0	163	16	1200	5.0	1.0	15.5
104P09	964294 0	154	2	300	1.7	0.6	81.8
104P10	964295 0	32	2	500	1.5	0.2	41.8
104P16	964296 0	181	7	670	1.3	1.3	61.6
104P16	964297 0	26	1	480	1.1	0.3	57.2
104P16	964298 0	48	1	510	0.6	0.7	49.5
104P16	964299 0	95	1	470	0.6	0.2	66.7
104P16	963300 0	64	3	1300	8.4	0.2	41.8
104P16	964302 0	53	2	1500	30.0	0.5	49.1
104P16	964303 0	16	1	820	0.2	0.2	27.0
104P16	964304 0	19	1	560	0.5	0.2	26.4
104P16	964305 0	18	1	560	0.3	0.2	27.3
104P16	964306 0	21	1	610	0.2	0.5	19.6
104P16	963307 10	90	2	390	2.7	0.5	84.1
104P16	964308 20	91	1	330	2.9	0.5	84.3
104P16	964309 0	146	2	270	1.7	0.7	70.9
104P09	964310 0	98	3	650	1.4	0.4	57.6
104P09	964311 0	107	8	1200	3.6	0.5	48.4
104P09	964312 0	64	1	820	3.0	0.2	59.7
104P09	964313 0	140	4	560	2.6	0.7	61.9
104P09	964314 0	112	2	580	6.9	0.6	58.4
104P09	964315 0	92	2	430	8.0	0.1	69.7
104P09	964316 0	78	1	420	3.3	0.3	81.9
94M12	964317 0	280	5	790	3.4	1.1	44.3
94M12	964319 0	560	8	1900	3.8	2.0	54.7
94M12	964320 0	550	6	1200	4.0	2.1	54.2
104P09	964322 0	288	1	500	23.0	0.7	78.2
104P09	964323 0	85	5	1200	8.3	0.5	39.3
104P09	964324 10	86	6	1800	28.0	0.4	35.4
104P09	964325 20	79	5	1800	26.0	0.3	38.1
104P09	964326 0	122	6	600	4.5	0.3	61.3
104P09	964327 0	113	4	1100	11.0	0.4	63.2
104P09	964328 0	127	4	780	2.9	0.4	51.5
104P09	964329 0	150	4	580	2.4	0.7	54.5
104P09	964330 0	165	1	350	13.0	0.1	64.1
104P09	964331 0	135	8	680	3.7	0.1	63.8
104P09	964332 0	98	3	490	1.0	0.2	68.8
104P09	964333 0	198	2	890	28.0	0.3	53.1
104P16	964334 0	39	1	2400	260.0	0.1	38.6
104P16	964335 0	68	3	890	12.0	0.1	59.0
104P16	964337 0	172	3	730	1.5	0.6	58.0
104P16	964338 0	55	3	1100	15.0	0.5	45.4
104P16	964339 0	86	8	1300	9.0	0.4	32.3
104P16	964340 0	80	2	730	9.5	0.6	59.5
104P16	964342 10	84	3	740	2.6	0.3	51.5
104P16	964343 20	75	4	620	3.3	0.3	51.0
104P16	964344 0	126	6	630	3.4	0.5	57.9
104P09	964345 0	110	4	980	5.0	0.3	58.5
104P09	964346 0	159	6	640	1.9	0.7	60.6
104P09	964347 0	114	3	600	2.9	0.3	64.3
104P09	964348 0	119	1	890	16.0	0.3	55.5
104P09	964350 0	120	10	920	4.1	0.6	42.0
104P09	964351 0	80	3	580	4.0	2.6	51.7
104P09	964352 0	64	4	560	3.0	0.3	47.7
104P09	964353 0	318	9	680	1.0	2.3	49.9
104P09	964354 0	113	4	230	2.7	0.7	75.4
104P09	964355 0	181	3	460	3.0	1.0	77.5
94M05	964356 0	169	8	1100	4.1	1.8	28.5
94M05	964357 0	89	2	260	0.8	0.3	66.7
94M05	964358 0	21	1	110	1.8	0.1	48.6
94M05	964359 0	82	1	280	0.9	0.2	58.1
94M05

BRITISH COLUMBIA
Ministry of Employment and Investment
Energy and Minerals Division
Geological Survey Branch

Geological Survey Branch
OPEN FILE 1997-14

PRELIMINARY REGIONAL LAKE SEDIMENT GEOCHEMISTRY OF THE NORTHERN KECHIKA TROUGH, BRITISH COLUMBIA

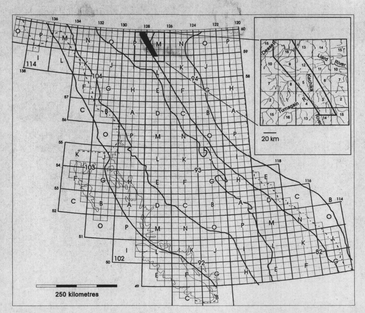
NTS 94M/2, 3, 4, 5, 6, 12, 13; 104P/8, 9, 15, 16

by Stephen Cook, Wayne Jackaman, Peter Friske, Stephen Day, Anna Coneys and Helena Wong

SCALE 1:100 000

kilometres
1 0 1 2 3 4 5 6 7 8 9 10

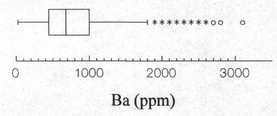
GSC Open File 2860

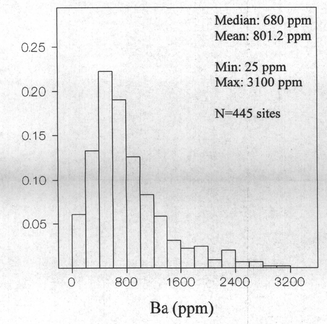


BARIUM (PPM)

Barium (ppm) INAA

>95th:	◆	1901 - 3100
90th - 95th:	■	1501 - 1900
70th - 90th:	●	931 - 1500
50th - 70th:	•	681 - 930
0 - 50th:	+	25 - 680





BASE MAP INFORMATION

ELEVATIONS IN METRES OR FEET ABOVE SEA LEVEL; CONTOUR INTERVALS VARY

TRANSVERSE MERCATOR PROJECTION

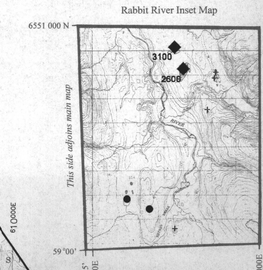
ONE THOUSAND METRE UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 9

NORTH AMERICAN DATUM 1927

GRID NORTH IS APPROXIMATELY 1° EAST OF TRUE NORTH

BASE MAPS PRODUCED BY SURVEYS AND MAPPING BRANCH, MINISTRY OF NATURAL RESOURCES, OTTAWA

Rabbit River Inset Map



See Rabbit River Inset Map Above

NTS	ID	REP	Zn ppm (AAS)	Pb ppm (AAS)	Ba ppm (INAA)	As ppm (AAS)	Cd ppm (AAS)	LOI %
94M03	964002	0	236	12	1100	5.8	1.8	27.4
94M03	964003	0	151	21	1800	3.0	0.3	7.6
94M03	964004	0	55	4	930	1.9	0.6	23.8
94M03	964005	0	271	16	1500	5.0	3.7	51.0
94M03	964006	0	55	5	1100	1.9	0.6	25.9
94M03	964007	0	170	22	1700	2.8	0.6	9.0
94M03	964008	0	74	6	1200	0.9	0.7	23.7
94M03	964009	0	216	23	1600	3.9	1.6	9.9
94M03	964010	0	155	16	1000	5.3	1.1	23.3
94M02	964011	10	282	30	670	2.3	1.3	57.5
94M02	964012	20	279	30	740	1.6	1.0	39.9
94M02	964013	0	368	23	730	4.7	2.0	37.1
94M02	964014	0	155	26	1100	4.8	0.2	9.8
94M02	964015	0	177	15	1000	4.1	0.5	54.2
94M02	964016	0	93	5	580	1.7	1.2	37.0
94M02	964018	0	185	11	470	2.4	0.8	53.9
94M02	964019	0	295	16	480	3.3	1.3	53.8
94M02	964020	0	273	18	590	2.3	2.0	57.0
94M02	964022	0	296	16	2600	5.1	3.3	23.8
94M02	964024	0	334	19	3100	5.0	2.3	11.0
94M02	964025	10	197	4	640	3.4	3.0	54.1
94M02	964026	20	309	3	1000	8.5	5.6	48.0
94M02	964027	0	276	8	1100	2.7	6.8	47.0
94M02	964028	0	179	4	700	1.5	1.6	58.5
94M03	964029	0	140	10	900	0.5	2.0	39.2
94M06	964030	0	105	13	1100	3.8	1.0	23.0
94M06	964031	0	78	2	580	1.2	0.2	55.1
94M06	964032	0	125	16	1500	4.8	1.0	21.1
94M06	964033	0	1000	6	340	4.1	3.3	39.3
94M06	964034	0	228	8	690	3.6	1.0	59.8
94M03	964035	0	17	2	250	0.5	0.1	36.8
94M03	964036	0	298	18	2200	13.0	2.7	17.4
94M03	964037	0	274	17	2100	15.0	2.4	18.7
94M03	964038	0	111	8	990	7.4	1.1	32.6
94M03	964039	0	351	9	2000	9.0	3.9	28.8
94M03	964040	0	460	10	2700	15.0	4.0	19.7
94M03	964042	0	810	12	2700	33.0	6.0	24.5
94M03	964043	0	343	9	1900	25.0	4.0	25.0
94M03	964044	10	203	9	680	2.0	2.3	61.9
94M03	964045	20	195	9	680	1.8	2.2	61.9
94M03	964046	0	236	9	710	2.5	2.5	57.0
94M03	964047	0	800	5	1900	26.0	2.7	34.0
94M03	964048	0	58	4	880	3.7	0.9	39.2
94M02	964049	0	267	18	2100	5.2	1.8	10.5
94M02	964051	0	175	12	1500	3.7	1.2	20.5
94M02	964052	0	159	15	1300	3.0	1.4	17.8
94M03	964053	0	224	8	1200	36.0	2.3	30.9
94M03	964054	0	347	14	2300	6.0	2.5	19.4
94M03	964055	0	136	19	1100	4.2	0.4	9.5
94M03	964056	0	194	14	1900	16.0	1.5	16.0
94M03	964057	0	246	18	2300	16.0	2.0	12.7
94M03	964058	0	480	22	2300	6.3	9.4	36.2
94M03	964059	0	1450	4	1100	3.3	5.4	34.9
94M03	964060	0	159	15	1800	2.5	0.9	21.7
94M03	964062	0	221	22	510	8.5	0.6	43.7
94M03	964063	0	137	18	1100	4.2	0.1	12.2
94M03	964064	0	153	14	1300	15.0	1.0	23.7
94M03	964065	0	227	11	1500	9.5	1.3	30.3
94M03	964066	0	396	7	1000	7.4	2.0	35.5
94M03	964067	0	560	8	1900	19.0	3.6	33.9
94M03	964068	10	136	2	110	1.5	0.8	80.5
94M03	964069	20	119	3	310	1.1	1.0	81.9
94M03	964070	0	70	2	100	0.6	0.1	48.9
94M03	964072	0	138	2	210	0.9	2.2	44.8
94M03	964073	0	19	2	150	0.2	0.1	49.8
94M03	964074	0	366	13	1400	46.0	2.8	21.7
94M03	964075	0	600	15	1400	41.0	4.3	21.2
94M03	964076	0	605	14	1600	40.0	4.2	19.6
94M03	964077	0	700	18	2200	33.0	6.0	17.4
94M03	964078	0	650	12	1500	40.0	4.5	21.4
94M03	964079	0	3550	8	1000	4.5	17.0	29.6
94M03	964080	0	223	4	570	2.9	1.1	47.2
94M03	964082	0	26	2	100	0.1	0.2	49.3
94M03	964083	0	78	2	270	1.3	0.7	44.2
94M03	964084	0	120	3	270	0.7	0.4	58.6
94M03	964085	0	21	2	170	0.1	0.1	38.8
94M03	964087	0	153	16	1100	5.4	0.7	16.8
94M03	964088	0	595	2	390	3.5	1.0	48.0
94M03	964089	0	170	12	770	13.0	0.8	40.9
94M03	964090	0	650	7	1200	60.0	8.0	36.7
94M03	964091	0	213	2	100	0.2	0.1	31.9
94M03	964092	10	45	4	270	0.8	0.1	39.1
94M03	964093	20	39	3	320	0.7	0.1	38.9
94M03	964094	0	140	14	1300	2.0	1.2	21.0
94M03	964095	0	6600	3	270	11.0	4.4	46.2
94M03	964096	0	122	2	220	4.3	0.5	45.8
94M03	964097	0	368	12	2500	7.0	5.3	29.0
94M03	964098	0	29	1	100	0.1	0.1	45.2
94M03	964099	0	156	9	1600	4.0	2.6	23.7
94M03	964100	0	10	1	66	0.1	0.1	25.3
94M03	964102	0	148	6	360	3.4	0.3	62.9
94M03	964103	0	25	3	820	1.4	0.1	18.7
94M04	964104	0	135	8	1200	6.9	0.7	13.8
94M04	964105	10	149	10	790	3.0	0.7	34.7
94M04	964107	20	134	8	740	2.9	0.7	38.5
94M04	964108	0	71	5	620	1.2	0.3	45.8
94M04	964109	0	42	5	730	4.5	0.3	25.5
94M04	964110	0	95	8	1200	3.9	0.5	30.6
94M04	964111	0	29	2	360	0.4	0.1	37.6
94M04	964112	0	66	3	830	2.2	0.2	48.3
94M04	964113	0	83	13	810	18.0	0.3	25.2
94M04	964114	0	125	13	690	10.0	0.3	29.6
94M04	964115	0	54	7	630	3.5	0.2	38.2
94M04	964116	0	55	8	510	8.5	0.2	26.3
94M04	964117	0	56	7	590	9.0	0.3	24.6
94M04	964118	0	111	17	730	8.5	0.2	20.8
94M04	964119	0	134	7	410	2.5	0.5	65.5
94M04	964120	0	185	14	830	31.0	0.7	23.2
94M04	964122	0	146	12	540	34.0	0.6	25.7
94M03	964123	0	300	23	870	43.0	0.9	20.8
94M05	964124	0	66	2	280	8.5	0.1	45.6
94M05	964125	0	104	5	260	27.0	0.2	50.2
94M05	964126	10	71	5	230	5.1	0.3	40.6
94M05	964127	20	74	5	300	5.7	0.3	43.4
94M04	964128	0	55	3	100	0.5	0.2	56.4
94M04	964129	0	15	2	100	0.3	0.1	50.1
94M04	964130	0	70	4	230	0.5	0.2	61.7
94M04	964131	0	124	13	980	5.0	0.8	11.6
94M05	964132	0	116	5	540	1.2	0.8	58.6
94M05	964133	0	13	1	410	0.2	0.1	44.8
94M05	964134	0	118	16	2300	33.0	0.9	16.0
94M05	964135	0	59	8	600	6.0	0.6	36.0
94M06	964136	0	201	16	1400	3.0	1.3	15.5
94M06	964137	0	52	3	470	0.7	0.1	51.9
94M06	964138	0	6	2	320	0.4	0.1	43.7
94M06	964139	0	52	5	460	4.2	0.2	48.5
94M06	964142	0	188	7	340	6.4	1.2	77.4
94M06	964143	0	185	5	580	5.4	1.1	65.7
94M06	964144	0	141	5	620	2.5	0.6	54.4
94M06	964145	0	168	10	1100	11.0	0.9	34.9
94M06	964146	10	97	10	1100	6.4	0.8	34.0
94M06	964147	20	105	9	930	6.8	0.7	32.9
94M06	964148	0	47	4	720	5.4	0.2	26.4
94M06	964149	0	112	11	1000	12.0	0.7	29.7
94M06	964150	0	65	4	250	1.2	0.3	55.7
94M06	964151	0	114	14	1700	7.8	0.8	13.4
94M06	964152	0	137	3	400	1.4	0.8	72.3
94M06	964154	0	44	4	600	1.3	0.2	44.0
94M06	964155	0	25	2	400	0.3	0.1	49.3
94M06	964156	0	93	4	420	1.1	0.5	72.5
94M06	964157	0	88	6	510	1.8	0.5	45.1
94M06	964158	0	83	8	880	3.2	0.5	25.5
94M06	964159	0	74	9	970	2.0	0.6	25.1
94M06	964160	0	155	8	840	6.5	1.1	39.7
94M06	964162	0	240	11	940	8.0	1.4	41.7
94M06	964163	10	55	2	700	4.8	0.5	48.3
94M06	964164	20	67	3	700	5.8	0.4	50.2
94M06	964165	0	40	1	780	0.5	0.1	51.4
94M06	964166	0	86	9	900	2.9	0.5	27.7
94M06	964168	0	397	7	550	1.1	1.2	63.4
94M06	964169	0	51	7	900	3.1	0.2	35.0
94M06	964170	0	112	6	730	2.3	0.3	40.3
94M06	964171	0	64	4	820	3.5	0.4	38.3
94M06	964172	0	42	3	360	1.9	0.2	53.0
94M12	964173	0	40	2	280	0.2	0.3	29.5
94M12	964174	0	2880	6	600	6.4	39.0	38.1
94M12	964175	0	565	16	2200	17.0	3.4	11.0
94M12	964176	0	1850	12	2300	20.0	11.0	24.1
94M12	964177	0	421	9	2400	11.0	6.0	21.1
94M12	964178	0	3220	4	1000	1.8	23.0	32.1
94M12	964179	0	5800	2	350	18.0	14.0	18.0
94M12	964180	0	46	3	480	0.9	0.2	52.4
94M12	964182	0	60	2	900	2.4	0.1	45.6
94M12	964184	10	104	2	1000	8.5	0.6	18.1
94M12	964185	20	120	8	1000	9.5	0.7	17.6
94M12	964186	0	27	3	860	3.0	0.1	29.5
94M12	964187	0	76	4	870	6.8	0.6	34.3
94M12	964188	0	59	2	990	7.5	0.4	30.1
104P09	964189	0	93	6	1000	7.2	0.7	30.5
104P16	964190	0	109	9	1100	1.5	0.4	13.9
104P16	964191	0	122	2	330	1.4	0.4	68.6
104P16	964192	0	81	2	410	1.0	0.1	68.8
104P16	964193	0	96	3	730	7.4	0.3	70.4
104P16	964194	0	160	2	270	0.8	0.3	73.4
104P16	964195	0	57	4	1000	3.2	0.2	15.1
104P16	964196	0	226	7	590	1.2	2.2	62.7
104P16	964197	0	144	5	930	3.9	0.8	43.7
104P16	964198	0	64	2	510	0.9	0.6	42.8
104P16	964199	0	27	1	590	0.9	0.4	28.9
104P16	964200	0	45	2	720	2.0	1.0	30.9
104P16	964202	0	141	3	540	3.8	0.5	52.4
104P16	964203	0	181	4	590	2.3	0.5	67.5
104P16	964204	0	116	5	1100	5.4	0.9	39.9

NTS	ID	REP	Zn ppm (AAS)	Pb ppm (AAS)	Ba ppm (INAA)	As ppm (AAS)	Cd ppm (AAS)	LOI %
104P16	964205	0	72	4	660	3.3	0.5	28.1
104P16	964206	10	110	6	780	1.6	0.5	37.7
104P16	964207	20	111	6	940	1.7	0.5	33.7
104P16	964208	0	73	2	1600	4.5	0.2	37.1
104P16	964209	0	115	6	1400	11.0	0.7	30.5
104P16	964210	0	168	4	1200	2.2	3.0	44.2
104P16	964212	0	55	2	500	0.4	0.2	42.2
104P16	964213	0	52	3	270	0.5	0.3	44.0
104P16	964214	0	66	3	1000	16.0	0.2	49.3
104P16	964215	0	21	2	270	0.4	0.1	44.1
104P15	964216	0	6	1	970	0.4	0.1	35.3
104P16	964217	0	165	1	540	4.2	0.2	69.9
104P15	964218	0	219	1	1800	4.7	0.1	59.0
104P15	964219	0	45	1	1300	4.8	0.1	46.1
104P16	964220	0	188	8	830	1.3	1.7	43.4
104P15	964222	10	175	4	670	1.7	1.4	62.1
104P15	964223	20	178	4	600	1.6	1.4	62.5
104P15	964224	0	162	9	1200	4.7	1.0	46.0
104P15	964225	0	141	5	850	2.0	1.0	53.0
104P16	964226	0	78	4	880	2.1	0.6	54.4
104P15	964227	0	91	3	580	0.7	0.6	66.5
104P15	964228	0	115	4	570	0.5	0.5	55.9
104P15	964229	0	106	3	560	1.1	0.7	56.4
104P15	964231	0	135	5	540	0.9	1.3	62.9
104P10	964232	0	141	7	780	1.7	1.2	49.1
104P09	964233	0	99	5	590	1.8	0.6	73.3
104P10	964234	0	116	4	790	0.8	0.7	55.4
104P10	964235	0	147	5	520	0.7	1.1	56.3
104P10	964236	0	96	3	500	0.6	0.9	65.6
104P10	964237	0	95	2	560	0.5	1.0	61.5
104P09	964238	0	180	8	790	3.3	1.7	40.4
104P09	964239	0	66	5	850	2.6	0.8	51.3
104P09	964240	0	161	4	430	0.8	0.8	66.3
104P09	964242	0	92	2	440	3.6	0.3	75.0
104P09	964243	0	108	3	460	0.6	0.5	72.3
104P09	964245	0	147	4	440	0.9	0.8	67.1
104P09	964246	0	161	4	380	0.8	0.8	68.0
104P09	964247	0	214	5	260	0.9	1.5	70.2
104P09	964248	0	105	3	320	0.7	0.6	64.2
94M06	964250	0	14	1	170	2.7	0.1	38.3
94M06	964251	0	14	1	160	1.3	0.1	32.1
94M06	964252	0	79	2	290	190.0	0.3	36.5
94M06	964253	0	130	5	510	360.0	0.8	30.1
94M06	964254	0	216	8	220	1.8	0.9	69.5
94M06	964255	0	124	6	250	1.3	1.6	60.2
94M06	964256	0	95	12	800	6.7	0.9	33.4
94M06	964257	0	72	2	190	0.5	0.3	54.6
94M06	964258	0	190	26	1800	33.0	1.1	11.4
94M06	964259	0	181	24	1600	24.0	1.0	14.5
94M06	964260	0	176	23	1600	12.0	0.9	9.1
94M06	964262	0	174	26	1600	14.0	0.9	7.8
94M06	964263	10	33	2	280	11.0	0.3	36.7
94M06	964264	20	26	3	310	5.4	0.3	40.1
94M06	964265	0	24	2	310	4.3	0.3	28.0
94M06	964266	0	33	3	500	1.3	0.3	24.4
94M06	964267	0	149	19	1400	4.9	1.2	19.6
94M06	964268	0	74	4	340	1.3	0.5	42.7
94M06	964269	0	136	8	430	1.3	1.2	51.9
94M06	964270	0	64	3	560	0.7	0.3	58.3
94M06	964271	0	120	14	1300	8.2	1.0	27.9
94M06	964272	0	118	7	350	1.2	0.9	70.0
94M06	964273	0	5	1	240	0.8	0.1	36.2
94M03	964274	0	68	3	610	4.1	0.7	34.1
94M03	964276	0	322	15	2200	17.0	3.0	15.8
94M03	964277	0	85	6	410	1.6	0.9	36.7
94M03	964278	0	430	24	2800	29.0	3.6	14.5
94M03	964279	0	136	8	1300	5.5	1.0	33.5
94M03	964280	0	187	3	600	2.6	0.9	58.6
104P09	964282	0	68	1	1200	1.0	0.8	47.2
104P09	964283	0	92	6	910	16.0	0.7	30.9
104P09	964284	10	50	3	780	5.9	0.6	51.8
104P09	964285	20	40	2	780	4.9	0.6	50.6
104P09	964286	0	144	3	450	3.8	1.0	64.7
104P09	964287	0	86	8	1200	6.0	0.9	35.7
104P09	964288	0	209	2	240	0.8	0.8	73.5
104P09	964289	0	31	1	500	1.3	0.2	38.6
104P09	964290	0	72	2	450	0.8	0.2	51.5
104P09	964291	0	129	7	740	1.5	0.8	46.6
104P09	964293	0	163	16	1200	5.0	1.0	15.5
104P09	964294	0	154	2	300	1.7	0.6	81.8
104P10	964295	0	32	2	580	1.5	0.2	41.8
104P16	964296	0	181	7	670	1.3	1.3	61.6
104P16	964297	0	26	1	480	1.1	0.3	57.2
104P16	964298	0	48	2	510	0.6	0.7	49.5
104P16	964299	0	95	4	470	0.6	0.2	66.7
104P16	964300	0	64	3	1300	8.4	0.2	41.8
104P16	964302	0	53	2	1500	30.0	0.5	49.1
104P16	964303	0	16	1	820	0.2	0.2	27.0
104P16	964304	0	19	1	560	0.5	0.2	26.4
104P16	964305	0	18	1	560	0.3	0.2	27.3
104P16	964306	0	21	1	610	0.2	0.5	19.6
104P16	964307	10	90	2	390	2.7	0.5	84.1
104P16	964308	20	91	1	330	2.9	0.5	84.3
104P09	964309	0	146	2	270	1.7	0.7	70.9
104P09	964310	0	98	3	650	1.4	0.4	57.6
104P09	964311	0	107	8	1200	3.6	0.5	48.4
104P09	964312	0	64	1	820	3.0	0.2	59.7
104P09	964313	0	140	4	560	2.6	0.7	61.9
104P09	964314	0	112	2	580	6.9	0.6	58.4
104P09	964315	0	92	2	430	8.0	0.1	69.7
104P09	964316	0	78	1	420	3.3	0.3	81.9
94M12	964317	0	280	5	790	3.4	1.1	44.3
94M12	964319	0	560	8	1900	3.8	2.0	54.7
94M12	964320	0	550	6	1200	4.0	2.1	54.2
94M12	964322	0	288	1	500	23.0	0.7	78.2
104P09	964323	0	85	5	1200	8.3	0.5	39.3
104P16	964324	10	86	6	1800	28.0	0.4	35.4
104P09	964325	20	79	5	1800	26.0	0.3	38.1
104P09	964326	0	122	6	600	4.5	0.3	61.3
104P09	964327	0	113	4	1100	11.0	0.4	63.2
104P09	964328	0	127	4	780	2.9	0.4	51.5
104P09	964329	0	150	4	580	2.4	0.7	54.5
104P09	964330	0	165	1	350	13.0	0.1	64.1
104P09	964331	0	135	8	680	3.7	0.1	63.8
104P09	964332	0	98	3	490	1.0	0.2	68.8
104P09	964333	0	198	2	890	28.0	0.3	53.1
104P16	964334	0	39	1	2400	260.0	0.1	38.6
104P16	964335	0	68	3	890	12.0	0.1	59.0
104P16	964337	0	172	3	730	1.5	0.6	58.0
104P16	964338	0	55	3	1100	15.0	0.5	45.4
104P16	964339	0	86	8	1300	9.0	0.4	32.3
104P16	964340	0	80	2	730	9.5	0.6	59.5
104P16	964342	10	84	3	740	2.6	0.3	51.5
104P16	964343	20	75	4	620	3.3	0.3	51.0
104P16	964344	0	126	6	630	3.4	0.5	57.9
104P09	964345	0	110	4	980	5.0	0.3	58.5
104P09	964346	0	159	6	640	1.9	0.7