

MINERAL TITLES BRANCH
Rec'd.
JAN 31 2003
VICTORIA, B.C.

ASSESSMENT Work REPORT
on a
SOIL GEOCHEMICAL SURVEY
on the CK Group
Kamloops Mining Division

NTS 83M/13 West Raft River
Latitude 51° 52' North
Longitude 119° 34' West
Map No. 082M/13E

Owner:
PENTECO RESOURCES LIMITED
131, Egnatoff Way
Saskatoon, Saskatchewan S7J 7R9

Newson Management & Consulting Limited
Geological Consultants since 1980

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GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

December 8, 2002

27,059

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1.0 Introduction.

This report was prepared at the request of Mr. Ron Burko, of Penteco Resources Limited, of Saskatoon, Saskatchewan (client number 142386), the registered owner of the property. Its purpose is to discuss a work program on the CK claim group. The work consists of geochemical soil sampling. A total of 116 samples was taken and analysed for base and precious metals, as well as a suite of other metals.

1.1 Location and Accessibility

The CK claim group is in the Kamloops Mining District, and is centred at 51° 52' north latitude and 119° 34' west longitude, in NTS area 82 M/13, known as the West Raft River sheet (Figs. 1, 2). Access is via approximately 54 kilometres on Forestry Road #9, north of the town Clearwater. The CK claim group consists of 12 claims (92 units) named CK, CK1 to CK6 inclusive, CK84, and Horne 1 to Horne 4 inclusive. The corresponding claim numbers are 386538, 386539 to 386542 inclusive, 386545, 386546, 216771, and 348199 to 384202 inclusive. The claims have been grouped to have a common anniversary date of Feb. 4, with the next work due in 2003.

1.2 History of CK Group Mineral Property.

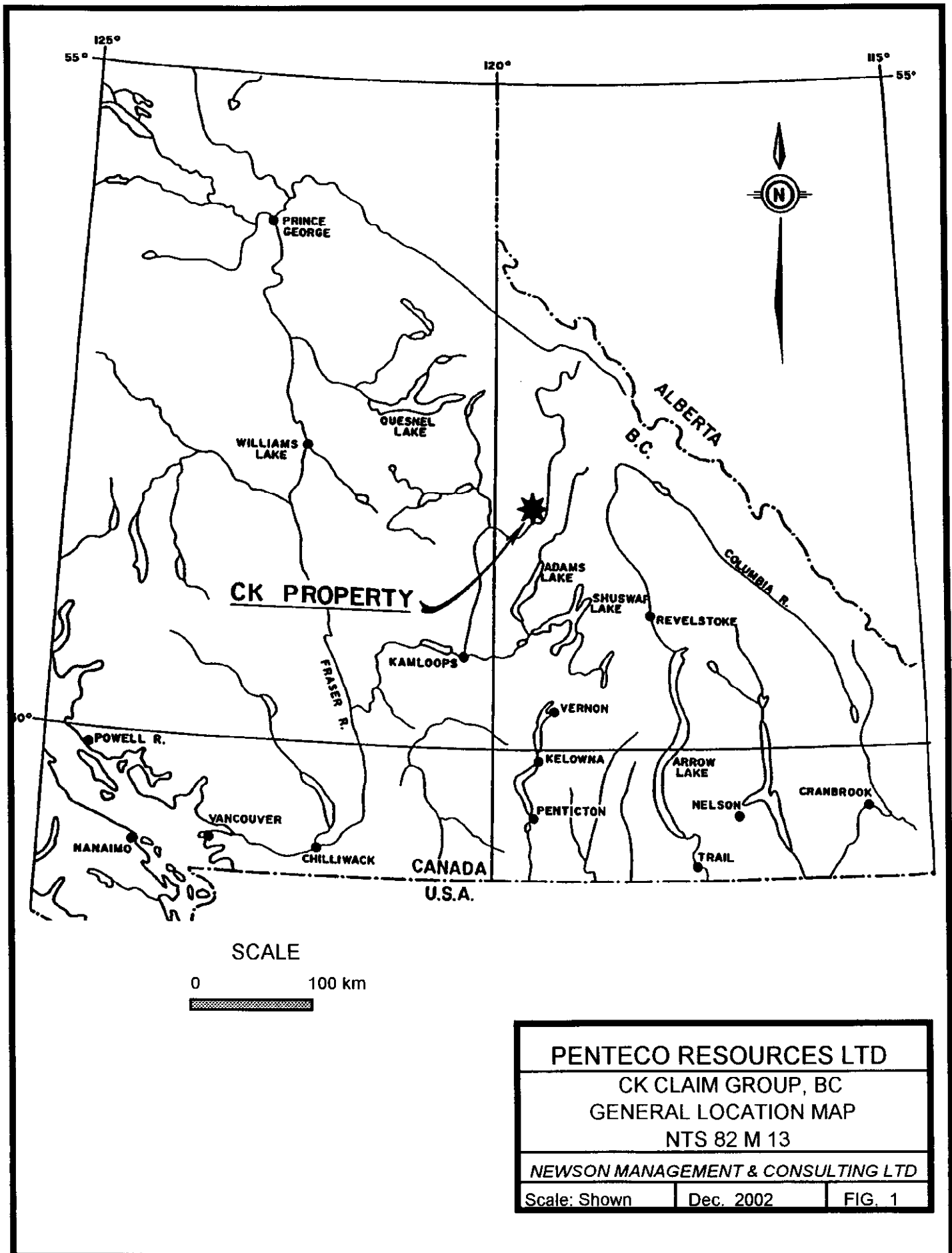
In 1937, claims covering the known showing and some of the surrounding area now covered by the present claim group were staked by Mr. Andy Horne. Large high-grade mineralized boulders were found in a creek valley by Horne. Several hand trenches were dug in trying to locate their source.

In 1974, the property was dealt to Sicinitine minerals, who optioned it to Rio Tinto. Rio Tinto carried out an air borne EM. and magnetic survey, geochemistry, prospecting and a four hole diamond drill program.

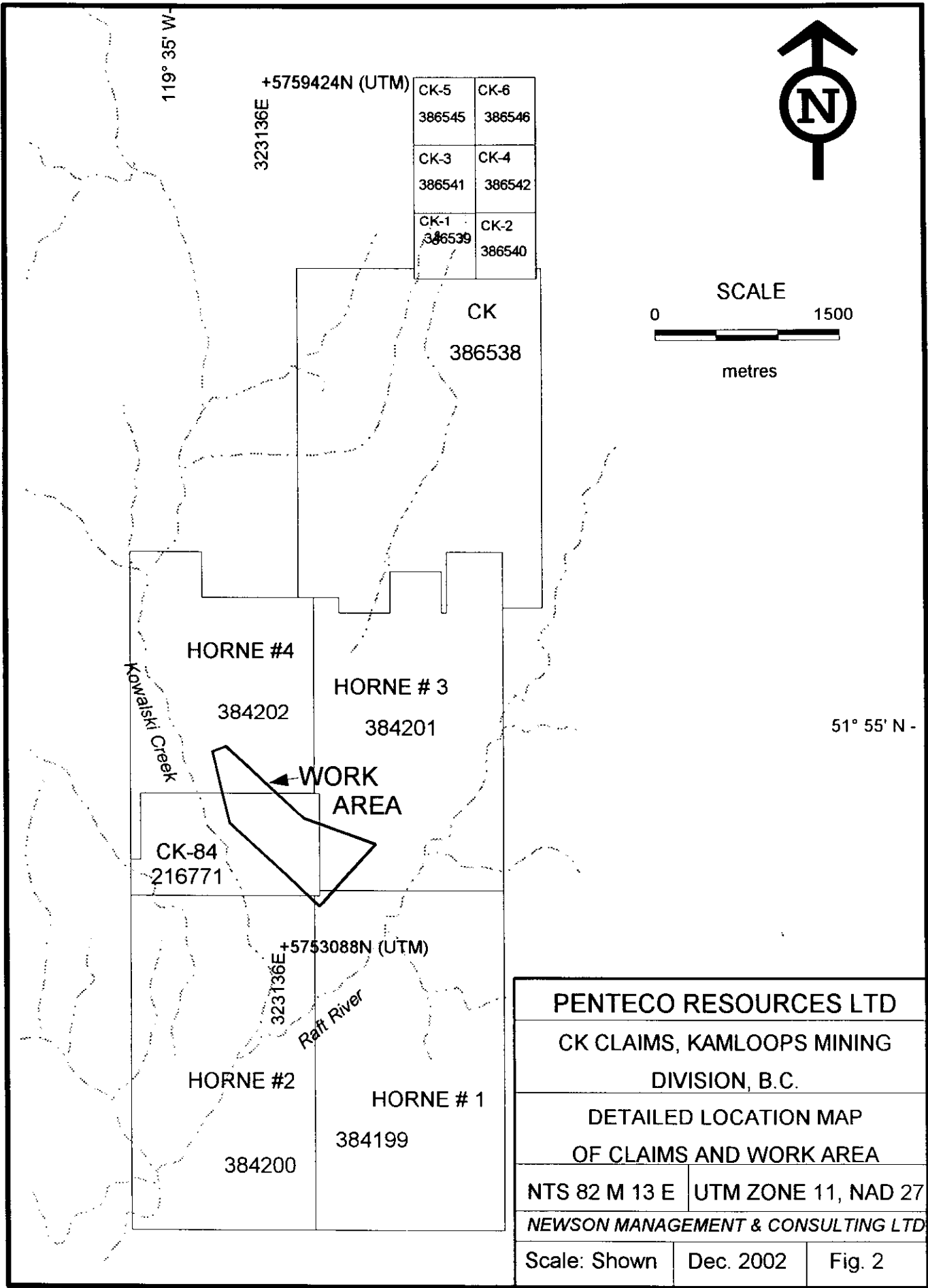
In 1975, Rio Tinto conducted an extensive program of regional grid geochemistry. Prospecting located a stratiform Zn/Pb showing about 3 km Northeast of the original boulders, which was thought to represent the source. A limited program of mapping, magnetometer and IP surveying was followed by three drill holes in this area. Two of the holes intersected relatively thin stratiform Zn/Pb mineralization. The option was terminated and returned to Sicinitine.

In 1976, Sicinitine conducted a small program of backhoe trenching in the main boulder area. The bedrock source of the boulders was not found, and the property was returned to Andy Horne.

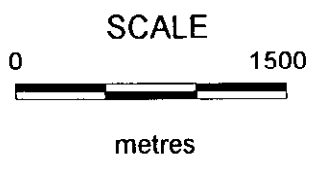
In 1977, Cominco optioned the claims from Horne, and in 1978 drilled 2114 metres of core holes. From 1978-81, Cominco drilled an additional 1,277 metres of core holes.



PENTECO RESOURCES LTD		
CK CLAIM GROUP, BC		
GENERAL LOCATION MAP		
NTS 82 M 13		
NEWSON MANAGEMENT & CONSULTING LTD		
Scale: Shown	Dec. 2002	FIG. 1



CK-5 386545	CK-6 386546
CK-3 386541	CK-4 386542
CK-1 386539	CK-2 386540



PENTECO RESOURCES LTD		
CK CLAIMS, KAMLOOPS MINING DIVISION, B.C.		
DETAILED LOCATION MAP OF CLAIMS AND WORK AREA		
NTS 82 M 13 E	UTM ZONE 11, NAD 27	
NEWSON MANAGEMENT & CONSULTING LTD		
Scale: Shown	Dec. 2002	Fig. 2

In 1978, Cominco carried out prospecting, geochemistry (600 samples), geological mapping, cat trenching, IP surveying (38 km), magnetic surveying (30 km), VLF-EM16 surveying (22 km), diamond drilling (20 widely spaced holes totaling 2114 m) resulting in the discovery of the "New Showing".

In 1979, Cominco mapped the property, carried out geochemistry (8000 samples), did a small IP survey (4 km), and drilled 18 holes, totaling 2768 metres.

In 1980, Cominco carried out local detailed geological mapping, prospecting, geochemistry (2000 samples), IP (12 km), and diamond drilling (15 holes totaling 1277 metres).

Cominco's work indicated that the mineralization is of the typically extensive sedimentary exhalative type (or "sedex"), typically hosted in bedded metasediments/ granodiorite gneiss, consisting of massive bedded sphalerite and galena, rusty in exposed outcrops, vertical to steeply dipping, with repeated dip reversals indicative of displacements by faulting.

In 1985 Cominco terminated the option.

In 1986, the property was optioned by Rea Gold Corporation, who, with their joint-venture partner Verdstone Gold Corporation, re-established the central control grid, carried out prospecting, a geochemical survey in the southern half of property, built access roads, and did some trenching. They also drilled 114 diamond drill holes totaling 12,103 metres.

In 1986, J.M. Ashton prepared a preliminary economic evaluation of the property.

In 1987 and '88 Rea and Verdstone drilled 51 diamond drill holes along a 1250 metre strike length of the "New Showing". Within this mineralized zone they inferred a resource of 1,643,000 tons of rock grading 8.6% Zinc, 1.4% Lead and 0.25 ounces per ton of silver (Canadian Mines Handbook, 1987-88 edition) in a steeply dipping mineralized zone 600 metres in length by 4 metres wide by 60 metres deep. The presence of gallium was also reported. Drilling was also done on other parts of the property, as were geochemical surveys, an IP/resistivity survey (20 km), a magnetic survey (11 km), some trenching, and some geological mapping of the southern showings.

In 1988, Dolmage Campbell Ltd. reviewed and compiled all available data for Rea Gold./Verdstone (Rotzien et al, 1988).

In 1998 J.M. Ashton and Assoc. Ltd. prepared an evaluation report on the feasibility of putting the deposit into production at 1,000 tons per day, (Ashton, 1998).

In 1999 the property was sold to BWI Resources Ltd., the predecessor company to the present owner, Penteco Resources Ltd.

In 2000, D. H. Green, P.Eng., assessed the economic potential of the property. He suggested that because of the probable sedimentary exhalative nature of the mineralization, it is possible that the ore zone is open to the north and south, and may extend to great depths. His preliminary study indicates that if the mineralization in the known zone "can be placed into the proven and probable category and placed into production at a processing rate of 1,000 tons per day using a 350 day operating year, a mine dilution factor of 10%, and recovery factor of 92% for both lead and zinc, the following metals might be recovered annually:

Zinc: 45,000 tons per year of zinc concentrate containing 55% zinc.

Lead: 6,750 tons per year of lead concentrate containing 60% lead.

About 90,000 ounces of silver may report to the lead concentrate", and 13 to 21ppm of gallium are also reported in assay of some samples from the CK claims.

In 2001, H. K. P. Yanwgwhe, P. Geol., carried out prospecting, rock sampling, and magnetic surveys on and near the known zone, on a small line grid established by cutting and blazing, and marked with flagging. The magnetic survey was designed to find out whether the known zone is magnetic. He found that the zone is magnetic, but early snow in the mountains in the area of the CK claims hampered work, and the magnetic survey could not be continued to find new mineralization. The geological and sampling work was also curtailed before completion of the planned program. The assays of samples in the rusty mineralized outcrop showing in claim CK-84, confirmed previous findings. ICP assays ranged from 2180-4710 ppm lead, 19200->20000 ppm zinc, and one grab sample assayed 22.4% zinc and 3.91% lead. The mineral assemblage is indicative of a sedex or sedimentary exhalative type. The strike of the mineralized zones is generally north-south but the dip attitudes changed abruptly from locality to locality, varying from vertical to steep (45° to 60°) east to west. These rapid reversals of dips indicate perhaps much lateral east-west faulting, though without appreciable lateral displacements. The magnetic profiles plots reflect this.

1.3 Economic and General Assessment of the Property

1.3.1 Geology and Mineralization.

The country rock, where exposed, consists of the Shuswap Metamorphic Complex that is equivalent to the Monashee Group of the Vernon map-area. They seem to be older than Carboniferous and they may be partly equivalent to the Proterozoic Kaza Group and the lower Paleozoic Cariboo Group which trend towards the map-area from the northwest. Direct evidence of the age of this Complex or of the metamorphism has so far not been found.

The Shuswap Metamorphic Complex consists of strongly foliated and lineated assemblage of metasedimentary gneisses intruded by numerous dykes, sills and irregular intrusions of granites. Rock types include strongly foliated granitic gneiss, quartz-feldspar-biotite gneiss, quartz-feldspar-hornblende gneiss, amphibolite, minor quartz mica schist, quartzite,

marble and skarn, abundant and locally dominant pegmatite, muscovite granite and biotite granodiorite, garnetiferous quartz-mica schistose gneiss.

In the area of CK-84, the rocks are well-foliated, fine-grained granitic gneiss with a massive galena-sphalerite mineralized interbed striking more or less north-south. The outcrop trace of the zone trends more northwest-southeast due to the intersection of the zone with the topographic surface.

The showing on CK-84 has been stripped and exposed, and the massive, rusty, oxidized mineralized zone is at least 4-5 metres wide at this location. Sampling assays (ICP) of this stripped exposure returned 19200- >20000 Zn and 2180-4500ppm Lead and a 50 lb grab sample of the massive ore from about sample locality (#909 in the report by Yawngwhe, 2001) returned an assay, using the standard procedure, of 22.4% zinc and 3.91% lead, giving a zinc ratio, $(Zn \times 100) / (Zn + Pb)$, of 69.33. The zinc ratio as determined from Cominco's drilling results (1977-81) in the vicinity of the "New Showing" is 86. Rea's drilling in 1987-88 gave a zinc ratio of 80, and Don Green's assessment gave a value of 84.96. These zinc ratios ranging from 69 to 86 are significant, since most deposits of the Sedex type plot between 40-70. This deposit seems to have a better zinc ratio than many similar ones.

1.3.2 Mineral Resource

Green (2000) has estimated a resource of 492,400 tonnes grading 11.3% zinc, 1.97% lead, or, using a cut-off grade of 10% combined lead plus zinc, 373,000 tonnes grading 13.6% zinc, 2.46% lead. He assumes that the average thickness of 1.5 metres is mineable, and includes only that resource above 70 metres depth.

Annual production in pounds of metal is estimated to be as described above, in section 1.2.

1.4. Summary of New Work

Work, consisting of geochemical soil sampling more detailed and focused than any carried out on the property to date, was requested by Ron Burko, President of Penteco Resources Ltd, under the overall supervision of Mr. D.H. Green, P.Eng. (B.C.). A total of 116 samples was taken, some for orientation purposes, to see if the known zone is detectable by geochemical methods, and the rest to investigate the area immediately up-slope from the known zone. The samples were analysed by TSL laboratories in Saskatoon, Saskatchewan, for the metals known to be present in potentially economic concentrations (zinc, lead, and silver), and for gold and a suite of other metals. The work was carried out on claims CK 84, Horne #3, and Horne #4.

2.0 New Work: Geochemical Soil Survey

2.1 Purpose and Scope

The purpose of the survey was to do an orientation survey below the known zone to see if it can be detected by geochemical techniques, and to test the area above the main showing to see if there might be a parallel mineralized zone. Outcrop is poor on the hillside, so it was believed that geochemical surveying might be an appropriate method to look for new mineralization.

2.2 Method

The "b" soil horizon was used as the sample medium. It was present at most of the sample sites, and, because it is enriched, is easier to analyse accurately. Samples were initially taken with a soil auger. The auger was made by welding a 1" wood auger to one end of, and in line with, a steel rod about a metre long, and a shorter piece of rod at right angles at the other end, to form a t-shaped handle. The "b" horizon occurs here at a shallow depth, usually beginning a few cm below surface. The most common sampling depth was about 25 cm. Therefore, after the first day, a mattock was used for most of the samples, but the auger was carried too, and was used occasionally where conditions dictated.

Location was by means of a GPS unit and a map of previous work. Selective availability (whereby the US military scrambles the signals from the GPS satellites so that civilian models of GPS units cannot attain sufficient accuracy to be used for military purposes) was apparently turned off for the entire period of the work. Locations are therefore likely to be accurate within the intrinsic limits of the instrument, a Magellan 2000 XL. In the bush, virtually every site was located with the GPS instrument. In easier bush, some sites were located by pace and compass, with their coordinates determined by interpolation from more widely separated points. Sample locations along straight sections of roads were located by GPS every 4th or 5th site, and intervening site coordinates were interpolated from these sites. The intrinsic positioning error of the GPS instrument is likely to be a significant percentage of the sample interval, and in easy going, where sample intervals can be accurately paced, interpolation from a few carefully taken readings is probably at least as accurate as measuring each station location with the GPS instrument.

GPS readings are UTM coordinates based on the NAD 27 geoid. Nad 27 coordinates were used because the field map used to guide the work used NAD 27 coordinates, and it was important to carry out the new work in a fairly precise geographical relationship to the previous work.

Samples were taken along five lines. One line was run along a convenient road below the known zone. All samples taken along this (and all other roads encountered) were from sites well above the road, out of the area of disturbance caused by road construction. The

sample spacing was 100 m measured along the road, and samples taken here were to see if the known zone shows up geochemically.

One line was run from the northwestern end of the main part of the zone to the northwest, approximately along the outcrop trend direction of the known zone. This was to cover a zone of low grade mineralization, and to extend the coverage beyond the limit of drilling.

A line was run along the hillside about a hundred metres above the known zone, and another line was run above that line, and approximately parallel to it. The samples taken along these lines were designed to test the rocks above the zone for mineralization.

The fifth line was run more or less across strike to test a hillside that slopes at right angles to the slope tested by the other lines.

Samples were analysed by TSL Laboratories, in Saskatoon. Twenty-nine elements were analysed in a standard geochemical package. Extraction of metals from the -80 mesh fraction of each sample aliquot was by aqua regia at 95°C for 1 hour, and analysis was by ICP. Gold was analysed by fire assay of a 15 gram sample aliquot, with an atomic absorption finish.

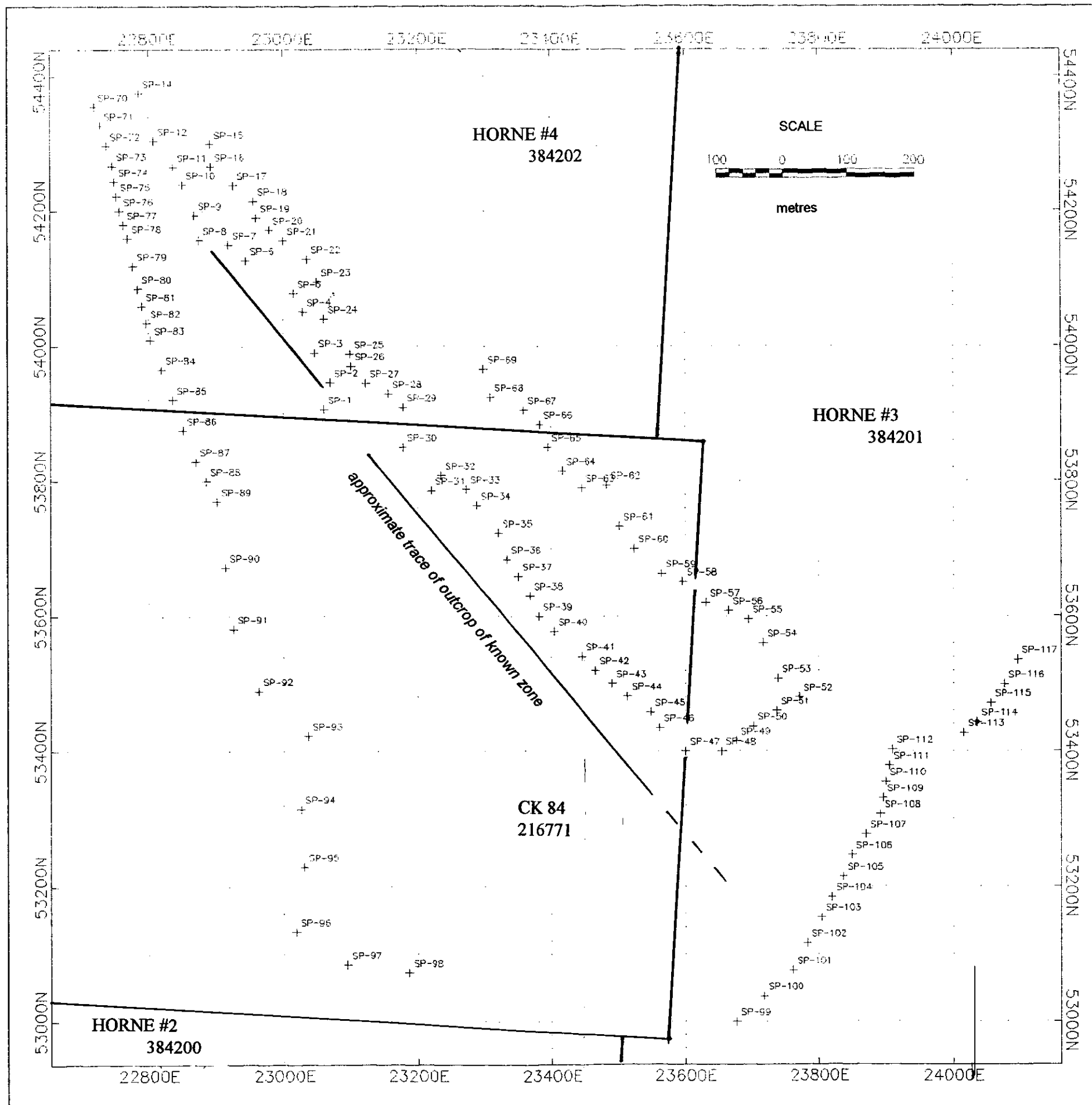
2.3 Results

Results are tabulated in a spreadsheet, Appendix A. The version included with this report is abbreviated in that only the analytical values for zinc, lead, copper, gold and silver are shown, but it contains the UTM coordinates of each sample site, and the field notes. The mean and standard deviation of the values of each element were calculated by the formulae used by the spreadsheet. Original analytical report sheets from TSL Laboratories are included in Appendix B, and include all of the results, and descriptions of the analytical procedures. Maps of sample locations (with sample numbers), zinc, lead and copper values are shown as figures 3, 4, 5, and 6 respectively. Claim boundaries on these maps have been transferred from the government claim maps.

The closest thing to a zinc anomaly is the sequence of samples SP-92 to SP-95. Samples SP-93 and -94 are greater than the mean plus two standard deviations, and the flanking samples, SP-92 and -95 are greater than the mean plus one standard deviation. The mean value of the zinc assays is 108 ppm and the standard deviation is 53 ppm. These values are in and flanking a gully which drains the known zone. This indicates that the sampling technique used here is capable of detecting the type of mineralization to be expected, although these numbers are not particularly high, given the proximity to the zone.

Samples SP-99 and -100 are the next most exciting zinc values, and are also downslope from the main zone, in and near an ephemeral drainage channel. This channel would carry run-off in spring, or following a heavy rain.

The only copper value more than 2 standard deviations greater than the mean is in sample

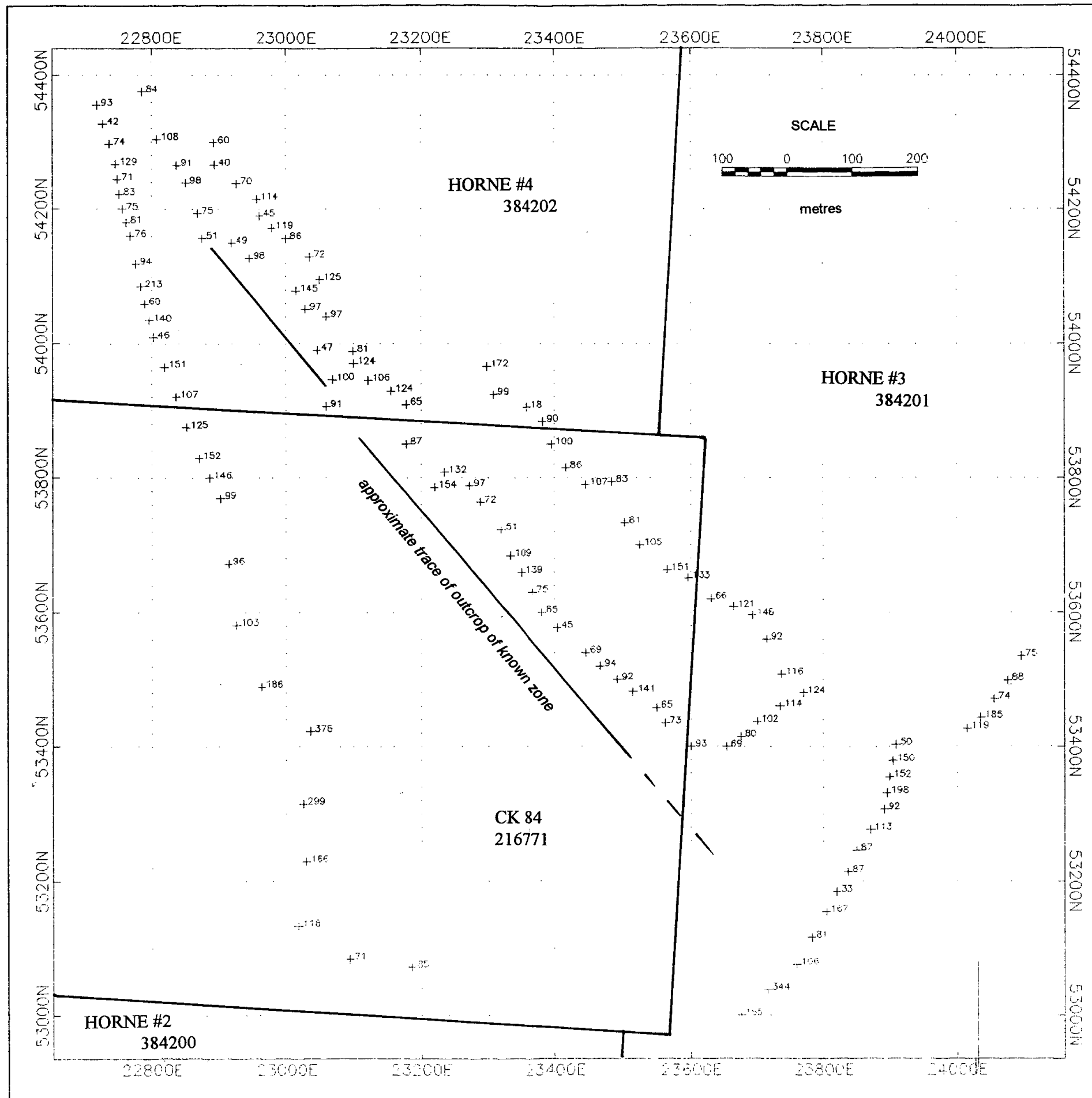


LEGEND

SP-21
+ Sample location and number

Note: for absolute UTM coordinates
add 300,000 to eastings
and 5,700,000 to northings

PENTECO RESOURCES LTD		
CK CLAIM GROUP, KAMLOOPS MD, B.C.		
GEOCHEMICAL SOIL SAMPLING		
SAMPLE SITE LOCATIONS & NUMBERS		
NTS 82 M 13 E	UTM ZONE 11(NAD27)	
NEWSON MANAGEMENT & CONSULTING LTD		
Scale: Shown	Dec. 2002	Fig. 3

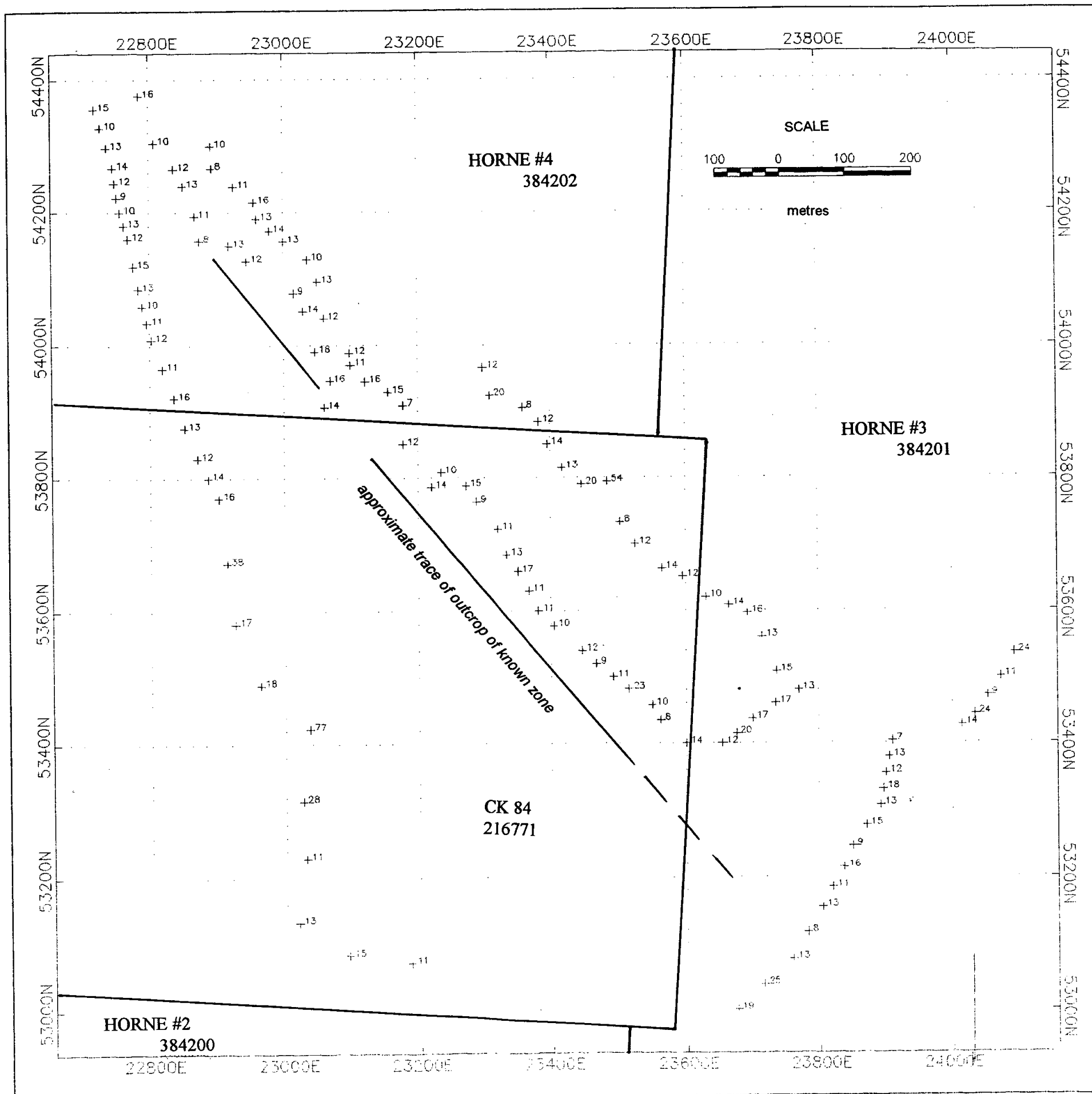


LEGEND

+ 102
Sample location and ppm zinc

Note: for absolute UTM coordinates
add 300,000 to eastings
and 5,700,000 to northings

PENTECO RESOURCES LTD		
CK CLAIM GROUP, KAMLOOPS MD, B.C.		
GEOCHEMICAL SOIL SAMPLING		
ZINC ANALYSES		
NTS 82 M 13 E	UTM ZONE 11 (NAD 27)	
NEWSON MANAGEMENT & CONSULTING LTD		
Scale: Shown	Dec. 2002	Fig. 4

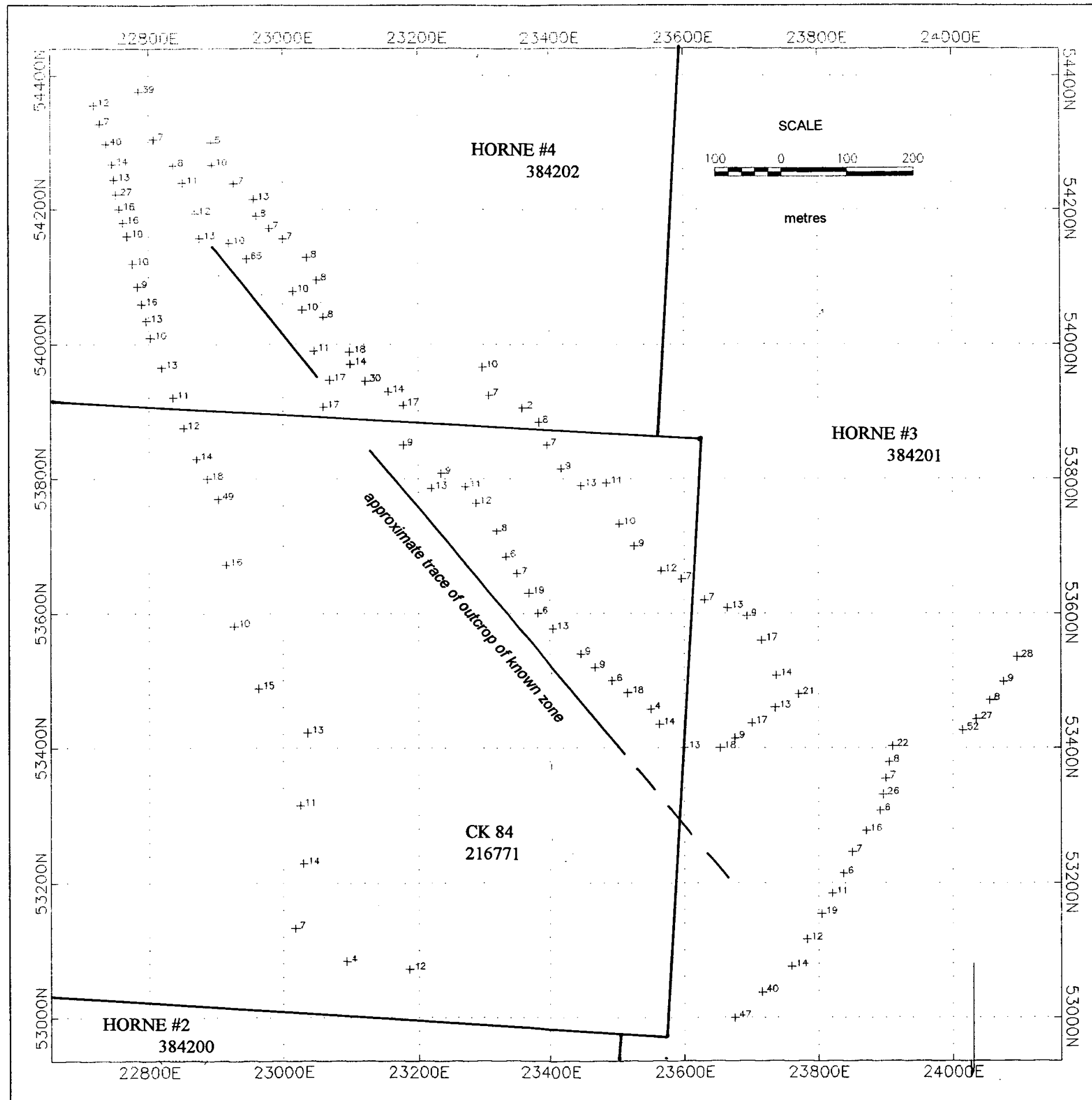


LEGEND

+ 45
+ Sample location and ppm lead

Note: for absolute UTM coordinates
add 300,000 to eastings
and 5,700,000 to northings

PENTECO RESOURCES LTD		
CK CLAIM GROUP, KAMLOOPS MD, B.C.		
GEOCHEMICAL SOIL SAMPLING		
LEAD ANALYSES		
NTS 82 M 13 E	UTM ZONE 11 (NAD 27)	
NEWSON MANAGEMENT & CONSULTING LTD		
Scale: Shown	Dec. 2002	Fig. 5



LEGEND

+ 64
Sample location and ppm copper

Note: for absolute UTM coordinates
add 300,000 to eastings
and 5,700,000 to northings

PENTECO RESOURCES LTD		
CK CLAIM GROUP, KAMLOOPS MD, B.C.		
GEOCHEMICAL SOIL SAMPLING		
COPPER ANALYSES		
NTS 82 M 13 E	UTM ZONE 11 (NAD 27)	
NEWSON MANAGEMENT & CONSULTING LTD		
Scale: Shown	Dec. 2002	Fig. 6

SP-6, which is more or less over the known zone, where it is weak. Both samples SP-99 and -100 contain values of copper greater than the mean plus 1 standard deviation, tending to increase the significance of that anomaly.

It was not really expected to find gold in these samples, but for the extra cost of the assays it was thought worthwhile to check. Gold values are so uniformly low that it is not meaningful to speak of anomalous values. The highest gold value was found in sample SP-42. That was part of the line immediately above the known zone, and the sample site is on the hillside near an old road, presumably a drill road. No significance can be attached to this value.

Values of silver are not as uniformly low as those of gold, but statistical parameters calculated for silver are not very meaningful either. A string of consecutive values above detection limit roughly corresponds to the zinc anomaly discussed above. They tend to confirm the zinc anomaly.

The other elements do not show any significant values, either as possible economic targets themselves, or as indicator elements for some other element.

3.0 Conclusions and Recommendations

1. The mineralized zone does show up in samples taken along the line below the zone, but does not show up strongly. Further programs of geochemical sampling are therefore warranted, integrated with other types of work program as discussed below. No new zone was indicated by this work program.
2. Anomalous samples are from major drainage channels, or gullies. The next phase of work should consist of sampling major drainage channels along traverses which follow the channels up and down the slope. The sample medium does not appear to be important here- fine-grained silt from the active channel and sandy material from the bank seem to give values from the same population. If anomalies are found in this phase, the upslope cut-off of the anomalous readings should be investigated by prospecting, magnetic surveying, and geological check work (formal mapping may or may not be required at this stage).
3. Recommendations made by Yawngwe, 2001, should be followed up. The program of geochemical sampling recommended above should be carried out along with Yawngwe's recommendations. In addition, small, detailed soil geochemical sampling surveys should be carried out to provide more information to use in interpreting any anomalous conditions outlined by following Yawngwe's recommendations.

4.0 References and Bibliography

Ashton, J.M., J.M. Ashton & Associates, July 1998, Preliminary Evaluation on Placing the CK Zinc Deposit into Production at 1,000 tons per day.

Blanchflower, J.D.B., 1987. Minorex Consulting Ltd., Exploration Report on the CK Property, April 24, 1987.

Green, D.H., 1998, Assessment Report Geological Work on CK Group, Vols. 1 & 2

_____ 2000. Estimate of Lead-Zinc Mineral Resources Report, New Showing Zone, CK Mineral Property, Raft River Project, April 18, 2000, Don Green, P.Eng., Green Resources Ltd.

Oliver, J.S., 1988. Drilling and Geological Report on the 1987 Exploration of the CK Property, Feb. 26, 1988, 54 p plus appendices

Rotzien, J.L., Macfadyen. M.A., Chamberlain, J.A., 1988. Dolmage Campbell Ltd., Compilation Report CK Property, September, 1988

Rotzien, J.L., Macfadyen. M.A., 1989. Dolmage Campbell Ltd., Geophysical, Geochemical, Diamond Drilling and Geological Report on the 1988 Exploration of the SYN Claims, CK Property, Vol 1, February 28, 1989.

Drill logs: Cominco & Minorex; Minorex Geological Sections (1978 to 1987)

5.0 Itemized Cost Statement

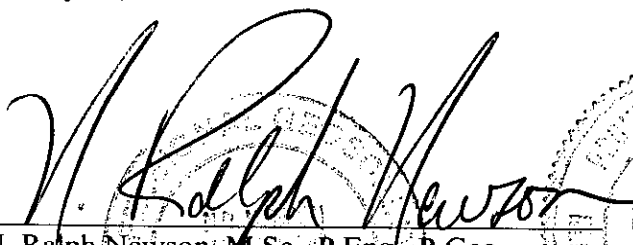
Assaying – TSL Laboratories Inc. 116 samples for Ag, Al, As, Ba, Bc, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sn, Sr, Ti, V, W, Y, Zn, Zr @\$8.00	
116 gold FA/AA @ \$10.00, 116 sample prep. @ \$2.50, plus GST	\$ 2544.46
Oct. 15-19: Labour – Maurice Lessard, 4 days @ \$300/diem	\$ 1200.00
Oct. 15- 19: Ralph Newson, P.Eng. P.Geo., 5 days @ \$ 500/diem + GST	\$ 2675.00
Oct. 16- 18: Ron Burko, expediting & consulting, 3 days @ \$ 300/diem	\$ 900.00
Field supplies: sample bags, flagging + GST	\$ 93.89
Oct. 16- 18:GPS Unit Rental, 3 days @ \$ 10.00/diem + GST	\$ 32.10
Oct. 15- 19: Hotel & Food/Meals – paid by Ron Burko, + PST, GST	\$ 954.27
Oct. 15- 19:PChev. 4x4 Rental, 5 days @ \$50	\$ 250.00
Fuel, Gasoline + GST	\$ 334.59
Travel Mileage within BC: 4x4, 2690 km@ \$0.40 /km	\$ 1076.00
Airfare: Ron Burko to Kamloops	\$ 609.31
Postage & office supplies	\$ 10.27
Misc. telephone calls/faxes pertaining to CK Claims	\$ 20.00
Report: Fixed price: \$500 + GST	\$ 535.00
TOTAL	<u>\$11,234.89</u>

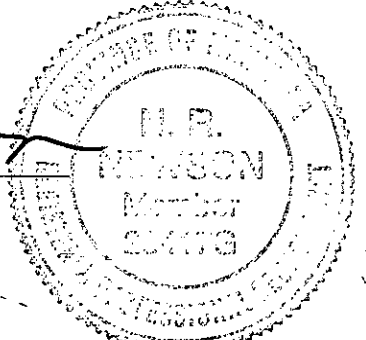
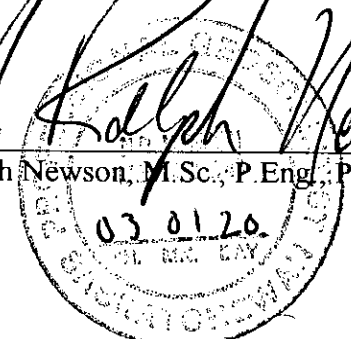
Certificate of Author

I, Norman Ralph Newson, of 3142 Eastview, Saskatoon, Saskatchewan, do hereby certify as follows:

1. That I am a graduate geologist, with B.Sc. and M.Sc. degrees from Queen's University at Kingston, Ontario, received in 1964 and 1970 respectively. I have practised my profession continuously since receiving my undergraduate degree, except for the time spent on course and thesis work for my graduate degree.
2. That my qualifications to write a report of this nature derive not only from my academic qualifications, but from increasingly responsible positions in the mining industry, including middle and senior management. I have investigated sedex-type deposits in Ontario, Québec, the Northwest Territories, Nunavut. I have visited mines in Austria, Italy, and Slovenia exploiting such deposits. I have a chemistry minor for my undergraduate degree, and successfully completed a graduate course in geochemistry related to mineral exploration beyond the work for my graduate degree. I have conducted, interpreted and or supervised soil geochemical, biogeochemical and lithogeochemical surveys for base and precious metals in Newfoundland, Québec, Ontario, Manitoba, Saskatchewan, and British Columbia.
3. That I am a Member of the Association of Professional Engineers & Geoscientists of Saskatchewan (with Permission to Consult), and a Member of the Association of Professional Engineers & Geoscientists of Manitoba.
4. That I believe I am a "qualified person" as defined in National Instrument 43-101.
5. That I carried out or supervised all of the new work discussed herein, and was on the property for the entire time of the work program.

The effective date of this report is Dec. 8, 2002. Signed at Saskatoon, Saskatchewan, January 20, 2003.


N. Ralph Newson, M.Sc., P. Eng., P. Geo.



APPENDIX A
SPREADSHEET OF SAMPLE NUMBERS, UTM COORDINATES, FIELD NOTES
and
ANALYSES OF ZINC, LEAD, COPPER, GOLD, SILVER

Penteco Resources Ltd., CK claim group, NTS 82 M 13. Geochemical soil survey results. October, 2002.

ELEMENT SAMPLES	NAD 27 Northing	NAD 27 Easting	Soil Horizc	Depth of Sample	Drainage Azimuth	Soil Type	Soil Colour	Remarks	Zn ppm	Pb ppm	Cu ppm	Au ppb	Ag ppm
SP-1	53906	23060	b	80 cm	220 deg.	sand	red/brn	blds, some orgs		14	17	<5	< .3
SP-2	53946	23069	b	50	220	sand			100	16	17	<5	< .3
SP-3	53990	23046	b	40	210	sand		near old ddh?	47	18	11	5	< .3
SP-4	54051	23029	b	40	225	sand			97	14	10	<5	< .3
SP-5	54078	23015	b	30	220	sand			145	9	10	<5	< .3
SP-6	54127	22945	b	surf	200	sand			98	12	65	<5	< .3
SP-7	54150	22919	b	30	200	sand			49	13	10	<5	< .3
SP-8	54157	22875	b	20	230	sand			51	8	13	<5	< .3
SP-9	54194	22868	b	20	240	sand			75	11	12	<5	< .3
SP-10	54239	22850	b	35	250	sand			98	13	11	<5	< .3
SP-11	54265	22837	b	20	210	sand		elev. 1176m	91	12	8	<5	< .3
SP-12	54304	22808	b	15	200	sand			108	10	7	<5	< .3
SP-14	54375	22786	b	surf	230	sand		near rusty gn oc	84	16	39	<5	< .3
SP-15	54269	22892	A, b	15	230	sand		poor sample	60	10	5	<5	< .3
SP-16	54266	22863	silt	15	230	silt, sand		eph stream bank	40	8	10	<5	< .3
SP-17	54238	22886	b(+A)	15- 20	230	sand		poor sample, bldrs	70	11	7	<5	< .3
SP-18	54205	22900	b	surf- 10	220	sand			114	16	13	<5	< .3
SP-19	54190	22960	silt?	10- 15cm	350	silt, sand	grey/red	eph str.	45	13	8	<5	< .3
SP-20	54172	22979	b	10	200	sand, silt			119	14	7	<5	< .3
SP-21	54156	23000	b	15	200	sand, Silt		eph. dr.; bank	86	13	7	<5	< .3
SP-22	54129	23035	b??	20	190	sand	lt red	poor b	72	10	8	<5	< .3
SP-23	54095	23050	b	10	210	sand			125	13	8	<5	< .3
SP-24	54040	23060	b	20	210	sand		eph. dr.	97	12	8	<5	< .3
SP-24 Re									98	10	9	<5	0.4
SP-25	53978	23069	b	25	180	sand/silt	lt. red	in eph. dr.	81	12	18	<5	< .3
SP-26	53970	23100	b	25	220	sand/silt	red/brn		124	11	14	<5	< .3
SP-27	53945	23122	silt	10	190	str. silt	grey/blk	in eph. str.	106	16	30	<5	< .3
SP-28	53929	23156	b	30	190	sand/silt	red		124	15	14	<5	< .3
SP-29	53909	23178	b	30	210	silt/sand	grey	outwash area	65	7	17	<5	< .3
SP-30	53850	23178	?	30	240	silt/sand	red	in dr. area	87	12	9	<5	< .3
SP-31	53786	23220	b	10	230	sand/silt	red	poor gps	154	14	13	<5	< .3
SP-32	53808	23235	b	25	240	sand/silt	red		132	10	9	<5	< .3

SP-33	53788	23272	b	15	250	sand/silt	red		97	15	11	<5	< .3
SP-34	53764	23288	b	15	260	sand/silt	red		72	9	12	<5	< .3
Std DS4									154	30	118	<5	0.4
SP-35	53723	23320	b	20	210	sand/silt	red		51	11	8	<5	< .3
SP-36	53684	23333	b	15	260	sand/silt	red		109	13	6	<5	< .3
SP-37	53644	23350	b	15	270	sand/silt	red		139	17	7	<5	0.3
SP-38	53638	23347	silt	surf	220	silt	grey	active ch. eph.crk.	75	11	19	<5	< .3
SP-39	53600	23381	b	10	220	sand/silt	red		85	11	6	<5	0.4
SP-40	53577	23404	silt	10	220	silt?	red	outwash-no prof.	45	10	13	<5	< .3
SP-41	53540	23446	b	10	190	sand/silt	red	crossed rd slp	69	12	9	<5	< .3
SP-42	53520	23467	b	10	180	sand/silt	red		94	9	9	35	< .3
SP-43	53500	23492	b	10	190	sand/silt	red		92	11	6	<5	0.3
SP-44	53482	23515	b	20	150	sand/silt	red		141	23	18	<5	0.3
SP-44 Re									143	24	18	<5	< .3
SP-45	53458	23549	b	10	160	sand/silt	red	rd ahead & on SW	65	10	4	<5	< .3
SP-46	53435	23562	b	20	140	sand/silt	red		73	8	14	5	< .3
SP-47	53400	23600	b	15	200	sand/silt	red	rd. slp, & on SW	93	14	13	<5	< .3
SP-48	53400	23653	b	20	160	sand/silt	light red	Az 045 deg.	69	12	18	<5	< .3
SP-49	53415	23675	b	20	170	sand/silt	red		80	20	9	<5	< .3
SP-50	53437	23700	b	20	180	sand/silt	red		102	17	17	<5	< .3
SP-51	53460	23735	b	20	180	sand/silt	red		114	17	13	<5	0.3
SP-52	53480	23770	b	20	190	sand/silt	red	under tree root					
SP-53	53508	23737	b	10	200	sand/silt	red	oc here. Az.135 deg	116	15	14	<5	0.3
SP-54	53560	23715	b	25	220	sand/silt	red	some A contam	92	13	17	<5	< .3
SP-55	53596	23693	b	20	180	sand/silt	red		146	16	9	<5	< .3
SP-56	53608	23664	b	15	170	sand/silt	red		121	14	13	<5	< .3
SP-57	53620	23630	b	20	160	sand/silt	red		66	10	7	<5	< .3
SP-58	53651	23596	b	10	160	sand/silt	light red		133	12	7	<5	< .3
SP-59	53663	23565	b	10		sand/silt			151	14	12	<5	0.3
SP-60	53700	23525	b	10	210	sand/silt	red	rd	105	12	9	<5	0.3
SP-61	53733	23503	b	10	240	sand/silt	red		81	8	10	<5	< .3
SP-62	53794	23484	b?	15	260	sand/silt	reddish/brn	gully & rd slp	83	54	11	<5	< .3
SP-63	53790	23446	b?	20	260	sand/silt	red/brn	gully slp	107	20	13	<5	< .3
SP-64	53815	23417	b?	20	220	sand/silt	grey		86	13	9	<5	< .3
SP-65	53850	23395	b?	25	260	sand/silt	red		100	14	7	<5	0.3
SP-66	53884	23382	b	25	280	sand/silt	red		90	12	8	<5	< .3
SP-67	53905	23358	silt	20	220	silt/sand	grey	in eph. dr. ch.	18	8	2	<5	< .3

SP-68	53924	23308	b	20	250	sand/silt			99	20	7	<5	< .3
Std DS4									152	30	120	<5	0.3
SP-69	53966	23298	b?	15	250	sand/silt	grey/brn		172	12	10	<5	0.4
SP-70	54355	22720	b?	10	260	sand/silt	dk red	N. bndy of prop.	93	15	12	<5	0.5
SP-71	54327	22729	b	10	260	sand/silt	dk red	rusty bldrs here	42	10	7	<5	< .3
SP-72	54297	22738	b?	10	260	sand/silt	dk brn		74	13	40	<5	0.3
SP-73	54267	22747	b	15	240	sand/silt	dk red		129	14	14	<5	0.3
SP-74	54244	22750	b	20	240	sand/silt	dk red		71	12	13	<5	0.3
SP-75	54222	22753	b	20	240	sand/silt	dk red		83	9	27	<5	0.3
SP-76	54200	22757	b?	25	240	sand/silt	red/brn		75	10	16	<5	< .3
SP-77	54180	22763	silt?	20	260	silt?	red/brn	in eph. cr.	81	13	16	<5	0.3
SP-78	54160	22769	b?	20		sand/silt	red/brn		76	12	10	<5	< .3
SP-79	54119	22777	b	25	240	sand/silt	red		94	15	10	<5	< .3
SP-80	54085	22784	b	20	250	sand/silt	red		213	13	9	5	0.3
SP-81	54059	22790	b	15	250	sand/silt	red		60	10	16	<5	0.3
SP-82	54034	22797	b	15	250	sand/silt	red		140	11	13	<5	0.3
SP-83	54009	22803	silt	20	240	silt	grey	in eph. cr.	46	12	10	<5	< .3
SP-83 Re									47	11	11	<5	< .3
SP-84	53965	22819	b	8		sand/silt	red		151	11	13	<5	0.3
SP-85	53920	22836	b	15	230	sand/silt	red		107	16	11	<5	0.4
SP-86	53875	22851	b	12	230	sand/silt	red		125	13	12	<5	< .3
SP-87	53829	22870	b	12	230	sand/silt	red		152	12	14	<5	0.5
SP-88	53800	22886	b	15	230	sand/silt	red		146	14	18	<5	0.3
SP-89	53770	22902	b	10	230	sand/silt	red/brn		99	16	49	<5	0.6
SP-90	53672	22914	b	15	240	sand/silt	red		96	38	16	<5	0.3
SP-91	53581	22926	b	10	230	sand/silt	red		103	17	10	<5	0.3
SP-92	53489	22963	b	10	230	sand/silt	red		186	18	15	<5	0.3
SP-93	53423	23036	b	15	190	sand/silt	red		376	77	13	<5	0.3
SP-94	53315	23025	b	15	300	sand/silt	red		299	28	11	<5	0.4
SP-95	53229	23030	b	10	250	sand/silt	red		166	11	14	<5	0.5
SP-96	53133	23018	b	25	240	sand/silt	red		118	13	7	<5	< .3
SP-97	53084	23094	b	10	180	sand/silt	red		71	15	4	<5	0.4
SP-98	53072	23187	b	15		sand/silt	med.-brn	gully slp	85	11	12	<5	< .3
SP-99	53000	23675	b?	15	280	silt?	lt brn-gry	in eph. dr. channel	185	19	47	<5	< .3
SP-100	53038	23716	b	25	280	sand/silt	red-brn	moist	344	25	40	<5	0.4
SP-101	53076	23760	b	30	280	sand/silt		poor horizon	106	13	14	<5	< .3
Std DS4			b						156	30	121	<5	0.4

SP-102	53116	23782	b	20	300	sand/silt	brn		81	8	12	<5	< .3
SP-103	53154	23804	b	20	300	sand/silt	red		167	13	19	<5	< .3
SP-104	53184	23820	b	35	300	sand/silt	red/brn		33	11	11	<5	< .3
SP-105	53214	23837	b	10	300	sand/silt	red	organic-rich	87	16	6	<5	0.3
SP-106	53246	23850	b	20	300	sand/silt	red		87	9	7	<5	< .3
SP-106 Re									87	4	7	<5	< .3
SP-107	53277	23871	b	30	300	sand/silt	red		113	15	16	<5	< .3
SP-108	53307	23892	b	20	320	sand/silt	red	organic	92	13	6	<5	0.3
SP-109	53331	23896	b	20	320	sand/silt	red		198	18	26	<5	< .3
SP-110	53355	23900	b	20	230	sand/silt	red		152	12	7	<5	0.4
SP-111	53379	23905	b	25	320	sand/silt	red		150	13	8	<5	0.3
SP-112	53403	23910	b	35	320	sand/silt	red//brn		50	7	22	<5	< .3
SP-113	53427	24015	b??	20	320	sand/silt	red		119	14	52	<5	< .3
SP-114	53443	24035	b	25	320	sand/silt	red		185	24	27	<5	< .3
SP-115	53471	24055	b	20	320	sand/silt	red		74	9	8	<5	< .3
SP-116	53499	24075	b	20	320	sand/silt	red		88	11	9	<5	0.3
SP-117	53535	24095	b	20	320	sand/silt	tan		75	24	28	<5	< .3
SP-52			b			sand/silt			124	13	21		0.4
Std DS4									157	33	118		0.3
Mean									107.6098	14.82	17.355		0.34651
SD									52.91543	8.598	21.108		0.07351
Mean + 2 SD									213.4406	32.02	59.571		0.49354
Mean + SD									160.5252	23.42	38.463	0	0.42002

APPENDIX B

LABORATORY ANALYTICAL REPORTS



2 - 302 48th Street - Saskatoon, SK - S7K 6A4
P (306) 931-1033 F (306) 242-4717 E info@tsllabs.com

Company: Penteco Resources Ltd.
Attention: R. Burko, R. Newson
Project: CK

TSL Report: S11982
Date Received: Oct 22, 2002
Date Reported: Oct 31, 2002
Invoice: 31180

Sample Type	Number	Size Fraction	Sample Preparation
Soil	116	- 80 mesh (180 µm)	Dry, Screen

ICP-AES Aqua Regia Digestion HCl-HNO₃

The Aqua Regia Leach digestion liberates most of the metals except those marked with an asterisk where the digestion will not be complete.

Element Name	Lower Detection Limit	Element Name	Lower Detection Limit
Ag	0.3 ppm	Mo	1 ppm
Al *	0.01%	Na *	0.01%
As	2 ppm	Ni	1 ppm
Ba *	1 ppm	P *	0.001%
Be *	1 ppm	Pb	3 ppm
Bi	3 ppm	Sb	3 ppm
Ca *	0.01%	Sn *	5 ppm
Cd	0.5 ppm	Sr *	1 ppm
Co	1 ppm	Ti *	0.01%
Cr *	1 ppm	V *	1 ppm
Cu	1 ppm	W *	2 ppm
Fe *	0.01%	Y	1 ppm
K *	0.01%	Zn	1 ppm
Mg *	0.01%	Zr *	1 ppm
Mn *	2 ppm		

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Liability is limited to the analytical cost for analyses.*

TSL LABORATORIES INC.

Penteco Resources Ltd.

2 - 302 48th Street East, Saskatoon, Saskatchewan, S7K 6A4

Report No: S11982

Attention: R. Burko, R. Newson

Tel: (306) 931-1033 Fax: (306) 242-4717

Date: October 31, 2002

Project: CK

Sample: 116 Soil

MULTIELEMENT ICP ANALYSIS

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
SP-1	<.3	1.96	<2	143	1	<3	0.24	<.5	10	41	17	2.39	0.32	0.59	448	<1	0.02	26	0.047	14	<3	<5	24	0.15	43	<2	5	91	4
SP-2	<.3	2.09	4	109	1	<3	0.14	<.5	9	39	17	2.48	0.24	0.55	401	<1	0.01	24	0.036	16	<3	<5	15	0.16	47	3	5	100	4
SP-3	<.3	0.92	2	62	<1	<3	0.27	<.5	5	55	11	1.24	0.23	0.41	186	1	0.02	14	0.027	18	<3	<5	12	0.07	22	<2	3	47	2
SP-4	<.3	1.80	<2	103	1	<3	0.12	<.5	6	25	10	2.17	0.11	0.27	353	1	0.01	17	0.079	14	<3	<5	11	0.16	45	<2	2	97	3
SP-5	<.3	3.08	<2	116	1	<3	0.17	0.6	10	32	10	2.72	0.10	0.35	419	1	0.01	25	0.129	9	<3	<5	15	0.22	54	<2	3	145	15
SP-6	<.3	1.99	3	188	<1	<3	0.10	<.5	9	35	65	6.35	0.13	0.44	154	2	0.01	32	0.083	12	3	<5	13	0.18	45	<2	2	98	12
SP-7	<.3	1.11	<2	127	<1	<3	0.21	<.5	5	60	10	1.46	0.15	0.36	165	1	0.03	17	0.036	13	<3	<5	16	0.10	30	<2	2	49	2
SP-8	<.3	1.27	<2	76	1	<3	0.11	<.5	7	22	13	1.42	0.10	0.32	123	<1	0.01	22	0.033	8	<3	<5	8	0.08	23	<2	3	51	3
SP-9	<.3	2.19	4	95	1	<3	0.10	<.5	8	25	12	1.80	0.10	0.32	123	1	0.01	23	0.048	11	<3	<5	9	0.12	30	<2	3	75	18
SP-10	<.3	1.53	<2	86	1	<3	0.13	<.5	8	27	11	1.86	0.11	0.37	191	<1	0.01	28	0.046	13	<3	<5	11	0.11	34	<2	3	98	1
SP-11	<.3	2.24	<2	79	1	3	0.11	<.5	6	30	8	2.33	0.11	0.27	124	1	0.02	16	0.066	12	<3	<5	12	0.16	44	<2	2	91	7
SP-12	<.3	2.05	3	76	1	<3	0.08	<.5	8	25	7	2.19	0.09	0.22	110	<1	0.01	18	0.141	10	<3	<5	7	0.17	45	5	2	108	12
SP-14	<.3	2.48	<2	176	<1	<3	0.11	<.5	7	84	39	5.52	0.70	1.10	489	11	0.01	14	0.057	16	<3	<5	15	0.32	109	<2	<1	84	?
SP-15	<.3	0.90	3	146	<1	<3	0.26	<.5	4	16	5	1.30	0.09	0.17	255	<1	0.01	10	0.099	10	<3	<5	26	0.09	28	<2	1	60	2
SP-16	<.3	1.12	<2	61	1	<3	0.20	<.5	6	45	10	1.34	0.15	0.31	163	1	0.02	18	0.023	8	<3	<5	17	0.07	23	<2	3	40	1
SP-17	<.3	1.79	3	76	1	<3	0.14	<.5	5	57	7	1.79	0.10	0.24	130	1	0.02	17	0.091	11	<3	<5	11	0.12	35	<2	2	70	5
SP-18	<.3	1.71	2	133	1	<3	0.16	<.5	10	36	13	2.24	0.15	0.43	208	1	0.02	32	0.044	16	<3	<5	15	0.15	45	<2	2	114	3
SP-19	<.3	0.85	<2	76	<1	<3	0.16	<.5	4	17	8	1.20	0.11	0.19	285	<1	0.01	11	0.025	13	<3	<5	16	0.08	26	<2	3	45	<1
SP-20	<.3	1.84	<2	90	1	<3	0.18	<.5	9	25	7	2.06	0.12	0.31	149	1	0.01	27	0.057	14	<3	<5	16	0.17	39	<2	2	119	4
SP-21	<3	1.43	<2	104	1	<3	0.20	<.5	6	24	7	2.00	0.13	0.27	288	1	0.01	20	0.074	13	<3	<5	18	0.16	44	<2	2	86	3
SP-22	<3	1.45	3	94	1	<3	0.17	<.5	6	30	8	1.95	0.15	0.45	187	<1	0.01	17	0.060	10	<3	<5	12	0.12	38	<2	3	72	2
SP-23	<3	1.78	4	107	1	<3	0.19	<.5	9	28	8	2.03	0.11	0.39	227	<1	0.01	27	0.059	13	<3	<5	16	0.13	36	<2	2	125	2
SP-24	<3	1.18	<2	87	<1	<3	0.17	<.5	5	54	8	1.64	0.13	0.28	278	1	0.01	14	0.094	12	<3	<5	14	0.12	31	<2	2	97	2
SP-24 Re	0.4	1.20	2	87	<1	<3	0.17	<.5	5	56	9	1.66	0.13	0.28	281	1	0.01	14	0.096	10	<3	<5	14	0.12	31	<2	2	98	2
SP-25	<.3	1.99	2	101	1	<3	0.21	<.5	11	41	18	2.34	0.25	0.60	332	<1	0.01	28	0.030	12	<3	<5	17	0.16	42	2	5	81	4
SP-26	<3	2.03	3	164	1	<3	0.17	<.5	9	41	14	2.60	0.22	0.60	259	1	0.01	27	0.102	11	<3	<5	15	0.16	45	5	3	124	2
SP-27	<.3	2.81	3	194	1	<3	0.52	0.5	13	56	30	2.88	0.44	0.82	659	<1	0.02	37	0.051	16	<3	<5	55	0.17	52	<2	14	106	<1
SP-28	<.3	2.41	2	133	1	<3	0.10	<.5	9	33	14	2.30	0.18	0.41	771	<1	0.01	22	0.113	15	<3	<5	10	0.15	41	<2	3	124	4
SP-29	<.3	1.31	3	112	1	<3	0.24	<.5	7	36	17	2.10	0.42	0.58	273	1	0.02	19	0.038	7	<3	<5	29	0.15	39	<2	4	65	2
SP-30	<.3	1.35	2	132	1	<3	0.23	<.5	5	23	9	2.07	0.12	0.25	342	1	0.01	13	0.121	12	<3	<5	29	0.13	41	<2	2	87	2
SP-31	<.3	1.97	3	115	1	<3	0.22	<.5	8	32	13	2.57	0.13	0.42	216	<1	0.01	30	0.085	14	<3	<5	20	0.13	42	2	3	154	2
SP-32	<3	1.67	2	97	1	<3	0.18	<.5	6	31	9	2.30	0.15	0.37	167	1	0.01	21	0.048	10	<3	<5	16	0.15	45	<2	2	132	2
SP-33	<3	1.82	<2	69	1	<3	0.10	<.5	6	32	11	2.20	0.14	0.38	205	1	0.01	24	0.040	15	<3	<5	10	0.15	44	<2	2	97	2
SP-34	<.3	1.56	4	71	1	<3	0.14	<.5	7	27	12	1.91	0.12	0.38	187	1	<.01	21	0.057	9	<3	<5	14	0.12	35	<2	3	72	2
Std DS4	0.4	1.76	23	144	2	5	0.54	4.9	10	161	118	3.12	0.16	0.59	815	6	0.04	33	0.087	30	6	5	28	0.09	73	5	7	154	4

Signed:

A 0.5 g sample is digested with 3 ml 3:1 HCl-HNO3 at 95C for 1 hour and diluted to 15 ml with D.I. H2O.

TSL LABORATORIES INC.

2 - 302 48th Street East, Saskatoon, Saskatchewan, S7K 6A4
 Tel: (306) 931-1033 Fax: (306) 242-4717

Report No: S11982
 Date: October 31, 2002

Penteco Resources Ltd.
 Attention: R. Burko, R. Newson
 Project: CK
 Sample: 116 Soil

MULTIELEMENT ICP ANALYSIS
 Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
SP-35	< 3	1.25	< 2	56	1	< 3	0.11	< .5	4	20	8	1.87	0.10	0.21	157	1	0.02	13	0.047	11	< 3	< 5	14	0.16	42	< 2	2	51	3
SP-36	< 3	2.15	< 2	121	1	< 3	0.13	< .5	6	23	6	2.46	0.10	0.26	113	< 1	0.02	18	0.102	13	< 3	< 5	15	0.22	51	3	2	109	10
SP-37	0.3	2.84	4	99	1	3	0.30	< .5	11	31	7	3.27	0.11	0.35	339	< 1	0.01	22	0.194	17	< 3	< 5	24	0.23	63	< 2	2	139	7
SP-38	< 3	1.55	< 2	155	1	< 3	0.24	< .5	11	42	19	2.30	0.46	0.63	350	1	0.02	26	0.050	11	< 3	< 5	24	0.14	40	< 2	5	75	3
SP-39	0.4	1.42	2	77	1	3	0.10	< .5	5	23	6	2.06	0.12	0.24	273	< 1	0.01	14	0.062	11	< 3	< 5	10	0.16	41	< 2	2	85	4
SP-40	< 3	1.00	2	108	< 1	< 3	0.17	< .5	8	29	13	1.69	0.30	0.42	246	1	0.01	18	0.055	10	< 3	< 5	12	0.11	29	< 2	5	45	3
SP-41	< 3	1.22	< 2	62	1	< 3	0.11	< .5	5	22	9	1.69	0.10	0.24	150	1	0.01	17	0.045	12	< 3	9	9	0.12	35	< 2	2	69	3
SP-42	< 3	1.80	2	90	1	< 3	0.07	< .5	7	23	9	1.96	0.09	0.27	153	< 1	0.01	21	0.049	9	< 3	< 5	6	0.16	41	< 2	2	94	9
SP-43	0.3	2.17	< 2	70	1	< 3	0.09	< .5	5	18	6	1.72	0.06	0.16	122	< 1	0.01	13	0.097	11	< 3	< 5	8	0.13	30	3	2	92	12
SP-44	0.3	2.92	5	242	1	< 3	0.23	< .5	13	43	18	3.02	0.27	0.60	223	< 1	0.02	38	0.090	23	< 3	< 5	26	0.24	59	< 2	4	141	5
SP-44 Re	< 3	3.04	3	249	1	< 3	0.24	< .5	13	43	18	3.08	0.29	0.62	225	< 1	0.02	39	0.091	24	< 3	< 5	26	0.24	58	< 2	4	143	4
SP-45	< 3	1.16	2	88	< 1	< 3	0.06	< .5	5	21	4	1.82	0.09	0.23	249	< 1	0.01	13	0.045	10	< 3	< 5	7	0.13	39	< 2	2	65	4
SP-46	< 3	1.39	< 2	118	< 1	< 3	0.15	< .5	7	33	14	2.38	0.15	0.42	318	< 1	0.01	21	0.116	8	< 3	< 5	17	0.14	45	< 2	2	73	2
SP-47	< 3	2.31	4	210	1	< 3	0.10	< .5	10	49	13	3.35	0.11	0.79	236	< 1	0.02	30	0.220	14	< 3	< 5	13	0.14	58	< 2	3	93	4
SP-48	< 3	1.78	< 2	125	1	< 3	0.12	< .5	9	37	18	2.38	0.24	0.53	210	< 1	0.01	30	0.028	12	< 3	< 5	15	0.15	43	< 2	6	69	3
SP-49	< 3	3.27	4	123	1	< 3	0.11	< .5	7	34	9	3.50	0.10	0.33	158	1	0.02	18	0.137	20	< 3	< 5	14	0.24	66	< 2	2	80	12
SP-50	< 3	1.89	3	166	1	< 3	0.14	< .5	11	30	17	3.33	0.15	0.34	273	2	0.01	22	0.115	17	< 3	< 5	22	0.22	56	5	1	102	7
SP-51	0.3	2.60	< 2	129	1	< 3	0.08	< .5	11	40	13	3.59	0.12	0.49	265	< 1	0.01	28	0.157	17	< 3	< 5	12	0.22	67	< 2	2	114	8
SP-53	0.3	2.15	2	146	1	< 3	0.08	< .5	14	47	14	3.55	0.22	0.65	223	< 1	0.01	41	0.050	15	< 3	< 5	14	0.21	71	< 2	2	116	3
SP-54	< 3	2.19	2	158	1	< 3	0.14	< .5	10	41	17	3.96	0.19	0.64	234	< 1	0.01	32	0.074	13	< 3	< 5	18	0.17	69	< 2	2	92	5
SP-55	< 3	3.90	5	163	1	< 3	0.18	0.5	15	38	9	3.66	0.15	0.48	567	1	0.02	43	0.205	16	3	< 5	16	0.29	71	< 2	2	146	19
SP-56	< 3	2.07	< 2	140	1	< 3	0.09	< .5	12	32	13	2.52	0.15	0.39	203	< 1	0.01	52	0.087	14	< 3	< 5	10	0.18	44	< 2	2	121	3
SP-57	< 3	1.21	< 2	132	< 1	< 3	0.12	< .5	5	23	7	1.63	0.12	0.29	286	1	0.01	13	0.089	10	< 3	< 5	13	0.10	30	< 2	2	66	3
SP-58	< 3	1.93	2	118	1	< 3	0.10	< .5	11	29	7	2.23	0.12	0.36	395	< 1	0.01	29	0.064	12	< 3	< 5	12	0.18	42	< 2	2	133	7
SP-60A	0.3	2.82	2	118	1	< 3	0.14	< .5	13	33	12	2.33	0.14	0.37	321	< 1	0.02	29	0.106	14	< 3	5	13	0.18	43	< 2	2	151	8
SP-60B	0.3	1.82	3	115	1	< 3	0.11	< .5	12	30	9	2.06	0.13	0.37	277	< 1	0.02	27	0.035	12	< 3	< 5	12	0.15	39	< 2	2	105	4
SP-61	< 3	1.80	< 2	104	1	< 3	0.09	< .5	6	36	10	2.53	0.16	0.48	182	< 1	0.01	16	0.046	8	< 3	< 5	9	0.17	51	< 2	3	81	4
SP-62	< 3	1.48	< 2	101	1	< 3	0.12	< .5	7	31	11	1.94	0.15	0.48	221	< 1	0.01	19	0.062	54	< 3	< 5	9	0.12	35	< 2	3	83	3
SP-63	< 3	1.86	< 2	130	1	< 3	0.16	< .5	10	37	13	2.30	0.18	0.53	408	< 1	0.02	23	0.051	20	< 3	< 5	17	0.17	47	< 2	3	107	3
SP-64	< 3	1.47	< 2	109	< 1	< 3	0.16	< .5	8	30	9	1.86	0.17	0.44	370	< 1	0.02	19	0.049	13	< 3	< 5	14	0.13	34	< 2	3	86	3
SP-65	0.3	2.03	< 2	88	1	< 3	0.12	< .5	7	27	7	2.02	0.13	0.30	117	< 1	0.01	23	0.073	14	< 3	< 5	10	0.15	35	5	2	100	7
SP-66	< 3	2.00	< 2	75	1	< 3	0.12	< .5	5	24	8	1.95	0.06	0.23	130	< 1	0.01	17	0.119	12	< 3	< 5	8	0.09	31	2	3	90	5
SP-67	< 3	0.27	2	32	< 1	< 3	0.06	< .5	1	7	2	0.51	0.06	0.04	38	< 1	0.02	2	0.015	8	< 3	< 5	6	0.09	17	< 2	1	18	2
SP-68	< 3	2.32	2	109	1	< 3	0.15	< .5	5	25	7	2.59	0.09	0.25	135	1	0.02	15	0.203	20	< 3	< 5	16	0.23	55	< 2	2	99	10
Std DS4	0.3	1.71	22	148	3	5	0.52	4.9	11	164	120	3.15	0.17	0.60	828	6	0.04	35	0.089	30	5	5	29	0.09	74	5	7	152	6

A 0.5 g sample is digested with 3 ml 3:1 HCl-HNO3 at 95C for 1 hour and diluted to 15 ml with D.I. H2O.

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TSL LABORATORIES INC.

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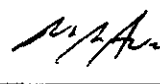
Report No: S11982
 Date: October 31, 2002

Penteco Resources Ltd.
 Attention: R. Burko, R. Newson
 Project: CK
 Sample: 116 Soil

MULTIELEMENT ICP ANALYSIS
 Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
SP-69	0.4	1.80	3	116	1	< 3	0.10	< .5	10	26	10	2.15	0.11	0.36	258	< 1	0.02	27	0.096	12	< 3	< 5	9	0.15	38	4	3	172	8
SP-70	0.5	1.81	6	142	1	3	0.13	< 5	8	49	12	3.58	0.30	0.64	604	1	0.02	22	0.050	15	< 3	< 5	18	0.24	74	4	1	93	1
SP-71	< .3	0.81	< 2	122	< 1	3	0.08	< 5	5	31	7	2.09	0.25	0.32	1031	1	0.02	9	0.024	10	< 3	< 5	11	0.18	52	< 2	1	42	1
SP-72	0.3	2.12	4	107	1	< 3	0.10	< 5	11	68	40	4.17	0.46	1.10	410	5	0.03	28	0.038	13	< 3	6	16	0.18	68	2	3	74	1
SP-73	0.3	2.22	5	130	1	< 3	0.14	< .5	9	58	14	4.37	0.34	0.64	339	3	0.02	23	0.072	14	< 3	< 5	18	0.32	87	< 2	1	129	3
SP-74	0.3	2.14	2	111	1	< 3	0.10	< .5	7	48	13	4.05	0.23	0.45	239	3	0.02	21	0.097	12	< 3	6	13	0.24	77	< 2	1	71	3
SP-75	0.3	2.46	2	142	1	< 3	0.06	< .5	11	58	27	3.90	0.36	0.86	282	< 1	0.02	32	0.034	9	< 3	< 5	11	0.20	61	< 2	2	83	2
SP-76	< .3	1.72	2	94	1	< 3	0.09	< .5	12	35	16	2.37	0.17	0.50	204	< 1	0.02	38	0.033	10	< 3	< 5	9	0.13	41	< 2	2	75	1
SP-77	0.3	1.53	< 2	85	< 1	< 3	0.15	< .5	10	37	16	2.56	0.22	0.48	238	2	0.02	27	0.035	13	< 3	< 5	16	0.12	43	< 2	2	81	< 1
SP-78	< .3	1.57	2	86	< 1	< 3	0.10	< .5	8	33	10	2.15	0.13	0.46	185	< 1	0.02	26	0.042	12	< 3	< 5	8	0.12	39	< 2	3	76	1
SP-79	< .3	1.65	2	108	1	< 3	0.09	< .5	8	30	10	2.81	0.10	0.35	203	< 1	0.02	23	0.107	15	< 3	< 5	8	0.16	48	< 2	2	94	3
SP-80	0.3	3.17	2	110	1	< 3	0.09	< .5	14	36	9	2.96	0.15	0.41	170	1	0.02	34	0.070	13	< 3	< 5	10	0.22	48	< 2	2	213	12
SP-81	0.3	1.36	2	101	< 1	3	0.09	< .5	5	44	16	2.87	0.22	0.52	189	1	0.02	19	0.043	10	< 3	< 5	11	0.20	67	< 2	2	60	1
SP-82	0.3	2.15	3	123	1	< 3	0.09	< .5	10	42	13	2.90	0.17	0.47	212	1	0.02	20	0.077	11	< 3	5	9	0.18	55	< 2	2	140	3
SP-83	< .3	0.85	2	64	< 1	< 3	0.10	< .5	5	21	10	1.56	0.11	0.24	161	1	0.02	13	0.018	12	< 3	< 5	12	0.12	38	< 2	3	46	1
SP-83 Re	< .3	0.87	< 2	66	< 1	< 3	0.11	< .5	5	21	11	1.60	0.11	0.25	167	1	0.02	12	0.019	11	< 3	< 5	12	0.12	39	< 2	3	47	< 1
SP-84	0.3	3.73	7	91	1	< 3	0.10	< .5	9	37	13	3.07	0.12	0.42	195	< 1	0.01	24	0.130	11	< 3	< 5	7	0.19	53	< 2	3	151	15
SP-85	0.4	2.36	3	113	1	3	0.13	< .5	6	38	11	3.71	0.10	0.32	181	1	0.01	19	0.140	16	< 3	< 5	13	0.23	65	< 2	2	107	6
SP-86	< .3	2.52	7	115	1	< 3	0.18	< .5	8	35	12	3.35	0.12	0.41	190	1	0.01	24	0.074	13	< 3	< 5	15	0.22	61	< 2	2	125	5
SP-87	0.5	2.57	2	95	1	< 3	0.14	< .5	10	33	14	2.80	0.12	0.39	227	1	0.02	25	0.066	12	< 3	< 5	11	0.16	46	< 2	3	152	6
SP-88	0.3	3.11	3	98	1	< 3	0.28	< .5	14	40	18	3.35	0.13	0.50	293	1	0.02	38	0.073	14	< 3	< 5	25	0.19	58	< 2	4	146	7
SP-89	0.6	2.44	3	258	1	< 3	0.68	< .5	19	49	49	3.04	0.42	1.00	414	< 1	0.06	64	0.080	16	< 3	< 5	59	0.21	47	< 2	13	99	< 1
SP-90	0.3	7.01	< 2	69	2	< 3	0.27	0.6	14	36	16	4.91	0.07	0.30	254	1	0.03	37	0.128	38	< 3	< 5	32	0.20	57	3	4	96	33
SP-91	0.3	3.25	3	79	1	< 3	0.13	< .5	8	26	10	3.02	0.06	0.25	178	1	0.02	22	0.066	17	< 3	< 5	15	0.21	59	< 2	2	103	16
SP-92	0.3	3.41	5	103	1	< 3	0.16	< .5	12	34	15	2.94	0.09	0.44	199	< 1	0.02	35	0.070	18	< 3	< 5	21	0.15	47	< 2	3	186	11
SP-93	0.3	1.92	4	77	1	< 3	0.22	< .5	5	28	13	2.60	0.11	0.24	125	1	0.01	17	0.025	77	< 3	< 5	23	0.17	55	2	5	378	4
SP-94	0.4	3.55	5	88	1	< 3	0.19	< .5	10	28	11	3.14	0.07	0.37	172	< 1	0.02	32	0.073	28	< 3	< 5	30	0.15	42	< 2	3	299	12
SP-95	0.5	2.63	4	104	1	3	0.13	< .5	8	33	14	2.94	0.09	0.49	177	1	0.01	26	0.058	11	< 3	< 5	11	0.17	52	< 2	2	166	7
SP-96	< .3	1.72	< 2	84	1	< 3	0.10	< .5	8	21	7	1.82	0.07	0.32	125	< 1	0.01	22	0.031	13	< 3	< 5	11	0.10	29	< 2	2	118	5
SP-97	0.4	2.34	3	71	< 1	< 3	0.10	< .5	3	20	4	2.12	0.04	0.10	104	1	0.01	8	0.064	15	< 3	< 5	11	0.17	48	< 2	1	71	11
SP-98	< .3	1.50	< 2	98	1	< 3	0.11	< .5	7	23	12	1.86	0.12	0.35	166	< 1	0.01	19	0.051	11	< 3	< 5	10	0.10	31	< 2	4	85	2
SP-99	< .3	2.87	2	177	1	< 3	0.22	1.0	18	42	47	2.78	0.23	0.57	947	< 1	0.02	44	0.049	19	< 3	< 5	24	0.13	45	< 2	9	185	4
SP-100	0.4	4.05	2	354	2	< 3	0.32	0.8	23	53	40	3.38	0.33	0.69	2014	1	0.02	66	0.070	25	< 3	< 5	54	0.14	53	< 2	21	344	< 1
SP-101	< .3	2.31	2	127	1	4	0.14	< .5	8	33	14	3.02	0.16	0.50	226	< 1	0.01	20	0.052	13	< 3	< 5	15	0.15	50	< 2	4	106	4
Std DS4	0.4	1.69	21	147	2	5	0.52	4.9	11	162	121	3.18	0.16	0.60	829	6	0.04	32	0.088	30	5	5	29	0.09	73	5	7	156	5

A 0.5 g sample is digested with 3 ml 3:1 HCl-HNO3 at 95C for 1 hour and diluted to 15 ml with D.I. H2O.

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Report No: S11982

Date: October 31, 2002

Penteco Resources Ltd.
 Attention: R. Burko, R. Newson
 Project: CK
 Sample: 116 Soil

MULTIELEMENT ICP ANALYSIS

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
SP-102	< 3	0.96	< 2	89	< 1	< 3	0.17	< 5	6	19	12	1.33	0.15	0.31	200	< 1	0.01	15	0.052	8	< 3	< 5	13	0.08	20	< 2	4	81	3
SP-103	< 3	3.59	2	162	1	4	0.15	< 5	15	42	19	3.47	0.14	0.54	241	< 1	0.01	54	0.109	13	< 3	< 5	14	0.24	64	< 2	5	167	22
SP-104	< 3	2.19	< 2	43	1	< 3	0.12	< 5	3	16	11	1.88	0.04	0.19	94	< 1	0.01	5	0.160	11	< 3	< 5	6	0.08	31	2	4	33	6
SP-105	0.3	2.12	2	94	1	< 3	0.13	< 5	3	18	6	2.10	0.04	0.15	204	1	0.01	6	0.122	16	< 3	< 5	9	0.13	47	< 2	1	87	7
SP-106	< .3	1.88	2	75	1	< 3	0.11	< 5	5	17	7	1.76	0.06	0.29	148	< 1	0.01	14	0.077	9	< 3	< 5	6	0.09	31	< 2	3	87	6
SP-106 Re	< .3	1.84	< 2	71	1	< 3	0.10	< 5	5	17	7	1.72	0.06	0.29	150	< 1	0.01	13	0.076	4	< 3	< 5	7	0.09	32	< 2	3	87	5
SP-107	< .3	2.11	4	116	1	< 3	0.07	< 5	29	29	16	2.57	0.10	0.25	1707	1	0.01	31	0.082	15	< 3	< 5	10	0.15	44	< 2	1	113	5
SP-108	0.3	2.09	< 2	64	1	< 3	0.07	< 5	5	21	6	2.28	0.06	0.20	213	< 1	0.01	11	0.132	13	< 3	< 5	6	0.17	48	< 2	1	92	6
SP-109	< .3	3.89	4	219	1	< 3	0.23	< 5	31	39	26	4.04	0.17	0.44	525	< 1	0.01	63	0.359	18	3	< 5	27	0.23	65	< 2	3	198	7
SP-110	0.4	4.08	< 2	119	1	< 3	0.09	< 5	12	41	7	3.66	0.12	0.39	321	1	0.02	23	0.146	12	< 3	< 5	9	0.23	60	< 2	2	152	13
SP-111	0.3	3.77	< 2	97	1	< 3	0.09	< 5	13	29	8	3.10	0.10	0.27	241	< 1	0.02	29	0.123	13	< 3	< 5	9	0.20	48	< 2	3	150	12
SP-112	< .3	1.65	< 2	88	1	< 3	0.09	< 5	8	34	22	2.63	0.16	0.50	156	< 1	0.01	28	0.053	7	< 3	< 5	8	0.12	39	< 2	2	50	2
SP-113	< .3	2.83	2	142	1	< 3	0.54	< 5	50	38	52	3.13	0.35	1.06	958	< 1	0.09	111	0.079	14	< 3	< 5	36	0.19	56	< 2	6	119	5
SP-114	< .3	4.73	3	165	2	< 3	0.08	< 5	35	37	27	3.70	0.12	0.37	887	< 1	0.02	59	0.194	24	3	< 5	10	0.30	58	< 2	10	185	37
SP-115	< .3	1.51	2	65	< 1	< 3	0.05	< 5	5	23	8	1.85	0.09	0.27	155	< 1	0.01	14	0.033	9	< 3	< 5	6	0.11	34	< 2	2	74	2
SP-116	0.3	2.22	4	88	1	< 3	0.08	< 5	8	26	9	2.58	0.11	0.27	509	< 1	0.01	17	0.165	11	< 3	< 5	9	0.15	48	3	2	88	5
SP-117	< .3	2.24	3	237	1	< 3	0.13	< 5	14	50	28	2.80	0.26	0.75	482	< 1	0.01	45	0.026	24	< 3	< 5	20	0.14	47	< 2	6	75	6
No Number	0.4	3.04	3	152	1	< 3	0.07	< 5	8	52	21	5.09	0.28	0.68	212	1	0.01	23	0.058	13	< 3	< 5	11	0.24	86	< 2	2	124	5
Std DS4	0.3	1.78	21	148	2	5	0.55	4.5	10	162	118	3.16	0.15	0.60	827	6	0.04	30	0.088	33	7	5	27	0.09	73	6	7	157	6



Signed: _____
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A 0.5 g sample is digested with 3 ml 3:1 HCl-HNO3 at 95C for 1 hour and diluted to 15 ml with D.I. H2O.



2 - 302 48th Street • Saskatoon, SK • S7K 6A4
P (306) 931-1033 F (306) 242-4717 E info@tsllabs.com

Company: Penteco Resources Ltd.
Geologist: R. Newson
Project: CK

TSL Report: S11982
Date Received: Oct 22, 2002
Date Reported: Oct 29, 2002
Invoice: 31180

Remarks: Not Received: SP-52, SP-59
Duplicate: SP-60
Additional: No Number

Sample Type:	Number	Size Fraction	Sample Preparation
Soil	116	-80 mesh (180 µm)	Dry, Screen

Standard Procedure:

Samples for Au Fire Assay/AA (ppb) are weighed at 15 grams.

Element Name	Unit	Extraction Technique	Lower Detection Limit	Upper Detection Limit
Au	ppb	Fire Assay/AA	5	1000

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Liability is limited to the analytical cost for analyses.*



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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Penteco Resources Ltd.
131 Egnatoff Way
Saskatoon, SK
S7K 7R9

REPORT No. S11982

SAMPLE(S) OF Soil

INVOICE #: 31180
P.O.:


R. Newson
Project: CK

Not Rec'd: SP-52, SP-59 / Duplicate SP-60 / Additional: No Number

	Au ppb
SP- 1	<5
SP- 2	<5/<5
SP- 3	5
SP- 4	<5
SP- 5	<5
SP- 6	<5
SP- 7	<5
SP- 8	<5
SP- 9	<5
SP- 10	<5
SP- 11	<5
SP- 12	<5/<5
SP- 14	<5
SP- 15	<5
SP- 16	<5
SP- 17	<5
SP- 18	<5
SP- 19	<5
SP- 20	<5
SP- 21	<5

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Saskatoon, SK
S7K 7R9

REPORT No. S11982

SAMPLE(S) OF Soil

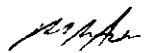
INVOICE #:31180
P.O.:

R. Newson
Project: CK

	Au ppb
SP- 22	<5
SP- 23	<5
SP- 24	<5/<5
SP- 25	<5
SP- 26	<5
SP- 27	<5
SP- 28	<5
SP- 29	<5
SP- 30	<5
SP- 31	<5
SP- 32	<5
SP- 33	<5/<5
SP- 34	<5
SP- 35	<5
SP- 36	<5
SP- 37	<5
SP- 38	<5
SP- 39	<5
SP- 40	<5
SP- 41	<5

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SAMPLE(S) OF Soil

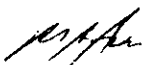
INVOICE #: 31180
P.O.:

R. Newson
Project: CK

	Au ppb
SP- 42	35
SP- 43	<5/<5
SP- 44	<5
SP- 45	<5
SP- 46	5
SP- 47	<5
SP- 48	<5
SP- 49	<5
SP- 50	<5
SP- 51	<5
SP- 53	<5
SP- 54	<5/<5
SP- 55	<5
SP- 56	<5
SP- 57	<5
SP- 58	<5
SP- 60 A	<5
SP- 60 B	<5
SP- 61	<5
SP- 62	<5

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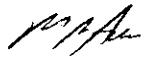
INVOICE #: 31180
P.O.:

R. Newson
Project: CK

	Au ppb
SP- 63	<5
SP- 64	<5/<5
SP- 65	<5
SP- 66	<5
SP- 67	<5
SP- 68	<5
SP- 69	<5
SP- 70	<5
SP- 71	<5
SP- 72	<5
SP- 73	<5
SP- 74	<5/<5
SP- 75	<5
SP- 76	<5
SP- 77	<5
SP- 78	<5
SP- 79	<5
SP- 80	5
SP- 81	<5
SP- 82	<5

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 Project: CK

	Au ppb
SP- 83	<5
SP- 84	<5/<5
SP- 85	<5
SP- 86	<5
SP- 87	<5
SP- 88	<5
SP- 89	<5
SP- 90	<5
SP- 91	<5
SP- 92	<5
SP- 93	<5
SP- 94	<5/5
SP- 95	<5
SP- 96	<5
SP- 97	<5
SP- 98	<5
SP- 99	<5
SP-100	<5
SP-101	<5
SP-102	<5

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SAMPLE(S) OF Soil

INVOICE #: 31180
P.O.:

R. Newson
Project: CK

	Au ppb
SP-103	<5
SP-104	<5
SP-105	<5/<5
SP-106	<5
SP-107	<5
SP-108	<5
SP-109	<5
SP-110	<5
SP-111	<5
SP-112	<5
SP-113	<5
SP-114	<5
SP-115	<5
SP-116	<5
SP-117	<5
No Number	<5

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