FINAL REPORT

1982 GEOCHEMICAL SURVEY

KOOTENAY ARC TUNGSTEN PROJECT

SOUTHEASTERN BRITISH COLUMBIA

Report S. Enns

Appendix C A. Winkler

February 1983 Vancouver, B. C.

TABLE OF CONTENTS

		Page
	SUMMARY	1
	CONCLUSIONS	2
	RECOMMENDATIONS	5
I	INTRODUCTION	7
II	GENERAL GEOLOGY	9
III	TARGETS SOUGHT	14
IV	AREA SELECTION	16
V	REGIONAL GEOCHEMICAL SURVEY	18
	1. General Statement	18
	2. Method Used	18
	3. Analysis and Data Base	20
	4. Results	22
VI	PROPERTIES AND PROSPECTS	26
	1. KAT 1 claim	26
	2. Spahats Creek	27
	3. Other Prospects - Massive Sulphide	28
	LIST OF SELECTED REFERENCES	30
	APPENDICES	
	Appendix A TABLES OF ANALYSIS	
	Appendix B COMPARATIVE Au ANALYSES	
	Appendix C DESCRIPTIONS OF ANOMALY FOLLOW-UP	
	Appendix D PROPERTY INFORMATION FORMS	
	Appendix E SUMMARY OF EXPENDITURES	

LIST OF ILLUSTRATIONS

Fig. No.	Title	
1	Location Map	after page 8
2	Geological Terranes of Southeastern B.C. 1:2,000,000	after page ~~8~~ 11
3	Flowchart for Panned Concentrate Samples	after page 19
4	Flowchart for Stream Silt Samples	after page 19
5	Panned Concentrate Anomalies Kootenay Sheet 1:250,000	in pocket
6	Panned Concentrate Anomalies Adams Plateau Sheet 1:250,000	in pocket
7	Stream Silt Anomalies Kootenay Sheet 1:250,000	in pocket
8	Stream Silt Anomalies Adams Plateau Sheet 1:250,000	in pocket
9	KAT 1 Claim 1:50,000	after page 26
10	Spahats Creek Area 1:50,000	after page 27
11	Upper Raft River 1:50,000	Appendix C
12	Upper Mad River 1:50,000	Appendix C
13	Sample Localities Kootenay Sheet 1:250,000	in pocket
14	Sample Localities Adams Plateau Sheet 1:250,000	in pocket

Table No.		
I	Panned Concentrate Anomalies	after page 25
II	Stream Silt Anomalies	after page 25
III	Panned Concentrate Analysis	Appendix A
IV	Stream Silt Analysis	Appendix A
V	Comparative Au Analysis By AA/ICP	Appendix B

SUMMARY

This report presents results of the 1982 Kootenay Arc tungsten project in southeastern British Columbia. Regional exploration was conducted within and adjacent to the Kootenay Arc and the Adams Plateau where the Kootenay Arc projects northward through the Shuswap Metamorphic Complex.

Cordilleran-type tungsten skarn deposits were the principal exploration targets. Examples are the old Emerald mine near Salmo (1 million tons grading 1% WO_3), Mactung (90 million tonnes grading 0.94% WO_3), and Cantung (6 million tonnes grading 1.6% WO_3) in the Yukon and Northwest Territories. "Stratabound-type" tungsten deposits were also considered as potential targets within the Shuswap Metamorphic Complex.

Fieldwork consisted primarily of geochemical sampling (panned concentrate and silt collection) by a four-man, truck-supported crew based from small towns throughout the region. Follow-up included prospecting, geological examination and ultraviolet lamping. Sample coverage was dependent on logging road access which is generally good in this area of British Columbia.

Much ground was covered, approximately 1,000 sites were sampled and the results indicate 111 geochemical anomalies. At the end of the field season, approximately four man-weeks were spent following up the most anomalous streams. Office evaluation of the remainder of the anomalous samples resulted in 19 high priority areas which require immediate follow-up in 1983; 14 are W anomalies, 4 are Sn-W anomalies and one is a Au anomaly. One claim, the KAT 1 (15 units), was staked to cover prospective open ground adjacent to and immediately east of the old Emerald mine near Salmo.

CONCLUSIONS

1. The geochemical sampling technique used on the project is highly sensitive in detecting tungsten and tin mineralization. Numerous anomalous streams are present in the sampled area. The following types of mineralization were found to be anomaly sources:

   a) scheelite-bearing skarns
   b) accessory scheelite with base metal and precious metal vein deposits
   c) broad areas underlain by sparse scheelite within calc-silicate gneiss
   d) broad areas underlain by weakly mineralized scheelite-quartz veinlets in granodiorite joints.
   e) sparse scheelite-bearing quartz veins in Moyie Intrusions (gabbro sills)

   Geochemical results, in themselves, cannot reliably distinguish tungsten skarns from other types of scheelite mineralization; high accompanying values in Cu, Pb or Zn may indicate scheelite accessory to vein-type base and precious metal mineralization.

2. Streams strongly anomalous in W, on the east side of northern Kootenay Lake collectively stand out as a large, highly anomalous area. Favourable geology comprising Cambrian Badshot Limestone and several recently mapped Cretaceous stocks underlie these anomalous streams. Skarn float-boulders were also noted during sampling.

3. Empirically, the lower Kootenay Arc stratigraphy (lower Cambrian carbonates) hosts most of the significant tungsten skarn showings, but tungsten

skarn mineralization is not restricted to it. For example the Arrow Tungsten skarn band, located at Ymir lies in calcareous argillite of the Jurassic Hall Formation.

4. Many of the W anomalies in the Kootenay Arc region are caused by accessory scheelite associated with known base metal and with gold occurrences. Examples are the Sheep Creek camp near Ymir, and Springer Creek near Slocan. All such occurrences are staked.

5. Dimac's Silence Lake deposit is a typical, small, tungsten skarn deposit in lower Paleozoic black shale and limestone stratigraphy. Narrow skarn bands found at Spahat's Creek contain similar skarn mineralogy with weak scheelite mineralization.

6. Although to date, sampling coverage within Shuswap Metamorphic Complex terrane is very incomplete, geochemical evidence is lacking to indicate presence of "stratabound" tungsten mineralization. Such evidence would include high values in As, Sb, Cd, Ag, Bi, etc. accompanying a W anomaly.

7. Anomalously high La, U, Th and Bi values are indicated in streams draining the White Creek and Fry Creek batholiths and their contact zones. These elements accompany very anomalous W-Sn (and in the case of the Fry Creek batholith Au) values. Source of the tungsten was traced to widely dispersed scheelite-quartz veinlets in plutonic rock joints and within minor, pale green epidote-hornblende skarn. The mineralization was found to be too weak to have economic significance. The source of the Au was not found.

8. The high limit of Au detection (3 ppm) in the Inductively Coupled Argon Plasma (ICP) analysis makes this method unsuitable for routine Au analysis.

9. Although this program was directed at tungsten-tin exploration, good gold potential exists in southeastern B.C. The Sheep Creek camp (past production about 1 million ounces) near Ymir is currently under re-evaluation. At Tillicum Mountain, 40 kilometres southeast of Nakusp, exceptionally high Au values have been discovered in small calc-silicate zones and a large tonnage potential of lower grade rock has been reported. Rio Tinto/BP continued drilling their gold-bearing breccia pipe at Alwyn Creek, 18 kilometres north of Slocan.

10. Based on geology, two areas could be of interest to Kidd Creek Mines as massive sulphide targets. They are situated in the upper Raft River and upper Mad River regions.

RECOMMENDATIONS

The following recommendations are proposed for 1983:

1. Immediate follow-up should be conducted of all A priority anomalies and any B priority anomalies which are logistically easy to follow-up. This follow-up work should be planned as an efficient two-stage operation. The first stage should concentrate on panned concentrate sampling of all possible streams draining the anomaly in order to isolate the source area as well as possible. More effective geological examination, prospecting and ultra-violet lamping of the anomalous area could then be undertaken during the second stage to delineate and evaluate the source area. Of particular interest are anomalies P-6, P-21, P-54, P-70, P-71 and P-72. Any new information on B or C priority anomalies could conceivably upgrade them.

2. The KAT 1 claim should be evaluated by geological mapping and soil sampling. Two weeks of work at an estimated cost of $5,000 should adequately cover the claim and provide sufficient information, enabling a decision for future action. This work must be completed and filed before September 21, 1983 if the claim is to remain in good standing.

3. All panned concentrate samples collected in 1982 should be re-analysed for Au using atomic absorbtion (AA) analysis. Such analysis of already prepared samples at an estimated cost of $4,000 will produce reliable Au analysis.

4. Tungsten exploration should be expanded to cover specific areas in southeastern B.C. not traversed in the 1982 program. Initial stream sampling coverage by two, two-man truck- supported crews should be followed by a geological team conducting anomaly evaluation and mineral occurrence examinations. For maximum flexibility and efficiency this would require three, 4-wheel drive vehicles and some reliance on casual helicopter support. A three-month program at an estimated cost of $160,000 would cover much of the country between the south Kootenay region and Adam's Plateau not covered in 1982. Some suggested areas for coverage are:

   a) The Duncan River drainage basin
   b) The belt of carbonate units extending from Vernon southeast to Whatshan Lake near Lower Arrow Lake
   c) The belt of carbonate units extending from Salmon River, northeast to Mabel Lake
   d) The belt of carbonate units extending from Malakwa northwest to North Barrier Lake
   e) Any thick amphibolite belts within the Shuswap Metamorphic Complex which could conceivably represent ancient submarine mafic volcanism capable of hosting "stratabound" hydrothermal tungsten mineralization of the Austrian type.

5. All geochemical data should be computerized and stored for future use, as part of the Company's expanding regional geochemical data base.

I INTRODUCTION

The objective of the 1982 Kootenay Arc project was to explore for tungsten deposits in southeastern British Columbia (Figure 1). This was accomplished by means of a geochemical stream drainage sampling program, collecting panned concentrate and silt samples.

The project area concentrated on two regions: the Kootenay region, largely covered by NTS sheet 82 F, and the Adams Plateau region, from Shuswap Lake north to Wells Gray Park covered by NTS sheet 82 M, (Figure 2).

Numerous supply and service centres are present throughout the project area. In the Kootenay region they are Nelson, Castlegar and Cranbrook; in the Adams Plateau region, Kamloops serves as the main supply centre. Project work was based out of various small towns using the convenience of motels or lodges for accomodation. The average per man-day food and accomodation cost on the project was $33.

Two, two-man truck-supported crews were employed during the field season, temporarily supplemented by four personnel at the outset of the program. Samplers worked as two-man teams emphasizing coverage of as much ground as possible using logging roads for access. Limited follow-up of geochemical anomalies was achieved before leaving an area and going on the next region.

Terrain in the project area is varied. In the Kootenay region topography is extreme with relief often exceeding 1500 metres. Stream beds frequently follow deeply incised canyons and have a steep stream profile. Rock outcrop is generally abundant on valley slopes. Thick underbush, especially along avalanche chutes and

heavy timber below the 2300 metre timberline impede foot progress through the bush. The Kootenay Lake region is a heavy rain belt.

On the Adams Plateau, subdued topography with less relief (averaging 600 or 700 metres) and more sparsely treed forest combine to make foot travel easier. Outcrop exposure is poor due to thick glacial drift.

The 1982 Kootenay Arc field work commenced May 25 and went on until September 30. An unusually heavy snowpack in the mountains resulted in initial difficulty of operation. In the south Kootenay region near Salmo up to one-half metre of snowpack on logging roads made travel in mid-June impossible between the 4000 and 4500 foot elevation. Normally, in the north Kootenay region, the 5000 foot elevation is clear of snow by mid-June.

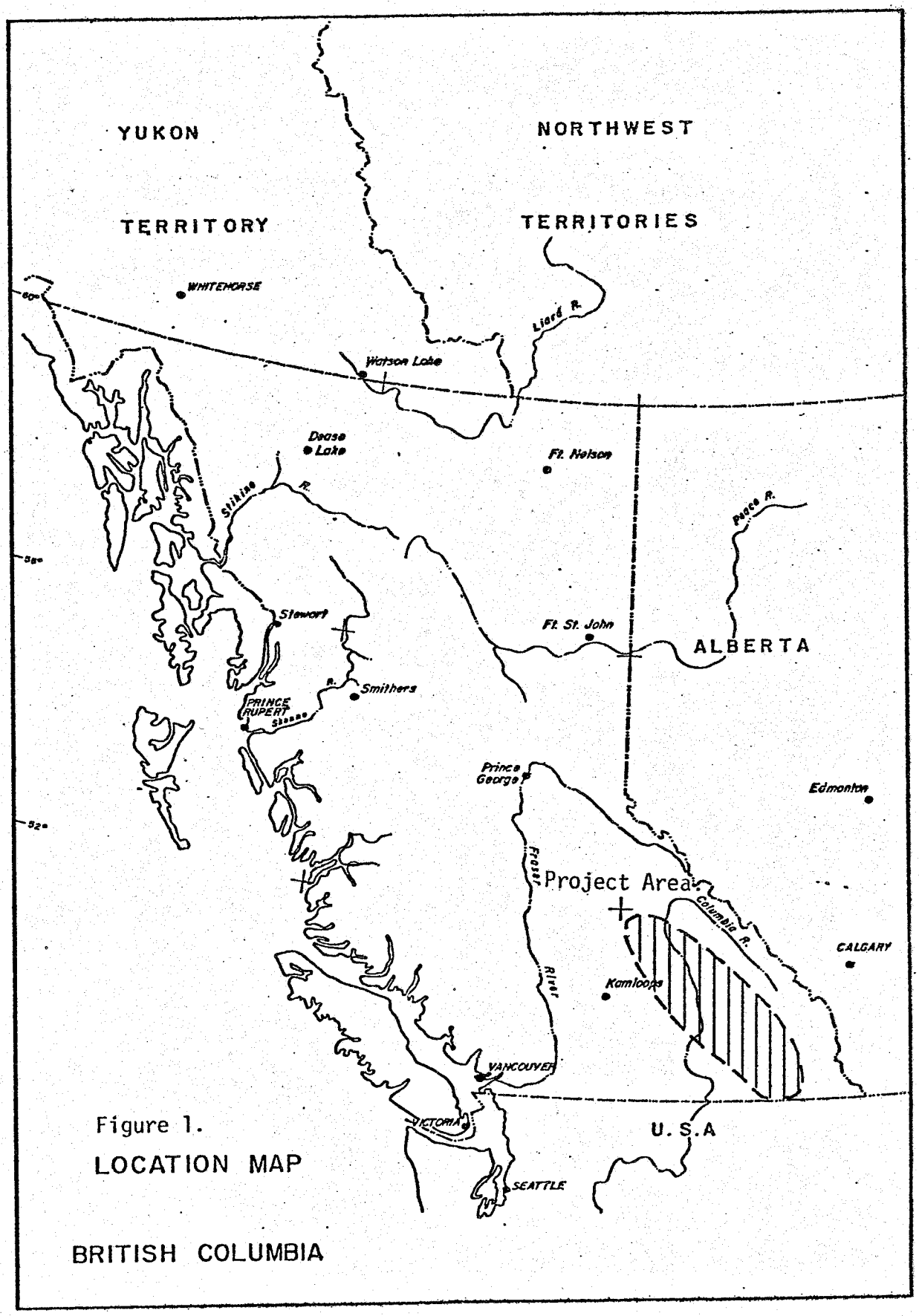


Figure 1.
LOCATION MAP

BRITISH COLUMBIA

II GENERAL GEOLOGY

Much has been written about the complex geology of the southeastern Canadian Cordillera and about its long mining history. R.L. Brown's 1981, "Southern Cordillera Cross-Section - Cranbrook to Kamloops" is particularly valuable in providing an overview of geology, and in addressing the current problems and 'state of the art' concepts which are fundamental revisions of previous geological interpretations; the references listed in this paper are a good source to published geological data on the area.

The project area lies at the south end of the Omineca Crystalline Belt and extends from the U.S. border northward to Wells Gray Park. As shown in Figure 2, the most important tectonic elements in southeastern British Columbia are the Rocky Mountains, the Selkirk Allochthon (comprising a combination of the Purcell Anticlinorium and the Kootenay Arc) and the Shuswap Metamorphic Complex which includes in part the Monashee Complex. Current interpretations suggest that beginning in late Jurassic, the Selkirk Allochthon was transported eastward more than 80 km over the top of the Monashee Complex. Three faults played a fundamental role in this transport; from oldest to youngest they are the Standfast Creek Fault, the Columbia River Fault (and its correlated extension - the Monashee Decollement) and the proposed youngest Sole Thrust Fault, active during the Kootenay Orogeny (Figure 2). The latter is the same age as, and an extension of, the Rocky Mountain Trench which traces the Purcell Fault.

The Purcell Anticlinorium consists of a core of Helikian and Haydrinian subtidal and locally, deep

basin sediments including turbidites, collectively known as the Purcell Supergroup; the core is flanked by Haydrinian, dominantly clastic sediments (quartzite and argillite) and minor mafic volcanics of the Windermere Supergroup. The folding style in the Purcell Anticlinorium is broad and open, cut by north and northeast trending faults.

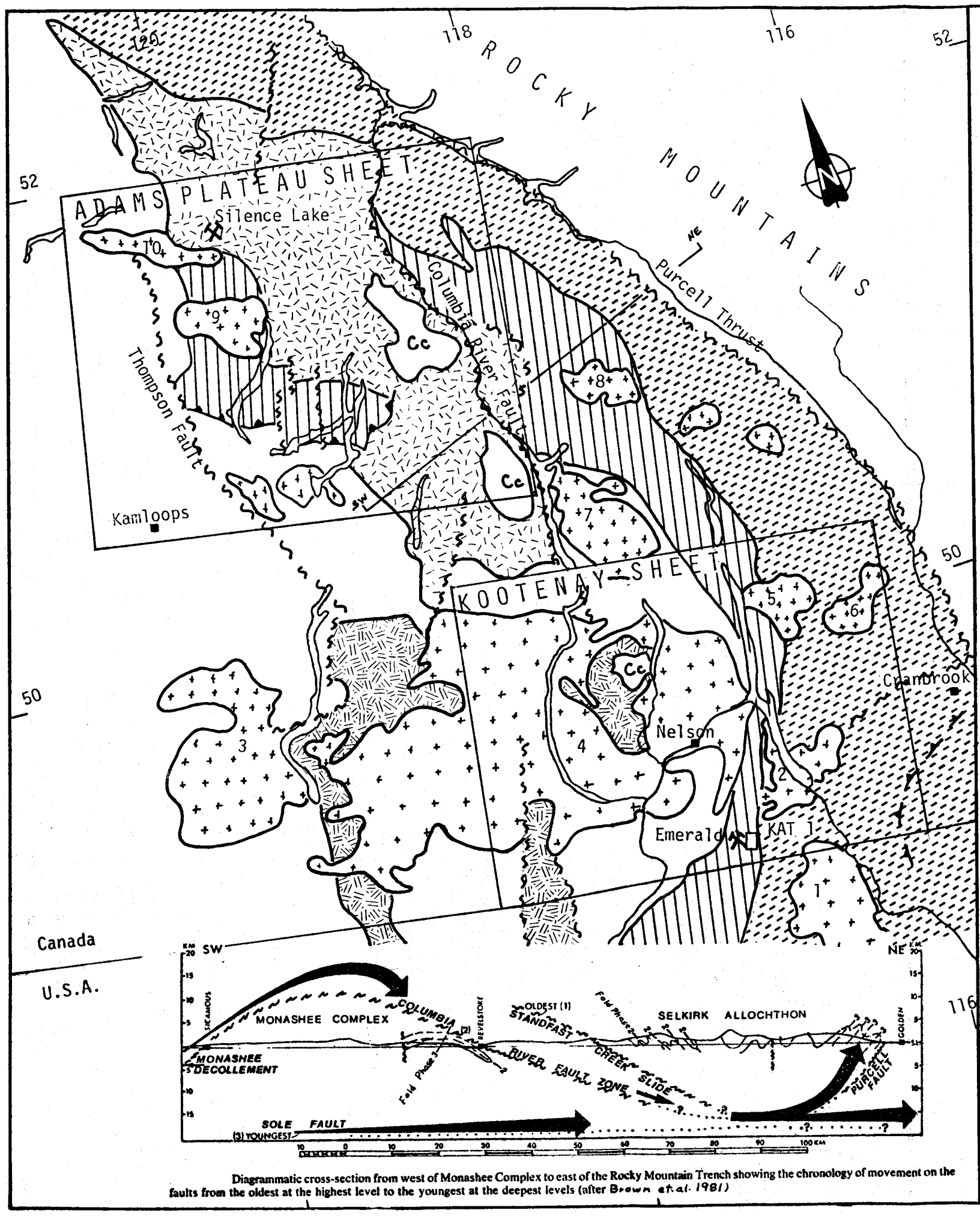
The term Kootenay Arc refers to a 400 km long, arcuate, eastward convex belt of dominantly sedimentary rocks which range in age from Lower Cambrian to mid-Jurassic. This belt consists of a thick succession of complexly deformed and regionally metamorphosed sedimentary and minor volcanic rocks which become progressively younger to the west. The Kootenay Arc lies conformably upon the Purcell Anticlinorium on the east and is separated from the adjacent Monashee Complex on the west by the eastward-dipping Columbia River Fault. The Lower Cambrian Badshot and Reeves Limestone members are regional markers. To the north, the Kootenay Arc terminates against the Shuswap Metamorphic Complex, although current lithologic revisions suggest its continuation northwest beyond the Shuswap Complex to the North Thompson Fault. The eastern or older Kootenay Arc stratigraphy, of lower Paleozoic age provides the greatest exploration attraction for tungsten mineralization.

The term Shuswap Metamorphic Complex has in the past been and still is loosely used, often synonymously with the term Monashee Complex. The Shuswap Metamorphic Complex generally includes high-grade metamorphic rocks of unknown age. More restricted use of the term Monashee Complex has recently been suggested for the southern, older metamorphic rocks which are

structurally isolated from the much larger Shuswap Metamorphic Complex.

The Monashee Complex is now interpreted to represent accreted terrane, exotic to the North American Craton and, transported eastward along the Sole Thrust Fault. The Monashee Complex consists of several orthogneiss and paragneiss core complexes with consistent ages of more than 2200 m.y. surrounded and overlain by mantling zones of heterogeneous schists, quartzite and marble. Such core complexes, as elongate gneiss domes occur at intervals along a belt which extends south as far as Arizona. Polyphase deformation consisting of four recognized phases, is present in the Monashee.

The younger Shuswap Metamorphic Complex consists of probable North American continent-derived, younger rocks, most of which have been metamorphosed. At least four tectonic slices of this Complex, caught up in the Selkirk Allochthon, have been mapped in the region north of Upper Arrow Lake. The Shuswap Terrane is extensive, larger than the Monashee, and extends northwest as far as Quesnel Lake. Relatively little significant work has been completed to define this metamorphic complex, particularly further north where poor exposure has hampered detailed mapping. Some Monashee Complex rocks are included in Shuswap Complex as shown by older maps, because the definition of Monashee Complex is new. Lithologies such as quartz-mica schist (often with garnet), quartzite, marble, amphibolite, granitoid gneiss and paragneiss are present with complex patterns of penetrative deformation superimposed on early tight recumbent folds in rocks that generally are in the sillimanite zone of regional metamorphism. Age is estimated to range from late Proterozoic to Paleozoic.



Diagrammatic cross-section from west of Monashee Complex to east of the Rocky Mountain Trench showing the chronology of movement on the faults from the oldest at the highest level to the youngest at the deepest levels (after Brown et al. 1981)

Batholiths

1. Kiasku
2. Bayonne
3. Okanagan
4. Valhalla-Nelson
5. Fry Creek
6. White Creek
7. Kuskanax
8. Battlerange
9. Baldy
10. Raft

Selkirk Allochthon

Purcell Anticlinorium

Lower Kootenay Arc

Shuswap Metamorphic Complex

Monashee Complex

Cc Core Complex

Kidd Creek Mines Ltd.

Geological Terranes Of South-eastern B. C.

WORK BY	DRAWN BY	DATE

Scale 1 : 2,000,000

Figure: 2

The Complex's relationship to bordering terrane, particularly the western margin, is poorly defined.

Recent geological work in the Adams Plateau area of the Shuswap Metamorphic Complex has resulted in interesting developments. Tentative tectonic and stratigraphic correlations of this region with the Kootenay Arc to the southeast have significant exploration implications. Revision of the Eagle Bay Formation is currently underway, based on some radiometric and paleontologic dating and re-interpretation of rock assemblages. The Eagle Bay Formation was previously mapped as a broad heterogeneous lithologic group of Late Devonian to Mississippian age. Present definition of this Formation includes a broad assemblage of mafic and felsic metavolcanic rocks and numerous beds and lenses of carbonate rocks, including the Tshinakin Limestone. By inferring an unconformity within the Eagle Bay Formation, part of the Eagle Bay has tentatively been correlated with the Cambro-Ordovician Lardeau Group of the Kootenay Arc and the upper part of Eagle Bay, with the Upper Mississippian to Pennsylvanian Milford Group. This suggests that the Tshinakin Limestone at the base of the Eagle Bay Formation could correlate with Lower Cambrian Badshot Limestone and Reeves Limestone which are important for tungsten in the Kootenay Arc. Correlation of lower Eagle Bay with Lardeau Group rocks, if valid, also has important massive sulphide exploration implications. For example, the much prospected Sicamous Formation/Eagle Bay contact in the Scotch Creek area might be stratigraphically equivalent to the Kaslo/Milford Group contact in the Kootenay region.

Large syn-orogenic and post-orogenic granitic batholiths with satellitic stocks ranging in age from

Middle Jurassic to Cretaceous intrude all of the terranes; the largest of these batholiths are the Valhalla-Nelson and the Kuskanax. Several pre-tectonic Devonian plutons are also present. Small, generally quartz-deficient Tertiary stocks known as the Coryell intrusions are present in the southern part of the Kootenay Arc and to the west. Margins of the Cretaceous and Tertiary intrusions, empirically show the greatest potential for tungsten skarns.

III TARGETS SOUGHT

Skarn tungsten deposits, more specifically classified as exoskarn calcic deposits (Einaudi, et al., 1981) were the main exploration objectives of the project. Such deposits are found in continental margin tectonic settings where volcanic rocks co-eval to intrusions are largley absent. Host rocks are generally lower Paleozoic limestone which is commonly carbonaceous and interbedded with black argillite. These tungsten bearing skarns are situated near Cretaceous porphyritic granitic plutons or batholiths ranging in composition from quartz monzonite to quartz diorite. The tungsten mineralization is, scheelite, often accompanied by pyrrhotite, chalcopyrite, minor molybdenite and native bismuth. Substantial quantities of semi-massive pyrrhotite may be present; the Cantung Mine was originally drilled as a copper prospect because of massive pyrrhotite-chalcopyrite mineralization. Skarn mineralogy is usually complex; skarn minerals characteristic of these deposits include hedenbergitic pyroxene, grossular and andradite garnets, idocrase and wollastinite. Zonation of skarn mineralogy is often present, generally with Fe-rich minerals and scheelite nearest the igneous contact, Fe-depleted and Ca-rich minerals further away from the contact. Late skarn mineral formation as an imprinting alteration, yields spessartine and almandine garnets, and pyroxene compositions which are different from the initial or early hedenbergitic pyroxene. Retrograde alteration often occurs, to form biotite, hornblende, epidote and calcite. Tonnages from known deposits range widely, from 35,000 tonnes of 1.6% WO_3 at Dimac near Clearwater, B.C. to more than 90,000,000 tonnes of 0.94% WO_3 at Mactung

in the Northwest Territories. The latter is the world's largest known tungsten skarn deposit.

"Stratabound" tungsten deposits are not known in western Canada, probably because they are difficult to recognize and have only recently been considered as exploration targets. Such deposits were a secondary exploration objective. They are associated with a sequence of rocks composed of mafic and volcanic flows and volcaniclastics, Fe-bearing dolomitic carbonates, locally grey and black phyllite, quartzose phyllite and quartzite lenses, all of early Paleozoic age. Any one of these lithologies may host scheelite mineralization in zones up to several metres wide; the zones are usually underlain by a thick succession of submarine tholeiitic basalt. Spatial association of scheelite mineralization with basalts implies a fundamental relationship between mineralization and volcanic hydrothermal activity. Lateral persistence of mineralization over great distances (sometimes a few km) and sharp stratabound contacts are characteristic features. Scheelite may be accompanied by accesssory pyrrhotite, pyrite, native Au, Ag and Bi. Some deposits contain a diverse array of geochemically enriched elements including Cu, Pb, Zn, As, Sb, Be, Sn, Ni, Co, Cd, Hg and rare earths. At Kleinarltal, Austria, fine synsedimentary fabrics are exhibited by the scheelite mineralization which overlies a thick pile of submarine mafic volcanic rock. At Felbertal, Austria, persuasive evidence argues strongly in favour of submarine volcanic hydrothermal scheelite deposition. Here, the main ore bed is up to 25 metres thick in what has been reported as one of the large scheelite deposits of the world.

IV AREA SELECTION

The Kootenay Arc, adjacent terranes and the north projection of the Kootenay Arc through the Shuswap Metamorphic Complex were targeted for exploration of Cordilleran skarn and Austrian "stratabound" tungsten deposits.

In the Canadian Cordillera, tungsten skarn mines and significant deposits and prospects display a strong association with lower Paleozoic (Cambrian) carbonate- black shale/argillite sequences which lie at or near the margin of Cretaceous granitic stocks. Such deposits in the Yukon and Northwest Territories include the well known Mactung, Clea, Lened and Cantung; in British Columbia they include the Emerald- Feeney-Dodger Mine (now abandoned), Downie Creek and possibly Dimac.

The stratigraphy of the Kootenay Arc in southeastern British Columbia is relatively well known. Favourable stratigraphy such as the Lower Cambrian carbonate units along the east margin of the Kootenay Arc is readily apparent from published maps. The Reeves Limestone hosts the old Emerald Mine and the equivalent Badshot Limestone contains several tungsten occurrences. However, given current understanding of Adam's Plateau geology (Eagle Bay Formation and the Shuswap Metamorphic Complex), exploration for skarn tungsten targets in this region had to address all mapped and possibly unmapped regions of carbonate/argillite stratigraphy near the contact of batholiths or satellitic stocks. Ideally, a total geochemical coverage of the Adam's Plateau region should be carried out. Such systematic coverage would have the added advantage of indicating presence of

"stratabound" tungsten mineralization through the use of pathfinder elements.

Previous massive sulphide exploration in 1972 by Texasgulf in the Adam's Plateau region resulted in the discovery of scheelite in high-grade metamorphic rock in the Spahats Creek area. This find suggested the possible presence of "stratabound" tungsten in this region.

Tungsten results from the joint Federal-Provincial Uranium Reconnaissance Program, published as National Geochemical Reconnaissance maps were used in places to guide sampling emphasis.

V REGIONAL GEOCHEMICAL SURVEY

1. General Statement

Tungsten minerals have a high density and are highly resistant to chemical weathering. Thus, panning of stream material is one of the most effective methods for tungsten exploration because panning takes advantage of the fact that tungsten minerals are mechanically dispersed. Considerable study on secondary dispersion of heavy minerals has shown that minerals such as scheelite, wolframite and cassiterite produce long downstream disperions patterns (often tens of kilometres). Thus, a heavy reliance was made on the drainage basin sampling streams by collecting panned concentrates.

Analytical results of the samples indicated numerous tungsten anomalous drainages, suggesting that the method used was highly sensitive in detecting the presence of tungsten mineralization. Sources to these anomalies consist of scheelite-bearing skarn, sparse scheelite in calc-silicate gneiss bands, scheelite-quartz veinlets in Cretaceous granodiorite joints and in gabbroic Moyie Intrusions, and weak scheelite mineralization, accessory to base and precious metal veins.

2. Method Used

Sample teams consisting of two-man crews, used a combination of 4-wheel drive truck and walking to gain access to sample sites. Most stream valleys in south-eastern British Columbia are accessible by logging roads. In the interest of time, those streams without easy access were left unsampled in order to maintain rapid coverage of the terrain.

Sampling equipment consisted of spade, coarse screen and fibreglass batae pans. Active, high-energy

sites were chosen for sampling within stream beds. On larger streams (more than 15 metres wide) several collection sites were used to obtain material representing a composite sample. Flowsheets showing sample collection, preparation and analysis are given on Figures 3 and 4. The coarse screen rejected pebbles greater than 1 cm to give more uniform pan volumes. The batae pan was chosen because panning with it has been shown to require less operational expertise, thus diminishing inconsistencies due to individual panning habits. Two batae pans were systematically filled with coarse-screened stream gravel to an upper mark placed on the pan and this material was then systematically panned down to another lower mark also carefully placed on each pan. Following this, the remaining sample was scrupulously transferred to standard kraft bags. The lower mark was empirically chosen so that the final sample material had not yet lost any of the black sands (magnetite). This was done to cut down on the inadvertent panning loss of fine scheelite from the sample, and to assure consistent sample quantity from stream to stream for better geochemical comparison. The final panned concentrate sample collected at each stream occupies about 135 cubic centimetres and represents a calculated concentration factor of 27 times the initial sample volume; the initial sample (two batae pans) averaged 7.6 kg. A conventional stream sediment sample for silt analysis was also routinely collected at the same site. Site data were recorded on the Kidd Creek geochemical data sheets. Careful inspection was made for the presence of skarn boulders and rusty stream float; where present, such float was checked for visible mineralization. The major lithologies represented in stream float were noted. Average time per sample site

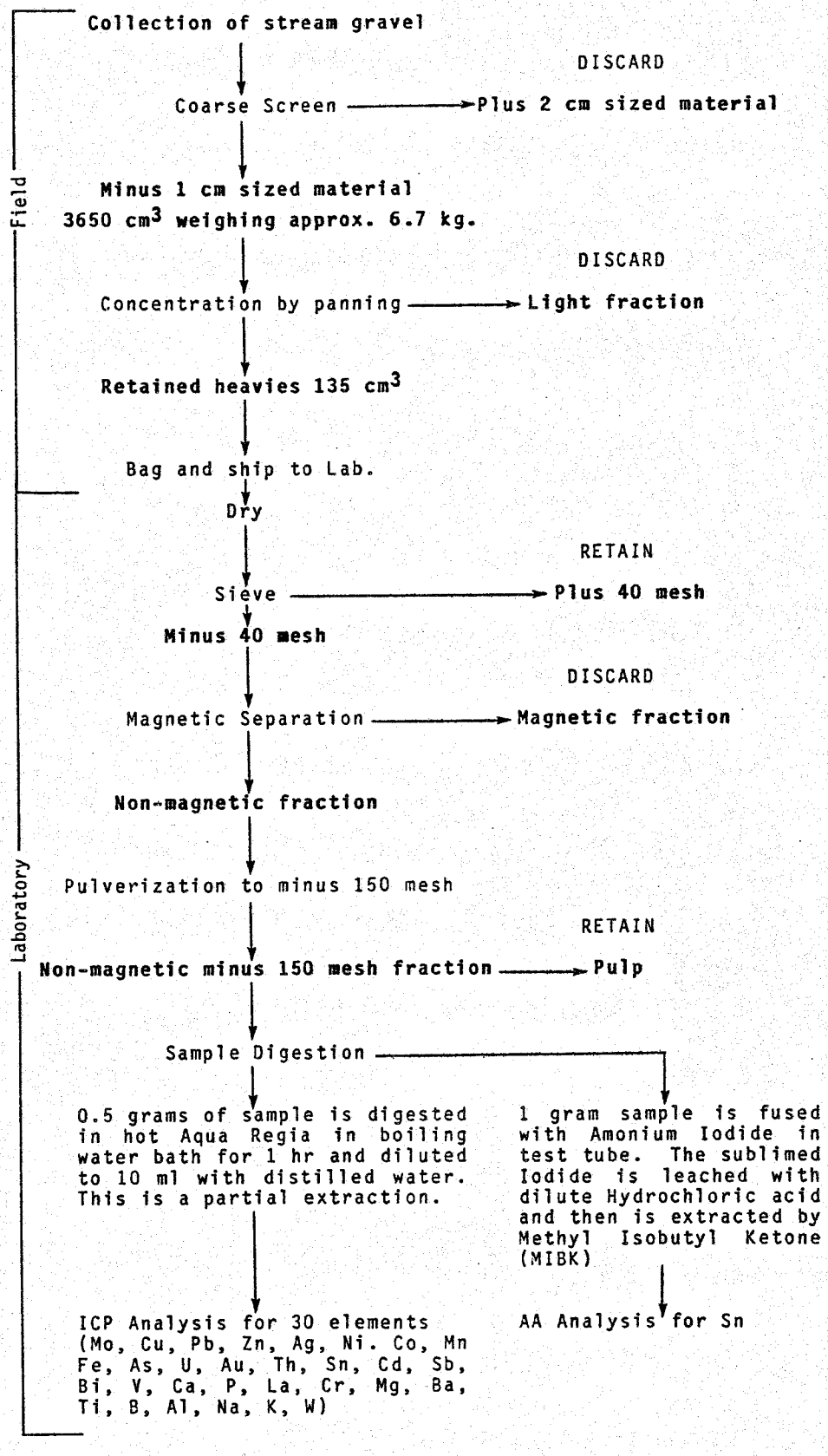


FIGURE 3 FLOWSHEET FOR PANNED CONCENTRATE SAMPLES

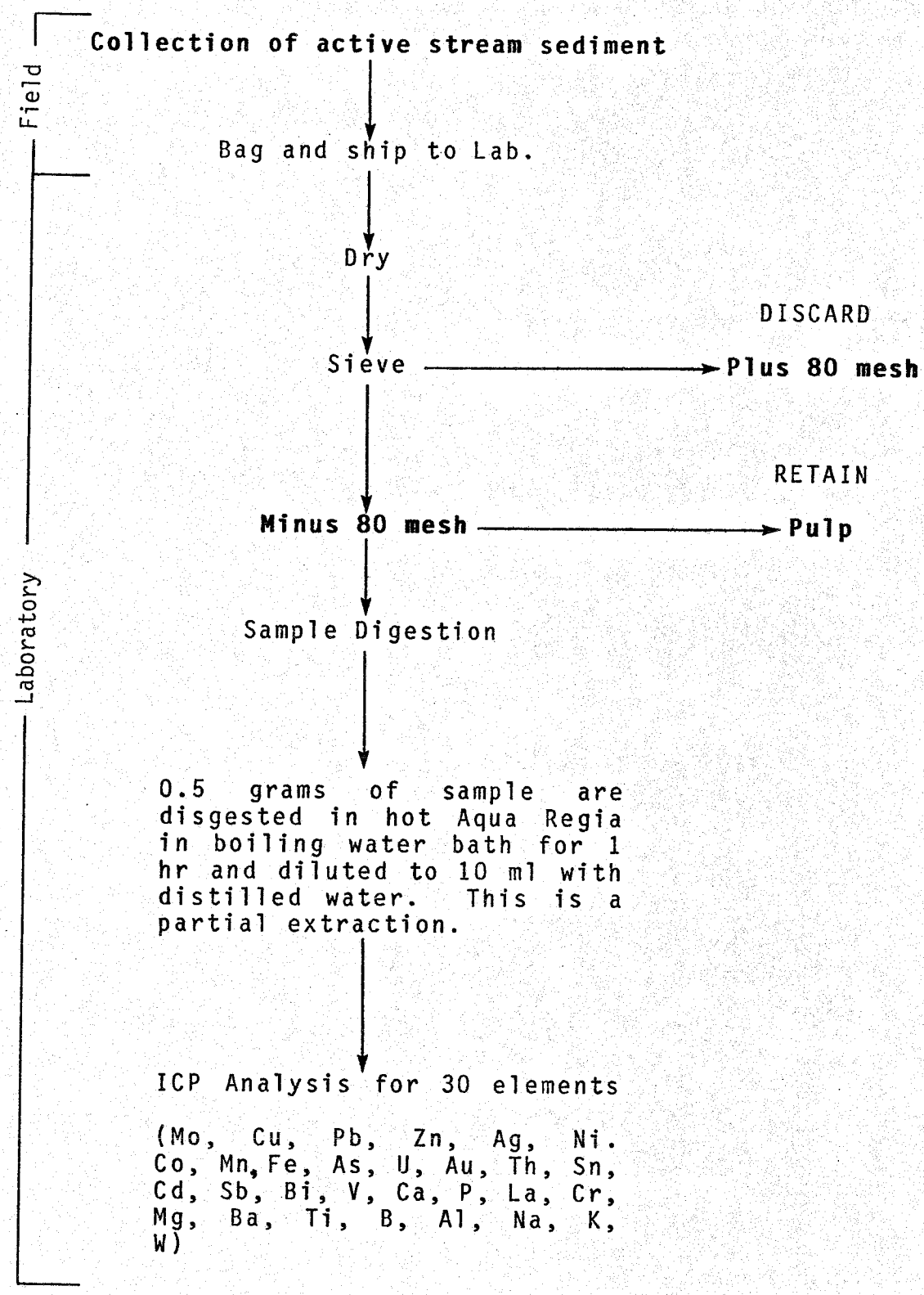


FIGURE 4 FLOWSHEET FOR STREAM SILT SAMPLES

(not including access time) was 12 to 15 minutes, although frequently, difficulty in obtaining sufficient sample material especially from small, steeply profiled creeks could increase the collection time to 30 minutes. On a productive day about 15 sites could be sampled.

A convention in numbering sample types was adopted to provide uniformity and ease in use of analytical data; odd numbers were used for panned concentrate samples and even numbers for stream silt samples and occasional soil or rock chip samples. All samples were plotted daily on a flat file 1:50,000 NTS folio. Approximately 2000 samples were collected of which half are panned concentrate samples and half are stream silt samples. Sample coverage was controlled more by accessibility to stream sites and drainage basins than by ideal sample density. In general, sampling of each 3 to 5 kilometre drainage basin was attempted.

3. Analysis and Data Base

Laboratory preparation of the panned concentrate sample included drying, minus 10 mesh sieving, magnetic separation, pulverization of the non-magnetic fraction followed by analysis. Flow charts illustrating sample treatment are given on Figures 3 and 4. The ICP 30 element analysis was chosen because it is cost effective and generally has a better detection limit for tungsten (3 ppm) than other types of analysis. AA analysis was used for Sn. Overall, average analytical cost per sample was about $8.75.

Some comparative analyses for tungsten were run by colorimetric for an initial batch of samples with W content in the range 3 to 420 ppm W; the correlation between colorimetric and ICP results was good.

Approximately 60,000 analyses were performed and analytical results are given in Tables III and IV of Appendix A. Location of anomalous panned concentrate samples with corresponding W, Sn and Au values are shown in Figures 5 and 6; anomalous stream silt samples with corresponding Cu, Mo, Ag, Pb and Zn values are shown on Figures 7 and 8. All sample locations with sample codes are plotted on Figures 13 and 14. These sample codes correspond to analytical results in Appendix A.

Visual inspection of sample results was used in determining anomaly thresholds. Of the 30 elements analyised, only W, Sn and Au values of panned concentrate samples and Cu, Mo, Ag, Pb, Zn values of stream silt samples are considered in this report. Because of the data's sheer volume, most of the remainder of the analyses were only given a casual glance. The following threshold values were used to determine anomalies:

panned concentrate	- more than 10 ppm W
	- more than 10 ppm Sn
	- more than 50 ppb Au (for AA analysis, the ICP detection limit for Au is 3 ppm)
stream silt	- more than 10 ppm Mo
	- more than 100 ppm Cu
	- more than 0.8 ppm Ag
	- more than 75 ppm Pb
	- more than 300 ppm Zn

Although not as rigorous as statistical derivation of threshold values, this crude method was judged to be adequate in evaluation of the analytical results given the diversity of geological settings. In future, serious consideration must be given to digitizing sample locations as well as computer storage of analytical results. The

benefits are, ease of statistical data manipulation for threshold determination, rapid evaluation of results, and the ability to utilize voluminous analytical data with greater ease. Computer storage of geochemical data will provide a valuable, expanding data base for future use.

Anomalous Au samples may not be detected by ICP. With one exception, a limited comparison between ICP and AA Au analysis (Table V in Appendix B) indicates that generally, ICP Au values above the detection limit are genuinely anomalous.

Because of the high detection limit for ICP Au analysis (3 ppm) and because the panned concentrate samples have already been collected and prepared (non-magnetic fraction which has been pulverized), all such samples from this project should be re-analysed for Au by AA, in order to increase the useful information from this project. The cost of such analysis is estimated to be less than $4,000.

4. Results

The anomalous samples together with values, are plotted on Figures 5, 6, 7 and 8, which are generalized geological base maps at a scale of 1:250,000. Interpretation of source areas to these samples is shown on the same figures. Each anomaly has been numbered; the prefix P designates panned concentrate anomalies shown on Figures 5 and 6, and the prefix S designates stream silt anomalies shown on Figures 7 and 8. Descriptions of these anomalies have been listed in accompanying Tables I and II at the end of this section. Each anomaly has been assigned a priority rating; A being highest and C being lowest. Of the 82 panned concentrate anomalies, 19 rate as A and should receive high priority in 1983 follow-up

work, 20 rate as B with lower priority follow-up, and the remainder are not recommended at this time for further work. Of the 29 stream silt anomalies, only 3 rate as B.

Some initial orientation sampling was attempted in the Kootenay region. The fact that the Emerald-Feeney- Dodger tungsten skarn (Emerald Mine now depleted) is situated near the mouth of a large stream and the fact that numerous Ag-Au and Ag-Pb-Zn showings and abandoned mines in the vicinity contain accessory scheelite, make this a less than ideal case study. Four small tributaries, a kilometre or more in length drain the region of tungsten skarn mineralization and contain 64, 135, 179, and 4200 ppm W. Nearby streams in the Sheep Creek mining camp contain values between 30 and 135 ppm W so that the entire camp in the Sheep Creek-Lost Creek region shows up as a large tungsten anomaly (Anomaly P-5 in Table I and Figure 5).

At the Dimac mine in the Adams Plateau region, a sample taken 2.5 kilometres downstream from the small operating pit contains 42 ppm W. No skarn float was observed at the sample site. Clearly, this is not a high order anomaly for this tungsten skarn deposit.

On the whole, tungsten downstream dispersion patterns are quite persistent averaging more than 5 kilometres, even in large streams. In many cases a downstream enhancement of W values is indicated by the results, often mainstream values are more than double the values of the tributary source input values. Eight specific cases of downstream enhancement have been noted in the comments of Table I.

Caution is therefore required in interpreting the significance of anomalous streams on the basis of W values alone. Where accessory scheelite is present with

Ag-Pb-Zn mineralization, as is the case in the Sheep Creek mining camp at Salmo, occasional high W values are accompanied by high Pb or Cu, Zn values in panned concentrate samples, indicating that galena, chalcopyrite or sphalerite have been collected (ie. mechanical secondary dispersion of mineralization is operative). In the case of anomalies P-47, P-49 and P-50, adjacent relatively low-order W anomalous streams reflect sparse scheelite mineralization in a metamorphic calc-silicate gneiss band within the Monashee Complex. In both cases a knowledge of mineralization type and bedrock geology can determine the significance of the W anomaly.

In evaluating the anomalous samples, consideration was given to the following criteria:

a. magnitude of the anomalous sample's metal content
b. supporting associated elements.
c. support by adjacent anomalous samples
d. size of drainage basin
e. underlying bedrock geology
f. reported presence of mineral occurrence
g. results of follow-up conducted in 1982.

The most important anomalies for follow-up are listed below:

Kootenay Region

P- 2	Toby-Topaz-Buckworth Creeks	82F/2
P- 6	Tillicum-Limpid Creeks	82F/3
P-21	Lockhart-LaFrance Creeks	82F/7, 10
P-23	Mt. Sherman-Mt Skelly	82F/7, 8
P-24	Upper Kianuko Creek	82F/8
P-34	Gray Creek	82F/10
P-37	Sherraden Creek	82F/10
P-38	Lasca Creek	82F/11
P-54	North Kootenay Lake	82F/15

Adams Plateau Region

P-60	Crowfoot Mtn	82/L14, 82M/3
P-61	Pisma Ck	82M/3
P-66	Gollen Ck	82M/5
P-68	North end of Adams Lake	82M/5, 6
P-70	Myoff Ck	82M/7
P-71	Upper Ratchford Ck	82M/7
P-72	Adams R, Wesley Ck to McConnel Ck	82M/11
P-76	Martin Ck	82M/12, 13
P-79	West Raft R	82 M/13
P-82	Finn Ck	82M/14

TABLE I PANNED CONCENTRATE ANOMALIES

1 #	2 P	Locality	NTS	3 Values (ppm)	Bedrock Geology	Source	Comment
P-1	B	Radio Tower	82F/2	35 W	Lower Purcell Aldridge quartzite in contact with Cretaceous Nelson granodiorite.	Unknown	Unmapped Mt Nelson limestone may extend into this drainage. Radio tower maintenance road access.
P-2	A	Toby-Topaz-Buckworth Cks	82F/2	10-140 W 19 Sn	Aldridge quartzite at southend of anomaly. North end mapped as faulted contact of Aldridge with Upper Purcell Dutch Ck and Mt Nelson Formations of argillite, limestone and quartzite. Nelson granodiorite contact.	Mostly unknown. Topaz, a Cu-Ni-Sn-Ag-Pb-Zn-Cu showing reported immediately west of Topaz Ck.	Should follow-up. Glover (1978) PhD thesis mapping would be helpful for geology in the area. Interesting downstream low-order Sn anomaly on Buckworth Ck. Most of W values generally of low-order but downstream dispersion enhanced by multiple Sn-W input to Buckworth Ck.
P-3	C	Bayonne Ck	82F/2	103 W	Mapped as Nelson granodiorite.	Old Bayonne Mine. Scheelite reported.	Past producer of Au-Ag-Pb-Zn. Pb-Zn-Ag geochemistry did not respond in silts, but W (9 ppm) shows high background. Should investigate quantity of W present at this deposit.
P-4	C	Upper Elmo Ck	82F/2	19 W	Mapped as Nelson granodiorite.	Unknown	Low-order anomaly on very short drainage.

Note:
1. # Denotes anomaly number as shown on Figure 5 and 6.
2. P Denotes assigned priority given to each anomaly (A is highest).
3. All Au values are given in ppb.

#	P	Locality	NTS	Values (ppm)	Bedrock Geology	Source	Comment
P-5	C	Sheep Ck Lost Ck	82F/3	20-4200 W 10-62 Sn local 47,000-64,000 Au	Lower Cambrian Laib Formation with Reeves-Badshot limestone member intruded by several small Nelson granite and granodiorite stocks.	Skarn tungsten deposit (Emerald-Feeney-Dodger) and scheelite associated with Ag-Au-Pb-Zn mines in the Sheep Ck camp. Numerous Ag-Au-P-Zn showings and small mines throughout this area.	Minor Sn indicated by geochemistry. Au in Waldie and Nugget Cks may be result of old mine polution. Area mostly staked. Downstream W dispersion enhancement noted from 32 to 135 ppm but partly due to input from multiple tributaries.
P-6	A	Tillicum-Limpid Cks	82F/3	15-27 W	Laib Formation intruded by numerous small Nelson granitic stocks.	Unknown. Mention of skarn with minor scheelite in literature.	Northeast of Reeves-MacDonald mine which is on same stratigraphy as Emerald-Feeney Dodger
P-7	B	Tributary to Hidden Ck	82F/3	20 W	Mapped as Nelson granodiorite except extreme headwaters where intrusive contact with Lower Ordovician Active Formation quartzite lies.	Unknown	Single sample weak anomaly. Possibility of unmapped limey units in contact with granodiorite.
P-8	C	Burnt Ck	82F/3	11 W	Syncline of Jurassic Hull Formation argillite overlying Rossland Formation andesite.	Unknown	Amax drilled Mo-W target 2 km north 1979/80.
P-9	B	Deer Ck	82E/8	16W	Nelson granodiorite and Permian Mt. Roberts greywacke, greenstone and limestone cut by Eocene Coryell syenite stocks.	Unknown	Single weak anomaly on large drainage.

#	P	Locality	NTS	Values (ppm)	Bedrock Geology	Source	Comment
P-10	C	Cayuse Ck	82F/5	16-843 W	Nelson granodiorite with large roof pendant of Mt Roberts Formation slate, limestone, argillite, quartzite and greenstone.	Greenstone float with minor galena and chalcopyrite. Scheelite noted in pans. Possibly quartz-scheelite veins in intrusion or development of weak contact skarn in Mt Roberts limestone.	No encouragement from follow-up Downstream W dispersion enrichment noted (114 to 843 ppm) over 5 km distance.
P-11	C	Grassy Ck	82F/6	12-17 W	Mapped as Nelson plutonics.	Unknown.	Low-order values on small drainage.
P-12	C	Ymir	82F/6	13-47 W	Jurassic Rossland Formation andesites overlain by Hall Formation. Argillite sequence is intruded by small stocks of Nelson granodiorite and granite.	Ymir Mo-W porphyry prospect lies within outlined anomaly. Arrow Tungsten skarn showing in headwaters of Stewart Ck.	Currently held by Selco Inc as optioned property. Arrow Tungsten skarn produces low-order anomaly of 16 to 20 ppm W.
P-13	C	Porcupine Ck	82F/6	12-87 W	Lower Ord. Active Formation quartzite and Cambrian dolomite of Laib Formation are intruded by Nelson granodiorite. 100 m wide limestone reported.	Jackpot, Howard, Elm Pb-Zn-Au-Ag showings. Elm contains scheelite with pyrite and pyrrhotite and fluorite.	Held by New Jersey Zinc. Good possibility of skarn development.
P-14	C	Ymir Ck	82F/6	123 W 46 Sn 6000 Au	Mapped as Nelson with fractured and altered zones.	Limited Au-Ag-Zn-Pb production Blackcock. Some skarn reported.	Possibly scheelite accessory to base metals although presence of tungsten in skarn possible. Some question as to sample location.

#	P	Locality	NTS	Values (ppm)	Bedrock Geology	Source	Comment
P-15	C	Hall Ck	82F/6	32 W	Sheared andesite of Jurassic Rossland Formation cut by Nelson granodiorite dyke.	Small Au-Ag past production. Unknown source but association with Au-Ag deposits suspected.	Downstream W dispersion enrichment noted from 32 to 49 ppm over 3 km.
P-16	C	Apex Ck	82F/6	42 W	Nelson underlies much of area. Some slate of Ymir Group host mineralized fissure veins and quartz veins.	Past, small Au-Ag-Pb-Zn producer - Hummingbird. Scheelite association with Pb-Zn and Au-Ag suspected.	Downstream dispersion of W fairly constant.
P-17	C	Cottonwood Ck	82F/6	30 W	Augite porphyries and sericite schists of Jurassic Rossland Formation are intruded by several monzonite dykes. Nelson??	Past Au-Ag-Cu-Pb-Zn production from Silver King and other nearby small deposits. Scheelite association is suspected.	Staked. Low W anomaly.
P-18	C	West Arm of Kootenay Lk	82F/6	36-180 W 9000 Au	Largely underlain by augite porphyries and andesite of Rossland Formation. Large intrusive masses of Nelson diorite and syenite.	Numerous past producers of Au-Ag-Pb-Zn-Cu. Several of signficance. The Venango contained significant quantities of scheelite and produced some W by-product. Scheelite in veins with base metals.	Four contiguous drainages are W-anomalous. Scheelite association with other producers and prospects considered highly unlikely.
P-19	C	Connor Ck	82F/6	15 W	Undifferentiated argillite, greywacke quartzite and minor pyroclastics.	Hungry Man Au-Ag-Cu-Pb-Zn showing lies at the head of this stream. Also contains rare earths. Minor development of skarn reported.	Weak anomaly

#	P	Locality	NTS	Values (ppm)	Bedrock Geology	Source	Comment
P-20	C	Drewry	82F/7	13-15 W	Nelson plutonics.	Possible R.R. contamination, by these sites being sampled downstream from bridge.	Pb-Zn ore noted on R.R. bed.
P-21	A	Lockhart-LaFrance Cks	82F/7, 10	16-69 W 56-65 Sn	Limestone members of Windermere Horsethief Ck Formation. Possible unmapped Nelson intrusions.	Unknown	Significant Sn-W anomaly. Sampling on LaF'ance Ck indicates a Sn-W source downstream from the Toby conglomerate/Mt. Nelson argillite sequence.
P-22	B	Jansen Ck	82F/7	31 W	Within the Bayonne Cretaceous batholith. Possible pendants of unmapped sediments in the drainage.	Unknown. Ag-Pb-Zn-Cd showing recorded in upper headwaters.	High Th values (623 ppm and 525 ppm) for this creek and nearby Twin Bays Creek.
P-23	A	Mt Shermon/ Mt. Skelly	82F/7, 8	13-227 W	Mostly underlain by coarse-grained granodiorite of the Cretaceous Bayonne batholith. Eastern portion of anomaly consists of laminated argillite and dolomite of upper Purcell Dutch Creek Formation and Creston Formation argillite near the intrusive contact.	Follow-up determined that in Sanca Ck area, W anomalies are caused by fine-grained scheelite-bearing quartz veinlets. In upper Skelly Ck, source to anomaly is unknown and could be caused by scheelite-bearing veins in porphyritic granodiorite. In Akokli Ck, low tungsten anomalies are caused by scheelite association with Au-bearing Pb-Zn-Ag-veins of the Valparaiso and Gold Basin showings which occur at the contact of the granodiorite stock.	W anomalies on Akokli and Sanca Creeks are relatiely weak (15 to 30 ppm W) and spatially associated with the margin of Bayonne batholith. The stronger W anomalies (100 to 200 ppm W) in upper Sanca and Skelly Creeks are underlain by granodiorite but deserve more prospecting, especially near batholith's southeast contact.

#	P	Locality	NTS	Values (ppm)	Bedrock Geology	Source	Comment
P-24	A	Upper Kianuko Ck	82F/8	67-177 W	Contact region northeast margin of Cretaceous Bayonne batholith. Limestone member of Kitchener Formation at contact.	Pale skarn noted along road to sample sites. Possibility of W-bearing skarn.	Two creeks' headwaters are highly W-anomalous. Pale skarn float noted. Needs detailed follow-up plus sampling of tributaries both sides for 10 km downstream. Road access to upper forks at anomalous sample sites.
P-25	B	Upper Goat R.	82F/8	20-32 W	Mapped as Purcell argillite and quartzite of Aldridge and Creston Formation overlain in faulted contact by quartzite and conglomerate of Lower Cambrian Cranbrook Form. Unmapped small intrusive stocks may be present.	Unknown.	Relatively weak W anomaly on large streams.
P-26	B	Hellroaring Ck	82F/9	12-17 W 21-45 Sn 2000-4000 Au	Aldridge quartzite in fault contact with Creston argillite.	Source to Sn and Au unknown.	Low W anomalies, moderate Sn values. Small unmapped intrusive stocks may be present. Low skarn potential in carbonate-poor sediments. Au analysis should be checked.
P-27	B	Ailsa Lake	82F/9	47 W	Aldridge quartzite overlain by Creston argillite. Small granodiorite stock mapped at Ailsa Lake.	Unknown source.	Skarn potential considered low in Creston argillite.
P-28	B	White Grouse Mtn.	82F/9	20 W	Argillite and quartzite, Mg-limestone of Dutch Ck and Kitchener Formations.	Unknown source. Possibly W accessory to Pb-Ag-Cu showing on west flank White Grouse Mtn.	Single weak W anomaly on main creek. More detailed drainage sampling to isolate anomaly.

#	P	Locality	NTS	Values (ppm)	Bedrock Geology	Source	Comment
P-29	C	Mount Evans	82F/9	11-12 W	Mapped as Aldridge quartzite.	Cu and Pb occurrences reported on northwest flank of Mt. Evans.	Low W values
P-30	C	St. Marys Lake (East)	82F/9	11 W		Mouth of Hellroaring Ck. Downstream Sn enrichment? Sn source unexplained.	Possibly sampling up main creek at 1 km intervals to verify Sn-W anomaly and check for additional sources by sampling lower tributaries to main creek.
P-31	C	St. Marys Lake (West)	82F/9	11 Sn		Mouth of Meachen Ck. Downstream Sn and W enrichment?	As above
P-32	C	Flatrock Ck area	82F/9	11 Sn	Mapped as Creston argillite, Kitchener limestone and argillite. Small stock unmapped intrusive stock likely.	Unknown	Low Sn values.
P-33	C	Snowcrest Mtn	82F/10	14 W	Mapped as argillite of Creston Formation. Possibility of small unmapped stocks.	Unknown	Low W values. Downstream enhancement of Sn and W values appear operative to 12 ppm Sn 24 ppm W. High background Sn in vicinity.
P-34	A	Gray Ck	82F/10	36 W	Small Nelson stock intrudes quartzite of Hamill Formation and argillaceous quartzite and limestone and Windermere Horsethief Creek Formation.	Unknown Skarn formation a good possibility.	Upstream sampling suggests a source related to intrusive stock contact.

#	P	Locality	NTS	Values (ppm)	Bedrock Geology	Source	Comment
P-35	C	Hooker Ck	82F/10	17 W 8 Sn 2000 Au	Mapped as Horsethief Ck Formation of quartzite and limestone.	Draining old Crown Grants	Low values of Sn, W. Weak downstream suggested. Au analysis needs confirmation.
P-36	B	Crawford Ck	82F/10, 15	37 W 55 Sn	Mapped as Horsethief Ck Formation. Aplite dykes known at Rose Pass.	Geochemically high Mo-Sn-W values known in aplite dykes of Rose Pass. Humbolt Ag-Pb-Zn production with presence of Sn recorded.	Old Amax Mo target. Low priority follow-up recommended. Downstream W-Sn enhancement is indicated, from 37 to 182 ppm W and from 55 to 354 ppm Sn over 5 km
P-37	A	Sherraden Ck	82F/10	48 W	Lardeau undifferentiated sediments of Cambrian age.	Unknown source	Needs prospecting.
P-38	A	Lasca Ck	82F/11	90 W	Nelson plutonic underlies drainage basin.	Unknown source.	Strong anomaly warrants follow-up. Access by boat to mouth of stream.
P-39	C	Coffee Ck	82F/11	12 W	Nelson porphyritic granodiorite with small pendant of Ymir Group paragneiss mapped in extreme headwaters.	Olsen Ag-Pb-Zn-Au showing reported in upper part of creek. Possible scheelite accessory.	Minor Ag-Pb-Zn-Au production. Now Provincial park.
P-40	C	Goat Bluff	82F/11	13W	Predominantly Nelson granodiorite with small pendant of Ymir Group argillite and limestone.	Visible scheelite - sphalerite skarn was noted at the exposed showings.	Mineralization situated on very steep cliff-like exposures. Staked by Bill Koopman, Nelson B.C. Old Cominco Nancy claims of 1935. W persists at low values 10-11 ppm for 9 km downstream.

#	P	Locality	NTS	Values (ppm)	Bedrock Geology	Source	Comment
P-41	C	Kokanee Ck	82F/11	28 Sn	Nelson porphyritic granite.	Molly Gibson-Ag-Pb-Zn producer. Accessory Sn?	Situated in Provincial park.
P-42	C	Upper Lemon Ck	82F/11	59 W	Nelson porphyritic granodiorite.	Alpine Basin Ag-Pb-Zn-Au showings in 1 km long fissure vein. Possible scheelite accessory.	Anomaly represents downstream dispersion from Alpine Ck. Past Ag-Pb-Zn producer. Staked.
P-43	C	Crusader Ck	82 F/11	16 W	Nelson porphyritic granodiorite.	Small Au-Ag past producer and several Cu-Pb-Zn showings in headwater. Possible scheelite accessory.	Staked.
P-44	C	Chapleau Ck	82F/11	57 W	Nelson porphyritic granodiorite.	Chapleau, Meteor and Kilo were small producers. Accessory scheelite reported at Meteor.	Staked.
P-45	B	Monument Ck	82F/11	10-19 W	Nelson porphyritic granite and granodiorite with pendants of paragneiss and Rossland andesite.	Unknown. Several Crown Grant on upper Monument Ck.	Low W anomaly on large stream. Adjacent steam to west 10 ppm W. 80 ppm W above junction with Chapleau Ck downstream enhancement? Should sample two large trib. N. side Lemon Ck for possible source to 80 ppm W value.
P-46	B	Trozza Ck	82F/11	17-77 W	Nelson porphyritic granite.	Unknown.	Should prospect for skarn presence. Unmapped limestone pendants could be present.

#	P	Locality	NTS	Values (ppm)	Bedrock Geology	Source	Comment
P-47	C	Vallican	82F/12	13-14 W	Augen gneiss, hornblende-biotite-feldspar gneiss, paragneisses and bands of calc-silicate gneisses.	Calc-silicate gneisses contain small quantities of scheelite.	Follow-up traced scheelite to calc-silicate gneisses.
P-48	B	Hoder Ck Mouth	82F/12	121 W	As above.	Unknown	Not supported by upstream anomalies. Should be resampled and if confirmed would indicate local source near mouth of creek which would then need to be thoroughly prospected.
P-49	C	Koch Ck	82F/12, 13	13 W	As above.	As at Vallican.	
P-50	C	Upper Hoder Ck	82F/13	16-45 W	As above.	Calc-silicate gneisses.	This region followed up and demonstrated presence of scheelite in small quantities in calc silicate gneisses.
P-51	C	Springer Ck	82F/14	12-43 W	Nelson granodiorite and granite with pendants of paragneiss.	Ag-Pb-Zn producers Lakeview, Dayton, Ottawa, Port Hope. Mineralization mostly in shear structures within granite. Scheelite accessory to Ag-Pb-Zn mineralization?	Slocan Mining Camp with past Ag-Pb production. Mostly staked.

#	P	Locality	NTS	Values (ppm)	Bedrock Geology	Source	Comment
P-52	C	Enterprise Ck	82F/14	12 W	Nelson granite.	Westmont/Eastmont Ag-Pb-Zn-Au past producer. Mineralized quartz veins and lenses along structure. Scheelite accesory to mineralization?	Mostly staked.
P-53	C	Alwyn Ck	82F/14	68 W	Ymir Group slate and argillite pendant in Nelson porphyrite quartz diorite.	Ag-Pb-Zn occurrences, some minor Ag production. Scheelite accessory?	Rio Tinto/BP Canada exploring Cu-Au breccia pipe type mineralization for bulk tonnage Au.
P-54	A	N. Kootenay Lk	82F/15	20-500 W	Lower Cambrian stratigraphy consisting of Hamill quartzite, Badshot limestone (equivalent to Reeve's limestone at the Emerald-Dodger Mine) and Lardeau slates and argillite trends north. Recently mapped small intrusive stocks cut Badshot limestone. This area lies between two large granitic batholiths: the Fry Creek batholith to the east and the Nelson batholith to the west.	Scheelite-bearing skarn float were found in Powder Ck. Some boulders contained pyrrhotite, chalcopyrite, minor molybdenite and scheelite.	No doubt more unmapped intrusive stocks are present in this region. The highly W-anomalous which were taken from seven contiguous drainages represent about 20 km of strike length of tungsten-favourable Kootenay Arc stratigraphy which is intruded by Cretaceous stock. The terrain is extremely rugged with very thick vegetation in places and not altogether accessible. More prospecting is required.
P-55	C	Upper St. Marys R.	82F/15	462 W 3000 Au Bi 69 Th 119 La 195	Headwaters and source area to the anomaly lie mainly within the Southern Fry Creek granite batholith which forms a narrow (6 km wide) apophysis in Windermere sediments consisting mainly of quartzite and argillite.	Source unknown. Discrete phase of batholith enriched in rare-earths, U-W-Sn-Bi? Could also be batholith contact with sediments.	Downstream samples contain significant values of W-Sn-Au and maintain high values of elements La-Th-U. The Au analysis is suspect. Source appears to lie within Purcell Wilderness Conservancy.

#	P	Locality	NTS	Values (ppm)	Bedrock Geology	Source	Comment
P-56	B	Upper Dewar Ck	82F/16	20-26 W 54 Sn 2000 Au 103-283 La 128 As	Lower Purcell Creston Formation and Kitchener Formation consisting of argillaceous quartzite, argillite and some limestone are intruded by granite and of granodiorite of the White Creek batholith.	Scheelite-bearing quartz veins in granodiorite and trace amount of scheelite in an epidote-calcite skarn band.	Anomalies appear on the east side of the valley to be closely related to granodiorite contact. No significant W grades were found in follow-up. Also, Purcell Wilderness Conservancy covers much of the best area. The 79 W 54 Sn anomaly on Calamity Ck on the west side of Dewar Ck valley should be followed up. The Au analysis is suspect.
P-57	C	Mt. Patrick (Hilo)	82F/16	32 W 258 Sn	Aldridge quartzite intruded by metadjorite of Moyie intrusions.	Veins and replacement of structural shear zones by pyrrhotite, chalcopyrite, galena, sphalerite and scheelite.	Old Cominco and Texasgulf prospect. Anomalous Sn content which appears to persist 6 km downstream, whereas W values appear to become stronger reaching 552 ppm immediately above confluence with White Ck. Downstream W enhancement.
P-58	C	Upper White Ck	82F/16	400-645 W 12-66 Sn 52-78 Bi 159-849 La 304-414 Th	Leucocratic quartz monzonite and granodiorite of White Creek batholith intruding Aldridge and Creston Formation quartzite and argillite and calcareous argillite and limestone of the Kitchener Formation. This latter unit displays marked contact metamorphic features.	Mainly from scheelite-bearing quartz veins controlled by quartz monzonite jointing. Subordinate scheelite comes from sparse quantities in hornblende epidote skarn and calc-silicate bands at the batholith-Kitchener Formation contact.	Follow-up showed scheelite to be too widely dispersed and indicated little likelihood of any economic concentrations.

#	P	Locality	NTS	Values (ppm)	Bedrock Geology	Source	Comment
P-59	C	Fry Ck	82K/2	17W	Granite and granodiorite of the Fry Ck batholith	Unknown.	Within Fry Ck Canyon Recreation Area and Purcell Wilderness Conservancy.
P-60	A	Crowfoot Mtn	82L/14 82M/3	11-198W 7-14 Sn	Greenstone and chloritic phyllite within interbedded black argillite and shale of the Cambrian to Ordovician Eagle Bay Formation. No mapped granitic rocks in vicinity.	Unknown. Large drainage basins. Presence of limy units could be favourable to skarn formation of unmapped intrusives occur. Ag-Pb occurrence reported in upper Onyx Ck and Cu-Ag-Pb-Zn occurrence reported on northeast flank of Crowfoot Mtn.	Large anomalous drainage basin. Strong anomaly on Ross Ck. Should follow-up by detailed sampling with emphasis on Ross Ck. Logging road access quite good.
P-61	A	Pisma Ck	82M/3	42 W 46 Sn	Tshinakin Limestone overlain by Eagle Bay greenstone, chloritic phyllite, black argillite and shale. Scotch Ck pluton is Cretaceous and post tectonic and lies 3 km south.	Unknown.	
P-62	B	Lichen Mtn	83M/3	24 W	Proterozoic quartz mica schist, augen gneisses and undivided metamorphic rocks with siliceous marble units of Shuswap Metamorphic Complex. Mount Fowler batholith granite of late Devonian age mapped in vicinity.	Unknown.	

#	P	Locality	NTS	Values (ppm)	Bedrock Geology	Source	Comment
P-63	B	Lichen Mtn	82M/3	15W	As P-62.	Unknown.	Weak W anomaly.
P-64	B	Upper Scotch Ck	82M/3	10-12 W	Granodiorite gneiss, and undivided Shuswap Metamorphic Complex. Late Devonian foliated granite similar to Mt. Fowler batholith mapped in region. Small stock of Cretaceous granite mapped on nearby Pukeashun Mtn.	Unknown.	Weak W anomaly on two adjacent drainages. Two samples taken downstream on Scotch Ck appear to be dispersion from this anomaly indicating enhancement to 95 ppm over 3 km.
P-65	B	Blueberry Ck	82M/3	14-18 W	As above.	Unknown	Weak W anomalies
P-66	A	Gollen Ck	82M/5	20-490 Au	Sericitic phyllite and quartzite with northeast trending crystalline limestone band all of Cambrian/Ordovician Eagle Bay Formation. Located near north margin of Cretaceous Baldy batholith quartz monzonite.	Cu-bearing calcite-dropside-garnet pyrrhotite skarn showing (Hilltop).	Results indicate absence of scheelite; appears to be a gold target 105 ppb Au in silt sample of another small tributary. Sample at mouth of Gollen Ck 6 km downstream contains 25,000 ppb Au (by ICP). All samples in the area should be re-run for Au by AA.
P-67	C	Fisher Ck	82M/5, 6	15-17 W	Mapped as Cretaceous quartz monzonite of Baldy batholith. Possibly several pendants of unmapped Shuswap Metamorphic Complex.	Unknown	Weak anomalies on two nearby creeks.
P-68	A	N. end Adams Lk	82M/5, 6	77 W	As above.	Unknown	Strong W anomaly. Good road access into upper part of drainage basin.

#	P	Locality	NTS	Values (ppm)	Bedrock Geology	Source	Comment
P-69	C	Humamilt Lk	82M/6	99 W	Foliated granodiorite and gneiss of Shuswap Metamorphic Complex. Possibly unmapped Cretaceous intrusives.	Rio showing with reported scheelite and chalcopyrite in skarn zone.	Low priority examination of prospect.
P-70	A	Myoff Ck	82M/7	15-77 W	Assorted high-grade schists and paragneiss. Several bands of quartzite and marble mapped in the anomaly area. Jurassic Long Ridge batholith 10 km west.	Unknown.	Follow-up required. Downstream enhancement of W anomaly appears operative. Powerline within 3 km.
P-71	A	Upper Ratchford Ck	82M/7	11-24 W	Similar to above. Large band of marble mapped on west side of Ratchford Ck.	Unknown.	Weaker W anomalies than P-70 but on larger drainage.
P-72	A	Adams R Wesley Ck to McConnell Ck	82M/11	12-86 W	Undivided granite gneiss, paragneiss containing marble and Shuswap Metamorphics. Cretaceous grantic stock mapped in upper headwaters to anomalous streams. (Baldy batholith satellite).	Unknown.	Large area of rusty soil noted in field sampling. Four anomalous streams.
P-73	B	Todd Ck	82M/11	18 W	Mapped as Baldy batholith satellitic stock near contact with Shuswap Metamorphics.	Unknown.	Low order single W anomaly cut off upstream by non-anomalous sampling at 4600 foot contour. Contours suggest north-trending structure in bedrock. Easy access.

#	P	Locality	NTS	Values (ppm)	Bedrock Geology	Source	Comment
P-74	B	Hole in the Wall	82M/12	15 W	Sericitic phylite, quartzite, quartz biotite schist of Cambrian to Ordovician Eagle Bay Formation. Near north margin of Early Cretaceous quartz monzonite of Raft batholith.	Unknown.	Single weak W anomaly could have its source in one of two possible upstream courses.
P-75	C	Spahats and Candle Cks	82M/12 13 92P/9	20 and 32 W respectively	Shuswap Metamorphic quartz biotite garnet schist and locally gneisses with local marble bands. Near north margin of Raft quartz monzonite batholith.	Minor scheelite-bearing wollastinite garnet and actinolite skarn bands up to 1.5 m wide and flat-lying were observed on Raft Mtn.	Best samples contained 0.14 and 0.26% WO_3 on two selected skarn bands of 0.1 m and 1.5 to 2.0 m in apparent widths respectively. Scheelite found on lower north slope and upper south flank of Raft Mtn was not of potential economic interest.
P-76	A	Martin Ck	82M/12 13	24-49 W	Undifferentiated Shuswap Metamorphic Complex (as above). No intrusive rocks indicated on older maps.	Unknown.	Moderate anomaly on large drainage basin (Martin Ck) combined with low-order W anomaly on adjacent stream.
P-77	B	Ordschig Ck	82M/13 92P/16	20 W	Undifferentiated Shuswap Metamorphic Complex (schist, gneiss, marble, and quartzite) and possible unmapped intrusive stocks.	Unknown.	Low-order single W anomaly on small drainage.
P-78	B	Duncan Ck	82M/13 92P/16	17 W	As above.	Unknown.	As above.

#	P	Locality	NTS	Values (ppm)	Bedrock Geology	Source	Comment
P-79	A	W. Raft R.	82M/13	16 W	Undifferentiated Shuswap Metamorphic Complex including skarn and granodiorite.	Unknown.	Nearby Dimac Tungsten Mine. With some effort, more sampling in vicinity of anomalous site would better define source drainage and to some degree evaluate quality of anomaly. Low-order W anomaly from sample taken below junction of three large drainages.
P-80	C	Dimac Mine	82M/13	42-150 W	Shuswap Metamorphic Complex with black shale and limestone members has been intruded by 65 my granite dyke, an offshoot from a nearby stock. Calcareous units have developed to classic tungsten-mineralized idocrase-diopside-garnet-wollastinite skarn bands with a hydrous calc-silicate overprint.	Dimac Mine tungsten skarns and tailings pond. The latter produces the larger anomaly. (150 ppm W).	Skarns bands display geochemical and mineralogical zonation. (Fe-W rich near contact and Ca rich, W poor upwards and away from igneous contact). Ore averages 1.6% WO_3. Two steeply dipping ore bands are present and total tonnage is estimated to be less than 50,000 tons. Note low-order of W anomaly (42 ppm W) 2.5 km downstream from deposit. No skarn float was noted at the sample site. This appears to be a very small deposit having limited ultimate tonnage, however, it indicates that mineralization can be hidden in geology otherwise mapped as barren Shuswap Metamorphic Complex.

#	P	Locality	NTS	Values (ppm)	Bedrock Geology	Source	Comment
P-81	B	Upper Mad R.	82M/14	25-202 W	Mapped as undifferentiated Shuswap Metamorphic Complex. Follow-up determined the area to be largely underlain by porphyritic leucocratic quartz monzonite stock.	Minor molybdnite-scheelite-quartz veins in quartz feldspar biotite gneiss and minor quartzite near contact with quartz monzonite sill are the source to 202 ppm W anomaly on the tributary to Mad River. Source to 60 ppm W upstream on Mad River unknown.	Source to upper sample on Mad River (60 W) appears to lie up the main stream and could easily be similar to what was determined on tributary. Recommended for volcanogenic massive sulphide targets on basis of geology noted in follow-up.
P-82	A	Finn Ck	82M/14	36-79 W	Mapped as undifferentiated Shuswap Metamorphic Complex.	Unknown.	Good road access to upper portion of anomalous drainage. One sample further upstream on Finn Ck (13 ppm) in swampy region indicates the extreme upper Finn Ck drainage to be weakly W anomalous.

TABLE II STREAM SILT ANOMALIES

1 #	2 P	Locality	NTS	3 Values (ppm)	Bedrock Geology	Source	Comment
S-1	C	Upper Summit Ck	82F/2	108 Cu	Windermere Irene Volcanic Formation, andesite, green argillite and quartzite cut by Cretaceous Bayonne batholith granodiorite.	Unknown	Low order anomaly in small drainage.
S-2	C	Salmo	82F/3	1-3.8 Ag 122-761 Pb 316-1313 Zn plus Mo.	Cambrian Reeves dolomite within Laib Formation hosts numerous Pb-Zn deposits. Cretaceous Nelson granodiorite intrusive cuts Laib and adjacent Active Fm of quartzite.	Salmo mining district, Sheep Ck gold mines, HB, and Jersey Pb-Zn mines and other deposits of the Mine Belt.	Large anomalous area enhanced by contamination due to old mining activity.
S-3	C	Active Ck	82F/3, 6	113 Pb 366-516 Zn	Mine Belt of Laib and Active Form. cut by Nelson stock.	Numerous small Pb-Zn showings reported in the headwaters of anomalous drainages.	
S-4	C	Key Cr	82F/3	512 Zn	Rosssland andesitic rocks and Hall Form. argillite both of Jurassic age cut by small Nelson stock.	Comstock and Boulder City Ag-Au-Zn occurrence reported.	Single sample anomaly
S-5	C	Alondale Ck	82F/5	186 Pb	Small pendant of Pennsylvanian Mt. Roberts Form. slate and argillite in Nelson plutonics.	Unknown	Single anomaly on very short drainage.

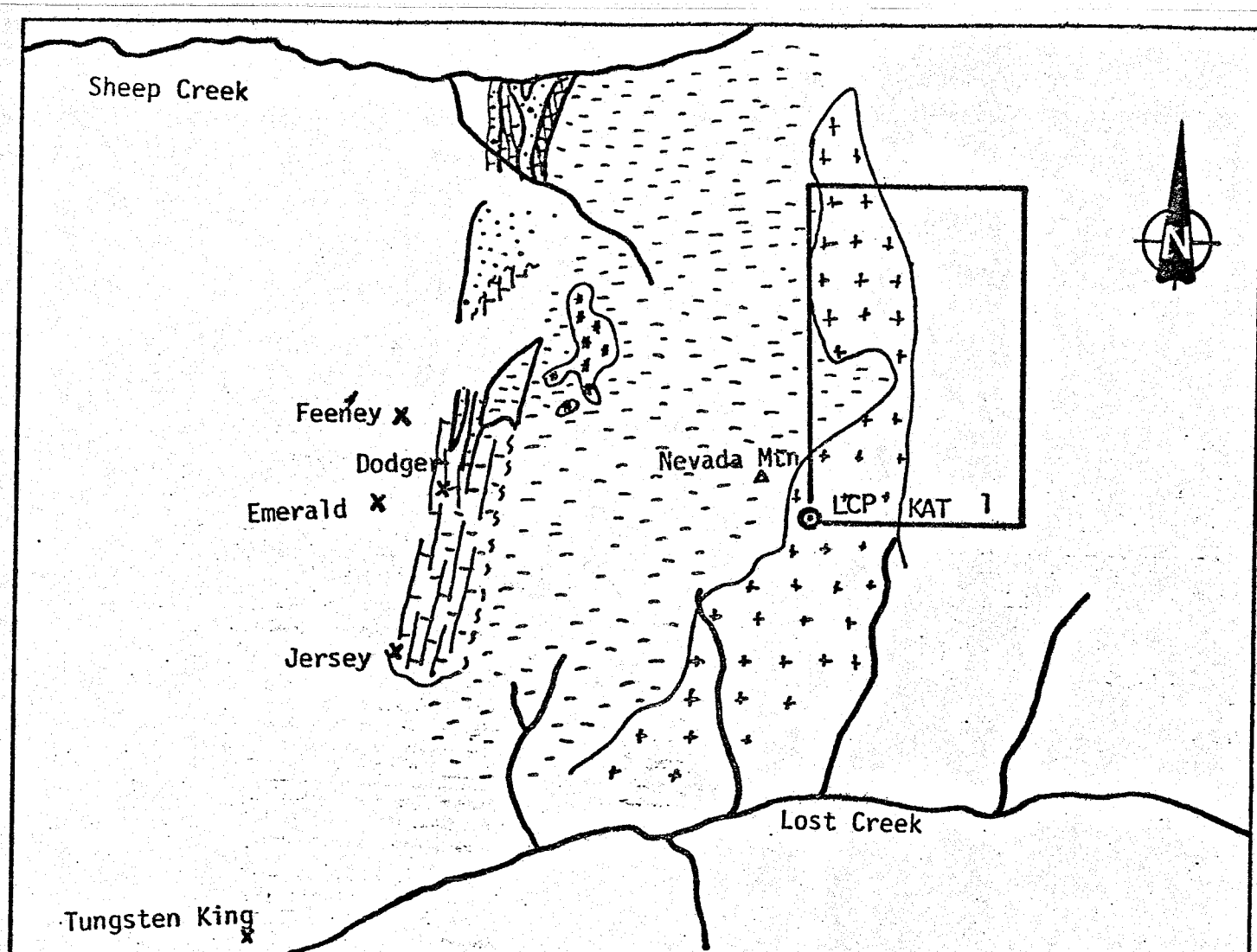
Note:
1. # Denotes anomaly number as shown on Figure 7 and 8.
2. P Denotes assigned priority given to each anomaly (A is highest).
3. All Au values are given in ppb.

#	P	Locality	NTS	Values (ppm)	Bedrock Geology	Source	Comment
S-6	C	Stewart Ck	82F/6	330-790 Zn	Jurassic Hall Form. argillite. Small intrusive stocks present.	Unknown	Base metal mineralization associated with Ymir Mo-W prospect?
S-7	C	Quartz Ck	82F/6	19 Mo	As above.	Ymir Mo-W prospect	
S-8	C	Oscar Ck	82F/6	218 Cu 17.3 Ag 5375 Pb 15,661 Zn 320 W	Triassic(?) Ymir Group of black argillite and slate.	Shirtoh Au-Ag prospect	Very small drainage. Accesssory W indicated plus anomalous As and Cd.
S-9	C	Dunlop Ck	82F/6	464 Zn	Cambrian Active Form. of quartzite and argillite in fault contact.	Last Chance Zn prospect	Fault-controlled drainage.
S-10	C	Ymir Ck	82F/6	3.5 Ag	Mapped entirely as Nelson plutonics.	Blackcock Ag-Au-Pb-Zn prospect	Anomaly on very short drainage. Accessory W indicated. Some question as to sample location.
S-11	C	Barrett and Hall Cks	82F/6	412-508 Zn	Jurassic Hall Form. black argillite intruded by Nelson diorite stock.	Cu-Au-Ag showings reported	Adjacent drainages show high background Zn values (200-290 ppm).
S-12	C	Gold and Giveout Cks	82F/6	122-200 Cu 1.6 Ag 21 Mo	Jurassic Rossland Formation andesite flows and tuffs with sericite schist interbeds intruded by Nelson feldspar porphyry.	Silver King Cu-Au-Ag-Pb past producer and Kena prospect with recorded Cu Au mineralization.	Numerous small mineral occurrences in the area

#	P	Locality	NTS	Values (ppm)	Bedrock Geology	Source	Comment
S-13	C	Eagle Ck	82F/6	227 Cu	Nelson diorite in contact with Rossland andesite in headwaters of stream.	Ophir (Good Hope) Au-Ag showing	
S-14	C	Lower Hell-roaring Ck	82F/9	109 Pb	Small Nelson stock intruded into Lower Purcell Aldridge quartzite.	Warhorse Pb-Zn-Cu-Ag showing	
S-15	C	Upper La France Ck	82F/10	331-154 Pb	Upper Purcell Mt Nelson Form. argillite and magnesian limestone.	Snow King Pb-Zn showing	Pb mineralization apparently stratabound similar to Dave showing 5 km south.
S-16	C	Baker Ck	82F/10	8 Mo	Entire sequence of Upper Purcell through Windermere traversed by creek.	Unknown	Possible Mo follow-up in future.
S-17	C	Kokanee Ck	82F/11	56.7 Ag 1749 Pb 1751 Zn	Mapped as Nelson batholith. Probably some Triassic Ymir Group argillite present as pendant.	Old Moly Gibson Ag-Pb-Zn-Au mine	Downstream dispersion is more than 12 km.
S-18	C	Bush Ck	82F/11	6.0-9.7 Ag	Ymir argillite as rusty roof pendant in Nelson ganodiorite.	Kok Pb-Zn-Cu	
S-19	C	Springer Ck	82F/14	1-5.1 Ag 94-138 Pb 365 Zn	Mapped as Nelson plutonic rocks with scattered pendants of Triassic Slocan Group slate, argillite and limestone.	Past Ag-Pb-Zn-Au producers and occurrences. Speculator, Arlington, Kimberly, Dayton and Evening Star.	Old Slocan Mining camp.
S-20	C	Climax Ck	82F/14	7.4 Ag 214 Pb	Quartz veined granite and quartz diorite of Nelson batholith.	Republic 2 Ag-Au-Pb-Zn Mine	Past production small

#	P	Locality	NTS	Values (ppm)	Bedrock Geology	Source	Comment
S-21	C	Memphis Ck	82F/14	3.7 Ag	Nelson batholith shear zone w/vein.	Homestake Au-Ag and Pb-Zn	Past small producer.
S-22	C	Enterprise Ck	82F/14	0.9-12.5 Ag 527 Zn	Nelson batholith containing shear and highly fractured zones which are mineralized.	Westmont, Eastmont, Nepawa and Enterprise mine.	Past producers of Pb and Ag.
S-23	C	Lower Enterprise Ck	82F/14	1.2 Ag	Mapped as large paragneiss pendant in Nelson batholith.	Exchange Au-Ag showing.	
S-24	C	Alwyn Ck	82F/14	10 Mo 246 Cu	Pendants of quartzite and argillite in Nelson batholith.	Several small Ag producers.	BP/Rio joint venture drilling a Cu-Au breccia pipe.
S-25	C	Upper Powder Ck	82F/15	22 Mo	Cambrian Hamill quartzite, nearby Cretaceous Powder stock.	Unknown	Staked by Kennco 1980 as a molybdenum target.
S-26	C	Lower Dewar Ck	82F/16	110 Ag 88 Cu 0.6 Ag	Lower Purcell Aldridge quartzite and argillite.	Unknown	Weak Cu-Ag-As anomaly on two small drainages.
S-27	B	Gollen Ck	82M/5	105 ppb Au	Cambrian Eagle Bay limestone, quartzite and quartz sericite schists.	Hilltop 9 Cu showing in copper-bearing skarn pod.	Coincident panned concentrate gold anomaly. Downstream sample at mouth of Gollen Ck ran 25 ppm on panned concentrate.

#	P	Locality	NTS	Values (ppm)	Bedrock Geology	Source	Comment
S-28	B	Upper Raft River	83M/13	235 Cu 110-126 Pb 300 Zn	Green chlorite calcite schist, interbedded black graphitic and quartz sericite schists west of river. Quartz biotite schist/calc-silicate gneiss east of river.		Anomalous Pb and Zn soil and rock samples up to 863 ppm Pb and 15,933 ppm in sericite schist green chloritic interbedded schist mineralized by visible sphalerite. Some open ground may exist in the region between Cominco's claim block and the park. Region heavily overgrown by post logging vegetation.
S-29	B	Upper Raft River	82M/13	279 Cu 453 Zn	Mapped on Shuswap Metamorphic Complex.	Unknown	Short stream with Cu-Zn anomaly



TERTIARY

Coryell monzonite

CRETACEOUS

Nelson granite

CAMBRIAN

Active Formation
Black argillite, slate, minor limestone

Laib Formation
Reeves Limestone, black phyllite

Reno Formation
Phyllitic quartzite,quartzite

0 .5 1 2 3 Km.

NTS 82 F/3

Kidd Creek Mines Ltd.

KAT 1 Claim

WORK BY	DRAWN BY	DATE:

Figure: 9

NCI - 556

VI PROPERTIES AND PROSPECTS

Several properties were examined during the course of field work. One claim was staked; no properties were optioned. Two properties are described in this section; the remainder are covered briefly in Property Information Forms given in Appendix D.

1. KAT 1 claim W NTS 82F/6

The KAT 1 claim (15 units), was staked on September 10, 1982, and recorded September 21 (record no. 2787), to cover prospective geology on open ground. This claim lies on the northeast flank of Nevada Mountain near Salmo, B.C., and approximately two kilometres east of the old Emerald mine.

Access is by the Sheep Creek road, across Sheep Creek and then along an old Cat trail. This Cat trail runs for five kilometres from a sawmill at the base of the Sheep Creek road.

Underlying geology (Figure 9) consists of the contact zone between the Cambrian Active Formation black argillite and slate with interbedded carbonate units, and a Cretaceous Nelson granite apophysis. The ground was staked as a geological target on the basis of skarn presence in the vicinity of the granite contact. The carbonate members within the Active Formation could host tungsten-bearing skarn deposits.

A geological and geochemical survey of this claim should determine whether or not significant tungsten (or gold) mineralization, is present. A low-cost project of two weeks duration should adequately evaluate this claim.

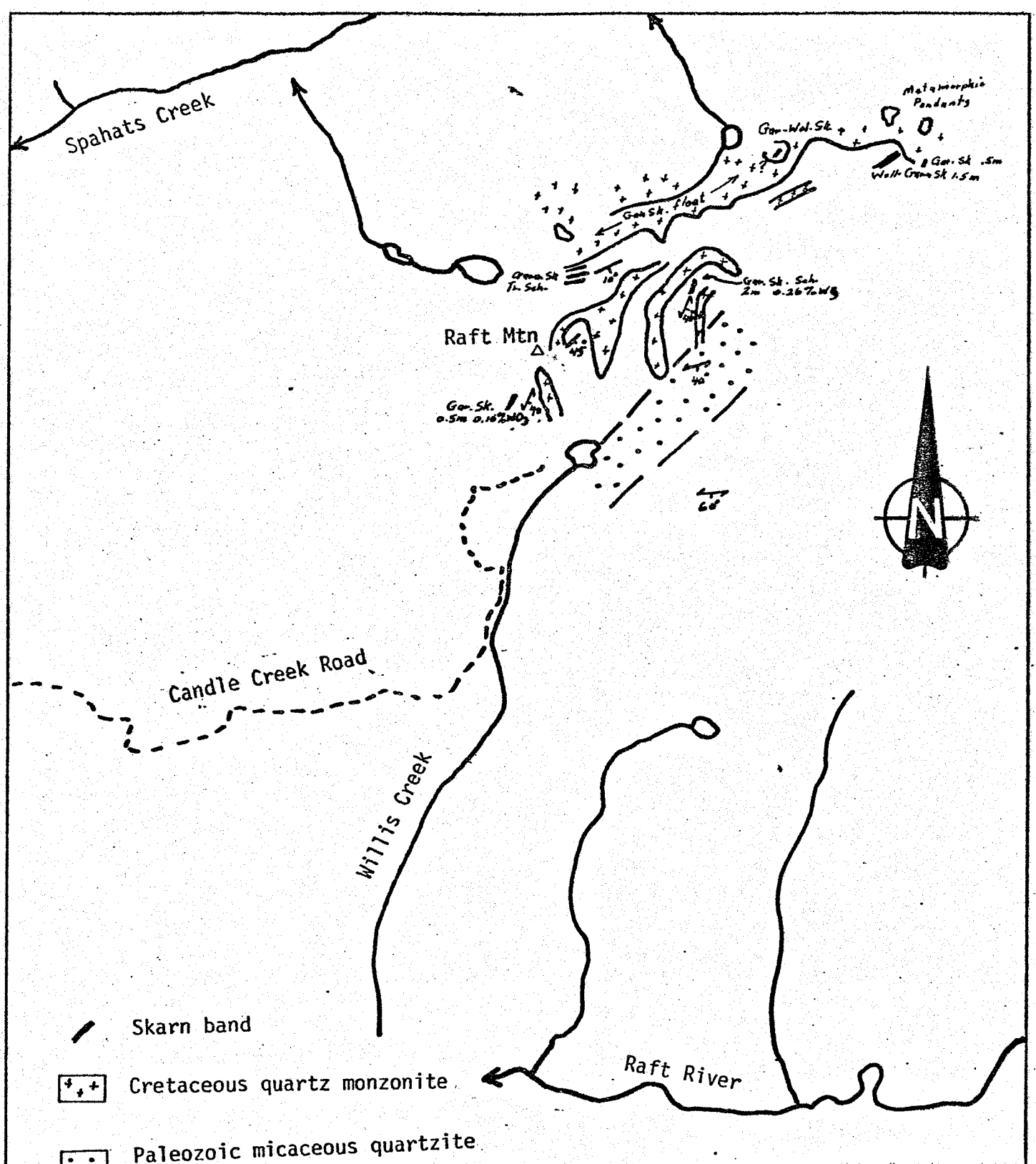
2. Spahats Creek W NTS 82M/12, 13

The Spahats Creek tungsten ocurrence lies 14 kilometres northeast of Clearwater, B.C. and is accessible by the Spahats Creek logging road or the Candle Creek road which runs up the south flank of Raft Mountain to an elevation of 6,500 ft.

In 1979 Texasgulf, in following up anomalous stream geochemistry discovered interesting tungsten mineralization in gneissic float on the north side of Raft Mountain. Grab assays returned 1.30 and 1.32% WO_3. A 20-unit claim was staked but not recorded. The conclusion reached at that time was that the discovered tungsten-bearing gneissic float represented possible "stratabound" tungsten mineralization.

During the course of 1982 fieldwork in this region, Kidd Creek Mines spent two days covering the geology of Raft Mountain and prospecting for tungsten. Findings are shown on Figure 10 and although considerable sparse scheelite was found in skarns, none was located which matched the mode of tungsten occurrence discovered in 1978.

The predominant quartz-feldspar-biotite schist and quartz-feldspar gneisses have a general northeast striking schistosity with a southeast dip ranging between 45° and 60°. Locally, overturned isoclinal folding is present. A quartz-rich quartz-mica schist unit probably representing impure quartzite was mapped on the eastern side of Raft Mountain. Southeast of this unit, interbedded quartz-feldspar gneiss and hornblende-quartz-feldspar schist with epidote veinlets are more common,



Skarn band

Cretaceous quartz monzonite

Paleozoic micaceous quartzite

Paleozoic undifferentiated quartz mica schist and gneisses

0 .5 1 2 3 Km

NTS 82 M/12

Kidd Creek Mines Ltd.

Spahats Creek Area

WORK BY	DRAWN BY	DATE:

Figure: 10

NCI - 556

with the latter lithology displaying a distinct contact metamorphic hornfels appearance. Presence of nearby plutonic rock is inferred.

Numerous bands of skarn were discovered as shown on Figure 10. Most are sparsely mineralized by scheelite, conformable to schistosity, and measure from one-half to one and one-half metres in width. Skarn minerals most commonly are garnet and actinolite with subordinate amounts of pyroxene, idocrase and wollastinite. In appearance, these skarn's mineralogy very closely resemble those found at Dimac's Silent Lake deposit. Two grab samples of weakly mineralized skarn ran 0.16% WO_3 and 0.26% WO_3.

The conclusion was reached, based on geological observation, that scheelite in skarn bands is not present in sufficient concentration to be of economic interest.

3. Other Prospects-Massive Sulphides 82M/13, 14

During the course of fieldwork, in following up W anomalies, two massive sulphide environments were encountered, both of which justify attention and also moderate priority field work (Anomalies S-29 and P-81 Appendix C) The first of these is located on the west side of Cominco's CK claim block in the upper Raft River area, near the border of Wells Gray Park. Interbedded with black quartz-graphite schist and green chlorite-calcite schist, a rusty quartz-sericite schist contains a narrow, conformable band of bedded(?) sphalerite up to

several centimetres wide (Figure 11 Appendix C). More prospecting and possibly some mapping is needed in this area to determine the significance of this showing.

A second indicated masive suphide environment is situated in the upper Mad River region near the north margin of an unmapped quartz monzonite stock (Figure 12 Appendix C). Pyrite-chalcopyrite-bearing garnet amphibolite is interbedded with high-grade gneisses and schists. Several pits appear to have been blasted from bedrock at the road side. At least part of the ground was staked in 1981 by a local prospector. Examination of the local geology should determine the extent of Kidd Creek Mines' interest in volcanogenic massive sulphide targets in this area.

LIST OF SELECTED REFERENCES

Brown, R.L., et al, 1981. South Cordillera Cross-Section - Cranbrook to Kamloops, in Field Guides to Geology and Mineral Deposits Calgary 81 Annual Meeting, R. Thompson and D. Cook, editors. Geological Association of Canada, pp. 335-372.

Cairnes, C.E., 1934. Slocan mining camp, British Columbia; Geological Survey of Canada, Memoir 173, 137 p.

Campbell, R.B. and Tipper, H.W., 1971. Geology of Bonaparte Lake map-area, British Columbia; Geological Survey of Canada, Memoir 363, 100 p.

Einaudi, M.T, et al, 1981. Skarn Deposits in 75th Anniversary Volume, Economic Geology. pp. 317-391.

Fyles, J.T., 1964, Geology of the Duncan Lake area, Lardeau District, British Columbia; British Columbia Department of Mines and Petroleum Resources, Bulletin 49, 87 p.

Fyles, J.T., 1967. Geology of the Ainsworth-Kaslo area, British Columbia; British Columbia Department of Mines and Petroleum Resources, Bulletin 53, 125 p.

Fyles, J.T., 1970. Geological setting of the lead-zinc deposits in the Kootenay Lake and Salmo areas of British Columbia; in Lead-Zinc Deposits in the Kootenay Arc, Washington Division of Mines, Bulletin 61, pp. 43-53.

Fyles, J.T. and Eastwood, G.E.P., 1962. Geology of the Ferguson area, Lardeau District, British Columbia; British Columbia Department of Mines and Petroleum Resources, Bulletin 45, 92 p.

Fyles, J.T. and Hewlett, C.G., 1959. Stratigraphy and structure of the Salmo lead-zinc area; British Columbia Department of Mines, Bulletin 41, 162 p.

Glover, J.K., 1978. Geology of the Summit Creek map area, southern Kootenay Arc, British Columbia; unpublished Ph.D. thesis, Queen's University, Kingston, Ontario, 144 p.

Hedley, M.S., 1952. Geology and ore deposits of the Sandon area, Slocan mining camp, British Columbia; British Columbia Department of Mines, Bulletin 29, 130 p.

Hoy, T., 1980. Geology of the Riondel area, central Kootenay Arc, southeastern British Columbia; British Columbia Ministry of Energy, Mines and Petroleum Resources, Bulletin 73, 89 p.

Little, H. W., 1960. Nelson map-area, west half, British Columbia, Geological Survey of Canada, Memoir 308, 205 p.

Okulitch, A.V., 1979. Lithology, stratigraphy, structure and mineral occurrences of the Thompson-Shuswap-Okanagan area, British Columbia; Geological Survey of Canada, Open File 637.

Read, P.B. and Wheeler, J.O., 1976. Geology, Lardeau west-half, British Columbia; Geological Survey of Canada, Open File 432.

Read, P.B., 1979a. Geology and mineral deposits in the eastern part of Vernon east-half, British Columbia; Geological Survey of Canada, Open File 658.

Reesor, J.E., 1973. Geology of the Lardeau map-area, east- half, British Columbia; Geological Survey of Canada. Memoir 369, 129 p.

Rice, H.M.A., 1941. Nelson map-area, east-half, British Columbia: Geological Survey of Canada, Memoir 228. 86 p.

Wheeler, J.O., 1965. Big Bend map-area, British Columbia. Geological Survey of Canada, Paper 64-32. 37 p.

APPENDIX A

TABLES OF ANALYSES

TABLE III PANNED CONCENTRATE ANALYSIS

TABLE IV STREAM SILT ANALYSIS

TABLE III

PANNED CONCENTRATE ANALYSIS

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
SN& ANALYSIS BY AA FROM 1.00 GRAM SAMPLE. SAMPLE TYPE - PAN CONCENTRATE -40 mesh, magnetite removed, pulverized
WX ANALYSIS BY AA. AS CHECK FOR INITIAL SAMPLE BATCH ONLY.

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	SN& ppm	WX ppm
AW28-82 1	2	6	5	11	.1	13	4	138	1.26	2	5	ND	6	19	1	2	2	14	.22	.02	19	60	.23	37	.05	4	.37	.02	.09	2	1	
AW28-82 3	1	12	4	14	.1	17	18	95	1.83	5	2	ND	11	5	1	2	2	12	.06	.02	33	41	.18	24	.03	4	.39	.01	.09	2	3	
AW28-82 5	2	4	5	4	.1	8	3	86	.93	2	6	ND	4	2	1	2	2	4	.01	.01	12	64	.06	20	.01	2	.17	.01	.06	2	1	
AW28-82 7	1	4	3	5	.1	6	4	83	.72	2	5	ND	3	5	1	2	2	4	.04	.01	10	37	.09	38	.01	5	.24	.01	.07	2	1	
AW28-82 9	1	4	6	14	.1	8	4	103	1.00	8	7	ND	6	7	1	2	2	7	.07	.01	15	38	.11	23	.03	3	.26	.01	.05	2	1	
AW28-82 11	2	9	3	10	.1	12	7	152	1.56	2	9	ND	4	6	1	2	2	16	.07	.01	14	59	.15	46	.06	7	.34	.01	.08	2	3	
AW28-82 13	1	7	7	22	.1	11	5	115	1.27	2	2	ND	4	9	1	2	2	12	.11	.03	14	28	.23	69	.03	4	.72	.01	.08	2	1	
AW28-82 15	1	8	9	26	.1	14	8	150	1.49	2	4	ND	6	14	1	2	2	13	.21	.03	18	39	.29	54	.04	4	.70	.02	.10	7	3	12
AW28-82 17	1	5	6	14	.1	19	5	122	1.29	2	7	ND	6	16	1	2	2	11	.31	.03	13	50	.43	28	.04	3	.40	.03	.06	2	5	
AW28-82 19	2	6	8	17	.1	8	4	127	1.31	2	2	ND	3	3	1	2	2	7	.02	.02	14	35	.17	36	.01	3	.42	.01	.11	2	3	
AW28-82 21	1	8	6	20	.1	12	6	119	1.28	2	7	ND	4	11	1	2	2	10	.14	.03	12	30	.25	46	.02	4	.61	.01	.09	2	1	
AW28-82 23	2	29	25	66	.1	42	30	282	4.42	15	7	ND	8	16	1	2	6	14	.14	.05	20	40	.66	127	.01	10	1.44	.02	.12	2	2	
AW28-82 27	2	4	5	7	.1	7	3	100	.95	2	4	ND	4	4	1	2	2	6	.03	.01	12	34	.09	19	.02	3	.24	.01	.05	2	5	2
AW28-82 31	2	28	50	119	.4	15	8	172	1.76	2	9	ND	6	18	1	2	3	24	1.21	.08	14	27	.79	67	.03	4	.57	.02	.09	28	10	25
AW28-82 33	4	17	22	179	.3	21	5	187	1.70	2	8	ND	15	22	2	2	2	55	1.60	.15	26	25	.87	56	.02	4	.72	.03	.09	38	1	38
AW28-82 37	4	27	335	502	.4	32	11	238	2.96	9	9	ND	26	34	5	2	7	86	1.43	.12	39	39	.87	858	.05	6	.81	.03	.11	34	13	36
AW28-82-41	4	59	66	290	.2	46	17	601	3.78	24	2	ND	7	107	1	4	3	69	.95	.16	16	50	1.27	178	.11	6	1.45	.05	.20	7	1	
AW28-82-43	5	42	28	200	.1	32	13	566	3.83	18	4	ND	3	44	1	3	3	74	.54	.12	12	38	.88	124	.07	8	1.20	.03	.13	5	2	
AW28-82-45	11	41	27	91	.1	32	16	382	3.30	5	7	ND	3	52	1	2	3	73	.83	.09	13	51	.61	75	.11	4	1.04	.05	.13	47	1	
AW28-82-47	3	32	14	126	.1	33	16	442	3.60	20	5	ND	4	45	1	4	3	62	.59	.11	13	59	1.22	78	.08	7	1.32	.03	.11	20	2	
AW28-82-51	2	28	18	178	.1	36	13	478	3.42	14	6	ND	7	43	1	3	3	64	.58	.11	17	78	1.27	96	.08	6	1.53	.03	.13	3	1	
AW28-82-53	3	28	16	143	.1	24	10	434	3.42	21	3	ND	2	39	1	2	4	68	.49	.09	9	62	.97	82	.07	6	1.46	.03	.10	16	3	
AW28-82-55	2	42	10	62	.1	24	19	312	3.15	20	6	ND	3	57	1	2	2	68	.89	.09	12	58	.71	63	.12	5	1.07	.05	.13	21	1	
AW28-82-57	3	40	35	267	.1	31	12	430	3.76	10	2	ND	2	41	1	3	3	75	.47	.07	10	63	1.11	66	.06	6	1.67	.03	.10	2	2	

DATE RECEIVED 14 JUNE 1982 DATE REPORTS MAILED June 18/82 ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

KIDD CREEK PROJECT # 28 FILE # 82-0394 PAGE # 1.1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn ppm
AW28-82-57 1	6	14	58	.1	5	6	578	3.01	2	10	ND	21	59	1	4	2	55	1.37	.14	70	13	.71	54	.20	19	1.44	.16	.33	2	5
AW28-82-59 2	27	15	85	.1	32	18	261	3.42	7	3	ND	9	33	1	4	2	36	.51	.11	27	24	.64	88	.06	6	1.21	.04	.15	7	3
AW28-82-61 3	26	96	616	.5	38	12	340	4.12	51	2	ND	11	26	4	5	2	33	.84	.18	40	26	.47	99	.04	7	.76	.03	.21	2	4
AW28-82-61 1	34	10	61	.1	21	12	324	2.63	6	3	ND	2	63	1	2	2	68	.89	.07	10	55	.72	58	.10	4	1.20	.05	.12	4	1
AW28-82-63 4	48	72	429	.7	55	15	279	4.11	39	8	ND	9	33	3	6	2	60	.98	.40	37	28	.39	133	.03	8	.87	.02	.24	5	1
AW28-82-69 3	36	8	168	.1	25	14	450	3.03	7	6	ND	2	51	1	2	2	65	.75	.08	7	34	.62	66	.08	6	1.31	.05	.12	2	3
AW28-82-71 2	51	11	134	.1	30	15	543	3.57	17	6	ND	2	53	1	2	4	67	.64	.17	14	42	1.12	78	.07	8	1.55	.03	.10	2	1
AW28-82-73 2	50	13	103	.2	27	16	379	3.33	14	6	ND	3	52	1	2	2	64	.61	.12	16	58	1.10	80	.10	9	1.43	.04	.13	2	1
AW28-82-75 2	37	11	203	.1	34	12	430	3.43	8	2	ND	2	46	1	2	3	73	.53	.09	11	65	1.28	82	.07	10	1.63	.03	.11	2	2
AW28-82-77 2	49	10	42	.2	23	20	334	2.91	2	2	ND	2	58	1	2	3	60	.61	.09	8	41	.98	82	.11	6	1.27	.04	.21	32	1
AW28-82-79 3	32	11	284	.1	34	13	367	3.30	8	7	ND	2	53	2	2	3	67	.48	.07	12	63	.95	66	.08	8	1.31	.03	.10	4	2
AW28-82-81 2	57	9	44	.5	24	27	279	3.63	7	6	ND	2	52	1	2	2	53	.58	.09	9	57	.73	59	.09	7	.94	.03	.15	49	3
AW28-82-83 2	76	9	46	.2	15	29	444	3.57	2	6	ND	2	44	1	2	4	52	.48	.11	10	24	1.03	62	.07	9	1.36	.02	.17	5	2
AW28-82-87 1	47	12	65	.1	30	17	481	3.32	2	6	ND	2	34	1	2	3	49	.43	.07	8	47	1.25	67	.08	11	1.59	.03	.15	2	3
AW28-82-89 3	76	16	53	.5	16	41	480	4.63	10	2	ND	3	33	1	2	4	50	.34	.08	12	22	.74	71	.07	10	1.05	.02	.20	32	2
AW28-82-91 11	72	23	64	.5	11	29	354	3.15	2	4	ND	3	42	1	2	3	50	.43	.07	12	15	.62	67	.07	7	.96	.03	.19	30	1
AW28-82-95 1	20	14	54	.3	10	17	290	2.39	2	8	ND	10	46	1	2	3	35	.62	.08	35	19	.45	62	.10	5	.84	.07	.16	57	5
AW28-82-99 1	16	10	52	.1	349	37	629	3.90	2	2	ND	3	36	1	4	4	17	.44	.14	15	42	5.80	45	.03	8	.35	.02	.07	3	1
AW28-82-101 2	35	10	62	.2	23	22	325	2,97	5	6	ND	3	42	1	2	3	55	.53	.09	12	25	.82	117	.09	9	1.24	.05	.20	15	2
AW28-82-103 2	43	13	83	.2	27	29	311	3.40	15	5	ND	3	35	1	2	3	62	.43	.08	11	33	.98	137	.10	10	1.34	.04	.30	6	1
AW28-82-105 1	15	6	48	.1	453	45	735	4.44	2	2	ND	2	49	1	2	4	9	.58	.21	19	43	7.18	29	.01	10	.19	.01	.04	5	1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn# ppm
AW28-82-107	1	26	9	44	.1	142	27	463	3.36	2	6	ND	8	55	1	2	3	43	.62	.18	30	70	2.83	86	.07	7	.83	.03	.14	8	2
AW28-82-109	1	11	10	30	.2	10	13	315	1.99	2	4	ND	3	64	1	2	2	39	.72	.09	16	13	.53	73	.14	6	.93	.08	.16	6	1
AW28-82-111	1	51	9	46	.1	17	40	517	3.86	4	2	ND	2	47	1	2	4	64	.57	.11	9	20	1.17	90	.08	12	1.42	.04	.17	5	1
AW28-82-113	1	46	9	49	.1	15	21	480	3.47	2	2	ND	2	44	1	2	3	71	.48	.10	8	30	1.29	106	.09	6	1.43	.02	.19	2	3
AW28-82-115	1	30	9	41	.1	13	22	463	3.66	2	11	ND	2	40	1	2	2	63	.43	.09	8	21	1.07	70	.09	7	1.26	.03	.11	2	3
AW28-82-117	1	36	9	42	.1	24	23	358	3.35	10	3	ND	2	59	1	2	3	56	.56	.13	11	30	1.12	84	.09	11	1.20	.03	.13	4	1
AW28-82-119	3	76	11	51	1.9	15	68	504	4.61	2	7	9	3	48	1	2	4	61	.66	.14	9	23	.94	142	.09	13	1.27	.05	.32	36	3
AW28-82-121	2	71	13	31	.5	18	40	310	4.12	2	9	ND	8	69	1	2	5	71	1.11	.31	21	21	.73	59	.08	9	.91	.04	.15	64	1
AW28-28-123	6	663	79	64	2.1	15	55	355	4.78	2	15	ND	8	74	1	2	10	61	1.32	.43	27	22	.59	63	.06	10	.86	.04	.21	180	6
AW28-82-125	1	48	16	35	.3	17	30	286	3.06	2	5	ND	10	41	1	2	5	45	.50	.09	29	27	.59	63	.07	7	.86	.04	.15	47	3
AW28-82-127	1	25	7	38	.1	149	20	416	2.69	2	7	ND	7	153	1	2	3	26	.95	.31	43	55	2.32	115	.06	7	.61	.04	.15	4	1
AW28-82-129	1	6	7	20	.2	40	7	140	1.23	2	3	ND	18	37	1	2	2	20	.43	.12	48	37	.68	86	.06	9	.38	.04	.12	4	1
AW28-82-133	1	6	7	21	.2	15	4	236	1.42	2	3	ND	38	31	1	2	2	20	.36	.08	82	19	.30	69	.06	7	.51	.05	.10	3	4
AW28-82-137	2	10	8	29	.1	92	12	233	1.81	2	8	ND	19	35	1	2	5	21	.43	.12	43	34	1.56	79	.05	5	.36	.04	.09	2	1
AW28-82-139	9	34	3	34	.3	17	27	244	2.49	2	17	ND	29	58	1	2	18	43	.86	.12	32	23	.55	149	.11	5	.91	.07	.13	843	2
AW28-82-141	1	9	9	25	.2	8	7	227	1.70	2	2	ND	12	37	1	2	2	34	.57	.08	40	17	.38	89	.08	12	.73	.06	.12	36	1
AW28-82-143	1	8	18	32	.1	6	7	240	1.76	2	8	ND	50	47	1	2	2	36	.56	.07	83	14	.35	51	.10	4	.66	.06	.09	16	1
AW28-82-145	1	7	8	22	.1	6	6	177	1.35	2	4	ND	8	34	1	2	2	26	.45	.06	28	11	.32	60	.07	5	.63	.05	.10	16	2
AW28-82-147	1	11	11	27	.1	7	14	215	2.09	2	2	ND	8	30	1	2	2	46	.39	.06	19	18	.37	70	.08	5	.71	.04	.11	8	2
AW28-82-151	1	10	8	22	.3	6	16	201	1.68	2	5	ND	9	31	1	2	2	33	.39	.05	20	14	.40	65	.08	4	.73	.06	.12	4	3
AW28-82-161	1	10	9	26	.1	7	6	221	1.45	2	9	ND	3	45	1	2	2	33	.47	.06	16	13	.41	71	.08	4	.83	.07	.13	3	2

KIDD CREEK PROJECT # 28 FILE # 82-0394 PAGE # 2.1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Snt ppm
AW28-82-163																															
1	13	12	35	.1	8	11	267	2.00	2	5	ND	4	53	1	2	2	47	.49	.07	14	19	.52	79	.09	3	1.01	.05	.10	3	1
AW28-82-165																															
1	15	11	31	.1	8	12	260	1.98	2	2	ND	9	64	1	2	2	47	.60	.06	18	18	.54	67	.12	3	1.09	.06	.11	2	3
AW28-82-167																															
1	41	9	34	.1	33	13	281	2.43	2	11	ND	12	62	1	4	2	51	.79	.14	33	76	.80	124	.12	4	.96	.09	.19	10	2
AW28-82-169																															
1	23	11	34	.1	25	13	183	2.09	4	4	ND	4	37	1	3	2	48	.47	.10	19	52	.60	114	.10	3	.97	.06	.15	4	1
AW28-82-171																															
1	35	14	47	.1	24	11	260	2.32	15	4	ND	5	59	1	4	2	59	.58	.11	26	52	.76	191	.12	12	1.28	.10	.22	3	3
AW28-82-173																															
1	15	10	30	.1	29	12	249	2.09	2	2	ND	15	56	1	5	2	43	.74	.14	34	68	.70	103	.11	4	.84	.07	.15	11	1
AW28-82-175																															
2	14	10	32	.1	12	19	319	3.37	3	2	ND	11	48	1	2	2	78	.71	.08	22	27	.48	63	.22	6	.94	.07	.10	16	1
AW28-82-179																															
1	22	11	33	.1	23	13	281	2.32	3	2	ND	7	50	1	3	2	47	.69	.09	30	41	.63	111	.12	7	.98	.08	.14	4	1
AW28-82-181																															
2	9	8	29	.1	8	11	287	1.96	2	4	ND	11	56	1	2	2	36	.63	.09	41	14	.42	60	.13	9	.82	.07	.10	38	4
AW28-82-183																															
1	23	17	69	.1	17	8	368	2.80	14	4	ND	5	56	1	4	2	60	.54	.07	16	25	.74	110	.10	5	1.47	.07	.15	2	2
AW28-82-185																															
1	23	11	65	.1	14	7	390	2.90	14	5	ND	4	45	1	3	2	62	.58	.06	15	28	.72	76	.11	6	1.33	.07	.14	6	1
AW28-82-187																															
1	9	10	40	.1	74	11	365	2.39	2	3	ND	7	49	1	4	2	34	.52	.09	26	34	1.57	59	.09	5	.73	.04	.08	4	2
AW28-82-189																															
1	33	13	26	.1	35	46	293	4.16	14	8	ND	33	58	1	4	3	64	.92	.17	64	43	.61	74	.17	6	.75	.07	.11	11	2
AW28-82-193																															
1	10	11	31	.1	14	6	333	1.66	2	7	ND	6	61	1	2	2	35	.57	.10	34	26	.52	119	.11	4	.85	.07	.11	3	1
AW28-82-195																															
1	38	16	55	.1	45	13	410	3.55	9	2	ND	2	44	1	4	2	78	.60	.05	7	82	1.23	133	.15	6	1.95	.07	.17	2	2
AW28-82-197																															
1	39	12	34	.1	29	18	264	2.64	15	3	ND	2	50	1	3	2	68	.80	.06	5	60	.96	70	.14	5	1.47	.08	.13	3	3
AW28-82-199																															
6	96	21	104	.1	29	35	584	5.13	33	3	ND	2	75	1	4	2	90	.91	.09	7	47	.93	87	.11	8	1.62	.07	.21	13	1
AW28-82-201																															
2	61	21	60	.1	22	31	394	3.98	20	5	ND	4	88	1	4	4	86	1.04	.09	13	39	.77	72	.12	8	1.40	.09	.17	7	1
AW28-82-203																															
1	40	15	39	.1	29	15	319	2.72	9	4	ND	2	52	1	2	2	67	.69	.08	8	58	1.04	97	.11	6	1.55	.07	.17	2	1
AW28-82-205																															
1	54	15	61	.1	28	24	494	3.81	21	10	ND	2	70	1	3	2	85	.65	.07	6	60	1.28	67	.13	6	1.85	.05	.14	2	1
AW28-82-209																															
1	13	14	31	.2	9	7	269	1.58	2	2	ND	7	36	1	2	2	31	.42	.07	29	16	.33	83	.10	3	.74	.05	.08	2	2
AW28-82-211																															
1	31	13	28	.1	20	14	258	2.26	3	4	ND	8	38	1	3	2	39	.47	.08	30	34	.47	76	.10	5	.86	.05	.08	2	2
AW28-82-213																															
1	25	10	27	.1	13	11	257	2.19	2	6	ND	11	44	1	2	2	50	.57	.07	32	28	.42	69	.12	5	.80	.08	.09	12	3
AW28-82-215																															
1	23	10	28	.1	11	10	255	2.22	2	6	ND	7	48	1	3	2	51	.51	.07	28	25	.37	82	.11	7	.77	.08	.10	7	1
AW28-82-217																															
1	39	10	25	.1	17	20	262	2.71	6	5	ND	12	40	1	3	2	57	.67	.07	24	36	.51	61	.12	6	.85	.08	.11	17	3
AW28-82-219																															
1	42	46	72	.1	27	16	419	3.58	27	2	ND	4	58	1	4	3	79	.70	.07	13	56	1.02	114	.12	6	1.70	.09	.19	11	2
AW28-82-221																															
[illegible]	[illegible]	[illegible]	[illegible]	57	[illegible]	123	[illegible]	26	[illegible]	[illegible]	485	[illegible]	[illegible]	2	[illegible]	2	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	.[illegible]	11	[illegible]	39	[illegible]	138	[illegible]	[illegible]	1.61	[illegible]	24	[illegible]	4

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
Sn% ANALYSIS BY AA FROM 1.00 GRAM SAMPLE. SAMPLE TYPE - PAN CONC. & SILT

DATE RECEIVED JUNE 18 1982 DATE REPORTS MAILED June 23/82 ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

KIDD CREEK MINES LTD PROJECT # 28 FILE # 82-0434 PAGE # 1.1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn% ppm
AW28-82-223	4	51	52	220	.1	29	19	514	5.36	72	3	ND	5	62	1	6	2	73	.61	.14	19	30	.82	158	.07	9	1.54	.06	.20	6	2
AW28-82-229	3	20	21	236	8.1	14	7	279	2.43	36	7	ND	16	23	2	2	5	49	.49	.11	71	14	.43	202	.07	8	.81	.03	.11	54	1
AW28-82-233	1	7	18	59	.7	4	7	269	2.07	11	2	ND	16	23	1	2	4	25	.43	.09	78	7	.42	59	.09	8	.82	.03	.11	5	1
AW28-82-235	1	8	72	154	2.9	3	6	249	1.86	3	3	ND	24	20	1	2	4	27	.45	.09	103	8	.33	56	.11	9	.68	.04	.13	14	3
AW28-82-237	1	4	138	206	2.8	3	4	271	1.79	2	5	ND	25	21	1	3	3	25	.38	.08	81	6	.35	92	.08	8	.78	.04	.16	2	1
AW28-82-241	1	8	16	42	.4	4	12	270	2.34	5	2	ND	34	22	1	2	4	37	.69	.13	172	9	.41	57	.17	11	.78	.05	.15	12	1
AW28-82-245	1	10	51	91	10.1	4	7	248	1.95	2	7	ND	27	24	1	2	3	27	.53	.11	108	8	.38	275	.11	8	.72	.04	.13	43	1
AW28-82-247	1	5	18	67	.1	5	4	468	2.11	8	6	ND	7	22	1	3	4	27	.35	.08	27	12	.43	72	.06	9	.81	.03	.14	19	1
AW28-82-249	1	3	7	43	.2	3	3	239	1.51	2	5	ND	8	15	1	3	3	19	.29	.06	33	8	.36	51	.07	7	.72	.03	.13	2	2
AW28-82-253	1	4	8	49	.1	4	4	297	1.89	2	2	ND	15	20	1	2	5	27	.46	.08	60	10	.47	51	.12	6	.88	.04	.16	6	1
AW28-82-255	1	3	8	37	.2	3	4	203	1.53	4	3	ND	11	15	1	2	2	21	.35	.07	43	8	.29	37	.07	7	.60	.03	.08	2	1
AW28-82-257	1	5	8	30	.2	6	2	139	1.10	2	3	ND	5	16	1	2	2	14	.19	.04	17	10	.20	56	.03	4	.50	.03	.12	2	1
AW28-82-259	1	6	66	158	18.2	4	4	241	1.80	14	2	ND	9	18	1	2	3	20	.33	.07	33	6	.32	92	.07	8	.67	.03	.11	2	1
AW28-82-261	1	3	11	77	.2	5	3	378	2.29	2	2	ND	15	32	1	2	2	20	.42	.10	54	8	.45	61	.09	10	.98	.04	.19	2	1
AW28-82-263	1	3	8	55	.4	3	2	279	1.70	2	7	ND	16	24	1	2	2	17	.41	.08	55	4	.36	44	.10	8	.82	.04	.15	2	1
AW28-82-265	1	3	9	47	.4	3	3	266	1.86	3	2	ND	22	31	1	2	2	24	.53	.12	83	6	.44	66	.12	6	.98	.04	.18	2	2
AW28-82-267	1	4	7	52	.1	5	3	314	2.12	2	2	ND	13	37	1	2	2	26	.56	.13	47	9	.52	87	.13	7	1.12	.05	.22	2	1

KIDD CREEK MINES LTD PROJECT # 28 FILE # 82-0434 PAGE # 1.2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Snt ppm
AW28-82-269	1	4	8	62	.1	4	5	361	2.57	2	2	ND	14	33	1	3	4	32	.55	.13	48	8	.61	120	.14	8	1.24	.04	.35	2	1
AW28-82-273	1	4	8	36	.2	3	6	284	1.91	2	5	ND	33	20	1	2	2	30	.58	.11	141	9	.40	29	.15	6	.70	.04	.15	8	2
AW28-82-275	1	4	9	34	.2	2	6	207	1.47	2	4	ND	23	18	1	2	3	23	.47	.11	104	6	.34	29	.09	5	.61	.03	.12	9	1
AW28-82-277	1	8	136	338	12.3	4	6	313	2.08	7	2	ND	22	22	3	2	3	31	.53	.12	102	9	.52	50	.11	9	.84	.03	.16	12	2
AW28-82-279	1	4	15	77	2.5	3	4	300	1.76	4	5	ND	32	23	1	2	2	26	.57	.11	134	6	.38	37	.15	7	.75	.04	.15	12	1
AW28-82-281	1	4	31	91	.9	4	4	312	1.97	2	4	ND	22	23	1	2	2	28	.49	.11	84	10	.44	54	.09	7	.82	.04	.17	2	3
AW28-82-283	1	3	10	50	.2	3	3	295	1.73	5	3	ND	12	17	1	2	2	26	.48	.10	42	8	.47	33	.10	6	.80	.04	.16	2	1
AW28-82-285	1	10	10	50	.2	13	5	335	2.11	5	2	ND	13	24	1	2	4	35	.61	.11	49	17	.61	47	.14	9	.87	.05	.16	8	2
AW28-82-291	9	252	9	57	.5	26	17	291	3.77	21	3	ND	2	27	1	2	4	56	.62	.09	7	34	.67	53	.09	12	1.00	.05	.17	68	1
AW28-82-293	1	8	8	32	.1	5	3	236	1.57	63	2	ND	6	25	1	2	2	29	.40	.06	20	11	.31	29	.08	6	.65	.05	.10	2	1
AW28-82-297	3	16	593	446	35.0	11	5	498	2.52	76	6	ND	12	32	3	8	3	49	1.16	.15	54	20	.60	32	.26	10	.93	.10	.15	3	4
AW28-82-299	2	15	7	17	.3	8	3	311	1.55	2	19	ND	176	19	1	2	2	15	.55	.14	471	13	.29	32	.08	7	.73	.05	.19	45	1
AW28-82-301	1	6	11	20	.4	9	2	359	1.29	2	5	ND	55	9	1	2	2	11	.24	.05	149	12	.21	28	.06	6	.59	.03	.08	4	1
AW28-82-303	2	10	7	20	.2	9	3	367	1.77	2	18	ND	159	20	1	2	2	18	.51	.10	422	17	.35	42	.09	6	.87	.07	.23	16	1
AW28-82-305	2	7	7	23	.2	17	2	271	1.34	2	11	ND	52	17	1	3	2	16	.32	.07	119	17	.38	41	.06	5	.65	.04	.18	7	1
AW28-82-307	2	8	7	25	.2	21	3	217	1.40	2	4	ND	24	27	1	2	2	19	.38	.08	57	19	.39	50	.07	4	.73	.05	.23	2	1
AW28-82-311	1	6	6	44	.2	22	2	74	.89	2	20	ND	23	53	1	2	2	14	1.80	.41	37	20	.29	27	.05	6	1.05	.11	.08	8	1
AW28-82-313	2	10	5	23	.3	18	3	462	1.77	3	13	ND	96	11	1	2	2	22	.55	.18	236	20	.34	58	.07	6	.70	.03	.13	10	2
AW28-82-319	1	3	3	14	.1	6	1	111	.66	2	9	ND	28	21	1	2	2	9	.78	.08	51	11	.13	16	.07	5	.68	.09	.07	22	1
AW28-82-321	1	12	6	26	.2	15	3	137	1.46	2	7	ND	40	48	1	2	3	19	1.41	.33	97	20	.34	52	.07	6	.91	.11	.12	8	3
AW28-82-323	1	7	6	20	.2	14	2	100	.96	2	2	ND	32	25	1	2	2	10	1.19	.16	81	13	.22	24	.08	4	.90	.11	.08	7	2
STD A-1	1	29	41	174	.4	34	12	998	2.87	13	2	ND	2	33	1	4	4	56	.68	.11	8	77	.82	276	.09	13	2.13	.02	.23	2	1

KIDD CREEK MINES LTD PROJECT # 28 FILE # 82-0434 PAGE # 2.1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn* ppm
AW28-82-325	1	6	3	23	.2	12	3	162	1.07	2	2	ND	15	20	1	2	2	18	.71	.21	50	18	.34	42	.06	5	.51	.06	.11	3	1
AW28-82-331	1	5	5	26	.1	15	3	184	1.12	2	7	ND	16	19	1	2	2	17	.47	.09	45	15	.46	62	.06	4	.53	.06	.11	7	1
AW28-82-333	1	10	3	17	.1	14	3	181	1.21	3	2	ND	7	20	1	2	2	21	.59	.06	17	23	.47	65	.07	5	.79	.08	.15	3	1
AW28-82-337	1	4	4	12	.1	11	2	153	.79	2	3	ND	15	9	1	2	2	10	.20	.05	47	9	.28	27	.04	3	.31	.04	.10	2	1
AW28-82-339	1	6	4	17	.2	7	2	138	.88	2	2	ND	11	14	1	2	2	13	.30	.08	36	12	.19	39	.04	3	.42	.05	.13	2	1
AW28-82-343	1	6	7	27	.1	8	3	149	1.36	2	10	ND	15	23	1	2	2	20	.24	.07	55	18	.22	92	.04	7	.51	.04	.13	2	1
AW28-82-345	1	6	10	31	.1	7	3	167	1.35	3	3	ND	7	20	1	2	3	17	.20	.06	23	12	.23	87	.02	5	.51	.05	.14	2	1
AW28-82-347	1	4	7	22	.1	5	3	168	1.58	2	2	ND	37	22	1	2	2	22	.39	.10	145	8	.16	60	.07	6	.47	.04	.10	2	1
AW28-82-349	1	5	4	18	.2	8	4	189	1.32	2	7	ND	29	23	1	2	2	17	.64	.16	98	11	.55	38	.07	7	.58	.06	.11	9	1
AW28-82-351	1	7	8	19	.1	6	3	164	1.25	2	6	ND	12	19	1	2	2	18	.27	.06	33	12	.22	42	.04	7	.45	.05	.14	2	1
AW28-82-353	1	8	5	18	.1	9	4	307	1.60	2	4	ND	24	15	1	2	2	18	.47	.10	80	17	.47	41	.07	8	.77	.05	.18	13	1
AW28-82-355	1	10	5	22	.1	9	4	406	1.84	2	6	ND	23	15	1	2	3	16	.36	.06	73	15	.42	37	.05	6	.84	.04	.13	14	2
AW28-82-357	1	7	4	13	.1	7	5	731	2.62	3	11	ND	64	17	1	2	3	14	.56	.15	190	15	.45	38	.06	11	1.10	.04	.09	13	1
AW28-82-359	1	7	9	29	.1	7	3	175	1.33	2	2	ND	23	18	1	2	2	18	.26	.06	65	15	.29	73	.05	5	.68	.04	.17	5	2
AW28-82-361	1	10	6	14	.1	55	9	259	1.67	2	2	ND	24	19	1	2	2	15	.40	.05	67	53	1.39	31	.04	6	.84	.05	.12	2	1
AW28-82-367	1	6	6	25	.1	7	3	227	1.43	2	5	ND	23	14	1	2	2	17	.30	.08	67	11	.30	56	.06	5	.77	.04	.18	2	1
AW28-82-369	1	6	7	28	.1	24	4	167	1.24	2	3	ND	10	31	1	2	2	17	.36	.10	34	30	.57	62	.04	5	.47	.04	.13	2	1
AW28-82-371	1	7	6	21	.3	25	7	216	1.84	2	4	ND	9	41	1	2	3	31	.39	.09	19	24	.52	47	.06	8	.36	.05	.10	2	1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn# ppm
AW28-82-375	2	25	21	56	.1	17	26	211	4.14	13	6	ND	11	4	1	2	2	27	.08	.04	33	23	.71	42	.09	2	1.24	.01	.15	2	1
AW28-82-377	1	11	13	39	.1	11	11	178	3.02	4	4	ND	10	3	1	2	2	16	.06	.02	44	12	.72	40	.12	6	1.26	.01	.19	2	1
AW28-82-379	1	18	16	48	.1	13	14	164	3.35	10	5	ND	13	3	1	2	2	16	.05	.03	51	21	.69	36	.08	2	1.19	.01	.15	2	1
AW28-82-383	1	26	19	98	.1	22	14	324	3.48	4	4	ND	11	5	1	2	2	14	.07	.02	36	15	.59	68	.06	2	1.40	.02	.23	2	1
AW28-82-385	1	29	30	66	.1	21	21	237	3.11	5	3	ND	10	6	1	2	2	23	.14	.03	31	29	.69	53	.09	2	1.12	.01	.16	2	3
AW28-82-387	1	50	137	172	.5	47	59	392	6.30	21	6	ND	9	13	2	2	3	18	.40	.04	19	14	.66	680	.04	2	.91	.01	.13	10	3
AW28-82-389	1	55	23	66	.1	56	91	364	6.21	24	5	ND	6	14	1	2	3	34	.31	.07	19	42	.88	99	.09	2	1.55	.02	.10	5	1
AW28-82-391	2	53	29	65	.4	26	32	263	4.03	44	5	ND	7	15	1	2	4	15	1.37	.05	15	15	1.21	144	.04	2	.85	.01	.08	52	1
AW28-82-393	1	25	13	43	.1	27	14	238	2.87	25	5	ND	9	5	1	2	2	7	.07	.03	31	32	.60	32	.02	2	1.01	.01	.08	2	1
AW28-82-395	1	43	43	61	.1	39	18	314	3.85	29	6	ND	13	7	1	2	2	8	.06	.04	45	16	.63	53	.02	2	1.07	.01	.13	3	4
AW28-82-399	1	43	23	59	.1	45	22	297	4.55	28	3	ND	12	5	1	2	3	12	.06	.04	29	46	.85	44	.01	2	1.58	.02	.05	2	1
AW28-82-401	1	67	44	59	.2	47	38	328	5.84	61	7	ND	15	9	1	2	6	13	.18	.05	44	26	.69	70	.04	2	1.31	.02	.08	36	2
AW28-82-403	1	19	17	39	.1	18	7	236	2.34	2	2	ND	13	12	1	2	4	21	.26	.03	54	30	.62	33	.12	3	1.04	.02	.08	10	2
AW28-82-405	2	30	44	69	.1	40	19	240	4.54	12	4	ND	9	16	1	2	3	11	.33	.05	40	16	.47	37	.05	4	.89	.03	.11	2	1
AW28-82-407	2	72	129	134	.6	69	87	293	10.11	92	9	ND	10	11	2	2	8	9	.29	.05	13	24	.52	115	.02	2	.87	.01	.05	69	65
AW28-82-409	1	26	59	192	.2	24	23	510	3.28	14	2	ND	9	11	1	2	2	18	.29	.04	41	16	.55	502	.04	2	.90	.01	.12	2	3
AW28-82-411	1	7	8	16	.1	5	6	512	1.24	2	4	ND	28	45	1	2	10	13	.82	.18	121	20	.11	33	.07	4	.57	.03	.06	6	1
AW28-82-413	1	4	18	27	.1	3	4	551	1.21	2	6	ND	15	32	1	2	2	15	.44	.06	71	7	.10	37	.08	2	.52	.03	.05	15	1
AW28-82-415	1	13	7	36	.1	7	6	357	1.64	2	3	ND	8	16	1	2	7	18	.32	.09	30	29	.26	93	.07	2	.72	.04	.26	25	1
AW28-82-417	1	7	5	20	.1	4	6	278	1.36	2	13	ND	9	10	1	2	3	11	.23	.06	39	5	.13	41	.05	3	.39	.03	.09	7	1
AW28-82-419	1	5	4	19	.1	3	2	141	.81	2	2	ND	5	10	1	2	2	15	.26	.04	25	21	.14	32	.05	3	.40	.04	.06	3	2
AW28-82-421	1	22	8	29	.1	15	13	365	2.49	2	3	ND	6	11	1	2	6	30	.57	.07	20	23	.54	46	.08	3	.98	.06	.14	13	1
AW28-82-425	1	18	8	17	.1	12	10	198	1.57	2	11	ND	2	25	1	2	9	18	3.97	.12	8	25	2.25	51	.06	2	.60	.05	.06	21	1
AW28-82-427	1	10	18	93	.1	12	12	322	2.01	2	2	ND	8	3	1	2	2	13	.10	.02	44	9	.46	60	.03	7	1.06	.01	.18	2	1
AW28-82-429	1	20	19	66	.1	22	24	354	3.08	8	4	ND	9	3	1	2	3	16	.12	.02	40	28	.56	65	.06	2	1.04	.01	.13	2	1
AW28-82-431	1	22	23	67	.1	20	24	257	3.05	10	4	ND	9	4	1	2	2	15	.14	.02	34	10	.47	101	.06	7	.90	.02	.18	2	1
AW28-82-433	1	16	33	119	.1	26	18	314	3.37	8	3	ND	9	11	1	2	2	11	.17	.06	39	37	.61	353	.01	2	1.44	.01	.05	2	1
AW28-82-437	1	38	86	175	.5	37	67	401	5.09	26	3	ND	10	18	1	2	3	19	.24	.03	37	15	.49	934	.06	2	.81	.01	.11	2	1
AW28-82-443	1	38	36	72	.1	47	33	237	5.75	33	5	ND	13	8	1	2	4	12	.08	.04	50	38	.78	42	.02	2	1.38	.01	.06	2	1
AW28-82-445	1	58	47	80	.3	52	49	335	7.13	44	8	ND	9	12	1	2	3	17	.24	.06	23	21	.68	171	.04	2	1.17	.02	.08	37	56

KIDD CREEK MINES FILE # 82-0488 PAGE # 6

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn* ppm
AW28-82-447	2	38	24	80	.1	55	28	262	6.16	28	7	ND	11	8	1	2	3	14	.10	.04	37	43	.86	32	.01	2	1.62	.02	.07	16	1
AW28-82-449	1	6	16	25	.1	5	7	222	1.34	2	26	ND	21	38	1	2	3	12	.35	.05	81	5	.12	35	.09	3	.46	.02	.06	22	1
AW28-82-451	1	5	11	19	.1	4	2	159	.88	2	8	ND	13	35	1	2	2	9	.30	.04	57	19	.10	31	.05	3	.41	.02	.06	5	1
AW28-82-453	1	9	18	19	.1	8	9	283	1.81	2	21	ND	21	47	1	2	2	11	.35	.04	84	7	.12	32	.08	2	.47	.02	.06	4	1
AW28-82-455	1	5	17	19	.2	4	4	223	1.06	2	22	ND	18	42	1	2	2	9	.35	.05	71	22	.08	26	.06	2	.42	.02	.06	11	1
AW28-82-457	1	6	16	31	.1	4	5	178	1.12	2	15	ND	13	26	1	2	2	7	.21	.03	47	4	.09	32	.04	2	.40	.02	.06	23	1
AW28-82-461	1	99	14	41	.3	41	117	316	6.64	25	6	ND	6	18	2	2	3	75	.51	.09	23	47	1.19	53	.10	2	1.73	.04	.13	2	1
STD A-1	1	30	40	176	.3	35	13	968	2.76	8	2	ND	2	31	2	2	3	56	.67	.10	9	77	.79	293	.09	4	2.01	.02	.17	2	1
AW28-82-465	1	66	7	32	.1	25	67	216	3.80	9	3	ND	3	10	1	2	2	63	.42	.07	10	28	.93	39	.08	2	1.28	.03	.06	2	1
AW28-82-467	1	11	75	26	.4	7	24	279	2.51	10	3	ND	38	42	1	2	2	37	1.04	.11	146	11	.42	30	.13	2	.89	.08	.10	76	1
AW28-82-469	1	12	9	21	.6	9	22	330	2.76	2	5	ND	39	41	1	2	2	48	1.25	.11	170	15	.52	29	.15	2	1.07	.11	.11	2	2
AW28-82-473	1	22	16	19	.1	11	24	189	2.16	3	2	ND	13	24	1	2	2	35	.70	.08	53	10	.45	51	.08	2	.84	.06	.10	3	1
AW28-82-475	1	8	7	12	.1	5	10	211	1.39	2	3	ND	24	33	1	2	2	22	.86	.10	98	7	.29	31	.07	2	.72	.06	.09	2	1
AW28-82-477	1	15	29	17	.1	10	15	271	2.18	3	2	ND	17	35	1	2	2	31	.98	.07	73	9	.43	112	.09	2	.90	.08	.10	2	4
AW28-82-479	1	12	5	17	.1	9	13	205	1.69	3	2	ND	5	21	1	2	2	17	.45	.05	22	10	.31	65	.06	2	.78	.03	.13	53	3
AW28-82-481	1	9	4	15	.1	6	8	322	1.39	5	3	ND	14	31	1	2	2	16	.60	.08	95	8	.20	57	.09	2	.67	.05	.11	40	1
AW28-82-485	1	14	11	14	.1	11	28	389	2.58	3	4	ND	23	67	1	2	4	29	.85	.17	163	12	.26	242	.12	2	.64	.04	.13	35	5

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
SN* ANALYSIS BY AA FROM 1.00 GRAM SAMPLE. SAMPLE TYPE - PAN CONCENTRATE

DATE RECEIVED JULY 30 1982 DATE REPORTS MAILED Aug 6/82 ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

KIDD CREEK PROJECT # 28 FILE # 82-0716

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn* ppm
AW28-82-491	1	4	3	19	.1	7	3	191	.81	2	2	ND	5	5	1	2	2	7	.09	.03	15	15	.16	25	.02	2	.38	.01	.06	10	1
AW28-82-493	1	1	1	8	.1	2	1	73	.33	2	2	ND	3	3	1	2	2	3	.07	.02	10	1	.05	14	.01	2	.21	.01	.03	5	1
AW28-82-495	2	4	2	12	.1	8	2	228	.74	2	2	ND	9	5	1	2	2	6	.08	.02	31	50	.11	26	.02	2	.39	.02	.06	6	1
AW28-82-497	1	4	3	16	.1	6	1	182	.69	2	2	ND	6	4	1	2	2	5	.11	.02	16	36	.10	24	.02	2	.31	.02	.05	3	1
AW28-82-501	1	3	3	17	.1	4	2	189	1.04	2	2	ND	16	11	1	2	2	12	.25	.07	43	7	.20	30	.02	2	.50	.03	.05	15	1
AW28-82-503	1	5	6	33	.1	101	19	382	2.43	2	2	ND	10	20	1	2	2	26	.36	.08	23	51	2.60	205	.09	2	.75	.04	.06	14	1
AW28-82-505	1	4	3	19	.1	48	9	247	1.42	2	2	ND	10	17	1	2	2	16	.30	.08	26	22	1.22	233	.05	2	.47	.02	.05	17	1
AW28-82-507	1	11	5	41	.1	66	14	359	2.54	3	2	ND	5	57	1	2	2	30	.75	.07	13	65	1.84	199	.14	2	1.39	.18	.17	2	1
AW28-82-509	1	7	3	45	.1	123	29	496	3.87	2	2	ND	3	46	1	2	2	31	.72	.05	7	77	4.38	103	.14	2	1.26	.28	.09	2	1
AW28-82-511	1	4	6	22	.1	6	3	184	1.42	3	2	ND	31	17	1	2	2	26	.56	.16	142	28	.26	54	.09	2	.64	.03	.09	20	1
AW28-82-515	1	6	4	19	.1	10	6	187	1.96	3	2	ND	16	26	1	2	2	36	.42	.09	61	25	.36	77	.07	2	.70	.03	.11	2	1
AW28-82-517	1	14	6	28	.1	14	12	246	2.43	10	2	ND	12	42	1	2	2	48	.83	.12	66	45	.66	146	.12	2	1.09	.04	.14	2	1
AW28-82-521	1	5	5	22	.1	18	5	188	1.41	2	2	ND	23	29	1	2	2	26	.61	.16	97	23	.56	115	.09	2	.59	.04	.11	8	1
AW28-82-523	1	4	3	15	.1	6	2	306	.98	2	2	ND	22	11	1	2	2	10	.29	.06	68	26	.20	25	.03	2	.52	.02	.03	4	1
AW28-82-525	1	15	11	176	.1	35	6	321	2.08	2	2	ND	8	49	1	2	2	27	.76	.07	24	52	.56	70	.12	2	1.70	.10	.15	24	1
AW28-82-529	1	8	7	36	.1	9	5	274	1.15	2	2	ND	10	16	1	2	2	14	.35	.05	30	34	.29	97	.04	2	.68	.03	.04	5	2
AW28-82-531	1	8	119	172	.1	9	4	253	1.32	2	2	ND	7	23	1	2	2	14	.62	.11	20	13	.24	305	.06	2	.67	.03	.06	2	1
AW28-82-533	1	6	4	19	.1	6	2	409	1.12	2	8	ND	31	11	1	2	2	12	.35	.09	82	26	.19	27	.03	2	.52	.03	.04	9	1
AW28-82-535	1	4	7	53	.1	6	2	291	1.04	2	2	ND	11	22	1	2	2	12	.38	.08	34	9	.20	32	.04	2	.66	.04	.05	3	2
AW28-82-537	1	5	2	18	.1	7	3	133	.78	2	2	ND	4	4	1	2	2	7	.08	.02	8	21	.17	14	.01	2	.41	.01	.04	2	2
AW28-82-539	1	17	6	25	.1	8	5	212	1.38	2	2	ND	3	7	1	2	2	14	.14	.02	13	11	.26	18	.03	2	.56	.02	.05	2	1
AW28-82-541	2	68	20	109	.1	21	14	466	2.55	4	2	ND	13	11	1	2	2	17	.19	.03	25	34	.55	38	.05	2	1.16	.02	.09	3	1
AW28-82-543	1	20	4	21	.1	18	10	352	2.15	3	3	ND	6	13	1	2	10	22	.31	.06	20	17	.48	36	.04	2	.61	.03	.05	29	1
AW28-82-545	1	9	4	19	.1	9	6	198	1.20	2	3	ND	5	12	1	2	2	18	.27	.05	15	30	.33	40	.03	2	.61	.03	.04	2	4
AW28-82-547	1	7	3	16	.1	9	9	235	1.71	2	2	ND	5	10	1	2	2	20	.21	.04	16	15	.27	34	.04	2	.57	.03	.04	2	2
AW28-82-549	1	7	3	15	.1	5	3	171	.85	2	2	ND	7	10	1	2	2	12	.29	.09	18	18	.20	28	.02	2	.39	.02	.04	2	1
AW28-82-551	1	8	4	21	.1	11	7	281	1.57	2	2	ND	8	19	1	2	2	20	.40	.06	27	21	.39	56	.05	2	.76	.03	.04	2	1
AW28-82-553	1	16	290	30	.1	17	17	227	1.87	2	2	ND	5	14	1	2	2	28	.33	.08	18	47	.54	134	.05	3	.81	.03	.04	4	2
AW28-82-555	1	8	4	22	.1	8	5	258	1.44	2	2	ND	7	20	1	2	2	21	.33	.04	20	16	.49	54	.04	2	.92	.03	.04	2	1
AW28-82-557	1	5	5	22	.1	7	3	451	1.03	3	2	ND	17	11	1	2	2	11	.39	.10	50	28	.21	24	.04	2	.52	.03	.04	7	1
AW28-82-559	1	8	6	36	.1	10	4	261	1.29	4	2	ND	4	8	1	2	2	11	.15	.03	12	11	.30	22	.02	2	.59	.02	.05	4	1
AW28-82-561	1	10	5	37	.1	16	5	222	1.41	2	3	ND	6	17	1	2	2	21	.31	.03	18	38	.39	48	.07	2	.94	.03	.08	14	1
AW28-82-563	1	5	2	26	.1	8	4	221	1.14	2	3	ND	7	16	1	2	2	16	.23	.05	17	9	.30	95	.04	2	.61	.03	.08	5	4
AW28-82-565	1	5	2	15	.1	7	2	182	.64	2	3	ND	6	9	1	2	2	8	.15	.03	18	25	.14	28	.03	2	.38	.02	.04	3	2
AW28-82-567	4	9	2	25	.1	13	4	324	1.36	2	2	ND	9	13	1	2	2	13	.19	.05	25	13	.24	58	.04	2	.54	.02	.11	9	1
AW28-82-567A	1	6	4	20	.1	10	5	178	1.54	2	2	ND	13	25	1	2	2	29	.45	.09	73	35	.41	77	.08	2	.73	.03	.10	2	1
AW28-82-569	1	5	5	16	.1	8	5	198	1.28	2	2	ND	9	18	1	2	2	21	.36	.09	42	17	.27	55	.06	2	.56	.02	.10	7	1
AW28-82-571	1	6	6	22	.1	10	5	195	1.61	2	2	ND	8	30	1	2	2	33	.40	.08	42	34	.43	108	.09	2	.85	.03	.13	3	2
STD A-1	1	30	39	174	.3	33	12	979	2.72	8	2	ND	2	35	2	2	2	54	.65	.10	8	72	.75	289	.09	5	1.97	.02	.17	2	1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn# ppm
AW28-82-573	1	10	5	20	.1	10	7	264	1.43	3	2	ND	12	33	1	2	2	25	.75	.18	47	17	.35	74	.08	2	.72	.05	.11	12	1
AW28-82-575	1	9	6	20	.1	9	5	230	1.42	4	2	ND	15	30	1	2	2	20	.63	.15	76	16	.32	63	.08	2	.78	.04	.11	26	1
AW28-82-577	1	16	14	40	.2	17	7	423	2.16	10	4	ND	17	36	1	2	2	29	.63	.11	53	34	.47	92	.11	2	1.10	.08	.15	11	1
AW28-82-579	1	20	13	71	.2	16	5	320	1.63	2	5	ND	17	18	1	2	2	16	.43	.11	47	19	.31	58	.05	2	.71	.03	.10	14	1
AW28-82-581	1	10	4	25	.1	10	5	378	1.45	2	4	ND	27	18	1	2	2	16	.48	.14	69	17	.26	63	.05	2	.63	.04	.09	27	1
AW28-82-583	1	8	3	17	.1	9	4	276	1.10	2	2	ND	16	26	1	2	2	12	.48	.15	47	14	.22	67	.03	2	.54	.04	.07	9	1
AW28-82-585	1	7	3	16	.1	9	3	430	1.14	2	6	ND	23	20	1	2	2	13	.43	.11	68	17	.21	47	.05	2	.60	.04	.07	59	3
AW28-82-587	1	8	3	15	.1	9	3	614	1.12	2	14	ND	29	16	1	2	2	13	.32	.08	78	12	.19	53	.05	2	.55	.03	.06	36	2
AW28-82-589	1	7	3	23	.1	8	3	361	1.08	2	8	ND	35	11	1	2	2	11	.22	.07	105	14	.19	55	.04	2	.52	.03	.07	88	1
AW28-82-591	1	7	4	20	.1	9	4	241	1.04	2	6	ND	11	12	1	2	2	12	.32	.10	28	13	.23	55	.04	2	.50	.03	.08	14	1
AW28-82-593	1	38	8	61	.1	53	21	350	3.03	20	2	ND	5	38	1	2	2	28	1.06	.12	15	62	.84	295	.03	2	1.07	.03	.05	3	2
AW28-82-595	2	66	95	66	.3	40	36	417	5.81	97	3	ND	11	25	2	2	2	15	.57	.15	22	17	.40	99	.03	2	.68	.02	.04	29	1
AW28-82-597	1	27	24	49	.2	27	18	348	3.14	19	8	ND	13	32	1	2	2	19	.71	.13	41	20	.39	62	.05	2	.66	.03	.05	22	1
AW28-82-599	1	11	8	24	.1	7	4	364	1.45	4	2	ND	23	15	1	2	2	13	.46	.10	76	10	.27	29	.07	3	.59	.02	.03	6	2
AW28-82-601	1	21	22	73	.1	8	7	444	2.06	6	2	ND	13	18	1	2	2	12	.57	.08	45	9	.30	44	.06	2	.54	.02	.04	10	8
AW28-82-603	5	87	80	114	.4	24	34	383	5.85	43	2	ND	7	70	2	2	2	17	.51	.10	34	10	.64	106	.03	2	.87	.02	.04	2	1

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE. SN* ANALYSIS BY AA FROM 1.00 GRAM SAMPLE. SAMPLE TYPE - PAN CONCENTRATE

DATE RECEIVED NOV 3 1982 DATE REPORTS MAILED Nov 9/82 ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

KIDD CREEK PROJECT # 28 FILE # 82-1472 PAGE # 1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb	Sn* ppm
AW28-82-801	2	8	2	19	.1	3	3	165	1.02	2	2	ND	70	14	1	2	26	13	.25	.05	107	6	.12	28	.09	3	.34	.04	.09	219	30	1
AW28-82-803	3	9	2	18	.2	4	3	156	.94	4	2	ND	77	13	1	2	9	13	.24	.05	101	5	.11	27	.09	2	.33	.04	.09	221	5	2
AW28-82-805	127	426	308	776	5.9	32	98	2022	17.75	1891	3	4	7	43	6	17	67	21	2.23	.08	7	10	.95	33	.02	2	.66	.02	.06	3166	490	9
AW28-82-807	143	438	299	808	6.5	33	103	1999	18.69	2282	4	5	7	40	5	20	79	21	2.18	.07	6	8	.93	29	.02	2	.64	.01	.05	3620	420	14
AW28-82-809	3	13	20	65	.6	5	6	306	1.67	28	2	ND	46	26	1	2	2	21	.46	.07	93	8	.30	44	.11	3	.59	.05	.12	62	1490	3
AW28-82-811	3	12	17	60	.4	5	5	289	1.55	24	2	ND	43	25	1	2	2	19	.41	.06	84	8	.29	43	.10	3	.59	.05	.12	50	30	1
AW28-82-813	1	23	11	47	.3	28	18	312	3.10	17	2	ND	75	23	1	2	3	29	.39	.09	61	41	.79	40	.04	2	1.11	.03	.08	6	20	1
AW28-82-815	2	58	14	67	.3	29	20	314	3.21	17	2	ND	73	23	1	2	3	30	.40	.10	64	41	.81	42	.04	2	1.11	.03	.08	3	5	1
AW28-82-817	1	61	88	131	.7	55	58	320	7.61	69	2	ND	12	14	1	4	7	11	.27	.05	12	16	.55	147	.01	3	.89	.01	.09	24	30	4
AW28-82-819	1	59	87	123	.7	55	59	323	7.94	72	2	ND	12	14	1	2	9	13	.26	.05	14	16	.54	141	.01	2	.92	.01	.09	24	20	1
AW28-82-821	98	313	462	1355	2.1	30	61	2678	9.37	828	5	ND	6	59	9	5	62	19	3.16	.08	6	10	1.44	73	.02	2	.75	.02	.10	1370	420	1
AW28-82-823	80	283	439	1231	1.9	27	55	2572	8.57	662	6	ND	6	58	8	2	56	19	3.07	.08	6	11	1.37	76	.02	2	.75	.02	.11	1197	490	2
STD A-1	1	31	40	177	.4	34	12	1019	2.62	14	2	ND	3	39	2	2	2	58	.58	.10	8	72	.77	282	.08	7	1.82	.02	.21	2	5	1

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
SN: ANALYSIS BY AA FROM 1.00 GRAM SAMPLE. SAMPLE TYPE - PAN CONCENTRATE

DATE RECEIVED AUG 25 1982 DATE REPORTS MAILED Sept 1/82 ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

KIDD CREEK PROJECT # 28 FILE # 82-0938 PAGE # 1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn* ppm
AW28-82-907	1	22	27	85	.1	13	8	282	3.54	46	2	ND	8	6	1	2	2	16	.09	.03	20	22	.40	53	.04	4	1.08	.01	.24	2	4
AW28-82-1003	1	12	7	31	.1	10	6	191	1.58	2	2	ND	8	53	1	2	3	34	.66	.09	30	21	.43	76	.11	2	.79	.04	.11	116	1
AW28-82-1005	1	28	9	39	.1	17	12	264	2.58	3	2	ND	7	77	1	2	5	63	.93	.12	22	37	.73	134	.12	2	1.12	.04	.16	66	1
AW28-82-1007	1	29	8	37	.2	17	13	247	2.62	4	2	ND	9	73	1	2	4	63	.90	.12	22	35	.69	124	.11	3	1.05	.04	.15	114	1

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
Sn: ANALYSIS BY AA FROM 1.00 GRAM SAMPLE. SAMPLE TYPE - PAN CONCENTRATE W* ANALYSIS BY AA AS CHECK FOR INITIAL BATCH ONLY

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn ppm	W* ppm
CL28-82 1																																
2	16	15	54	.1	22	10	380	2.88	4	3	ND	8	23	1	5	2	18	.18	.04	25	61	.50	651	.06	7	1.34	.03	.29	2	1	
CL28-82 3																																
1	10	11	45	.1	20	10	236	2.28	3	2	ND	7	10	1	4	2	9	.14	.05	19	30	.49	54	.01	6	1.07	.01	.10	2	1	
CL28-82 5																																
1	14	22	45	.1	36	12	289	2.59	5	2	ND	10	15	1	5	2	11	.21	.06	31	36	.69	81	.01	5	1.23	.02	.11	2	1	
CL28-82 7																																
2	4	4	10	.1	8	6	164	1.16	2	2	ND	5	4	1	2	2	6	.04	.01	12	55	.09	33	.02	3	.34	.01	.06	2	4	
CL28-82 9																																
1	4	3	8	.1	7	4	77	.93	2	2	ND	5	4	1	2	2	4	.04	.01	11	37	.09	26	.01	3	.21	.01	.05	2	2	
CL28-82 11																																
2	9	7	26	.1	16	9	142	1.85	4	2	ND	6	7	1	4	2	7	.09	.03	14	45	.27	43	.01	4	.59	.01	.07	2	3	
CL28-82 13																																
1	7	8	32	.1	16	6	124	1.54	2	3	ND	5	7	1	3	2	11	.10	.03	16	36	.34	54	.02	3	.79	.01	.12	2	4	
CL28-82 15																																
1	8	9	28	.1	13	7	148	1.48	3	2	ND	5	15	1	3	2	13	.21	.04	15	27	.34	149	.03	3	.74	.02	.09	2	2	
CL28-82 17																																
1	10	12	27	.1	21	9	290	1.92	5	2	ND	6	23	1	3	2	16	.43	.10	16	31	.50	68	.04	5	.91	.03	.13	2	1	
CL28-82 19																																
1	8	11	25	.1	13	7	152	1.52	2	3	ND	5	13	1	3	2	13	.17	.03	15	35	.31	59	.03	6	.73	.02	.10	2	1	
CL28-82 21																																
1	6	5	14	.1	8	4	117	1.05	2	2	ND	4	7	1	3	2	9	.08	.02	13	37	.14	70	.04	2	.40	.01	.07	2	2	
CL28-82 23																																
1	8	4	13	.1	11	5	116	1.22	2	2	ND	4	11	1	3	2	11	.12	.02	13	41	.26	87	.04	3	.57	.02	.11	2	4	
CL28-82 25																																
1	13	58	99	.1	16	10	516	1.89	4	2	ND	6	13	1	5	2	11	.13	.04	17	33	.33	67	.03	5	.78	.01	.15	2	18	
CL28-82 29																																
3	58	152	250	2.0	22	7	166	2.76	16	4	ND	6	25	4	6	5	117	3.94	.30	14	27	2.22	63	.04	6	.82	.01	.15	10	1	12
CL28-82 31																																
5	41	37	580	.5	32	7	208	2.91	14	7	ND	10	27	5	9	2	122	.59	.18	20	31	.54	191	.10	5	1.05	.03	.26	2	2	
CL28-82 39																																
2	18	1767	967	1.6	19	9	138	2.16	11	3	ND	36	22	4	11	2	41	.57	.11	56	25	.36	143	.05	6	.62	.03	.09	4	1	
CL28-82 43																																
1	10	25	49	.2	23	8	161	1.50	9	2	ND	35	15	1	4	2	22	.25	.05	61	23	.25	68	.06	5	.62	.02	.06	6	3	9
CL28-82 45																																
3	21	14	169	.3	19	6	134	2.06	9	6	ND	37	21	2	5	2	57	.42	.11	75	25	.33	143	.06	5	.71	.03	.09	6	1	9

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn* ppm
CL28-82-51	1	17	8	28	.1	17	12	231	2.58	4	2	ND	7	5	1	2	2	33	.14	.02	32	21	.72	72	.08	2	1.16	.01	.15	2	1
CL28-82-53	1	8	6	25	.1	12	10	135	1.88	5	2	ND	8	3	1	2	2	8	.06	.02	30	9	.59	55	.01	2	.81	.01	.10	2	1
CL28-82-55	1	9	11	27	.1	14	13	125	2.46	7	2	ND	7	3	1	2	2	12	.06	.02	31	12	.63	59	.02	2	.89	.02	.12	2	1
CL28-82-57	1	25	20	63	.1	29	16	318	3.77	18	2	ND	7	12	1	2	3	12	.16	.05	42	25	.59	84	.01	2	1.42	.02	.13	4	1
CL28-82-59	1	36	22	68	.1	29	23	302	3.95	25	2	ND	9	7	1	2	3	31	.12	.04	40	23	.76	76	.03	2	1.41	.01	.16	2	2
CL28-82-61	1	60	30	62	.1	38	55	336	5.94	36	2	ND	10	9	1	2	4	85	.32	.04	27	22	.96	69	.20	2	1.58	.01	.10	2	4
CL28-82-63	1	27	26	51	.1	20	18	297	3.84	43	2	ND	7	3	1	9	2	18	.05	.03	37	10	.41	55	.01	2	.98	.01	.14	2	1
CL28-82-65	1	33	24	62	.1	29	33	312	4.29	26	4	ND	6	4	1	7	3	60	.08	.02	31	30	1.00	63	.03	2	1.59	.01	.11	2	1
CL28-82-67	1	52	28	62	.1	33	43	365	4.76	13	3	ND	6	10	1	2	2	100	.36	.03	20	36	1.27	71	.23	2	1.99	.01	.08	2	4
CL28-82-69	1	33	24	56	.1	28	31	278	4.16	27	2	ND	7	5	1	3	2	52	.11	.03	33	34	.83	67	.04	2	1.38	.01	.10	2	3
CL28-82-71	1	14	25	64	.1	30	14	261	3.62	22	3	ND	7	11	1	2	2	9	.11	.05	83	25	.70	58	.01	2	1.55	.02	.07	32	1
CL28-82-73	2	29	25	68	.1	32	18	291	3.90	22	2	ND	7	11	1	2	4	14	.17	.05	48	39	.57	78	.01	2	1.42	.02	.12	20	2
CL28-82-77	1	11	18	53	.1	29	18	333	3.63	15	2	ND	7	14	1	2	2	7	.19	.08	49	22	.57	57	.01	2	1.34	.01	.07	5	1
CL28-82-79	2	38	36	75	.1	37	28	327	4.87	37	3	ND	7	10	1	2	5	12	.17	.06	62	32	.56	87	.01	2	1.29	.01	.08	48	1
CL28-82-81	1	8	5	14	.1	12	13	182	1.52	2	2	ND	8	44	1	2	2	28	.63	.10	32	18	.52	45	.08	2	.72	.07	.06	3	1
CL28-82-83	1	4	8	14	.1	7	5	195	1.14	2	2	ND	19	27	1	2	2	17	.46	.06	70	26	.32	34	.07	2	.76	.03	.10	2	1
CL28-82-85	1	5	7	14	.1	10	8	247	2.26	2	3	ND	23	49	1	2	2	58	.81	.07	93	34	.47	34	.16	2	.85	.07	.09	3	1
CL28-82-87	1	4	7	14	.1	9	4	179	1.29	2	2	ND	16	45	1	2	2	32	.72	.07	61	47	.43	35	.11	2	.81	.07	.09	2	1
CL28-82-89	1	45	19	72	.1	37	24	482	4.77	12	3	ND	6	18	1	2	2	50	.42	.06	26	36	1.08	55	.08	2	1.68	.04	.10	2	1
CL28-82-91	1	17	9	24	.1	14	9	270	2.00	7	2	ND	21	48	1	2	2	28	.90	.07	86	36	.48	33	.09	2	1.17	.06	.10	2	1
CL28-82-93	1	8	6	23	.1	9	5	206	1.37	3	2	ND	3	35	1	2	2	17	.63	.05	16	18	.49	60	.07	2	1.11	.04	.08	19	2
CL28-82-95	1	10	9	21	.1	12	8	195	1.74	18	3	ND	18	34	1	2	2	18	.51	.05	71	36	.36	31	.08	2	.89	.05	.08	2	1
CL28-82-97	1	41	6	29	.1	13	19	221	2.29	6	2	ND	7	32	1	2	2	42	.83	.09	29	15	.63	37	.10	2	1.22	.07	.08	2	1
CL28-82-99	1	8	6	16	.1	7	6	163	1.05	2	2	ND	5	34	1	2	2	13	.55	.04	15	28	.38	54	.06	2	.99	.06	.11	9	1

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
SN% ANALYSIS BY AA FROM 1.00 GRAM SAMPLE. SAMPLE TYPE - PAN CONCENTRATE

DATE RECEIVED JULY 26 1982 DATE REPORTS MAILED July 30/82 ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

KIDD CREEK PROJECT # 28 FILE # 82-0640 PAGE # 1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn% ppm
CL28-82-101	1	8	13	42	.1	8	8	364	2.10	2	2	ND	19	73	1	2	2	18	.74	.10	25	18	.74	60	.07	2	1.60	.02	.05	6	1
CL28-82-103	1	8	7	25	.1	5	10	259	1.67	2	2	ND	6	68	1	2	2	20	.82	.09	25	6	.49	46	.06	3	1.18	.03	.05	6	1
CL28-82-105	1	3	7	17	.1	4	5	193	1.12	3	2	ND	11	41	1	2	2	22	.72	.12	40	12	.35	35	.07	2	.81	.05	.08	2	1
CL28-82-107	1	5	5	18	.1	10	4	216	1.53	2	2	ND	7	10	1	2	2	11	.13	.02	26	17	.40	34	.04	2	.77	.01	.06	2	1
CL28-82-109	1	6	5	16	.1	5	9	201	1.33	3	2	ND	9	52	1	2	3	21	.79	.09	40	16	.35	44	.07	2	.84	.04	.06	9	1
CL28-82-111	1	2	12	18	.1	3	8	230	1.60	2	2	ND	25	45	1	2	2	24	.66	.06	87	9	.29	27	.13	2	.74	.04	.06	2	2
CL28-82-113	1	5	122	42	.3	3	11	186	1.69	10	2	ND	25	38	1	2	2	26	.64	.09	85	18	.26	20	.09	2	.63	.03	.05	103	1
CL28-82-115	1	4	8	12	.1	4	11	159	1.51	2	2	ND	17	33	1	2	2	20	.44	.06	55	11	.24	25	.07	2	.57	.03	.05	2	3
CL28-82-119	1	14	49	21	.3	6	11	280	1.70	14	21	ND	93	31	1	2	13	17	.67	.19	216	6	.14	45	.10	2	.38	.03	.05	42	1
CL28-82-121	1	5	14	15	.1	3	3	171	1.63	3	60	ND	525	41	1	2	2	38	.92	.25	396	14	.18	35	.15	2	.43	.03	.04	6	1
CL28-82-123	2	6	13	12	.1	4	2	176	1.79	3	77	ND	623	42	1	2	2	43	.94	.24	502	20	.16	29	.18	2	.40	.03	.03	31	1
CL28-82-125	1	15	19	23	.2	6	12	222	2.05	2	3	ND	89	73	1	2	2	28	.99	.11	150	9	.40	123	.11	2	1.07	.04	.10	7	1
CL28-82-127	1	4	5	23	.1	3	3	255	1.24	2	2	ND	21	51	1	2	2	21	.52	.09	52	4	.26	44	.08	2	.67	.04	.08	2	1
CL28-82-129	1	14	13	13	.1	6	15	145	1.72	3	2	ND	17	77	1	2	2	20	1.73	.04	82	8	.52	2126	.09	2	.47	.03	.08	52	1
CL28-82-131	2	86	133	82	1.0	56	104	344	8.83	92	2	2	56	33	1	2	6	41	.73	.07	108	14	.72	1645	.12	2	.77	.01	.10	25	1
CL28-82-133	1	24	14	39	.1	13	8	221	2.13	5	2	ND	5	9	1	2	2	34	.32	.01	16	21	.45	75	.11	4	1.06	.03	.11	2	1
CL28-82-135	1	58	18	51	.1	21	27	271	3.63	14	2	ND	4	9	1	2	2	85	.46	.02	15	16	.75	52	.15	2	1.36	.04	.09	2	1
CL28-82-137	1	42	21	50	.2	20	22	283	3.56	14	2	ND	6	9	1	2	2	66	.42	.02	18	18	.64	52	.14	2	1.21	.03	.10	2	1
CL28-82-139	1	41	27	72	.2	27	21	418	4.38	19	2	ND	8	12	1	2	2	45	.21	.03	32	18	.74	72	.09	2	1.46	.01	.13	2	1
CL28-82-171	2	42	71	78	.5	40	60	335	6.23	42	2	ND	5	10	1	2	13	14	.50	.03	12	11	.96	586	.02	4	.89	.01	.18	7	1
CL28-82-173	1	42	45	44	.3	30	34	426	4.08	134	2	ND	5	6	1	2	5	6	.20	.03	14	6	.31	407	.01	4	.51	.01	.16	2	1
CL28-82-175	2	24	30	106	.2	22	22	496	3.15	41	2	ND	4	8	1	2	2	6	.24	.02	11	7	.53	586	.01	3	.66	.01	.15	2	2
CL28-82-177	3	80	110	94	1.2	69	106	309	10.05	98	3	2	6	10	1	2	10	16	.30	.04	10	13	.69	215	.03	2	.80	.01	.12	20	2
CL28-82-179	1	32	40	67	.2	23	24	218	3.55	32	2	ND	5	10	1	2	2	7	.20	.03	11	7	.70	539	.01	3	.86	.01	.13	3	1
CL28-82-183	1	14	21	36	.1	21	16	248	2.64	25	2	ND	5	4	1	2	2	12	.07	.03	33	15	.39	66	.01	3	.71	.01	.12	2	1
CL28-82-185	1	30	22	48	.1	19	14	264	3.12	36	2	ND	8	5	1	2	2	25	.09	.03	21	20	.95	60	.03	2	1.37	.01	.15	2	1
CL28-82-187	1	19	16	41	.1	19	13	215	3.08	41	2	ND	7	5	1	2	2	29	.12	.02	23	18	.94	46	.04	2	1.44	.01	.13	2	1
CL28-82-189	1	28	27	68	.1	21	15	345	4.09	70	2	ND	10	10	1	2	3	26	.16	.03	27	16	.75	69	.09	2	1.42	.01	.23	2	1
CL82-82-191	1	21	29	59	.1	19	18	263	3.37	26	2	ND	7	5	1	2	3	21	.12	.03	22	13	.70	85	.04	2	1.09	.01	.14	3	1
CL28-82-193	1	14	17	70	.1	16	9	222	2.77	17	2	ND	9	5	1	2	2	9	.06	.03	37	14	.86	63	.01	2	1.38	.01	.13	2	1
CL28-82-197	3	22	20	103	.3	16	18	298	3.20	21	2	ND	7	7	1	2	16	23	.09	.03	20	14	.68	43	.02	2	1.13	.01	.12	17	1
CL28-82-199	1	24	18	66	.1	19	15	436	3.32	35	2	ND	7	7	1	2	2	30	.15	.03	32	15	.60	56	.04	3	1.18	.02	.13	2	1
CL28-82-201	1	21	14	45	.1	13	8	229	2.26	14	2	ND	6	7	1	2	2	26	.23	.02	20	15	.53	48	.07	2	1.03	.02	.15	2	1
CL28-82-203	1	27	19	50	.1	15	10	254	2.58	15	2	ND	6	7	1	2	2	29	.22	.02	19	16	.53	48	.08	2	1.08	.02	.13	2	1
CL28-82-205	2	42	14	67	.3	25	25	309	4.35	37	2	ND	15	11	1	2	4	26	.30	.04	45	29	1.00	129	.10	4	1.57	.02	.44	26	1
CL28-82-207	4	11	7	30	.1	13	6	167	2.00	3	2	ND	11	50	1	2	5	18	.52	.05	37	13	.43	50	.06	2	1.08	.05	.20	26	1
STD A-1	1	30	42	179	.4	35	13	992	2.73	9	2	ND	2	39	2	2	2	59	.66	.10	9	73	.82	321	.09	4	2.02	.02	.17	2	1

KIDD CREEK PROJECT# 28 FILE# 82-0640

82F/16

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Snt ppm
CL28-82-209	1	16	14	42	.1	16	22	260	2.64	5	2	ND	27	9	1	2	4	18	.18	.02	29	25	.81	53	.09	4	1.06	.01	.22	14	1
CL28-82-211	1	25	20	29	.5	25	43	246	3.78	9	2	ND	8	9	1	2	5	15	.49	.03	16	14	1.01	267	.06	4	1.06	.02	.35	16	1
CL28-82-215	4	23	15	40	.1	20	32	270	3.29	11	2	ND	9	6	1	2	23	15	.20	.03	17	15	.80	88	.07	4	1.17	.03	.39	110	5
CL28-82-217	6	30	31	44	.6	11	33	203	2.84	128	8	2	82	41	1	2	18	27	.59	.13	282	13	.47	80	.14	4	.74	.02	.29	262	1
CL28-82-219	2	25	22	40	.3	16	48	194	3.22	14	6	ND	41	26	1	2	5	24	.38	.07	150	14	.45	51	.14	4	.72	.02	.21	58	1
CL28-82-221	2	24	19	38	.3	16	35	160	3.00	21	2	ND	32	20	1	2	9	21	.31	.08	103	11	.38	52	.09	3	.65	.01	.19	70	1
CL28-82-223	2	20	33	51	.1	43	20	242	2.78	16	3	ND	30	18	1	2	4	20	.24	.05	89	31	.95	61	.09	4	.80	.01	.22	51	1
CL28-82-225	2	35	23	29	.3	28	46	199	3.42	20	2	ND	17	15	1	2	3	35	.33	.05	60	35	.53	70	.13	4	.71	.02	.14	65	3
CL28-82-229	1	30	20	49	.1	16	15	262	2.86	8	2	ND	5	7	1	2	2	62	.31	.03	11	19	.79	28	.15	3	1.26	.02	.11	2	2
CL28-82-231	4	21	19	29	.2	16	37	216	3.13	11	5	ND	26	9	1	2	21	10	.16	.04	42	8	.30	59	.05	4	.55	.02	.13	79	54
CL28-82-233	1	24	17	50	.1	16	22	248	2.70	13	2	ND	10	4	1	2	4	11	.13	.03	23	11	.46	58	.04	4	.79	.01	.16	2	9
CL28-82-235	1	20	9	32	.1	16	26	250	2.04	9	2	ND	11	5	1	2	2	10	.12	.02	23	17	.58	54	.02	4	.79	.01	.16	2	4
CL28-82-237	1	202	25	110	.1	24	22	285	3.78	65	2	ND	12	5	1	2	4	22	.12	.03	24	17	.60	35	.04	4	1.09	.01	.13	4	1
CL28-82-239	1	27	16	47	.1	20	30	354	3.09	12	2	ND	17	5	1	2	2	12	.10	.03	21	16	.64	99	.03	5	.93	.01	.12	2	1
CL28-82-245	1	44	20	45	.2	29	31	325	4.00	16	2	ND	7	7	1	2	2	44	.35	.05	13	20	1.07	79	.12	4	1.45	.02	.23	2	1
CL28-82-249	2	50	40	57	.2	20	18	290	4.32	54	2	ND	10	9	1	2	2	52	.24	.05	22	15	.72	39	.07	7	1.26	.02	.15	4	1
CL28-82-251	1	41	17	63	.1	16	13	278	2.71	34	2	ND	6	6	1	2	2	47	.33	.03	11	23	.69	43	.12	3	1.24	.03	.18	32	258
CL28-82-253	2	40	20	40	.1	20	24	319	3.33	56	2	ND	6	5	1	2	2	55	.29	.02	9	35	.93	35	.14	5	1.42	.01	.13	26	9
CL28-82-259	3	31	32	21	.4	21	74	238	4.38	45	34	3	65	12	1	2	46	32	.34	.06	129	8	.21	53	.15	5	.43	.01	.05	552	244
CL28-82-261	1	2	4	14	.1	1	2	128	1.17	3	3	ND	17	15	1	2	2	14	.09	.02	40	4	.04	33	.03	2	.22	.02	.03	11	3
CL28-82-263	5	17	7	20	.2	18	30	361	4.03	22	37	3	119	28	1	2	69	15	.46	.08	19[illegible]	5	.15	33	.09	5	.50	.02	.05	462	4
CL28-82-267	1	1	2	12	.1	1	1	135	.92	3	2	ND	17	11	1	2	2	10	.11	.03	4[illegible]	1	.06	24	.03	2	.21	.02	.03	8	1
CL28-82-271	3	29	13	22	.1	25	49	323	5.74	9	2	ND	17	18	1	2	22	17	.98	.03	18	11	1.01	46	.06	10	.83	.02	.36	29	1
CL28-82-273	2	7	11	15	.1	14	29	175	5.03	7	2	ND	13	17	1	2	11	11	.16	.02	32	5	.42	803	.04	5	.42	.01	.14	129	1
CL28-82-275	4	3	4	17	.1	3	2	146	.90	2	9	ND	13	11	1	2	7	7	.11	.02	37	3	.05	81	.03	5	.25	.02	.05	25	2
CL28-82-277	5	13	4	23	.2	15	3[illegible]	495	3.87	17	49	5	187	30	1	2	124	15	.59	.11	335	6	.16	203	.09	4	.46	.02	.05	1098	38
CL28-82-279	3	20	12	20	.1	25	56	258	5.82	13	5	ND	36	13	1	2	27	17	.32	.05	88	7	.24	310	.05	6	.38	.01	.07	75	3
CL28-82-285	2	36	25	35	.1	28	43	380	5.10	11	3	ND	13	7	1	2	5	26	.16	.03	29	12	.41	446	.05	5	.75	.01	.18	13	3
CL28-82-287	2	38	21	39	.1	33	66	352	5.17	15	2	ND	12	5	1	2	7	16	.10	.03	27	10	.43	127	.05	6	.79	.01	.18	3	4
CL28-82-289	2	41	31	88	.1	38	29	358	4.98	23	2	ND	12	13	1	2	2	12	.11	.03	76	17	.81	670	.05	5	1.29	.01	.18	2	2
CL28-82-293	3	24	20	30	.1	24	37	406	4.77	19	20	2	70	19	1	2	44	17	.37	.07	177	6	.18	274	.06	5	.39	.01	.05	274	32
CL28-82-297	1	26	21	67	.1	17	13	268	3.20	12	2	ND	10	10	1	2	3	12	.42	.04	59	13	.92	372	.04	5	1.07	.01	.29	2	5
CL28-82-299	1	10	6	25	.1	10	6	184	1.60	5	5	ND	26	26	1	2	5	8	.39	.03	38	7	.20	175	.03	3	.51	.02	.06	45	1
STD A-1	1	32	41	172	.3	33	12	985	2.76	16	2	ND	3	37	2	2	2	57	.63	.10	8	71	.78	277	.09	7	2.05	.02	.20	2	1

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
SN% ANALYSIS BY AA FROM 1.00 GRAM SAMPLE. SAMPLE TYPE - PAN CONCENTRATE

DATE RECEIVED JULY 15 982 DATE REPORTS MAILED July 20/82 ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

KIDD CREEK PROJECT # 28 FILE # 82-0596

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn% ppm
CL28-82-301	1	20	19	60	.1	15	11	357	2.88	8	2	ND	6	6	1	2	3	9	.33	.02	19	9	.67	83	.01	2	.95	.01	.14	2	4
CL28-82-303	2	28	23	93	.1	25	15	653	4.55	20	7	ND	9	4	1	2	4	10	.11	.04	25	18	.60	115	.01	2	1.16	.01	.13	2	2
CL28-82-305	1	20	27	65	.1	22	15	268	3.46	17	3	ND	7	6	1	2	4	12	.11	.03	22	10	.53	154	.02	2	1.05	.01	.14	2	2
CL28-82-307	1	25	46	80	.3	22	22	237	3.54	29	2	ND	5	22	1	3	3	8	1.90	.03	15	9	1.51	81	.02	2	.68	.01	.21	2	1
CL28-82-309	1	19	40	102	.3	19	22	258	2.69	21	2	ND	6	8	1	3	4	9	.36	.03	17	9	.60	365	.02	3	.68	.01	.19	2	7
CL28-82-311	2	46	44	64	.6	31	46	245	5.52	29	2	ND	7	11	1	2	10	11	.28	.03	18	10	.63	325	.03	2	.86	.01	.22	14	1
CL28-82-313	2	165	71	63	.7	26	29	421	4.50	16	2	ND	7	9	1	2	5	10	.87	.03	18	9	.98	360	.03	2	.81	.01	.23	3	6
CL28-82-317	1	15	12	24	.2	12	13	215	2.35	8	9	ND	24	13	1	2	7	10	.24	.04	69	6	.19	114	.05	2	.40	.01	.09	17	13
CL28-82-325	2	166	20	74	.3	19	20	274	3.48	27	6	ND	12	4	1	4	4	13	.08	.03	29	18	.76	39	.01	2	1.13	.01	.15	4	9
CL28-82-327	2	18	12	35	.2	18	30	206	2.78	7	6	ND	11	4	1	2	4	16	.11	.04	30	14	.53	30	.04	2	.78	.01	.12	2	11
CL28-82-329	1	33	21	50	.1	20	19	266	3.49	20	4	ND	8	5	1	2	6	31	.14	.03	23	14	.78	34	.06	2	1.15	.01	.13	2	4
CL28-82-335	1	13	13	56	.1	14	10	307	2.43	14	3	ND	10	11	1	2	3	14	.17	.04	38	14	.58	63	.06	2	1.33	.01	.27	9	9
CL28-82-337	1	11	12	54	.1	13	9	227	2.26	6	3	ND	12	11	1	2	11	13	.19	.04	49	13	.54	48	.06	2	1.25	.01	.22	13	1
CL28-82-339	6	5	9	16	.2	4	6	213	1.22	2	24	ND	161	45	1	8	116	24	1.78	.61	415	9	.32	33	.06	2	.59	.03	.14	1892	138
CL28-82-341	2	23	19	100	.1	17	10	242	3.94	13	3	ND	11	9	1	2	5	14	.09	.03	33	16	.74	48	.05	2	1.60	.01	.24	7	6
CL28-82-343	2	31	21	65	.1	15	9	256	4.06	29	4	ND	11	8	1	2	5	20	.19	.04	28	15	.59	50	.09	2	1.23	.02	.25	9	2
CL28-82-347	2	13	16	36	.2	9	10	211	2.56	8	12	ND	52	18	1	2	7	25	.62	.18	188	11	.41	39	.10	2	.85	.02	.17	104	135
CL28-82-353	1	25	21	59	.1	18	12	272	3.90	40	3	ND	14	9	1	2	4	18	.18	.05	37	16	.55	52	.06	2	1.15	.01	.21	2	3
CL28-82-355	1	16	14	30	.2	13	18	220	2.75	8	10	ND	20	13	1	2	6	27	.34	.06	73	11	.39	36	.11	2	.73	.02	.15	31	48
CL28-82-357	1	14	10	31	.1	13	13	213	2.65	9	10	ND	28	14	1	2	4	26	.34	.06	65	13	.39	39	.10	2	.74	.02	.15	22	19
CL28-82-359	1	32	11	36	.1	12	10	236	2.43	23	2	ND	7	8	1	2	3	42	.41	.04	21	11	.53	44	.11	2	1.02	.03	.22	2	4
CL28-82-361	1	11	38	30	.1	8	5	180	1.70	15	4	ND	10	16	1	2	20	9	.17	.03	36	7	.24	25	.03	2	.59	.02	.11	48	5
CL28-82-363	1	15	15	27	.1	17	42	180	3.34	20	4	ND	8	3	1	2	4	14	.09	.03	22	14	.47	58	.05	2	.73	.01	.15	2	2
CL28-82-365	2	47	75	137	.4	40	43	294	5.88	22	2	ND	6	14	1	2	5	14	1.28	.04	10	8	1.11	409	.02	2	.69	.01	.18	2	1
CL28-82-367	9	19	23	63	.4	20	22	294	3.25	16	4	ND	6	5	1	2	7	12	.21	.03	20	8	.38	123	.02	2	.64	.01	.15	26	4
CL28-82-369	1	27	30	38	.2	20	20	223	2.96	17	4	ND	5	4	1	2	3	9	.17	.03	18	9	.62	109	.01	2	.83	.01	.17	2	2
CL28-82-371	6	26	29	64	.2	22	24	321	3.53	19	7	ND	6	7	1	2	5	12	.20	.03	17	9	.50	337	.02	2	.77	.01	.18	4	7
CL28-82-373	1	14	14	38	.1	16	41	162	2.59	5	3	ND	7	3	1	2	3	11	.08	.02	25	9	.33	43	.04	2	.60	.01	.15	2	2
CL28-82-375	1	14	14	35	.1	14	27	177	2.69	8	5	ND	9	4	1	2	4	16	.12	.03	39	10	.56	37	.05	4	.86	.02	.15	2	5
CL28-82-377	1	7	11	26	.1	12	29	107	2.09	12	6	ND	6	3	1	2	3	13	.07	.02	27	8	.42	45	.03	2	.68	.01	.13	8	6
CL28-82-379	1	5	8	28	.1	10	12	107	1.58	2	4	ND	6	3	1	2	3	11	.08	.02	35	7	.42	30	.03	2	.69	.01	.12	2	2
CL28-82-381	1	15	17	29	.1	13	30	157	2.30	19	5	ND	6	3	1	2	3	9	.07	.02	23	8	.43	37	.01	2	.65	.01	.12	14	5
CL28-82-385	1	11	17	32	.2	18	46	125	3.04	20	5	ND	6	3	1	2	4	11	.07	.02	31	8	.39	37	.03	2	.65	.01	.12	7	9
CL28-82-387	1	16	18	30	.1	13	21	279	2.28	12	2	ND	5	6	1	2	3	23	.15	.04	21	18	.72	62	.03	2	.90	.01	.13	2	6
CL28-82-389	2	25	37	37	.3	31	124	163	5.87	33	8	ND	6	5	1	2	5	17	.10	.03	26	10	.38	44	.05	2	.61	.01	.11	24	12
CL28-82-391	5	30	38	66	.2	29	37	271	4.43	25	2	ND	6	6	1	3	5	13	.16	.03	18	9	.48	186	.03	2	.75	.01	.16	7	8
CL28-82-393	1	10	11	28	.1	11	13	218	1.75	5	2	ND	6	4	1	2	4	13	.09	.03	25	12	.44	59	.03	2	.68	.01	.14	2	6
STD A-1	1	29	43	173	.3	33	12	963	2.75	11	2	ND	2	33	1	2	3	55	.64	.10	9	70	.73	254	.08	4	1.89	.02	.20	2	1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn% ppm
CL28-82-397	2	18	24	58	.2	19	39	325	3.77	21	15	ND	54	41	1	2	10	38	1.62	.60	179	19	.87	102	.07	4	1.39	.04	.37	28	1
CL28-82-399	1	19	18	41	.1	18	24	215	2.82	18	5	ND	8	5	1	2	2	8	.16	.03	24	8	.46	75	.01	2	.71	.01	.15	2	1
CL28-82-401	1	22	34	49	.1	22	25	246	3.18	19	4	ND	6	5	1	2	2	10	.15	.04	19	9	.55	158	.01	4	.77	.01	.16	2	3
CL28-82-403	4	48	45	93	.2	45	44	348	7.34	35	5	ND	12	6	1	2	9	10	.13	.05	23	9	.47	246	.02	2	.88	.01	.15	2	1
CL28-82-405	1	7	8	21	.1	11	18	103	1.83	7	5	ND	8	3	1	2	2	7	.04	.02	31	7	.35	54	.01	2	.59	.01	.15	2	1
CL28-82-407	2	31	29	47	.1	24	32	227	3.83	42	5	ND	12	5	1	2	2	12	.09	.03	29	13	.51	58	.02	2	.86	.01	.14	3	1
CL28-82-409	2	54	29	63	.1	25	22	372	4.70	39	5	ND	9	7	1	3	2	76	.19	.04	26	19	1.01	48	.11	2	1.56	.01	.16	2	1
CL28-82-411	1	36	26	62	.1	26	25	353	4.44	19	4	ND	7	9	1	2	2	70	.32	.03	17	16	1.04	36	.19	2	1.62	.01	.15	3	1
CL28-82-413	1	60	16	43	.1	16	10	275	2.68	21	5	ND	11	10	1	2	2	48	.51	.03	35	18	.60	54	.14	2	1.19	.05	.27	2	1
CL28-82-417	1	18	11	26	.2	11	10	255	2.19	7	4	ND	5	11	1	2	2	39	.56	.03	20	17	.49	33	.13	2	1.05	.05	.13	3	2
CL28-82-419	3	10	8	22	.1	8	4	367	1.78	4	16	ND	26	10	1	2	14	10	.16	.04	64	11	.14	33	.06	2	.40	.02	.08	14	1
CL28-82-421	11	10	10	29	.1	7	8	468	1.65	5	29	ND	59	17	1	3	13	10	.48	.12	129	7	.12	46	.03	2	.45	.03	.10	355	2
CL28-82-423	4	4	7	21	.1	4	3	303	.93	2	11	ND	16	9	1	2	3	6	.21	.04	37	4	.10	34	.03	2	.36	.02	.09	27	1
CL28-82-425	3	4	6	22	.1	5	3	291	.97	4	9	ND	13	11	1	2	2	6	.21	.03	31	7	.11	39	.03	2	.40	.02	.10	5	1
CL28-82-427	3	7	6	24	.1	6	5	312	1.22	3	20	ND	34	10	1	2	5	9	.31	.07	46	6	.13	44	.03	2	.41	.02	.09	101	1
CL28-82-429	2	10	5	22	.1	7	4	481	1.37	2	42	ND	27	12	1	2	2	12	.46	.09	47	12	.17	48	.05	2	.50	.03	.09	62	1
CL28-82-431	3	14	12	18	.1	11	8	667	2.41	5	91	ND	45	14	1	2	7	21	.48	.12	78	16	.20	87	.08	2	.49	.03	.08	190	10
CL28-82-433	1	4	4	15	.1	4	2	458	1.12	2	13	ND	19	8	1	2	2	8	.36	.05	30	6	.17	19	.04	2	.35	.02	.04	32	1
CL28-82-435	2	7	16	83	.1	6	2	420	.82	6	63	ND	8	13	1	2	2	6	.16	.04	23	5	.09	68	.02	3	1.57	.02	.09	4	1
CL28-82-437	12	14	9	16	.1	11	7	498	2.28	4	16	ND	39	14	1	2	2	12	.32	.07	62	10	.21	24	.07	2	.61	.02	.06	17	2
CL28-82-601	2	9	6	35	.1	11	4	284	1.24	2	6	ND	6	14	1	2	2	11	.26	.04	19	14	.27	52	.03	2	.61	.02	.06	26	3
CL28-82-603	1	9	3	17	.1	5	3	178	.81	2	2	ND	4	4	1	2	2	6	.10	.03	9	6	.15	20	.02	2	.34	.02	.05	4	1
CL28-82-605	3	14	3	17	.1	4	5	175	1.06	2	5	ND	3	7	1	2	2	9	.11	.02	8	6	.15	30	.02	2	.39	.03	.06	2	1
CL28-82-607	1	13	4	19	.1	6	4	174	.80	2	2	ND	3	5	1	2	2	8	.14	.04	8	15	.18	22	.02	2	.34	.01	.05	3	1
CL28-82-611	1	6	1	13	.1	5	2	240	.81	2	2	ND	6	4	1	2	2	6	.09	.02	15	6	.13	21	.02	2	.36	.02	.05	8	1
CL28-82-613	1	7	4	16	.1	5	3	256	.86	2	2	ND	5	5	1	2	2	7	.13	.03	13	7	.15	23	.02	2	.40	.02	.05	6	1
CL28-82-617	1	5	4	12	.1	3	2	134	.66	3	2	ND	9	4	1	2	2	5	.10	.03	15	4	.08	16	.02	2	.26	.02	.04	2	1
CL28-82-619	1	7	6	16	.2	29	10	316	1.56	2	2	ND	63	28	1	2	2	23	.96	.28	315	22	.92	124	.12	2	.52	.04	.08	8	2
CL28-82-621	1	5	4	17	.1	14	6	217	1.04	3	2	ND	40	19	1	2	2	18	.65	.19	203	12	.43	53	.09	2	.44	.03	.07	32	1
CL28-82-623	1	15	4	17	.1	4	3	228	.86	2	5	ND	15	13	1	2	2	13	.30	.07	43	6	.21	27	.02	2	.44	.03	.05	10	1
CL28-82-625	1	8	3	16	.1	3	3	289	.92	2	24	ND	21	14	1	2	2	13	.35	.09	54	6	.19	26	.03	2	.45	.02	.05	60	1
STD A-1	1	30	39	175	.3	33	12	983	2.73	6	2	ND	2	35	2	2	2	54	.65	.10	8	72	.76	290	.09	5	2.00	.02	.17	2	1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn* ppm
CL28-82-627	1	9	5	22	.1	5	4	146	.88	2	2	ND	4	5	1	2	2	8	.09	.02	10	19	.16	22	.01	2	.38	.01	.04	7	1
CL28-82-629	1	9	5	47	.1	8	4	290	1.55	5	2	ND	5	11	1	2	2	13	.19	.03	15	13	.27	38	.03	2	.73	.03	.08	202	2
CL28-82-631	1	5	2	14	.1	3	2	159	.65	2	2	ND	11	9	1	2	2	10	.26	.08	29	16	.18	19	.02	2	.38	.02	.03	25	1
CL28-82-633	1	6	3	16	.1	4	2	162	.80	2	2	ND	8	9	1	2	2	10	.28	.08	22	6	.19	24	.02	4	.40	.02	.04	3	1
CL28-82-635	2	10	4	25	.1	10	4	297	1.44	2	2	ND	10	9	1	2	2	11	.20	.05	31	50	.26	31	.03	2	.63	.03	.07	2	3
CL28-82-639	1	7	6	40	.1	8	7	330	2.19	2	2	ND	21	50	1	2	2	42	.73	.17	98	15	.77	82	.11	2	1.24	.04	.12	4	1
CL28-82-641	1	3	3	13	.1	3	2	177	.75	3	2	ND	8	18	1	2	2	12	.28	.07	39	18	.21	43	.03	2	.45	.02	.04	5	1
CL28-82-643	1	4	3	21	.1	5	4	209	1.26	2	3	ND	9	23	1	2	2	20	.37	.10	49	9	.34	64	.05	2	.61	.03	.07	29	1
CL28-82-645	2	10	5	25	.1	10	6	343	1.53	2	2	ND	11	14	1	2	2	15	.26	.06	50	50	.29	124	.04	2	.58	.03	.07	49	1
CL28-82-647	1	6	6	21	.1	6	4	183	1.20	2	2	ND	4	10	1	2	2	12	.23	.07	14	8	.21	53	.02	2	.49	.01	.05	10	1
CL28-82-651	1	7	4	19	.1	8	4	213	1.26	2	2	ND	11	16	1	2	2	18	.38	.09	32	38	.30	48	.04	2	.61	.04	.07	15	1
CL28-82-689	1	3	2	26	.1	5	2	197	.92	2	2	ND	11	15	1	2	2	10	.35	.12	34	4	.20	40	.03	2	.52	.02	.09	3	1

AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE. SN* ANALYSIS BY AA FROM 1.00 GRAM SAMPLE. SAMPLE TYPE - PAN CONCENTRATE

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb	Sn* ppm
CL28-82-701	1	6	4	30	.1	5	4	536	2.20	4	3	ND	12	7	1	2	2	17	.82	.12	46	17	.29	54	.10	34	.78	.05	.13	11	-	4
CL28-82-703	2	16	4	20	.1	8	4	313	1.38	2	4	ND	15	34	1	2	2	16	1.00	.28	57	27	.31	47	.09	39	.56	.04	.11	10	-	1
CL28-82-705	1	12	6	21	.1	9	4	411	1.93	6	6	ND	20	52	1	2	2	19	1.39	.20	62	20	.31	48	.10	15	1.31	.10	.14	24	-	1
CL28-82-711	1	17	17	45	.2	14	5	339	1.53	4	6	ND	14	128	1	2	2	22	1.50	.35	135	37	.72	131	.15	15	.82	.08	.24	4	-	1
CL28-82-713	2	10	12	18	1.3	7	5	447	2.09	13	22	ND	165	67	1	2	4	16	1.18	.37	1686	21	.34	38	.13	16	.72	.05	.14	91	-	4
CL28-82-715	1	17	7	20	.1	14	5	283	2.50	6	2	ND	15	67	1	2	2	32	.95	.14	57	54	.34	49	.15	38	1.23	.09	.16	3	-	4
CL28-82-717	1	21	5	14	.1	7	4	233	1.31	5	2	ND	21	40	1	2	2	15	1.09	.18	92	16	.38	63	.10	36	1.05	.05	.20	15	-	2
CL28-82-719	2	18	7	15	.2	8	4	258	1.30	11	13	ND	39	43	1	2	2	18	1.38	.30	93	40	.38	49	.11	15	1.11	.06	.19	34	-	3
CL28-82-721	3	14	7	26	.4	10	6	459	2.33	14	15	ND	90	94	1	2	2	32	1.60	.34	226	28	.50	33	.16	13	.80	.08	.20	77	-	4
CL28-82-723	1	14	5	43	.1	11	4	233	1.31	5	2	ND	17	39	1	2	2	22	.77	.10	61	40	.73	47	.17	16	.73	.05	.20	6	-	2
CL28-82-727	3	12	11	37	.9	11	10	905	2.31	12	16	ND	71	940	1	2	2	24	7.19	2.63	967	26	1.17	1660	.03	11	.89	.16	.20	2	-	2
CL28-82-735	1	8	5	20	.2	9	3	329	1.43	4	4	ND	33	58	1	2	2	17	1.15	.26	244	38	.37	63	.10	16	.91	.06	.16	9	-	2
CL28-82-737	1	14	5	34	.1	19	7	530	2.54	4	2	ND	20	41	1	2	2	33	.74	.17	142	37	.70	175	.14	35	1.22	.06	.37	2	-	1
CL28-82-739	4	21	6	34	.1	108	14	366	2.38	4	2	ND	16	15	1	2	2	30	.45	.07	51	132	1.95	86	.11	14	1.03	.04	.21	2	-	1
CL28-82-741	1	11	3	21	.1	35	8	535	4.19	6	7	ND	53	24	1	2	2	75	.82	.18	196	86	.93	60	.20	2	.95	.05	.15	2	-	1
CL28-82-749	1	7	6	20	.1	12	6	287	1.34	2	2	ND	10	14	1	2	2	19	.24	.06	33	37	.41	57	.05	14	.70	.02	.09	4	-	1
CL28-82-753	1	14	7	25	.1	17	7	426	1.98	3	2	ND	19	32	1	2	2	19	.55	.12	64	26	.36	84	.07	13	.79	.06	.13	2	-	2
CL28-82-755	1	13	7	27	.2	16	7	517	1.83	5	2	ND	26	27	1	2	2	16	.43	.09	69	40	.32	56	.04	13	.75	.04	.10	11	-	2
CL28-82-757	1	15	8	27	.1	21	10	356	2.21	3	2	ND	9	30	1	2	2	30	.53	.08	35	33	.64	86	.08	13	.96	.05	.13	2	-	3
CL28-82-759	1	8	6	42	.1	18	5	717	1.66	2	2	ND	17	38	1	2	2	20	.50	.06	55	42	.41	67	.06	14	1.04	.05	.08	6	-	2
CL28-82-763	1	16	7	45	.1	47	14	387	2.72	2	2	ND	5	37	1	2	2	34	.56	.12	21	138	1.13	67	.08	13	1.12	.03	.09	2	-	1
CL28-82-765	4	46	88	30	.4	45	73	1393	4.64	18	36	ND	41	27	1	2	21	20	.66	.15	93	55	.45	81	.08	12	.89	.03	.07	42	-	46
CL28-82-775	1	22	12	67	.1	43	16	646	3.87	2	2	ND	6	58	1	2	2	44	.56	.13	33	69	1.25	156	.09	32	1.40	.06	.14	4	-	2
CL28-82-777	1	25	12	49	.1	40	22	431	3.45	7	2	ND	10	30	1	2	2	31	.52	.12	35	66	.87	77	.08	33	1.10	.03	.12	2	-	3
CL28-82-783	1	23	6	32	.1	28	15	335	2.35	6	2	ND	14	32	1	2	2	26	.51	.09	27	42	.66	73	.08	15	.89	.04	.10	2	-	2
CL28-82-785	1	7	3	21	.2	13	6	804	1.52	10	8	ND	64	22	1	2	2	18	.49	.16	149	32	.28	60	.04	35	.60	.03	.07	95	-	2
CL28-82-787	1	16	6	28	.1	16	9	367	2.14	2	2	ND	8	29	1	2	2	27	.51	.09	30	22	.42	198	.04	14	.75	.04	.11	2	-	3
CL28-82-789	1	9	6	25	.1	16	8	557	1.62	3	6	ND	20	22	1	2	2	15	.37	.09	53	43	.26	102	.05	15	.53	.04	.10	12	-	4
STD A-1	1	32	39	182	.3	36	13	1014	2.80	12	2	ND	3	30	1	2	2	55	.66	.11	10	80	.81	257	.09	8	1.83	.02	.20	2	5	1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn* ppm
CL28-82-791	2	31	7	71	.1	26	10	523	3.36	17	2	ND	2	34	1	2	2	40	.71	.06	6	25	.84	296	.07	3	1.07	.02	.12	2	1
CL28-82-793	2	30	60	66	.1	20	9	563	3.28	15	2	ND	2	33	1	2	2	48	.55	.06	6	18	.83	150	.09	3	1.25	.03	.17	2	3
CL28-82-795	7	63	9	126	.6	46	13	521	4.13	29	2	ND	2	50	1	2	2	37	1.76	.06	8	28	.81	234	.05	2	.87	.01	.06	2	1
CL28-82-797	1	9	2	43	.1	16	7	477	2.56	4	2	ND	2	27	1	2	2	47	.51	.08	7	35	.98	92	.14	2	1.30	.02	.06	2	1
CL28-82-799	2	22	5	63	.1	27	11	579	3.29	16	2	ND	2	19	1	2	2	44	.36	.04	5	33	.97	67	.12	2	1.16	.01	.05	2	1
CL28-82-801	5	39	5	148	.1	44	13	709	4.18	20	2	ND	2	25	1	2	2	38	.33	.07	9	21	.76	86	.10	3	.96	.02	.07	2	1
CL28-82-803	2	26	5	73	.1	40	15	610	3.65	12	2	ND	2	18	1	2	2	49	.43	.03	4	60	1.23	69	.14	2	1.57	.01	.05	2	1
CL28-82-805	2	24	4	76	.1	62	18	569	4.68	14	2	ND	2	30	1	2	2	61	.46	.10	13	39	1.76	72	.26	2	.97	.04	.06	2	1
CL28-82-807	1	4	3	10	.1	3	2	116	.58	2	4	ND	27	11	1	2	2	10	.49	.16	58	12	.14	24	.02	2	.30	.02	.04	2	3
CL28-82-809	1	2	2	11	.1	3	1	124	.59	2	2	ND	8	10	1	2	2	9	.39	.13	28	1	.14	27	.02	2	.37	.02	.04	2	1
CL28-82-811	1	5	2	9	.1	3	2	98	.55	2	2	ND	16	9	1	2	2	8	.31	.09	41	18	.10	20	.02	2	.26	.02	.05	3	1
CL28-82-815	1	6	5	11	.1	3	2	259	.76	2	18	ND	27	13	1	2	3	9	.39	.12	56	1	.13	15	.02	4	.34	.02	.04	10	1
CL28-82-817	1	5	2	15	.1	4	2	291	.76	2	4	ND	21	14	1	2	2	12	.42	.11	56	26	.18	15	.03	2	.42	.02	.06	5	1
CL28-82-823	1	14	2	13	.1	3	4	315	.86	2	10	ND	41	16	1	2	2	11	.40	.12	71	1	.17	13	.03	2	.37	.02	.06	36	1
CL28-82-825	1	5	3	12	.1	4	2	353	.78	2	7	ND	47	15	.	2	2	13	.45	.12	80	21	.19	14	.03	2	.40	.02	.06	13	1
CL28-82-827	1	5	5	11	.2	3	3	437	1.01	2	104	ND	102	12	1	2	4	12	.47	.15	85	1	.13	10	.02	2	.34	.02	.04	79	1
CL28-82-829	1	3	2	9	.1	3	1	184	.57	2	2	ND	8	9	1	2	2	7	.26	.07	28	17	.12	14	.02	2	.31	.02	.04	3	1
CL28-82-831	1	4	3	19	.1	3	2	177	1.06	2	5	ND	18	13	1	2	2	12	.40	.11	39	1	.22	17	.03	2	.48	.02	.07	4	1
CL28-82-833	1	5	3	11	.1	4	3	163	.81	2	2	ND	13	15	1	2	2	12	.38	.09	40	19	.16	15	.02	2	.40	.02	.06	2	3
CL28-82-835	1	5	2	10	.1	3	2	224	.90	2	2	ND	20	12	1	2	2	9	.33	.08	48	1	.13	14	.02	2	.36	.02	.05	6	2
CL28-82-837	1	3	2	15	.1	5	2	290	.86	2	3	ND	18	21	1	2	2	9	.39	.11	47	21	.16	14	.02	2	.47	.02	.05	13	1
CL28-82-839	1	3	3	17	.1	3	2	126	.80	2	2	ND	8	9	1	2	2	8	.30	.09	20	1	.14	16	.02	2	.36	.02	.05	3	1
CL28-82-841	1	10	7	43	.1	11	4	309	1.43	2	2	ND	18	11	1	2	2	14	.32	.08	50	29	.25	27	.05	2	.63	.02	.12	6	3
CL28-82-843	1	12	5	28	.1	8	5	285	1.52	2	2	ND	17	15	1	2	2	20	.35	.07	45	10	.38	36	.04	4	.73	.02	.12	12	2
CL28-82-845	1	12	3	21	.1	6	3	229	.99	2	5	ND	20	14	1	2	2	14	.40	.09	35	23	.24	21	.04	2	.52	.02	.06	16	1
CL28-82-847	1	11	3	24	.1	6	4	224	1.38	2	2	ND	21	22	1	2	2	19	.53	.15	44	7	.42	26	.03	2	.74	.02	.08	4	1
CL28-82-849	1	8	6	18	.1	6	3	168	1.00	2	3	ND	11	8	1	2	2	8	.20	.05	27	25	.15	23	.02	2	.40	.02	.07	10	1
CL28-82-853	1	12	6	43	.1	19	6	245	1.57	2	2	ND	8	6	1	2	2	8	.11	.03	22	5	.21	27	.03	2	.54	.01	.11	9	1
CL28-82-855	1	13	4	20	.1	15	5	201	1.21	2	3	ND	6	12	1	2	2	11	.26	.06	20	26	.25	35	.04	2	.45	.02	.09	13	1
CL28-82-857	1	15	3	21	.1	18	6	165	1.47	2	2	ND	3	17	1	2	2	24	.52	.10	12	28	.46	94	.09	2	.66	.03	.09	4	1
CL28-82-859	1	4	3	14	.1	5	2	101	.70	2	2	ND	7	5	1	2	2	7	.13	.05	18	16	.11	22	.02	2	.34	.01	.06	2	1
CL28-82-861	1	4	3	14	.1	5	2	119	.91	2	2	ND	11	6	1	2	2	9	.17	.05	31	3	.15	27	.03	3	.45	.02	.06	4	1
CL28-82-871	1	3	3	12	.1	7	2	102	.69	2	2	ND	10	7	1	2	2	7	.32	.12	30	17	.16	25	.02	2	.33	.02	.07	2	1
CL28-82-873	1	2	1	10	.1	3	1	151	.68	2	2	ND	21	7	1	2	2	5	.28	.10	59	1	.10	26	.02	4	.31	.02	.06	4	1
STD A-1	1	31	36	182	.3	33	12	959	2.63	6	2	ND	2	34	1	2	2	53	.65	.10	9	72	.74	266	.08	11	1.96	.02	.20	2	1
CL28-82-875	1	3	5	17	.2	5	2	306	.90	2	5	ND	48	13	1	2	2	7	.48	.20	140	2	.14	30	.03	2	.43	.02	.07	15	1
CL28-82-877	1	3	3	20	.1	5	2	152	.72	2	3	ND	14	11	1	2	2	8	.24	.08	42	20	.13	29	.02	2	.45	.02	.05	2	2
CL28-82-879	1	2	3	14	.1	4	1	280	.79	2	4	ND	41	11	1	2	2	7	.36	.14	121	1	.13	23	.02	2	.40	.02	.05	16	1
CL28-82-883	1	10	9	33	.1	11	5	214	1.59	2	3	ND	11	10	1	2	2	14	.24	.07	33	23	.34	43	.02	2	.68	.02	.08	7	1
CL28-82-885	1	6	6	25	.1	9	4	195	1.27	2	2	ND	7	16	1	2	2	12	.25	.06	23	5	.28	80	.02	2	.57	.03	.09	2	1
CL28-82-889	2	5	5	21	.1	7	5	224	1.47	2	3	ND	9	19	1	2	2	15	.30	.09	29	28	.20	582	.01	2	.49	.02	.10	5	1
CL28-82-891	1	3	3	15	.1	6	3	223	1.13	2	2	ND	10	15	1	2	2	13	.29	.09	35	4	.17	59	.02	4	.46	.03	.07	23	2
CL28-82-893	1	10	6	26	.1	11	5	223	1.37	2	2	ND	12	12	1	2	2	13	.31	.10	34	22	.26	68	.02	2	.55	.02	.08	7	1
CL28-82-895	1	4	2	18	.1	4	2	186	.86	2	4	ND	6	7	1	2	2	7	.12	.03	18	1	.12	24	.02	2	.36	.02	.07	7	2
CL28-82-897	1	12	6	25	.1	14	5	257	1.49	2	5	ND	13	12	1	2	2	14	.27	.07	26	26	.26	94	.04	2	.51	.02	.10	25	1
CL28-82-901	1	2	4	9	.1	3	1	139	.56	2	2	ND	9	7	1	2	2	5	.18	.05	25	1	.08	24	.02	2	.26	.02	.04	8	1
CL28-82-903	1	2	4	10	.1	3	2	112	.51	2	4	ND	10	6	1	2	2	4	.14	.05	25	10	.06	35	.01	2	.18	.01	.04	7	1

KIDD CREEK MINES PROJECT # 28 FILE # 82-0838

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb	Sn* ppm
CL28-82-905	1	39	21	43	.1	36	43	317	4.55	30	2	ND	46	35	1	2	2	26	.66	.11	29	49	.84	46	.04	2	1.21	.01	.04	7	5	1
CL28-82-907	1	3	4	13	.1	4	2	154	1.05	6	4	ND	78	12	1	2	2	11	.17	.05	86	32	.13	35	.02	2	.37	.03	.06	2	5	1
CL28-82-911	1	42	19	47	.1	43	48	326	5.02	33	2	ND	5	47	1	2	2	28	.81	.09	10	64	1.00	43	.04	2	1.42	.01	.06	2	10	3
CL28-82-913	2	64	35	53	.2	50	73	376	6.61	61	2	ND	4	81	1	2	2	28	1.69	.10	6	56	1.01	45	.04	2	1.30	.01	.05	2	10	1
CL28-82-915	1	36	16	54	.1	31	21	355	3.79	15	2	ND	3	21	1	2	2	41	.55	.08	8	50	1.02	46	.04	5	1.49	.01	.04	2	5	1
CL28-82-917	2	122	51	85	.2	41	63	329	5.75	38	2	ND	2	24	1	2	2	41	.89	.08	6	56	1.06	110	.06	2	1.42	.01	.04	2	20	7
CL28-82-921	1	42	12	55	.1	41	44	367	5.25	24	2	ND	4	20	1	2	2	43	.47	.09	9	52	1.10	65	.04	6	1.65	.02	.06	2	490	3
STD A-1	1	30	37	178	.2	34	12	985	2.82	12	2	ND	2	38	2	2	2	56	.64	.09	8	76	.77	286	.09	10	2.05	.02	.19	2	5	1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn# ppm
CL28-82-1601	1	4	4	17	.1	5	2	242	.97	3	8	ND	22	8	1	2	2	10	.18	.04	53	7	.17	25	.03	2	.45	.02	.07	10	1
CL28-82-1603	1	6	3	13	.1	4	2	189	.81	2	2	ND	14	7	1	2	2	7	.19	.05	38	6	.11	19	.02	2	.33	.02	.06	4	1
CL28-82-1605	1	4	3	16	.1	5	2	270	.90	2	8	ND	26	10	1	2	2	12	.24	.06	72	8	.17	25	.03	2	.48	.02	.07	18	1
CL28-82-1607	1	5	4	17	.1	5	2	173	.85	2	2	ND	8	12	1	2	2	10	.23	.05	23	8	.18	31	.03	2	.50	.02	.09	2	1
CL28-82-1609	1	6	3	21	.1	6	3	242	1.15	2	12	ND	13	10	1	2	2	15	.20	.04	35	9	.24	39	.03	2	.66	.03	.11	2	1
CL28-82-1611	1	6	4	18	.1	7	4	198	1.25	2	2	ND	18	10	1	2	2	17	.23	.04	62	7	.24	40	.04	2	.54	.02	.08	3	1
CL28-82-1613	1	14	7	54	.1	17	7	261	2.10	2	3	ND	10	13	1	2	2	21	.26	.06	34	17	.40	56	.03	4	.78	.02	.12	5	1
CL28-82-1615	1	7	5	23	.1	8	4	176	1.42	2	3	ND	11	8	1	2	3	13	.16	.04	32	10	.24	40	.02	2	.51	.02	.10	12	2
CL28-82-1617	1	12	5	27	.1	15	9	260	1.96	6	12	ND	14	23	1	2	2	25	.55	.12	44	20	.50	63	.06	2	.88	.04	.16	33	1
CL28-82-1619	1	16	9	29	.2	15	9	289	2.23	8	3	ND	14	21	1	2	2	27	.50	.11	53	22	.51	52	.05	6	.87	.03	.17	86	1
CL28-82-1623	1	23	5	43	.2	25	10	355	2.55	2	21	ND	7	19	1	2	2	26	.44	.10	21	34	.58	74	.07	4	.98	.03	.23	32	5
CL28-82-1625	1	16	5	38	.2	20	8	348	2.01	2	15	ND	17	18	1	2	2	19	.38	.09	43	23	.41	56	.06	2	.79	.03	.15	7	2
CL28-82-1629	1	22	14	47	.1	28	19	300	3.35	9	2	ND	6	18	1	2	2	24	.44	.11	19	32	.71	36	.03	2	1.12	.01	.08	2	1
CL28-82-1631	1	2	1	6	.1	2	1	106	.49	2	2	ND	10	6	1	2	2	7	.16	.05	33	1	.07	21	.01	2	.18	.01	.04	2	2
CL28-82-1635	1	6	2	28	.1	15	4	279	1.21	2	2	ND	6	26	1	2	2	19	.52	.08	24	24	.40	59	.06	2	.79	.04	.09	10	1
CL28-82-1637	1	9	1	32	.1	9	4	363	1.49	2	3	ND	7	11	1	2	2	14	.20	.04	26	11	.27	49	.03	2	.66	.02	.09	11	4
CL28-82-1639	1	3	2	14	.1	5	2	280	.70	2	2	ND	11	12	1	2	2	10	.36	.05	39	11	.16	27	.04	2	.41	.02	.05	2	1
CL28-82-1641	2	2	1	16	.1	7	2	200	.68	2	2	ND	7	17	1	2	2	10	.29	.07	23	13	.19	45	.03	2	.51	.02	.05	4	1
CL28-82-1647	1	10	4	20	.1	11	5	382	1.47	2	2	ND	17	16	1	2	2	11	.30	.06	51	9	.17	35	.04	2	.57	.03	.10	6	1
CL28-82-1649	1	5	1	33	.1	13	4	273	1.17	2	2	ND	3	32	1	2	2	16	.23	.04	15	19	.34	117	.06	2	.88	.03	.10	2	1
CL28-82-1653	1	4	1	18	.2	6	2	552	1.08	3	7	ND	40	14	1	2	2	11	.33	.07	119	9	.18	40	.05	2	.56	.03	.07	8	1
CL28-82-1655	1	5	1	17	.1	10	4	441	1.15	2	4	ND	21	11	1	2	2	13	.22	.04	60	10	.18	47	.06	2	.69	.03	.09	2	1
CL28-82-1657	1	23	7	37	.1	18	7	271	2.17	8	6	ND	7	20	1	2	2	20	.41	.07	18	26	.50	45	.08	2	1.01	.03	.14	6	1
CL28-82-1659	1	12	6	39	.1	20	8	302	2.13	3	2	ND	5	21	1	2	2	20	.37	.08	19	28	.51	65	.04	2	.92	.03	.12	2	1
CL28-82-1661	1	17	9	60	.1	30	13	366	3.16	5	3	ND	5	14	1	2	2	33	.25	.06	19	41	.80	64	.06	2	1.31	.01	.08	2	1
CL28-82-1663	1	27	19	65	.2	36	15	482	3.62	8	2	ND	6	15	1	2	2	24	.25	.05	21	38	.88	76	.03	2	1.31	.02	.10	2	1
CL28-82-1665	1	18	9	55	.2	28	12	422	2.80	4	3	ND	5	14	1	2	2	26	.26	.06	19	36	.66	70	.03	2	1.03	.02	.09	7	1
CL28-82-1667	1	31	34	47	.2	37	26	376	4.30	16	2	ND	7	21	1	2	2	35	.47	.08	23	45	.74	71	.05	2	1.15	.02	.08	8	1
CL28-82-1669	1	15	4	19	.1	6	4	192	1.46	2	2	ND	9	22	1	2	2	23	.30	.04	36	11	.33	97	.04	2	.69	.04	.11	3	1
CL28-82-1671	1	5	3	15	.1	4	3	212	1.25	3	3	ND	26	14	1	2	2	21	.37	.08	98	9	.23	30	.05	2	.53	.03	.10	77	1
CL28-82-1673	1	2	4	22	.1	2	1	205	.87	2	15	ND	33	6	1	2	2	7	.13	.03	70	4	.08	27	.05	4	.37	.02	.09	2	1
CL28-82-1675	1	4	6	33	.2	3	3	276	1.95	2	21	ND	44	13	1	2	3	23	.38	.10	101	9	.21	31	.05	2	.66	.02	.10	3	2
CL28-82-1677	1	4	4	24	.2	4	2	189	1.19	2	14	ND	62	18	1	2	2	18	.37	.09	133	7	.21	32	.05	2	.51	.03	.09	15	1
CL28-82-1679	1	11	7	31	.4	5	5	335	2.10	3	65	ND	130	19	1	2	6	32	.51	.14	206	12	.28	39	.05	4	.70	.03	.10	17	1
STD A-1	1	30	40	178	.4	35	12	974	2.82	9	2	ND	2	32	1	2	2	55	.65	.10	8	73	.80	281	.09	5	2.02	.02	.21	2	1
CL28-82-1681	1	29	11	52	.2	32	12	422	2.65	7	2	ND	4	38	1	2	2	51	1.48	.09	12	66	1.03	70	.11	2	1.34	.04	.13	2	1
CL28-82-1683	1	20	11	40	2.5	26	18	271	3.50	10	2	25	100	21	1	2	2	35	.46	.14	130	42	.70	37	.06	2	1.05	.02	.07	15	1
CL28-82-1687	1	5	3	17	.1	7	3	376	1.22	2	2	ND	27	21	1	2	2	19	.45	.06	69	14	.30	50	.06	2	.75	.05	.14	4	1
CL28-82-1689	1	4	3	17	.3	7	3	423	1.31	2	2	ND	39	22	1	2	2	20	.60	.17	122	14	.31	58	.06	2	.66	.03	.16	8	1
CL28-82-1691	1	3	3	17	.1	4	2	193	.78	2	2	ND	17	11	1	2	2	13	.26	.04	39	8	.20	33	.04	2	.51	.04	.08	2	1
CL28-82-1693	1	2	2	9	.1	3	2	273	.77	2	2	ND	34	13	1	2	2	12	.29	.05	80	4	.14	24	.03	3	.40	.04	.07	2	1
CL28-82-1695	1	3	2	14	.2	4	2	291	.87	2	3	ND	51	13	1	2	2	13	.31	.06	109	7	.18	29	.04	2	.48	.04	.09	2	1
CL28-82-1697	1	11	2	23	.2	11	6	396	1.42	2	2	ND	27	26	1	2	2	20	.71	.14	71	26	.39	60	.07	2	.71	.05	.15	2	1
STD A-1	1	29	37	172	.3	34	12	945	2.72	9	2	ND	2	32	1	3	2	54	.62	.09	7	70	.76	273	.08	3	1.80	.02	.21	2	1

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE. SN* ANALYSIS BY AA FROM 1.00 GRAM SAMPLE. SAMPLE TYPE - PAN CONCENTRATE

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb	Sn* ppm
DH28-82-1	2	23	8	59	.2	46	11	612	3.10	14	2	ND	6	39	1	2	2	39	1.06	.05	22	33	1.32	179	.10	13	.94	.04	.09	2	5400	4
DH28-82-3	5	49	9	99	.4	47	15	617	4.39	36	5	ND	2	68	1	2	2	47	1.93	.07	10	48	1.11	474	.10	29	1.01	.03	.09	2	5	2
DH28-82-5	2	44	13	75	.3	41	18	568	4.70	38	2	ND	3	39	1	2	2	51	1.23	.07	12	45	1.32	208	.14	29	1.18	.04	.11	2	3100	2
DH28-82-7	2	32	8	72	.2	32	10	502	2.97	30	7	ND	2	152	1	2	2	40	5.68	.05	6	47	1.01	192	.06	27	1.04	.02	.12	2	40	4
DH28-82-9	1	17	5	64	.1	20	11	559	3.65	12	4	ND	2	27	1	2	2	52	.52	.05	8	39	1.11	104	.12	15	1.47	.04	.14	2	640	3
DH28-82-11	2	25	7	76	.1	30	13	545	3.66	12	2	ND	2	23	1	2	2	59	.46	.06	10	72	1.31	96	.15	13	1.47	.03	.10	2	15	3
GH28-82-21	1	4	2	11	.1	4	2	167	.74	3	2	ND	14	8	1	2	2	7	.18	.04	44	7	.11	36	.03	13	.38	.02	.07	2	-	2
GH28-82-25	2	45	4	92	.3	29	11	322	2.54	2	27	ND	53	25	1	2	2	42	1.23	.21	136	58	.76	91	.14	36	1.02	.09	.19	99	-	3
GH28-82-27	1	8	3	18	.1	7	3	330	1.33	2	2	ND	16	12	1	2	2	13	.28	.07	48	10	.21	50	.05	14	.48	.03	.09	10	-	2
GH28-82-29	1	4	5	21	.1	6	3	201	1.04	2	2	ND	27	20	1	2	2	20	.55	.16	73	27	.21	65	.05	35	.43	.04	.08	12	-	2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn% ppm
GH28-82-31	3	7	7	23	.2	8	4	443	1.42	2	59	ND	67	14	1	2	2	16	.42	.17	98	20	.16	62	.03	28	.41	.02	.08	39	1
GH28-82-35	1	6	4	19	.2	12	7	345	1.85	2	3	ND	25	35	1	2	2	41	1.16	.39	77	26	.60	68	.08	21	.84	.07	.11	5	2
GH28-82-37	4	6	4	23	.1	13	6	289	1.44	2	2	ND	22	25	1	2	2	32	.67	.20	46	35	.59	75	.08	28	.80	.05	.13	12	1
GH28-82-41	1	3	4	13	.1	4	2	2045	1.67	2	3	ND	42	12	1	2	2	13	.42	.08	106	13	.21	31	.08	23	.80	.03	.06	16	2
GH28-82-43	2	10	3	19	.1	9	5	561	1.46	2	2	ND	20	15	1	2	2	22	.42	.06	51	37	.36	49	.09	29	.79	.05	.10	6	2
GH28-82-45	1	6	7	23	.2	13	5	428	2.12	2	2	ND	64	28	1	2	2	29	.53	.15	130	24	.48	77	.09	29	.88	.06	.13	4	3
GH28-82-47	1	4	3	14	.1	5	3	224	1.02	2	2	ND	28	12	1	2	2	17	.39	.10	74	26	.19	43	.07	29	.52	.04	.08	5	2
GH28-82-49	1	3	4	11	.1	3	2	261	1.03	2	2	ND	26	13	1	2	2	17	.48	.12	64	10	.22	36	.07	29	.49	.05	.08	2	2
GH28-82-51	1	5	4	17	.1	6	3	487	1.10	2	2	ND	12	10	1	2	2	13	.26	.04	32	42	.23	52	.06	30	.70	.04	.11	2	3
GH28-82-57	1	14	4	15	.1	7	5	1176	1.67	2	11	ND	17	13	1	2	2	14	.41	.07	49	14	.24	39	.08	27	.71	.03	.11	4	3
GH28-82-59	1	7	6	23	.1	35	9	674	2.46	4	2	ND	14	13	1	2	2	20	.37	.06	40	40	.80	72	.07	25	.72	.02	.04	2	2
GH28-82-61	2	64	41	78	.6	83	49	720	8.05	22	2	ND	10	42	1	2	2	71	.80	.12	22	77	1.07	342	.13	17	1.34	.03	.08	11	14
GH28-82-63	2	36	45	39	.5	36	40	527	3.68	30	16	ND	43	38	1	2	6	37	.91	.12	45	56	.59	130	.13	13	.98	.04	.08	198	7
GH28-82-65	3	61	26	73	1.9	84	33	740	5.97	16	10	ND	5	58	1	2	2	58	1.86	.10	15	96	1.55	265	.06	18	1.61	.02	.10	3	3
GH28-82-69	1	24	8	28	.2	43	27	472	3.22	8	2	ND	13	26	1	2	5	38	.52	.07	31	83	.74	64	.11	35	1.06	.03	.07	39	5
GH28-82-71	1	24	13	40	.3	41	18	498	3.31	4	2	ND	11	32	1	2	2	35	.53	.07	29	62	.81	79	.10	33	1.20	.05	.10	6	2
GH28-82-79	1	8	8	34	.2	11	5	303	1.46	2	2	ND	10	30	1	2	7	22	.43	.07	27	35	.42	91	.06	16	.84	.04	.11	9	2
GH28-82-81	1	19	11	48	.2	18	9	411	2.33	2	2	ND	16	40	1	2	2	25	.51	.12	45	23	.56	149	.05	34	1.16	.04	.13	2	3
GH28-82-83	1	13	8	37	.1	17	7	356	2.06	2	2	ND	16	31	1	2	2	24	.46	.11	42	47	.46	64	.06	15	1.01	.04	.12	3	2
GH28-82-85	1	7	7	31	.2	11	5	473	1.66	2	8	ND	29	17	1	2	2	17	.35	.11	60	17	.28	60	.04	36	.77	.04	.10	9	1
GH28-82-87	1	4	5	18	.1	7	3	1177	1.78	2	2	ND	25	10	1	2	2	20	.44	.07	61	41	.34	33	.09	14	.97	.04	.08	3	3
GH28-82-89	1	6	4	28	.1	9	4	468	1.27	2	2	ND	11	9	1	2	2	15	.22	.02	30	11	.24	52	.06	35	.87	.04	.09	11	2
GH28-82-91	1	4	3	9	.1	3	2	156	.67	2	2	ND	6	7	1	2	2	11	.20	.03	15	18	.19	41	.04	32	.51	.03	.07	2	1
GH28-82-93	1	5	4	23	.1	6	3	636	1.50	2	2	ND	13	11	1	2	2	16	.25	.03	34	13	.29	59	.07	29	.88	.03	.13	7	3
GH28-82-95	1	3	4	11	.1	3	2	670	.79	2	2	ND	29	4	1	2	2	7	.13	.02	73	21	.11	32	.04	28	.49	.02	.03	14	1
GH28-82-97	1	3	3	11	.1	4	2	628	.91	2	2	ND	10	5	1	2	2	9	.12	.01	24	8	.15	34	.05	29	.51	.02	.06	3	2
GH28-82-99	1	4	3	8	.1	5	1	192	.63	2	2	ND	8	5	1	2	2	7	.13	.02	17	30	.12	35	.04	32	.40	.02	.06	2	2
STD A-1	1	32	38	184	.3	36	13	1024	2.82	10	2	ND	2	30	2	2	2	55	.59	.11	7	81	.82	257	.09	8	2.11	.02	.20	2	1
GH28-82-101	1	4	3	10	.1	3	2	572	1.06	2	2	ND	14	7	1	2	2	9	.19	.03	38	8	.13	35	.05	31	.47	.02	.06	5	2
GH28-82-107	1	9	4	20	.1	11	6	754	1.54	2	3	ND	22	14	1	2	2	21	.47	.14	53	29	.33	55	.07	29	.71	.03	.10	6	3
GH28-82-109	1	4	5	23	.1	5	4	284	1.43	2	3	ND	17	21	1	2	2	25	.66	.24	45	8	.29	89	.07	30	.60	.04	.11	11	2
GH28-82-111	1	6	6	29	.1	8	3	281	1.09	2	52	ND	21	13	1	2	2	13	.34	.13	35	22	.19	70	.03	28	.50	.03	.12	4	1
GH28-82-113	2	4	4	19	.2	6	4	363	1.60	2	2	ND	26	15	1	2	2	30	.45	.16	60	11	.17	49	.06	31	.47	.03	.06	6	1
GH28-82-115	1	4	5	18	.2	7	4	387	1.30	2	6	ND	27	17	1	2	2	25	.34	.10	55	36	.21	65	.06	31	.57	.04	.07	14	1
GH28-82-117	1	3	3	16	.1	5	3	405	1.69	2	3	ND	24	21	1	2	2	32	.34	.09	57	12	.22	58	.08	28	.65	.04	.07	18	2
GH28-82-121	1	5	5	21	.1	11	4	237	1.12	2	2	ND	9	22	1	2	2	17	.28	.08	23	40	.25	79	.04	29	.54	.04	.09	4	1
GH28-82-123	1	3	4	18	.1	8	3	444	1.23	2	2	ND	32	19	1	2	2	18	.32	.10	73	14	.20	59	.06	29	.57	.04	.07	10	2
GH28-82-125	1	5	4	15	.1	11	6	619	1.43	2	3	ND	30	18	1	2	2	21	.36	.12	70	30	.18	59	.05	34	.52	.03	.06	6	3

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn$ ppm
GH28-82-127	1	15	8	26	.2	24	12	376	2.39	2	2	ND	13	54	1	2	2	31	.66	.14	37	40	.43	80	.06	27	1.12	.06	.10	4	1
GH28-82-131	1	19	7	26	.1	32	21	718	2.85	2	2	ND	15	32	1	2	2	25	.40	.11	39	27	.40	113	.06	22	.95	.04	.12	7	1
GH28-82-137	1	8	6	23	.2	12	6	636	1.77	2	2	ND	31	23	1	2	2	24	.40	.10	63	34	.33	65	.04	28	.77	.03	.08	26	3
GH28-82-139	1	11	8	23	.1	20	7	296	1.83	2	2	ND	4	48	1	2	2	34	.54	.07	13	41	.64	102	.09	28	1.02	.09	.13	15	2
GH28-82-141	1	13	7	27	.1	19	8	378	1.77	2	3	ND	7	28	1	2	2	22	.32	.08	17	44	.37	101	.06	29	.82	.04	.15	2	2
GH28-82-145	1	12	7	37	.1	18	6	283	2.00	2	2	ND	6	19	1	2	2	21	.21	.06	16	26	.42	113	.08	28	.94	.03	.29	2	2
GH28-82-149	1	12	7	28	.1	19	7	317	2.02	2	3	ND	9	18	1	2	2	24	.25	.08	23	39	.30	83	.05	30	.67	.03	.16	10	1
GH28-82-151	1	11	7	28	.1	16	7	346	2.08	2	3	ND	12	8	1	2	2	14	.15	.06	29	19	.24	61	.04	29	.59	.02	.14	3	3
GH28-82-153	1	22	6	35	.1	24	10	348	2.34	2	2	ND	10	15	1	2	2	19	.28	.09	29	43	.32	71	.05	28	.72	.02	.15	5	2
GH28-82-155	1	21	8	38	.1	30	12	548	2.77	2	2	ND	8	21	1	2	2	26	.37	.08	22	40	.45	79	.07	28	.94	.04	.14	24	1
GH28-82-161	1	24	12	31	.2	28	18	336	2.85	4	2	ND	8	40	1	2	2	27	.66	.09	22	48	.52	101	.06	26	.88	.04	.11	3	2
GH28-82-165	1	53	11	61	.2	69	41	484	8.67	7	2	ND	3	23	1	2	2	150	.44	.09	7	150	1.97	72	.13	21	2.27	.02	.08	2	2
GH28-82-167	1	5	5	30	.1	10	4	331	1.18	2	2	ND	15	12	1	2	2	18	.20	.06	31	32	.26	58	.04	31	.64	.03	.07	6	3
GH28-82-175	1	16	8	33	.1	18	11	370	2.28	2	5	ND	10	25	1	2	2	27	.44	.11	23	22	.40	241	.04	29	.76	.03	.09	13	2
GH28-82-177	1	10	5	23	.2	10	10	216	1.66	2	2	ND	7	26	1	2	2	22	.31	.06	20	27	.35	80	.05	28	.70	.03	.10	8	2
GH28-82-181	1	10	6	34	.1	18	8	364	1.97	2	2	ND	14	35	1	2	2	27	.54	.14	40	29	.56	94	.06	29	1.03	.04	.12	4	2
GH28-82-183	1	12	7	38	.1	18	7	307	1.97	2	2	ND	6	41	1	2	2	26	.43	.07	15	40	.59	89	.05	26	1.33	.05	.16	2	3
GH28-82-189	2	60	24	57	.4	57	68	467	5.67	15	2	ND	4	50	1	2	2	59	1.23	.11	15	70	1.30	105	.14	25	1.52	.03	.09	3	2
GH28-82-191	1	41	23	56	.1	48	45	494	4.70	11	2	ND	3	401	1	2	2	58	1.03	.12	10	76	1.58	232	.11	25	1.58	.03	.08	5	3
GH28-82-193	1	15	16	38	.2	23	13	309	2.30	5	2	ND	5	43	1	2	2	30	.25	.04	9	34	.59	138	.07	30	.83	.02	.06	2	2
GH28-82-195	1	41	16	46	.2	50	38	309	3.77	35	2	ND	50	30	1	2	2	47	.74	.08	39	68	.75	61	.10	28	1.04	.02	.05	2	3
GH28-82-197	1	32	22	67	.2	47	15	406	3.34	5	3	ND	28	44	1	2	2	52	1.26	.07	16	75	.95	83	.14	25	1.67	.06	.11	3	1
GH28-82-199	1	19	13	55	.2	37	12	342	2.56	5	2	ND	10	29	1	2	2	42	1.00	.06	16	76	.77	75	.12	27	1.24	.04	.07	6	2
GH28-82-201	1	26	12	36	.1	35	21	366	2.96	3	2	ND	15	34	1	2	2	33	.50	.08	18	49	.77	176	.08	31	1.05	.03	.09	2	2
STD A-1	1	32	39	186	.4	37	13	1036	2.86	11	2	ND	2	30	1	2	2	56	.60	.11	7	84	.82	258	.09	9	2.14	.02	.21	2	1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn* ppm
STD A-1	1	31	39	188	.4	33	12	939	2.77	7	2	ND	2	33	1	2	2	52	.64	.11	9	72	.71	264	.08	11	1.89	.02	.21	2	1
GH26-82-205	1	67	30	113	.2	31	12	271	3.34	19	2	ND	7	14	1	2	2	21	.21	.05	19	18	.49	71	.03	2	.81	.02	.10	2	2

KIDD CREEK MINES LTD FILE#82-0368 PAGE 1 PROJECT SALMO #PAN CONC -40 MESH & MAGNETITE REMOVED & PULVERIZED#

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	SN* ppm	W* ppm
MC23-82 1																																
2	17	1546	884	1.1	18	7	140	1.75	7	3	ND	20	22	3	8	2	42	.64	.11	24	20	.42	140	.04	5	.68	.03	.10	2	3		
MC29-82 3																																
1	7	18	30	.2	9	4	238	1.41	5	2	ND	62	15	1	3	3	15	.18	.03	99	26	.20	62	.06	4	.53	.03	.09	2	6		
MC29-82 5																																
3	32	53	76	.3	28	21	231	3.55	15	2	ND	11	36	1	8	2	32	2.01	.08	27	33	.72	99	.05	7	.79	.02	.11	36	4	31	
MC29-82 7																																
2	23	24	69	.1	32	17	328	4.21	12	3	ND	11	21	1	7	2	20	.46	.07	31	38	.69	82	.02	8	1.56	.02	.14	2	1		
MC28-82 9																																
1	21	36	56	.1	31	19	333	4.05	15	2	ND	9	13	1	8	2	12	.39	.05	23	31	.48	87	.01	7	1.08	.01	.13	2	1		
MC28-82 13																																
1	6	9	19	.1	9	8	180	1.38	7	2	ND	7	6	1	3	2	6	.08	.02	20	22	.16	52	.02	3	.45	.02	.10	2	1		
MC28-82 19																																
1	10	12	33	.1	13	6	168	1.56	2	2	ND	6	26	1	3	2	14	.24	.03	18	33	.25	91	.03	4	.86	.04	.12	2	4		
MC28-82 21																																
1	9	16	24	.1	16	10	211	1.71	2	2	ND	8	8	1	4	2	11	.19	.04	19	37	.28	60	.03	6	.64	.01	.13	2	5		
MC28-82 27																																
1	5	7	19	.1	8	4	156	1.21	2	4	ND	5	19	1	2	2	14	.17	.03	19	37	.30	60	.05	3	.70	.04	.10	2	3		
MC28-82 29																																
1	14	7	20	.1	14	17	156	1.70	2	4	ND	14	38	1	4	2	25	.48	.09	31	35	.38	87	.08	4	.81	.07	.12	2	2		
MC28-82 31																																
1	9	7	20	.1	11	16	171	1.53	2	4	ND	18	37	1	3	2	28	.65	.14	43	24	.43	74	.09	4	.69	.06	.08	2	1		
MC28-82 33																																
1	13	10	18	.2	12	25	201	1.85	2	2	ND	48	42	1	4	2	33	.80	.18	85	17	.46	107	.11	4	.66	.06	.11	2	4		
MC28-82 37																																
1	8	5	28	.2	8	10	235	1.81	2	2	ND	37	35	1	3	2	42	.68	.17	69	15	.60	171	.15	3	.88	.06	.22	2	1		
MC28-82 39																																
1	11	7	30	.2	10	14	200	1.79	3	2	ND	32	35	1	4	2	36	.61	.15	68	15	.51	133	.11	4	.79	.05	.15	2	5		
MC28-82 43																																
1	16	5	19	.2	15	22	158	1.89	2	4	ND	20	33	1	6	2	28	.56	.12	56	23	.39	75	.08	4	.69	.04	.09	4	1		
MC28-82 45																																
1	6	9	29	.1	8	6	220	1.44	2	4	ND	9	14	1	3	2	21	.26	.03	27	25	.27	56	.06	4	.81	.03	.09	5	5		
MC28-82 47																																
1	8	9	31	.3	14	10	236	1.65	4	3	ND	55	29	1	3	2	34	.55	.10	115	29	.37	74	.13	5	.58	.06	.08	2	2		
MC28-82 49																																
2	14	27	165	.4	14	13	198	2.14	10	10	ND	101	18	1	5	2	22	.76	.07	122	23	.62	64	.08	6	.51	.04	.07	5	4	5	
MC28-82 55																																
2	6	6	39	.1	9	4	181	1.17	2	2	ND	20	16	1	4	2	19	.29	.05	51	31	.34	62	.06	4	.58	.05	.08	20	6	28	

Sn* W* by AA analysis

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn ppm
MC28-82-53																															
1	4	8	28	.1	8	3	222	1.21	2	2	ND	27	13	1	2	2	19	.19	.03	53	25	.21	59	.07	5	.58	.03	.09	2	2
MC28-82-57																															
1	8	12	37	.1	14	6	230	2.09	3	2	ND	40	19	1	2	2	28	.22	.04	60	25	.33	136	.04	4	.76	.02	.10	2	1
MC28-82-59																															
1	19	7	17	.1	18	31	195	2.48	2	5	ND	19	34	1	2	2	38	.58	.11	63	14	.35	66	.10	3	.68	.04	.08	2	3
MC28-82-63																															
1	7	8	16	.2	6	8	154	1.37	2	2	ND	61	19	1	2	10	20	.25	.05	113	17	.14	54	.07	3	.42	.03	.06	2	3
MC28-82-67																															
1	4	9	18	.4	5	3	296	1.40	2	2	ND	72	16	1	2	2	15	.14	.03	204	7	.15	87	.07	6	.41	.04	.07	2	3
MC28-82-69																															
4	15	18	76	.2	35	17	293	3.24	14	9	ND	10	46	1	2	3	32	.57	.13	35	26	.60	72	.10	5	.83	.03	.14	26	1
MC28-82-71																															
2	13	9	29	.2	12	20	204	1.98	2	6	ND	105	29	1	2	7	33	.63	.13	144	17	.31	58	.10	5	.56	.04	.06	29	1
MC28-82-75																															
2	13	26	62	.6	16	12	333	3.35	29	2	ND	33	33	1	2	2	44	.73	.11	110	21	.59	57	.16	6	1.14	.05	.21	3	1
MC28-82-77																															
1	8	29	96	.8	10	5	275	2.04	15	3	ND	12	25	1	2	2	28	.32	.07	42	14	.40	48	.06	3	.90	.03	.15	2	4
MC28-82-81																															
5	58	1474	1525	8.3	58	31	646	8.43	165	3	6	15	24	35	11	10	37	.37	.07	44	23	.60	54	.06	8	1.01	.02	.14	102	16
MC28-82-83																															
2	29	26	92	.4	23	16	276	3.07	12	2	ND	12	41	1	2	3	50	.94	.16	40	17	.50	95	.12	4	.75	.06	.18	4	1
MC28-82-85																															
2	46	31	124	.1	38	20	433	4.82	23	2	ND	4	36	1	2	3	71	.44	.07	12	77	1.14	64	.10	9	1.50	.03	.12	2	1
MC28-82-85B																															
2	17	23	82	.2	26	13	265	3.03	13	5	ND	7	35	1	3	3	29	.34	.08	26	22	.43	78	.05	4	.80	.04	.15	3	3
MC28-82-87																															
2	19	40	91	.6	21	13	280	2.82	14	5	ND	13	38	1	3	3	45	.80	.14	44	19	.50	82	.12	4	.79	.06	.17	7	4
MC28-82-93																															
1	7	3	14	.3	9	3	337	1.35	2	61	ND	223	12	1	2	2	10	.45	.16	606	12	.27	38	.05	7	.60	.04	.10	121	1
MC28-82-95																															
1	7	5	11	.1	8	3	290	1.32	2	6	ND	73	10	1	2	2	11	.27	.07	239	17	.28	35	.04	5	.58	.03	.10	10	1
MC28-82-99																															
1	6	4	15	.2	6	3	268	1.53	2	6	ND	92	15	1	2	2	17	.62	.21	240	11	.27	39	.06	6	.56	.04	.13	2	3

KIDD CREEK MINES FILE # 82-0488

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn ppm
MC28-82-111	1	3	9	11	.1	2	3	126	.93	2	9	ND	71	16	1	2	7	16	.78	.24	250	6	.15	24	.11	2	.37	.03	.05	13	1
MC28-82-113	1	8	10	16	.1	8	15	124	1.90	2	9	ND	82	15	1	2	2	31	.57	.15	243	35	.24	37	.14	2	.52	.03	.10	9	2
MC28-82-115	1	14	12	20	.2	10	14	156	1.97	5	4	ND	39	10	1	2	2	19	.44	.08	147	11	.37	50	.13	2	.72	.02	.19	13	1
MC28-82-117	3	8	12	13	.2	5	9	145	1.46	5	31	ND	268	21	1	2	30	25	1.18	.37	521	31	.18	28	.11	4	.44	.03	.06	222	1
STD A-1	1	30	40	177	.3	35	13	967	2.76	7	3	ND	3	32	2	2	2	57	.67	.10	9	79	.80	299	.09	4	2.01	.02	.17	2	1
MC28-82-119	7	16	4	13	.1	2	2	81	.64	3	9	ND	27	6	1	2	5	4	.11	.03	50	20	.05	16	.02	3	.25	.02	.05	143	1
MC28-82-121	2	5	6	20	.1	2	2	152	.98	3	20	ND	64	11	1	3	12	13	.24	.04	102	5	.09	22	.10	3	.38	.03	.06	192	1
MC28-82-125	2	4	8	19	.1	4	2	169	1.16	2	22	ND	205	26	1	2	13	26	1.32	.40	288	32	.22	27	.12	3	.52	.04	.08	103	2
MC28-82-127	2	3	13	18	.1	3	3	187	1.36	2	25	ND	260	34	1	2	2	28	1.56	.49	339	13	.26	31	.09	4	.57	.03	.06	6	1
MC28-82-129	1	3	9	12	.1	3	2	113	.73	2	13	ND	61	11	1	2	2	14	.36	.10	73	22	.17	32	.09	3	.39	.02	.07	3	1
MC28-82-131	1	5	8	13	.1	2	2	183	1.35	2	56	ND	423	18	1	3	23	21	.76	.22	205	9	.13	29	.17	2	.44	.03	.07	153	4
MC28-82-133	3	7	7	12	.2	3	3	142	1.17	7	82	ND	654	24	1	3	27	22	1.44	.47	378	28	.15	22	.13	3	.38	.04	.06	227	2
MC28-82-135	1	3	7	11	.1	3	2	130	1.37	2	25	ND	231	21	1	2	2	30	1.05	.33	303	12	.13	26	.14	4	.37	.03	.05	25	1
MC28-82-137	2	5	13	15	.2	4	4	138	2.65	9	62	ND	501	20	1	3	3	68	.72	.18	503	34	.15	30	.19	2	.45	.02	.06	9	4
MC28-82-139	5	5	13	34	.2	5	6	206	1.91	2	14	ND	52	21	1	4	2	36	.57	.06	176	15	.29	88	.17	2	.74	.03	.13	84	2
MC28-82-141	4	11	33	49	.2	12	16	358	1.63	6	2	ND	16	12	1	3	2	20	.90	.03	47	38	.52	56	.11	10	1.19	.02	.15	36	2
MC28-82-143	1	4	9	13	.1	2	3	137	1.20	2	20	ND	206	20	1	2	4	24	.80	.22	230	9	.17	35	.14	3	.44	.03	.08	21	3
MC28-82-145	2	16	8	30	.1	14	18	260	2.90	20	4	ND	26	7	1	5	2	20	.17	.03	67	39	.24	70	.05	3	.79	.02	.20	14	1
MC28-82-147	1	40	25	63	.1	26	26	303	5.25	40	6	ND	18	7	1	8	3	53	.16	.04	63	15	.85	72	.07	2	1.59	.01	.16	2	1
MC28-82-149	8	6	24	71	.3	8	8	198	2.10	11	21	ND	195	17	1	4	3	39	1.09	.32	345	37	.47	64	.15	4	.69	.03	.14	177	2
MC28-82-151	3	3	8	10	.2	2	2	181	1.49	2	20	ND	116	12	1	4	2	20	.61	.15	327	9	.10	25	.19	4	.32	.04	.06	67	4

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn* ppm
MC28-82-201	4	3	8	14	.3	2	3	344	1.09	5	54	ND	341	53	1	3	53	24	2.71	.96	849	9	.25	24	.05	2	.50	.04	.11	551	66
MC28-82-203	2	5	9	17	.5	3	4	229	1.51	10	67	ND	304	44	1	3	52	26	2.70	1.01	588	15	.22	27	.04	3	.49	.04	.11	459	7
MC28-82-205	2	5	9	13	.2	3	7	220	1.36	9	73	ND	414	47	1	3	78	22	2.98	1.16	567	9	.20	26	.04	2	.46	.04	.12	609	12
MC28-82-207	1	5	8	30	.2	5	7	272	1.52	4	16	ND	56	44	1	2	7	31	1.80	.64	204	11	.52	76	.05	2	.82	.04	.31	26	1
MC28-82-209	3	9	5	25	.3	5	15	227	1.76	8	22	ND	93	53	1	2	63	30	1.51	.50	325	11	.47	75	.07	3	.73	.03	.28	399	1
MC28-82-211	2	9	1	36	.1	5	6	192	1.29	7	13	2	42	34	1	5	67	22	.93	.30	159	10	.34	55	.08	2	.65	.03	.22	956	15
MC28-82-213	4	14	2	42	.2	11	12	265	1.73	8	9	ND	23	29	1	3	67	19	.51	.13	92	11	.54	69	.09	3	.87	.03	.28	645	4
MC28-82-217	1	38	14	46	.1	17	11	268	2.53	11	5	ND	7	10	1	2	2	37	.37	.03	15	22	.63	59	.11	5	1.36	.03	.27	12	1
MC28-82-219	1	42	16	61	.1	17	11	264	2.65	4	4	ND	5	9	1	2	2	52	.42	.03	16	18	.67	43	.11	2	1.33	.03	.21	3	1
MC28-82-221	1	25	19	52	.1	18	16	241	3.10	29	4	ND	6	5	1	2	2	26	.20	.03	21	13	.62	59	.06	3	1.05	.02	.18	4	1
MC28-82-223	1	28	15	58	.1	15	9	300	2.68	24	5	ND	9	11	1	2	2	36	.35	.03	30	18	.57	64	.11	2	1.31	.03	.32	11	1
MC28-82-225	1	22	20	45	.1	13	7	216	2.39	23	5	ND	8	9	1	2	2	20	.21	.03	31	15	.38	51	.07	2	.96	.02	.27	3	2
MC28-82-227	1	20	17	55	.1	11	7	250	2.69	29	5	ND	7	14	1	2	2	23	.23	.03	25	15	.43	56	.07	2	1.03	.02	.30	2	3
MC28-82-229	1	32	26	46	.2	20	26	230	3.66	61	4	ND	7	6	1	2	14	34	.31	.03	22	12	.51	52	.12	3	.93	.02	.15	33	28
MC28-82-231	1	40	14	51	.2	18	16	280	3.48	9	4	ND	8	8	1	2	2	44	.29	.04	20	19	.72	51	.10	3	1.31	.02	.25	2	2
MC28-82-233	1	4	5	29	.1	10	7	97	1.47	2	4	ND	4	3	1	2	2	7	.08	.03	21	8	.77	47	.01	2	.85	.01	.11	3	4
MC28-82-237	2	9	7	40	.1	12	13	249	1.86	2	4	ND	7	4	1	2	2	7	.10	.03	22	8	1.00	76	.03	2	1.24	.01	.23	2	1
MC28-82-239	2	7	10	25	.1	10	13	158	1.67	2	5	ND	5	4	1	2	10	7	.09	.03	15	7	.93	85	.01	3	.87	.01	.16	7	7
MC28-82-241	2	5	35	29	.1	10	8	105	1.60	2	4	ND	4	3	1	2	9	7	.09	.03	19	8	.82	82	.01	2	.91	.01	.14	8	3
MC28-82-243	1	11	8	28	.1	9	5	257	1.30	4	4	ND	6	15	1	2	2	9	.28	.05	22	11	1.07	79	.03	2	1.20	.02	.23	2	2
MC28-82-249	2	28	25	51	.1	27	40	267	3.68	25	5	ND	7	10	1	2	7	17	.23	.04	27	18	.78	100	.04	2	1.30	.02	.12	17	21
MC28-82-251	2	17	12	99	.1	39	16	324	3.86	11	6	ND	8	12	1	2	2	16	.12	.04	37	38	.96	37	.01	2	2.25	.02	.10	2	3
MC28-82-253	1	34	23	73	.1	28	34	339	3.48	45	5	ND	7	8	1	4	2	33	.27	.04	18	22	.70	45	.07	2	1.41	.02	.14	12	45
MC28-82-255	1	31	25	71	.9	16	17	271	3.66	30	4	7	6	8	1	2	2	47	.31	.03	20	14	.54	54	.13	2	1.26	.03	.23	2	5
MC28-82-245	2	24	29	31	.4	16	18	208	3.20	56	4	4	7	13	1	2	10	10	.24	.03	18	9	1.14	211	.02	2	1.24	.01	.17	15	1
MC28-82-257	1	20	14	37	.2	12	14	257	2.42	34	3	ND	4	5	1	2	2	35	.34	.04	12	9	1.09	53	.10	2	1.25	.02	.18	2	5
MC28-82-263	1	15	37	54	.1	8	9	310	3.39	112	4	ND	4	9	1	2	2	46	.52	.06	14	9	.49	39	.13	2	1.15	.04	.25	2	1
STD A-1	1	31	44	182	.3	35	13	1013	2.78	9	3	ND	2	34	2	2	2	57	.68	.11	10	76	.78	269	.09	5	2.00	.02	.21	2	1
MC28-82-265	1	14	12	29	.1	10	8	190	1.96	7	5	ND	8	9	1	2	2	24	.38	.05	30	11	.44	42	.08	3	.84	.03	.12	2	2
MC28-82-267	1	17	21	28	.1	12	16	217	2.51	17	7	ND	14	9	1	2	2	29	.47	.06	64	10	.38	30	.14	2	.77	.03	.10	11	68
MC28-82-269	2	24	34	47	.2	21	30	313	3.04	21	4	ND	5	9	1	2	3	24	.60	.04	14	19	1.64	123	.13	3	1.71	.03	.53	5	1
MC28-82-271	1	9	15	34	.1	12	11	218	1.73	7	6	ND	5	18	1	2	2	16	.33	.07	21	11	.98	68	.07	2	1.14	.02	.22	2	1
MC28-82-273	2	12	14	28	.1	7	7	171	1.26	5	4	ND	5	25	1	2	10	10	.45	.03	17	8	.40	54	.05	2	.84	.02	.15	2	1
MC28-82-277	1	32	16	58	.1	17	11	256	3.72	43	4	ND	5	11	1	2	2	37	.42	.03	15	33	.57	38	.08	3	1.30	.03	.18	2	1
MC28-82-279	1	10	13	23	.1	8	8	194	1.44	14	5	ND	7	30	1	2	2	15	.39	.08	26	8	.53	67	.05	3	.83	.02	.17	2	1
MC28-82-281	1	14	12	39	.1	12	11	201	2.08	9	5	ND	5	9	1	2	2	32	.20	.03	22	19	.64	57	.09	3	1.11	.03	.17	2	1
MC28-82-283	2	23	27	50	.1	18	20	280	3.54	17	4	ND	7	11	1	2	3	32	.35	.03	22	25	.75	73	.10	2	1.27	.03	.23	11	4
MC28-82-285	1	25	18	42	.1	13	9	232	2.64	14	4	ND	5	7	1	2	2	44	.38	.02	19	11	.56	48	.14	2	1.11	.03	.18	2	2
MC28-82-287	1	27	14	46	.2	14	9	309	2.27	24	4	ND	5	10	1	2	2	50	.50	.03	19	19	.64	53	.14	2	1.15	.04	.18	2	1
MC28-82-289	1	37	21	56	.1	15	11	289	3.28	15	4	ND	7	9	1	2	2	50	.44	.04	22	14	.68	56	.13	2	1.34	.04	.22	2	1
MC28-82-291	1	26	15	48	.2	13	9	259	2.51	29	5	ND	7	9	1	2	2	43	.42	.03	26	15	.58	57	.12	3	1.18	.04	.24	2	1
MC28-82-293	1	26	23	75	.1	18	12	314	3.59	51	5	ND	9	9	1	2	2	24	.21	.03	30	15	.67	50	.09	2	1.38	.02	.24	2	1
MC28-82-295	1	33	14	38	.2	13	9	222	2.48	20	4	ND	5	8	1	2	2	52	.46	.03	20	13	.49	36	.15	2	.97	.04	.17	4	1
MC28-82-297	1	28	16	37	.1	13	9	246	2.73	15	4	ND	5	10	1	2	2	47	.54	.03	18	19	.55	35	.13	3	1.11	.04	.17	2	2
STD A-1	1	31	41	183	.4	35	13	1021	2.80	10	3	ND	2	34	2	2	2	58	.68	.10	9	75	.78	270	.09	5	2.01	.02	.21	2	1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn* ppm
MC28-82-299	1	3	3	15	.1	4	2	168	.77	2	2	ND	4	7	1	2	2	6	.22	.05	10	5	.15	30	.03	2	.37	.02	.06	9	1
MC28-82-301	2	7	9	23	.1	7	4	350	1.13	4	34	ND	45	7	1	2	2	7	.25	.08	72	5	.10	23	.03	2	.32	.01	.05	101	4
MC28-82-303	3	4	10	21	.1	4	2	376	.76	3	38	ND	65	9	1	2	2	4	.25	.06	95	5	.07	43	.02	2	.29	.03	.06	24	1
MC28-82-305	3	7	9	31	.1	8	5	411	1.59	5	20	ND	34	21	1	2	12	10	.42	.08	61	8	.19	67	.04	2	.60	.03	.14	53	1
MC28-82-307	1	6	4	27	.1	9	4	229	1.18	5	3	ND	9	13	1	2	2	7	.25	.06	19	9	.23	38	.04	2	.59	.02	.12	26	3
MC28-82-309	3	11	9	26	.1	9	10	374	1.81	3	16	ND	21	15	1	2	16	10	.29	.08	42	10	.20	57	.05	2	.62	.03	.18	28	2
MC28-82-311	3	11	1	17	.1	10	10	426	1.87	8	6	ND	19	14	1	3	43	15	.61	.20	34	15	.24	36	.06	2	.55	.02	.10	558	1
MC28-82-313	1	13	4	21	.1	12	7	259	1.78	4	3	ND	10	16	1	2	6	18	.66	.16	23	18	.39	55	.07	2	.70	.03	.17	106	1
MC28-82-315	1	19	2	22	.1	12	8	291	1.72	4	14	ND	11	15	1	2	14	18	.71	.16	24	17	.38	59	.07	2	.66	.03	.15	212	1
MC28-82-319	1	14	3	21	.1	12	7	280	1.65	4	2	ND	4	18	1	2	7	28	1.18	.25	10	21	.50	56	.11	2	.75	.08	.13	167	1
MC28-82-321	1	21	3	21	.1	13	9	319	1.71	5	7	ND	7	18	1	2	14	27	1.22	.20	14	20	.46	63	.12	2	.63	.07	.09	171	1
MC28-82-323	1	4	1	14	.1	7	2	186	.70	2	2	ND	4	8	1	2	2	12	.40	.03	10	14	.19	19	.07	2	.35	.04	.03	18	1
MC28-82-325	1	23	4	27	.1	20	12	267	1.85	2	2	ND	3	20	1	2	3	28	1.16	.18	9	27	.56	77	.11	2	.72	.07	.10	27	1
MC28-82-327	1	6	3	10	.1	8	3	199	.93	2	2	ND	22	11	1	2	2	17	.55	.07	54	16	.25	26	.10	2	.43	.04	.05	48	1
MC28-82-331	2	47	14	62	.1	45	18	422	4.68	25	5	ND	14	5	1	2	4	9	.06	.04	27	23	.67	18	.02	2	1.31	.01	.04	2	1
MC28-82-333	2	66	20	55	.1	45	25	376	5.55	70	2	ND	15	7	2	2	24	10	.08	.05	29	20	.51	31	.04	3	1.04	.01	.06	14	5
MC28-82-335	8	8	9	39	.1	7	8	215	1.95	2	3	ND	10	13	1	2	56	8	.11	.04	42	5	.16	70	.03	2	.47	.02	.08	22	1
MC28-82-337	3	87	111	95	.7	55	96	391	8.63	75	2	ND	12	9	2	2	3	8	.26	.04	20	8	.44	178	.03	2	.68	.01	.08	5	4
MC28-82-339	3	59	40	89	.1	34	47	257	6.34	30	5	ND	17	10	2	2	3	9	.10	.04	26	8	.36	441	.02	3	.77	.01	.06	2	2
MC28-82-341	1	29	28	74	.1	18	15	323	3.07	13	2	ND	11	5	1	2	2	8	.13	.03	20	7	.43	133	.01	2	.81	.01	.09	2	1
MC28-82-343	3	53	70	94	.1	58	60	307	7.90	52	6	ND	12	9	2	2	54	8	.13	.04	20	10	.34	111	.02	2	.68	.01	.05	37	55
MC28-82-345	1	46	21	57	.1	44	21	324	4.94	27	4	ND	12	4	1	2	10	10	.05	.04	17	22	.53	32	.01	3	1.05	.01	.03	6	4
MC28-82-347	2	55	102	224	.6	53	44	381	6.79	58	2	ND	9	13	2	2	2	7	.40	.03	9	10	.58	240	.01	2	.75	.01	.07	2	1
MC28-82-349	4	95	97	151	1.3	109	120	393	14.20	132	5	2	10	10	2	3	2	9	.22	.04	5	13	.45	33	.01	2	.74	.01	.04	17	8
MC28-82-353	2	73	52	100	.1	80	66	412	9.06	101	2	ND	10	10	2	2	2	8	.18	.04	9	15	.54	158	.01	2	.92	.01	.05	8	14
MC28-82-355	4	88	120	94	1.0	81	100	375	11.12	182	9	2	18	12	2	2	135	10	.26	.06	26	13	.43	97	.02	2	.74	.01	.05	182	354
STD A-1	1	31	38	178	.3	33	12	994	2.77	8	2	ND	2	35	2	2	2	55	.66	.10	8	74	.76	291	.09	5	2.04	.02	.17	2	1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn$ ppm
MC28-82-357	1	25	11	38	.1	25	14	403	3.30	3	2	ND	4	16	1	2	3	44	1.17	.09	15	43	.82	73	.13	2	.87	.08	.14	4	1
MC28-82-361	1	43	25	84	.1	35	19	379	4.07	35	2	ND	9	4	1	2	2	7	.06	.03	19	14	.50	47	.01	3	.97	.01	.03	2	2
MC28-82-363	1	41	30	62	.1	32	24	398	4.36	26	2	ND	10	6	1	2	2	11	.13	.04	15	20	.46	73	.02	3	.85	.01	.06	15	1
MC28-82-365	1	46	26	67	.1	42	31	328	5.11	33	3	ND	9	10	1	2	2	10	.33	.05	16	15	.56	93	.02	3	.85	.01	.06	5	8
MC28-82-503	3	21	6	59	.1	27	9	397	2.70	6	2	ND	3	29	1	2	2	45	.42	.05	10	50	.85	113	.11	2	1.29	.03	.21	44	1
MC28-82-511	1	47	4	53	.1	29	11	365	2.54	7	2	ND	2	45	1	2	2	32	.58	.10	4	56	.82	65	.10	2	1.16	.02	.11	2	2
MC28-82-513	1	43	5	45	.1	29	11	321	2.61	10	2	ND	2	65	1	2	2	34	.66	.09	4	65	.94	56	.09	3	1.31	.02	.15	3	1
MC28-82-515	3	36	9	64	.3	22	11	639	3.35	7	2	ND	2	49	1	2	2	43	1.07	.08	8	26	.94	122	.13	2	1.45	.03	.14	34	1
MC28-82-519	1	6	5	19	.1	8	4	597	1.11	2	2	ND	5	10	1	2	2	7	.13	.02	13	7	.15	62	.02	2	.37	.02	.06	2	1
MC28-82-521	1	5	1	16	.1	28	6	228	.99	2	2	ND	5	9	1	2	2	8	.15	.03	13	15	.66	39	.03	2	.35	.02	.05	9	1
MC28-82-523	1	6	4	23	.1	14	5	293	1.20	2	2	ND	9	12	1	2	2	15	.21	.05	27	13	.49	58	.04	2	.61	.03	.08	12	2
MC28-82-527	1	11	5	29	.1	28	7	265	1.66	2	2	ND	8	34	1	2	2	26	.35	.06	21	36	.71	132	.08	2	.91	.05	.17	13	2
MC28-82-529	1	12	4	53	.1	232	44	648	4.72	2	16	ND	7	21	1	2	2	23	.37	.07	21	69	5.56	80	.07	2	.54	.07	.05	20	1
MC28-82-531	1	11	6	17	.1	6	5	270	1.17	2	2	ND	8	9	1	2	2	12	.22	.03	23	7	.21	32	.03	2	.44	.03	.06	42	1
MC28-82-533	1	9	1	17	.1	7	3	226	.95	5	2	ND	7	6	1	2	2	7	.22	.04	18	6	.14	20	.02	2	.33	.02	.04	150	6
MC28-82-537	1	8	7	28	.1	10	4	241	1.28	3	2	ND	12	24	1	2	2	16	.32	.05	52	13	.29	69	.05	2	.65	.05	.09	5	1
MC28-82-539	1	5	5	32	.1	5	3	253	1.46	2	2	ND	27	24	1	2	2	28	.58	.14	132	13	.30	69	.10	2	.73	.05	.10	5	1
MC28-82-541	1	9	7	39	.1	8	4	211	1.81	2	2	ND	22	17	1	2	2	28	.31	.06	95	16	.32	62	.10	2	.85	.04	.21	13	1
MC28-82-543	1	10	8	31	.1	8	4	292	1.41	2	2	ND	17	12	1	2	2	16	.25	.05	73	13	.24	76	.06	2	.58	.02	.11	15	1
MC28-82-545	1	9	4	20	.1	9	5	233	1.47	2	2	ND	8	25	1	2	2	30	.51	.07	48	18	.37	81	.11	2	.68	.06	.11	4	1
MC28-82-547	1	5	5	19	.1	7	4	197	1.29	2	2	ND	12	24	1	2	2	30	.45	.08	64	13	.35	78	.12	2	.70	.05	.10	13	1
MC28-82-549	1	10	4	19	.1	12	14	219	1.48	2	6	ND	30	31	1	2	2	30	.89	.24	140	24	.47	63	.10	2	.62	.05	.09	5	1
MC28-82-551	1	8	5	21	.1	13	10	232	1.68	2	2	ND	36	30	1	2	2	36	.93	.21	210	27	.53	92	.15	2	.70	.06	.12	2	1
MC28-82-553	1	6	4	19	.1	10	5	199	1.52	2	2	ND	20	23	1	2	2	30	.63	.16	103	25	.39	79	.10	2	.59	.04	.11	4	1
STD A-1	1	30	39	175	.3	33	12	978	2.73	7	2	ND	2	34	2	2	2	54	.65	.10	8	70	.75	286	.09	5	2.03	.02	.17	2	1

KIDD CREEK MINES LTD FILE#82-0368 PAGE 2 PROJECT SALMO #PAN CONC ARE -40 MESH & MAGNETITE REMOVED & PULVERIZED#

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn* ppm	Wt* ppm
PL28-82 1	10	59	46	453	.3	54	12	227	5.92	17	10	ND	8	27	9	3	6	229	.70	.21	27	54	.58	177	.07	12	1.51	.02	.20	2	4	
PL28-82 3	6	70	123	414	2.8	38	10	172	3.58	24	11	ND	5	30	8	4	7	207	3.68	.51	16	40	1.74	86	.04	11	1.15	.02	.20	3	2	
PL28-82 5	8	37	38	448	.5	39	11	242	4.01	10	11	ND	7	30	5	5	4	189	.72	.16	23	50	.66	93	.14	10	1.39	.04	.27	2	1	
PL28-82 9	1	5	6	34	.1	5	1	170	.72	2	7	ND	4	8	1	2	2	18	.11	.02	9	22	.11	33	.03	2	.45	.03	.09	2	2	
PL28-82 11	6	106	264	395	3.8	38	15	218	4.94	34	15	ND	9	27	8	4	13	173	3.46	.43	19	38	1.70	79	.04	10	.95	.02	.16	13	7	16
PL28-82 13	2	10	15	56	.6	20	8	318	1.92	2	4	ND	8	9	1	2	3	16	.19	.04	29	70	.37	79	.03	6	1.04	.02	.24	2	2	
PL28-82 15	1	12	10	31	.1	20	11	171	2.15	2	6	ND	7	9	1	2	3	13	.10	.03	18	38	.36	55	.03	10	.93	.01	.12	2	1	
PL28-82 17	2	7	7	29	.1	15	6	244	1.68	2	11	ND	7	13	1	2	2	15	.13	.03	25	62	.26	58	.04	4	.76	.03	.11	2	3	
PL28-82 19	3	6	8	17	.1	8	2	367	.85	2	2	ND	7	6	1	2	2	5	.05	.01	13	60	.07	40	.02	4	.46	.06	.14	2	1	
PL28-82 21	3	8	8	18	.1	11	6	693	1.25	3	8	ND	8	8	1	2	8	7	.18	.02	17	51	.08	43	.03	4	.57	.06	.13	3	4	
PL28-82 23	2	7	6	23	.1	14	5	409	1.59	2	4	ND	9	10	1	2	2	14	.14	.03	25	56	.20	50	.05	5	.63	.03	.11	3	1	
PL28-82 25	2	4	4	11	.1	6	2	423	.63	2	4	ND	10	5	1	2	4	4	.12	.01	23	39	.05	30	.03	3	.35	.04	.09	4	3	
PL28-82 27	2	6	6	23	.1	12	4	299	1.10	2	4	ND	9	9	1	2	2	11	.15	.02	21	44	.18	42	.03	3	.56	.03	.10	2	5	3
PL28-82 29	3	7	7	28	.1	12	4	602	1.29	2	2	ND	31	11	1	2	2	13	.21	.03	66	63	.15	52	.05	3	.61	.05	.13	6	3	9
PL28-82 31	138	409	383	986	5.8	36	110	1783	18.31	1954	6	13	9	37	1	45	79	16	2.47	.08	17	14	1.05	39	.02	17	.52	.01	.05	4203	20	6300
* PL28-82 33	7	22	64	114	.3	12	7	322	1.51	28	8	ND	13	19	1	2	6	29	1.03	.06	19	28	.26	83	.02	4	.50	.03	.07	207	3	203
* PL28-82 35	2	29	33	68	.1	33	22	300	3.57	15	6	ND	9	18	1	2	3	11	.89	.06	21	27	.41	80	.01	7	.88	.01	.15	12	6	9
PL28-82 37	2	19	15	70	.1	33	17	360	3.33	4	4	ND	7	28	1	2	4	31	.39	.07	20	44	.95	72	.03	7	1.77	.04	.14	3	1	2
PL28-82 39	2	18	13	45	.1	27	15	205	2.44	2	7	ND	6	33	1	2	3	23	.44	.06	18	48	.57	84	.04	6	1.19	.04	.16	4	3	
PL28-82 41	5	78	25	132	.2	72	57	242	6.39	29	7	ND	7	36	2	2	4	29	.55	.11	19	37	.57	102	.02	12	1.09	.02	.09	3	4	
PL28-82 45	3	41	18	90	.2	47	34	224	3.92	11	7	ND	7	29	1	2	3	25	.43	.10	20	37	.56	90	.03	9	1.05	.02	.11	3	1	
PL28-82 43	4	59	21	151	.2	55	35	239	4.65	12	7	ND	8	22	2	2	3	41	.45	.15	21	36	.55	87	.03	10	1.13	.02	.11	2	2	

Sample # PL 28-82 33 and 35 maybe contaminated by sample #31

PL28-82-47	1	8	13	67	.1	5	7	548	2.98	2	6	ND	16	38	1	3	3	55	1.14	.11	52	12	.71	40	.18	4	1.37	.13	.26	87	2	
PL28-82-49	2	29	14	86	.1	33	15	249	3.11	6	7	ND	7	39	1	3	2	34	.51	.09	24	29	.71	125	.05	6	1.41	.04	.15	4	3	
PL28-82-53	1	6	10	67	.1	5	7	513	2.90	2	12	ND	19	34	1	2	2	49	.93	.12	59	11	.70	41	.18	6	1.35	.09	.32	54	4	
PL28-82-55	1	29	14	83	.1	32	18	298	3.28	7	9	ND	10	39	1	4	2	37	.59	.11	32	27	.70	114	.07	6	1.38	.05	.18	14	1	

* Sn & W by AA analysis.

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn* ppm
PL28-82-65																															
2	31	16	104	.1	34	20	283	3.50	8	2	ND	12	34	1	2	3	39	.63	.13	35	34	.61	89	.07	23	1.13	.05	.15	22	1
PL28-82-67																															
1	10	113	566	.4	11	5	242	2.27	5	2	ND	10	40	2	4	3	35	5.43	.10	28	14	3.26	53	.07	22	.59	.03	.10	12	1
PL28-82-69																															
1	20	20	510	.1	39	10	356	3.09	12	2	ND	7	37	2	2	2	46	.79	.09	23	53	.93	113	.11	22	1.58	.08	.21	7	1
PL28-82-73																															
1	29	49	261	.3	30	21	279	3.38	16	2	ND	13	33	1	3	3	31	1.35	.13	37	21	.84	68	.06	19	.76	.03	.11	16	1
PL28-82-75																															
1	40	13	54	.3	24	23	280	2.65	8	2	10	9	31	1	2	2	51	.48	.09	18	34	.75	139	.07	16	.96	.04	.18	14	1
PL28-82-77																															
1	34	8	57	.1	28	13	275	2.56	6	2	ND	7	27	1	2	2	60	.52	.08	21	50	.82	108	.08	16	1.04	.04	.19	8	1
PL28-82-79																															
1	34	10	88	.1	27	10	368	2.84	9	2	ND	7	39	1	5	2	66	.52	.10	24	31	.87	159	.10	15	1.23	.04	.27	5	2
PL28-82-81																															
1	13	17	42	.2	16	9	240	1.99	2	2	ND	29	37	1	3	2	33	.53	.10	96	25	.41	66	.09	16	.71	.04	.12	39	1
PL28-82-83																															
1	9	9	44	.2	11	5	270	1.75	2	2	ND	21	33	1	3	2	30	.53	.09	77	11	.40	55	.09	11	.75	.05	.11	23	1
PL28-82-85																															
1	5	7	39	.1	6	3	254	1.39	2	2	ND	12	25	1	2	2	28	.46	.07	44	20	.38	44	.09	12	.81	.05	.13	4	1
PL28-82-87																															
1	8	9	49	.2	7	4	287	1.62	2	2	ND	25	25	1	2	2	31	.60	.09	92	11	.34	40	.11	8	.67	.04	.10	42	1
PL28-82-89																															
1	14	21	39	.2	17	10	215	1.95	7	2	ND	34	36	1	2	2	28	.55	.12	95	19	.37	58	.07	7	.61	.03	.10	33	1
PL28-82-91																															
1	13	10	51	.3	13	6	444	2.12	5	2	ND	35	29	1	2	2	34	.49	.08	128	16	.51	58	.09	10	.96	.04	.14	5	1
PL28-82-93																															
1	11	10	86	.1	18	5	324	2.01	5	2	ND	10	36	1	2	2	47	.44	.07	35	28	.63	84	.09	9	1.21	.05	.19	2	1
PL28-82-95																															
2	27	14	83	.1	37	10	613	3.19	7	2	ND	9	22	1	4	4	47	.27	.06	29	29	.73	102	.08	8	1.53	.03	.20	2	1
PL28-82-97																															
2	20	11	83	.2	26	8	561	2.79	7	2	ND	14	35	1	3	3	45	.49	.08	53	36	.70	89	.10	7	1.27	.05	.17	4	1
PL28-82-99																															
1	8	10	51	.4	10	5	475	2.21	3	2	ND	50	36	1	2	2	35	.64	.07	188	13	.47	63	.14	10	1.06	.07	.19	10	2
PL28-82-103																															
1	21	23	151	.1	16	12	229	2.15	10	2	ND	11	37	1	2	2	43	.53	.07	26	28	.54	232	.08	7	.91	.04	.11	4	1
PL28-82-105																															
1	31	20	61	.1	35	15	393	3.60	18	2	ND	11	31	1	2	3	37	.31	.06	28	35	.63	97	.05	7	1.21	.03	.16	8	11
PL28-82-107																															
1	23	10	32	.1	15	19	281	2.37	8	2	ND	51	32	1	3	3	37	.39	.07	72	28	.48	48	.07	7	.73	.03	.08	4	1
PL28-82-109																															
1	24	13	30	.1	18	26	349	2.94	18	2	ND	35	28	1	3	2	43	.42	.09	95	25	.53	75	.10	7	.81	.03	.11	5	5
PL28-82-111																															
1	20	23	75	.1	40	13	403	3.04	12	2	ND	11	31	1	3	4	35	.39	.05	24	42	.79	63	.04	6	1.29	.03	.12	27	1
PL28-82-113																															
1	32	20	65	.1	212	33	581	4.76	29	2	ND	9	45	1	6	6	55	.44	.10	24	56	3.64	67	.05	9	1.11	.02	.10	15	1
PL28-82-115																															
1	44	14	66	.1	31	19	476	4.30	14	2	ND	4	53	1	2	4	110	.77	.10	11	54	1.23	100	.12	10	1.96	.04	.12	3	4
PL28-82-117																															
1	40	26	67	.1	60	22	511	4.52	28	2	ND	3	40	1	8	4	73	.52	.10	11	44	1.70	84	.07	10	1.74	.03	.10	8	2
PL28-82-119																															
1	40	15	59	.1	45	24	440	4.44	20	5	ND	3	55	1	3	3	84	.83	.11	13	55	1.40	89	.08	9	1.65	.04	.11	21	2
PL28-82-121																															
1	28	12	47	.1	16	11	359	2.87	5	4	ND	2	169	1	2	2	72	3.19	.09	11	28	1.50	82	.08	16	1.41	.04	.08	2	2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn ppm
PL28-82-123																															
1	18	11	54	.1	17	9	334	2.77	5	6	ND	4	51	1	2	3	63	.94	.08	9	28	.95	72	.07	11	1.45	.04	.09	2	1
PL28-82-125																															
1	26	20	56	.1	21	12	359	3.09	13	5	ND	6	55	1	2	3	62	.84	.09	15	31	.91	91	.07	6	1.38	.04	.12	4	3
PL28-82-127																															
1	25	18	44	.1	18	15	319	2.88	13	5	ND	7	51	1	2	2	54	.64	.09	28	32	.68	82	.08	5	1.16	.05	.14	5	1
PL28-82-129																															
1	19	15	44	.1	16	10	315	2.46	6	12	ND	4	62	1	2	2	55	1.36	.08	17	29	.77	106	.08	5	1.32	.05	.18	4	2
PL28-82-131																															
2	54	31	35	.1	40	133	251	6.34	9	2	ND	6	19	1	2	6	36	.31	.05	19	30	.43	277	.12	7	.63	.02	.08	3	29
PL28-82-133																															
1	42	22	38	.1	33	93	315	6.51	2	2	ND	6	10	1	2	4	35	.27	.05	17	14	.51	93	.09	8	.85	.01	.12	9	3
PL28-82-135																															
2	26	12	78	.1	21	31	394	4.73	2	3	ND	9	15	1	4	3	41	.20	.05	21	34	.98	73	.10	6	1.68	.02	.19	3	1
PL28-82-141																															
1	12	6	28	.1	8	6	252	2.16	2	4	ND	7	5	1	2	3	20	.15	.02	14	12	.46	44	.10	3	.96	.02	.25	10	2
PL28-82-143																															
1	26	10	50	.1	12	8	253	3.57	2	2	ND	6	7	1	3	3	27	.13	.03	16	22	.56	74	.11	5	1.28	.02	.41	16	1
PL28-82-145																															
1	11	5	31	.1	7	6	644	2.52	2	8	ND	4	5	1	2	3	22	.23	.02	16	14	.42	38	.10	4	1.05	.02	.20	90	2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn# ppm
PL28-82-147	1	21	11	83	.1	15	10	488	4.56	2	2	ND	8	8	1	3	4	33	.11	.03	20	23	1.04	103	.13	5	2.15	.02	.69	14	1
PL28-82-149	1	12	8	27	.1	13	11	161	2.15	2	2	ND	5	8	1	2	2	18	.09	.02	18	16	.53	79	.10	4	1.00	.01	.37	24	2
PL28-82-151	1	14	6	33	.1	12	12	260	2.65	2	2	ND	5	5	1	2	3	22	.09	.02	15	17	.63	83	.11	3	1.33	.02	.49	33	6
PL28-82-153	1	12	4	23	.1	8	5	174	1.91	2	2	ND	4	4	1	2	2	15	.08	.02	11	13	.37	43	.08	2	.77	.02	.30	7	3
PL28-82-155	1	13	5	26	.1	10	10	411	2.59	2	2	ND	6	7	1	2	7	21	.17	.02	21	14	.43	55	.09	4	.96	.02	.28	143	19
PL28-82-157	1	31	14	41	.1	16	9	215	3.69	4	2	ND	6	14	1	2	3	32	.19	.04	17	21	.43	116	.09	4	1.03	.04	.33	9	3
PL28-82-159	1	6	12	48	.7	4	5	284	1.87	6	9	ND	23	25	1	2	3	26	.65	.15	110	6	.31	30	.12	3	.67	.04	.13	12	1
PL28-82-163	1	6	12	35	.7	4	11	290	2.25	2	2	ND	32	37	1	3	2	30	.73	.09	162	8	.25	28	.27	3	.62	.06	.11	4	1
PL28-82-167	1	5	7	37	.5	4	7	327	2.13	2	2	ND	24	45	1	2	2	33	.83	.10	137	7	.30	32	.27	4	.68	.07	.11	2	1
PL28-82-169	1	3	6	30	.3	2	3	237	1.31	3	5	ND	15	28	1	2	2	19	.58	.10	77	6	.23	21	.13	3	.49	.04	.08	2	2
PL28-82-173	1	4	10	53	.8	4	4	422	2.07	2	2	ND	23	41	1	2	2	33	.90	.10	121	8	.39	29	.23	3	.82	.07	.12	2	3
PL28-82-175	1	4	7	43	.2	4	6	260	1.65	2	2	ND	15	33	1	2	2	22	.51	.10	79	5	.28	28	.12	5	.63	.04	.09	2	1
PL28-82-179	1	11	13	40	.5	16	10	173	2.19	4	3	ND	11	78	1	2	2	18	1.30	.11	45	19	.36	28	.07	3	.52	.03	.08	2	15
PL28-82-181	1	5	7	25	.4	3	6	204	1.38	2	3	ND	26	26	1	2	2	20	.53	.09	122	13	.20	22	.16	6	.44	.04	.09	3	3
PL28-82-183	1	7	14	29	.5	31	11	235	2.00	4	5	ND	24	33	1	2	2	21	.68	.15	107	15	.60	28	.14	3	.46	.04	.09	3	2
PL28-82-185	1	8	14	48	.3	15	8	263	2.10	2	8	ND	16	38	1	2	2	24	.60	.12	73	32	.44	39	.12	3	.82	.04	.10	3	3
PL28-82-187	2	114	293	690	48.3	2	3	2204	1.92	1699	2	ND	26	25	5	46	3	20	.42	.07	111	4	.26	38	.10	4	.58	.04	.10	2	28
PL28-82-193	1	4	14	60	.6	3	4	307	1.74	12	2	ND	23	26	1	2	2	28	.61	.10	92	20	.28	27	.14	4	.59	.05	.11	13	1
PL28-82-195	1	35	258	377	10.5	2	4	2796	1.79	191	2	ND	26	31	4	13	4	19	.50	.10	106	5	.26	46	.10	3	.57	.04	.11	4	5
PL28-82-201	1	3	11	24	.4	2	2	153	.88	2	2	ND	31	16	1	2	2	9	.28	.05	69	15	.10	34	.08	3	.30	.03	.08	2	2
PL28-82-203	1	19	137	199	7.5	3	5	1258	1.78	144	2	ND	41	37	2	8	2	22	.64	.12	147	7	.26	50	.12	2	.58	.04	.11	10	5
PL28-82-205	1	5	16	49	.4	3	4	187	1.15	2	3	ND	24	29	1	2	3	18	.56	.12	74	13	.22	33	.10	2	.49	.03	.10	2	1
PL28-82-211	2	11	62	118	2.8	3	7	575	1.72	37	4	ND	42	33	1	3	3	22	.70	.11	128	5	.23	36	.18	3	.54	.04	.11	11	1
PL28-82-213	1	44	16	41	.2	10	7	286	1.91	2	4	ND	11	39	1	2	2	30	.89	.11	40	25	.38	50	.12	4	.66	.05	.10	4	2
PL28-82-215	1	4	10	31	.2	2	2	230	1.41	2	2	ND	16	40	1	2	2	20	.64	.11	49	7	.23	30	.13	2	.59	.04	.13	2	2
PL28-82-217	1	5	153	152	.5	3	2	192	1.09	2	2	ND	11	29	1	2	2	18	.48	.08	45	18	.24	39	.09	2	.57	.03	.11	2	1
PL28-82-219	1	5	10	40	.3	4	5	290	2.19	2	11	ND	35	44	1	2	5	35	.84	.14	124	9	.28	36	.18	4	.64	.06	.11	90	3

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn ppm
PL28-82-221																															
2	3	12	31	.3	6	4	245	1.35	2	6	ND	27	32	1	2	2	19	.62	.08	88	33	.22	39	.23	3	.52	.06	.09	7	5
PL28-82-225																															
1	3	31	50	.2	4	3	230	1.70	2	5	ND	35	26	1	2	2	20	.40	.09	64	6	.23	46	.09	2	.52	.04	.10	3	2
PL28-82-227																															
1	7	6	29	.2	4	5	232	1.79	2	5	ND	14	27	1	2	5	43	.43	.08	27	8	.17	30	.16	9	.43	.04	.10	77	1
PL28-82-229																															
1	5	6	29	.1	5	2	208	1.02	2	4	ND	5	22	1	2	2	19	.24	.04	18	9	.20	31	.08	5	.42	.04	.10	17	1
PL28-82-237																															
1	6	6	33	.1	5	3	208	1.30	2	4	ND	8	19	1	2	2	23	.24	.05	18	10	.18	32	.08	8	.43	.04	.10	4	2
PL28-82-239																															
1	4	6	21	.1	4	2	165	1.34	2	4	ND	14	18	1	2	2	22	.19	.03	19	6	.14	37	.06	5	.39	.05	.11	2	2
PL28-82-245																															
1	7	15	28	.5	8	6	184	2.60	2	11	ND	47	24	1	2	6	49	.33	.08	29	13	.18	32	.08	11	.29	.03	.08	8	1
PL28-82-247																															
1	8	6	19	.1	10	4	281	1.98	2	6	ND	42	10	1	2	2	23	.32	.05	118	20	.43	42	.07	7	.89	.04	.17	2	1
PL28-82-255																															
1	7	6	21	.2	6	3	202	1.46	2	6	ND	79	13	1	2	2	20	.48	.17	223	12	.31	62	.08	9	.70	.05	.22	3	2
PL28-82-257																															
1	5	7	19	.2	5	4	244	1.37	2	6	ND	83	19	1	2	3	17	.58	.17	301	10	.24	46	.10	6	.57	.05	.14	4	1
PL28-82-259																															
1	4	4	19	.2	4	3	154	1.30	2	2	ND	72	20	1	2	2	18	.73	.27	295	8	.23	51	.10	8	.48	.05	.16	4	2
PL28-82-261																															
1	9	7	27	.2	42	9	243	1.79	4	7	ND	10	36	1	2	2	29	.61	.15	39	92	.98	114	.10	13	.69	.04	.19	2	1
PL28-82-263																															
1	8	5	23	.1	66	11	240	1.94	2	4	ND	7	26	1	2	2	26	.57	.16	34	1	1.39	69	.08	9	.52	.03	.18	2	2
PL28-82-265																															
1	7	4	21	.1	46	9	185	1.57	2	7	ND	13	24	1	2	2	21	.43	.12	38	73	.99	89	.08	8	.47	.03	.18	2	1
PL28-82-267																															
1	4	5	16	.1	19	4	127	1.22	2	8	ND	42	16	1	2	2	10	.25	.07	114	23	.42	75	.07	5	.34	.04	.15	2	2
PL28-82-269																															
1	4	6	16	.2	4	3	139	1.17	3	10	ND	37	14	1	2	2	16	.30	.06	100	10	.18	41	.11	4	.34	.05	.11	2	1
PL28-82-271																															
1	4	6	22	.1	5	2	202	1.05	2	4	ND	17	18	1	2	2	14	.46	.11	59	10	.20	78	.08	5	.40	.06	.12	2	2
PL28-82-273																															
1	4	6	25	.2	5	3	247	1.32	2	8	ND	42	21	1	2	2	21	.76	.19	130	10	.25	57	.13	7	.44	.06	.12	7	2
PL28-82-275																															
1	5	6	17	.2	12	6	171	1.76	2	11	ND	87	29	1	2	2	27	.66	.18	281	58	.43	37	.08	8	.36	.04	.08	2	5
PL28-82-277																															
1	3	5	16	.2	26	5	161	1.16	2	6	ND	59	28	1	2	2	16	.60	.17	201	51	.60	38	.08	11	.32	.05	.09	2	1
PL28-82-279																															
1	4	7	19	.2	12	5	192	1.58	2	13	ND	113	29	1	2	2	22	.82	.25	366	46	.41	48	.11	9	.41	.06	.11	2	2
PL28-82-281																															
1	4	5	27	.1	4	2	269	1.16	2	3	ND	18	14	1	2	2	21	.40	.04	67	13	.29	33	.10	7	.51	.07	.12	2	1
PL28-82-283																															
1	7	5	21	.2	10	3	268	1.37	2	11	ND	40	22	1	2	2	19	.86	.22	134	14	.35	53	.09	10	.58	.06	.10	4	1
PL28-82-287																															
1	6	7	19	.2	11	2	281	1.23	2	7	ND	51	17	1	2	2	17	.53	.10	141	17	.33	53	.08	7	.68	.07	.13	5	1
STD A-1																															
1	29	41	171	.3	34	12	978	2.79	10	2	ND	2	32	1	2	3	54	.66	.11	9	75	.81	270	.09	14	2.10	.02	.23	2	1

KIDD CREEK MINES LTD FILE#82-0368 PAGE 3 PROJECT SALMO #PAN CONC ARE -40 MESH & MAGNETITE REMOVED & PULVERIZED#

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn* ppm	W* ppm
SE28-82 1																																
2	12	9	31	.1	18	8	233	1.93	2	5	ND	5	14	1	2	6	25	.15	.02	18	63	.47	68	.08	6	.78	.01	.17	2	1	
SE28-82 3																																
1	10	9	22	.1	22	8	197	1.72	2	7	ND	4	9	1	2	2	22	.12	.02	15	72	.47	59	.07	5	.68	.01	.13	2	2	
SE28-82 5																																
2	15	15	35	.1	23	16	302	2.77	3	2	ND	9	12	1	2	3	16	.12	.04	24	51	.38	126	.09	7	.84	.01	.14	2	1	3
SE28-82 9																																
2	59	533	870	2.0	29	22	578	3.57	2	4	ND	8	84	4	2	6	19	4.68	.10	19	34	.81	78	.05	8	1.28	.03	.25	135	4	145
SE28-82 11																																
2	46	351	91	4.0	24	21	327	3.56	5	5	48 *	7	16	1	11	6	16	.20	.04	18	58	.38	191	.07	10	.85	.02	.19	45	64	60
SE28-82 15																																
3	74	264	197	4.6	27	27	265	4.32	2	5	47 *	13	16	2	10	9	31	.49	.08	20	41	.41	133	.06	10	.68	.02	.11	89	59	99
SE28-82 17																																
5	100	202	341	4.9	32	13	226	4.26	27	7	61 *	9	26	7	2	13	152	3.03	.37	23	38	1.53	84	.05	11	.98	.02	.19	10	4	7
SE28-82 19																																
2	4	6	13	.1	7	3	103	.82	2	2	ND	6	4	1	2	2	9	.07	.01	23	37	.09	22	.04	4	.27	.01	.06	2	2	
SE28-82 23																																
2	13	14	50	.1	26	9	293	2.50	4	4	ND	8	46	1	2	3	28	.47	.05	30	76	.59	155	.06	7	1.76	.07	.30	2	2	
SE28-82 25																																
3	8	5	21	.1	14	6	179	1.64	2	3	ND	8	11	1	2	2	15	.11	.02	32	70	.20	54	.07	4	.59	.03	.11	2	1	
SE28-82 27																																
3	7	4	10	.1	9	3	232	1.02	2	2	ND	4	4	1	2	3	7	.04	.01	13	60	.08	36	.02	3	.31	.03	.10	2	1	
SE28-82 29																																
3	10	4	12	.1	9	5	223	1.35	2	3	ND	5	4	1	2	3	5	.02	.01	14	51	.08	43	.02	4	.31	.02	.10	2	4	
SE28-82 33																																
2	16	19	43	.1	21	16	517	2.71	3	6	ND	12	18	1	2	4	14	.32	.05	37	51	.31	70	.07	7	1.08	.02	.29	2	6	
SE28-82 35																																
3	10	13	54	.4	18	6	479	1.60	2	5	ND	75	20	1	2	3	33	.56	.07	131	38	.20	44	.08	6	.81	.04	.12	22	9	32
SE28-82 37																																
3	15	121	162	.4	12	3	492	1.36	2	2	ND	136	10	2	2	3	76	.55	.09	226	42	.14	64	.08	4	.62	.05	.11	24	10	44
SE28-82 39																																
3	10	24	88	.4	10	5	645	1.43	2	2	ND	139	9	1	2	3	50	.30	.07	230	31	.12	58	.08	4	.60	.04	.10	21	11	39
SE28-82 41																																
8	64	63	706	.5	50	8	224	3.93	2	9	ND	11	47	10	2	5	177	1.65	.26	37	66	.63	453	.07	12	1.32	.05	.13	179	8	290
SE28-82 43																																
6	10	34	58	.1	12	5	454	1.31	2	6	ND	45	11	1	2	3	29	.28	.05	75	31	.15	52	.05	4	.52	.03	.08	32	12	46
SE28-82 45																																
5	10	38	62	.3	11	5	540	1.36	2	4	ND	78	11	1	2	5	27	.33	.06	140	36	.14	66	.05	5	.49	.04	.09	135	3	200
SE28-82 47																																
3	7	14	32	.2	13	5	497	1.34	2	2	ND	41	13	1	2	3	20	.29	.04	81	46	.16	51	.07	4	.61	.04	.12	7	4	10
SE28-82 49																																
3	20	278	281	.5	25	9	204	2.86	20	9	ND	15	46	1	2	6	29	4.16	.07	34	36	.64	99	.05	7	.76	.03	.14	64	2	3

Sn* W* by AA analysis

KIDD CREEK MINES LTD PROJECT # 28 FILE # 82-0434 PAGE # 2.2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn* ppm
SE28-82-51	3	38	35	258	.3	59	16	400	3.77	17	5	ND	7	29	1	2	3	47	.58	.18	26	48	.56	277	.06	5	.91	.03	.17	2	2
SE28-82-53	2	22	17	93	.2	19	12	351	2.99	2	3	ND	15	35	1	2	2	53	1.05	.17	62	16	.51	99	.15	4	.92	.09	.19	2	1
SE28-82-61	4	49	48	216	.2	49	28	527	5.38	33	2	ND	14	28	1	2	4	50	.70	.17	60	29	.45	146	.09	8	.86	.05	.16	6	1
SE28-82-63	1	9	21	78	.2	12	6	330	2.30	8	7	ND	15	24	1	2	2	32	.34	.05	47	18	.44	59	.08	3	1.04	.04	.17	2	7
SE28-82-69	3	35	53	263	.8	36	19	408	4.18	32	4	ND	15	27	2	4	4	45	.54	.12	51	25	.46	125	.09	5	.94	.05	.18	6	3
SE28-82-71	1	3	15	56	.5	4	3	294	1.81	2	7	ND	23	29	1	2	2	17	.48	.08	81	6	.38	44	.14	8	.91	.06	.16	2	1
SE28-82-73	1	6	15	46	.9	5	5	278	1.86	3	4	ND	26	24	1	2	2	21	.43	.07	85	9	.38	46	.13	8	.91	.05	.16	16	1
SE28-82-75	1	7	15	41	1.5	3	4	267	1.79	5	7	ND	37	24	1	2	2	16	.47	.06	125	5	.29	30	.18	7	.79	.05	.12	9	2
SE28-82-79	1	6	9	32	.3	4	3	215	1.55	2	12	ND	19	26	1	2	2	15	.41	.06	64	7	.28	40	.14	7	.72	.06	.15	7	1
SE28-82-81	1	5	13	46	.5	4	5	275	1.87	3	12	ND	29	26	1	2	2	20	.47	.08	97	7	.38	42	.13	7	.88	.05	.15	9	1
SE28-82-85	1	7	10	39	2.2	6	4	267	1.93	2	43	ND	53	39	1	2	2	26	.66	.11	149	13	.36	51	.19	8	.77	.06	.17	59	1
SE28-82-93	1	5	10	26	.4	6	4	194	1.30	2	27	ND	41	18	1	2	2	14	.33	.05	90	11	.21	36	.10	5	.47	.04	.12	19	1
SE28-82-95	1	9	9	27	.6	7	6	194	1.64	2	5	ND	21	22	1	2	3	16	.31	.05	45	13	.24	38	.06	6	.48	.05	.14	10	1
SE28-82-97	1	6	15	36	.6	5	5	269	1.83	4	9	ND	69	31	1	2	2	22	.68	.10	207	9	.31	39	.22	6	.71	.06	.14	16	1
SE28-82-99	1	7	10	25	.6	5	4	181	1.36	2	8	ND	19	14	1	2	8	10	.18	.03	39	8	.15	58	.03	5	.37	.04	.14	4	3
SE28-82-101	1	7	11	48	.2	11	3	224	1.40	2	11	ND	18	15	1	2	4	14	.19	.04	33	22	.36	52	.04	7	.54	.04	.15	2	1
SE28-82-105	1	10	23	53	.8	5	6	288	2.13	9	18	ND	40	21	1	2	3	26	.56	.08	116	8	.37	40	.15	9	.81	.06	.16	57	2
SE28-82-107	1	10	22	34	1.2	7	10	276	2.25	5	81	ND	112	23	1	2	12	20	.53	.09	199	9	.24	36	.17	8	.55	.04	.13	80	1
SE28-82-109	1	6	5	25	.1	6	4	181	1.27	2	8	ND	11	20	1	2	2	18	.30	.07	32	12	.24	52	.09	5	.55	.06	.13	3	2
SE28-82-113	1	4	6	31	.1	9	3	359	1.52	3	7	ND	18	22	1	2	2	25	.61	.08	60	14	.34	37	.15	5	.61	.07	.12	8	1
STD A-1	1	28	39	168	.3	33	11	957	2.75	7	2	ND	2	31	1	2	4	53	.65	.10	8	74	.80	263	.09	13	2.07	.02	.23	2	1

KIDD CREEK MINES LTD PROJECT # 28 FILE # 82-0434 PAGE # 3.1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sn* ppm
SE28-82-115	1	8	6	21	.1	49	9	246	1.78	2	4	ND	10	30	1	2	2	25	.61	.13	31	89	1.09	74	.08	16	.50	.05	.14	2	1
SE28-82-117	1	6	7	31	.1	10	3	511	1.56	2	11	ND	11	18	1	2	2	24	.42	.06	33	15	.31	43	.10	7	.58	.06	.11	4	1
SE28-82-119	1	4	7	31	.1	8	3	450	1.41	2	7	ND	10	21	1	2	2	27	.56	.06	40	18	.34	42	.14	5	.66	.07	.12	4	2
SE28-82-121	1	5	8	35	.2	11	3	516	1.89	3	5	ND	29	32	1	2	2	33	.87	.12	106	21	.46	44	.23	20	.76	.08	.13	13	2
SE28-82-123	1	7	8	23	.1	23	6	173	1.89	2	6	ND	24	32	1	2	2	36	.49	.10	45	68	.61	56	.10	9	.50	.05	.12	3	1
SE28-82-125	1	6	7	23	.1	20	4	177	1.43	2	6	ND	23	34	1	2	2	24	.42	.08	71	36	.48	61	.09	7	.43	.06	.11	2	1
SE28-82-127	1	4	6	21	.1	18	3	239	1.40	2	5	ND	27	24	1	2	2	24	.61	.12	91	39	.50	40	.13	5	.47	.05	.11	5	1
SE28-82-131	1	14	7	31	.2	15	8	253	2.09	2	3	ND	10	63	1	2	3	49	.89	.19	55	41	.55	73	.15	10	.62	.06	.12	5	1
SE28-82-137	1	10	8	31	.2	14	6	221	1.87	2	3	ND	9	49	1	2	2	41	.65	.16	34	34	.47	69	.10	11	.55	.04	.09	7	1
SE28-82-139	1	7	4	26	.1	168	20	351	2.40	2	6	ND	9	54	1	2	2	15	.55	.16	32	71	3.23	45	.05	9	.30	.04	.06	2	1
SE28-82-141	1	10	6	28	.1	51	10	244	1.88	2	12	ND	13	48	1	2	2	32	.63	.14	44	53	1.12	66	.11	7	.52	.05	.11	8	1
SE28-82-143	1	11	12	52	.2	11	11	233	2.06	2	6	ND	15	62	1	2	4	41	.68	.14	57	21	.30	34	.13	11	.48	.03	.07	10	1
SE28-82-147	1	8	11	41	.2	11	6	240	1.64	2	11	ND	15	56	1	2	2	32	.59	.10	56	25	.33	57	.15	8	.52	.05	.11	6	1
SE28-82-159	1	5	16	21	.1	5	4	146	1.50	9	18	ND	140	15	1	2	2	31	.52	.11	244	35	.20	35	.17	2	.51	.03	.11	3	1
SE28-82-161	1	3	10	19	.2	4	3	181	1.51	2	14	ND	191	35	1	2	2	31	.86	.23	443	11	.26	37	.16	3	.57	.04	.07	2	3
SE28-82-163	2	4	11	18	.2	5	4	190	1.63	2	25	ND	269	38	1	2	2	35	1.26	.38	351	37	.30	35	.15	2	.64	.05	.08	3	2
SE28-82-165	1	5	13	16	.1	3	3	225	1.81	6	5	ND	39	30	1	3	5	32	.39	.07	100	9	.12	32	.11	2	.49	.03	.09	29	2
SE28-82-167	3	37	197	47	.7	11	20	894	3.51	62	23	ND	125	39	1	5	17	22	.52	.11	263	30	.13	98	.12	2	.49	.03	.11	20	2
SE28-82-169	1	22	104	43	.3	6	16	408	3.41	41	12	ND	55	47	1	4	11	26	.46	.06	188	6	.09	56	.13	2	.56	.03	.08	15	3
SE28-82-173	1	5	29	44	.1	3	3	224	1.30	9	4	ND	17	26	1	2	2	17	.28	.06	60	14	.07	41	.05	7	.40	.02	.06	11	1
SE28-82-175	1	7	18	19	.1	4	5	219	1.69	5	11	ND	48	25	1	2	4	24	.49	.13	134	8	.13	32	.09	2	.39	.03	.08	18	1
SE28-82-177	1	5	4	21	.1	5	4	131	1.17	2	2	ND	8	15	1	2	2	14	.31	.09	34	23	.12	49	.06	2	.42	.03	.11	2	4
SE28-82-179	1	2	5	12	.1	2	2	643	1.41	2	8	ND	20	40	1	2	25	21	.53	.07	86	6	.07	27	.10	3	.51	.03	.05	46	7
SE28-82-181	1	9	5	26	.1	7	9	488	1.77	4	3	ND	21	39	1	3	9	24	.74	.20	91	23	.24	83	.09	24	.82	.03	.19	15	2
SE28-82-183	1	6	16	43	.1	6	3	281	2.09	5	9	ND	15	15	1	2	2	31	.43	.08	63	9	.20	58	.09	2	.55	.05	.14	10	1
SE28-82-185	1	18	8	29	.1	12	12	358	2.59	4	6	ND	7	11	1	2	6	34	.51	.06	33	39	.40	48	.09	4	.82	.06	.14	27	1
STD A-1	1	30	39	175	.3	34	12	952	2.72	6	2	ND	3	31	2	4	2	56	.65	.10	10	76	.77	289	.09	5	2.00	.02	.18	2	1

TABLE IV

STREAM SILT ANALYSIS

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
SAMPLE TYPE - SILT

KIDD CREEK MINES LTD FILE#82-0368 PAGE 5 PROJECT SALMO

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
AW28-82 2	1	14	23	45	.1	24	9	970	2.05	3	5	ND	3	32	1	4	2	32	.25	.06	14	20	.52	171	.07	5	1.59	.01	.08	2
AW28-82 4	1	21	21	29	.2	11	8	729	1.83	2	2	ND	4	11	1	2	2	23	.09	.05	18	13	.22	106	.06	6	1.51	.01	.06	2
AW28-82 6	1	11	25	29	.2	9	21	997	1.03	3	2	ND	2	17	1	2	2	12	.13	.05	9	7	.14	174	.02	3	1.08	.01	.03	2
AW28-82 8	1	11	49	27	.1	7	6	1252	1.10	3	2	ND	2	40	1	2	2	13	.41	.08	15	11	.19	445	.03	5	1.21	.01	.06	2
AW28-82 10	1	5	13	21	.1	8	6	295	.93	6	2	ND	2	10	1	2	2	12	.08	.03	10	9	.14	52	.03	3	.56	.01	.03	2
AW28-82 12	1	8	12	19	.1	8	4	458	.82	2	2	ND	2	14	1	2	2	12	.19	.03	7	14	.16	132	.02	7	.53	.01	.04	2
AW28-82 14	1	7	12	35	.1	10	5	251	1.71	2	2	ND	4	17	1	2	2	25	.18	.04	11	17	.22	194	.04	4	1.11	.01	.06	2
AW28-82 16	1	9	13	42	.1	14	7	284	1.76	2	2	ND	4	22	1	2	2	23	.29	.05	12	20	.36	93	.04	6	1.06	.02	.09	2
AW28-82 18	1	12	12	41	.1	30	9	459	1.41	2	8	ND	4	23	1	2	2	18	.35	.05	14	27	.57	91	.05	4	1.07	.01	.06	2
AW28-82 20	1	18	48	53	.2	40	11	645	2.31	2	3	ND	2	60	1	4	2	28	1.00	.13	16	42	.99	222	.03	11	1.41	.01	.15	2
AW28-82 20B	1	16	32	47	.3	13	15	1131	1.91	5	3	ND	2	20	1	3	2	21	.15	.09	15	14	.21	179	.04	5	1.61	.01	.07	2
AW28-82 22	1	7	10	26	.1	12	6	185	1.42	2	3	ND	4	16	1	2	2	17	.19	.04	12	14	.28	70	.03	6	.79	.01	.07	2
AW28-82 24	1	18	24	60	.1	29	13	577	2.84	8	2	ND	7	21	1	4	2	15	.32	.08	25	23	.57	80	.02	6	1.23	.01	.05	2
AW28-82 26	1	21	53	120	.2	33	10	261	2.33	13	2	ND	6	27	1	4	2	45	.39	.08	15	44	.75	806	.07	8	1.50	.03	.17	2
AW28-82 28	1	18	18	33	.3	20	15	817	1.84	6	3	ND	2	13	1	3	2	22	.09	.06	12	22	.21	94	.05	5	1.84	.01	.06	2
AW28-82 30	1	14	25	69	.2	13	4	126	1.26	6	2	ND	8	17	1	3	2	34	.46	.12	20	11	.32	66	.03	3	.44	.01	.05	2
AW28-82 32	1	40	81	295	.7	14	7	205	2.02	7	3	ND	4	17	3	4	5	18	.97	.06	7	14	.70	56	.03	5	.64	.01	.06	5
AW28-82 34	2	21	22	263	.4	22	4	279	1.49	2	4	ND	7	40	3	2	2	62	5.03	.15	14	16	2.99	69	.03	5	.97	.02	.09	5
AW28-82 36	2	27	175	646	.5	30	7	697	2.18	13	3	ND	4	41	6	4	4	70	3.56	.21	13	23	2.67	745	.05	5	1.22	.01	.12	2
AW28-82 38	2	30	226	770	.7	30	6	335	2.36	10	2	ND	4	49	8	2	2	71	4.07	.14	12	28	2.55	402	.06	6	1.36	.02	.14	4

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
AW28-82-40	1	29	78	228	.5	17	9	326	2.08	8	2	ND	3	39	2	2	3	50	.71	.14	13	35	.77	92	.07	5	1.20	.02	.20	2
AW28-82-42	5	78	99	512	.4	51	18	876	3.89	41	2	ND	2	109	4	2	3	75	1.03	.19	16	57	1.32	191	.11	9	1.90	.02	.19	2
AW28-82-44	6	55	36	289	.2	37	14	721	3.74	17	2	ND	2	50	3	2	3	81	.63	.16	13	46	.94	151	.08	10	1.58	.02	.15	2
AW28-82-46	19	63	28	188	.2	53	16	558	3.45	8	2	ND	2	44	1	2	4	80	.65	.12	8	77	.90	127	.09	7	1.51	.01	.19	2
AW28-82-48	3	45	20	212	.1	34	14	646	3.19	35	2	ND	2	40	3	2	3	69	.63	.14	12	58	1.12	116	.07	8	1.85	.01	.12	2
AW28-82-50	3	65	29	790	.3	101	22	1121	3.78	103	2	ND	2	99	8	2	5	59	1.69	.30	22	63	1.89	146	.09	12	1.84	.02	.18	2
AW28-82-52	2	48	28	330	.3	47	13	679	3.29	24	3	ND	2	49	5	3	3	69	.93	.17	18	83	1.26	122	.05	9	2.00	.01	.09	2
AW28-82-54	3	45	28	219	.2	31	13	616	3.24	38	2	ND	2	39	3	2	3	69	.61	.13	11	54	.98	112	.06	8	1.79	.02	.11	2
AW28-82-56	2	51	12	110	.1	28	13	455	3.22	16	2	ND	2	43	1	2	2	79	.60	.13	10	70	1.01	90	.08	6	1.51	.02	.14	2
AW28-82-58	3	74	26	412	.4	55	15	676	3.46	13	2	ND	2	58	6	2	4	70	.89	.11	11	55	1.04	78	.05	8	2.14	.01	.09	2
AW28-82-60	2	56	17	218	.7	35	14	568	3.36	14	2	ND	2	40	3	2	3	79	.51	.09	8	69	1.00	75	.06	8	1.83	.01	.10	2
AW28-82-62	1	49	13	114	.1	28	14	493	3.04	9	2	ND	2	40	2	2	3	80	.57	.10	8	80	.94	84	.08	7	1.60	.02	.13	2
AW28-82-70	5	54	24	291	.4	41	13	759	3.26	20	2	ND	2	70	4	2	4	82	.85	.12	10	48	.80	134	.08	15	2.15	.03	.14	2
AW28-82-72	2	99	37	242	.3	52	19	838	3.73	22	2	ND	2	63	5	2	4	70	.86	.14	12	60	1.14	113	.09	9	2.21	.01	.14	2
AW28-82-74	2	52	30	209	.3	38	12	661	2.75	14	2	ND	2	54	4	2	3	62	1.14	.10	9	67	.98	57	.06	10	1.77	.01	.08	2
AW28-82-76	2	49	24	294	.2	42	12	530	3.21	20	2	ND	2	44	4	2	3	79	.67	.08	8	71	1.11	65	.06	8	1.71	.01	.10	2
AW28-82-78	1	39	10	48	.1	24	12	424	2.65	5	2	ND	2	57	1	2	3	71	.63	.10	7	55	1.16	93	.11	6	1.46	.04	.24	2
AW28-82-80	3	66	26	508	.5	72	15	759	3.28	16	3	ND	2	64	8	2	3	65	.94	.10	9	63	.94	87	.05	10	1.64	.01	.07	2
AW28-82-82	2	86	43	104	.1	38	20	608	3.76	14	3	ND	2	45	1	2	3	75	.60	.12	8	91	1.23	104	.09	8	1.63	.01	.24	2
AW28-82-84	1	129	49	98	.4	20	17	1543	3.12	2	2	ND	2	85	2	3	4	59	1.19	.10	8	48	1.10	178	.09	10	2.20	.01	.15	2
AW28-82-86	1	168	28	79	.3	19	19	1053	3.73	2	2	ND	2	62	1	2	3	66	1.03	.14	10	35	1.34	122	.07	9	2.07	.01	.21	2
AW28-82-88	1	68	26	90	.2	33	20	934	3.56	4	2	ND	2	42	1	2	4	55	.77	.09	8	59	1.35	106	.06	9	1.97	.01	.14	2
AW28-82-90	2	89	17	89	.3	16	21	910	3.81	13	2	ND	2	33	1	2	4	70	.45	.12	8	34	1.08	121	.09	9	1.62	.01	.28	2
AW28-82-92	21	122	18	70	.2	14	20	489	2.98	2	2	ND	2	42	1	2	3	65	.50	.08	6	19	.96	93	.10	9	1.59	.01	.28	3
AW28-82-94	4	72	57	112	1.3	15	10	1103	3.41	20	2	ND	2	60	2	2	5	41	1.22	.07	7	15	.45	71	.06	12	1.81	.02	.08	2
AW28-82-96	1	25	20	136	.2	12	8	621	3.05	2	2	ND	4	49	2	2	3	50	.71	.15	16	27	.95	138	.11	8	1.66	.01	.38	2
AW28-82-98	1	169	200	125	1.6	16	12	748	2.55	9	2	ND	4	38	2	4	3	56	.52	.12	12	36	.82	105	.08	6	1.10	.01	.25	2

KIDD CREEK MINES LTD. PROJECT# 28 FILE# 82-0394

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
AW28-82-100	1	32	15	79	.1	235	27	538	3.38	5	2	ND	4	59	1	2	4	44	.74	.23	19	82	3.78	146	.08	10	1.08	.01	.21	2
AW28-82-102	2	46	14	78	.2	22	14	310	2.48	9	2	ND	3	28	1	2	3	58	.44	.10	7	32	.83	143	.10	5	1.34	.01	.25	2
AW28-82-104	3	85	65	226	1.0	50	15	759	3.13	8	5	ND	2	78	5	2	4	78	1.27	.11	19	61	1.21	312	.13	10	2.46	.01	.46	2
AW28-82-106	1	31	12	54	.1	282	29	550	3.28	2	2	ND	3	75	1	2	4	36	.94	.31	26	98	4.25	146	.07	10	1.07	.01	.19	2
AW28-82-108	1	45	22	91	.3	91	19	516	3.09	2	2	ND	5	70	1	2	4	68	.91	.22	24	136	1.84	218	.13	7	1.74	.02	.26	2
AW28-82-110	3	15	56	59	.3	11	7	543	2.00	4	7	ND	2	59	1	2	5	52	.84	.12	13	24	.53	100	.06	6	1.48	.02	.09	2
AW28-82-112	1	52	21	59	.1	13	16	702	3.16	2	2	ND	2	42	1	2	2	69	.68	.12	6	31	1.03	154	.08	11	1.49	.01	.19	2
AW28-82-114	1	62	9	48	.1	16	13	517	2.57	3	2	ND	2	46	1	2	3	57	.60	.18	11	35	1.16	194	.10	6	1.37	.01	.25	2
AW28-82-116	1	48	13	50	.1	17	13	682	2.93	3	2	ND	2	56	1	2	3	58	.66	.16	13	36	1.13	157	.08	7	1.62	.01	.14	2
AW28-82-118	1	41	17	57	.2	26	16	523	3.14	10	2	ND	2	75	1	2	4	60	.73	.19	17	50	1.21	147	.10	6	1.54	.01	.15	2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
AW28-82-120	1	43	10	51	.2	13	15	544	2.77	4	2	ND	2	44	1	2	2	60	.63	.15	7	23	1.01	166	.09	4	1.22	.01	.28	2
AW28-82-122	1	47	21	45	.1	13	11	282	3.51	3	2	ND	2	49	1	2	2	82	.74	.22	11	29	.88	81	.08	5	1.12	.01	.15	2
AW28-82-124	2	227	26	58	.6	11	15	540	3.62	2	2	ND	3	61	1	2	2	86	1.06	.36	16	25	.95	120	.09	5	1.19	.01	.31	3
AW28-82-126	1	53	22	59	.3	16	11	466	2.38	3	2	ND	2	42	1	2	2	54	.57	.11	9	38	.96	132	.08	4	1.27	.01	.21	2
AW28-82-128	1	26	22	69	.2	116	14	345	2.48	2	2	ND	8	101	1	2	2	43	.80	.19	32	93	2.00	288	.12	5	1.60	.02	.25	2
AW28-82-130	1	9	27	58	.2	15	4	273	1.43	2	2	ND	5	44	1	2	2	26	.45	.12	30	26	.39	191	.06	3	.94	.01	.12	2
AW28-82-132	1	22	187	146	.4	36	6	484	1.84	5	10	ND	2	119	2	4	3	25	.91	.13	80	46	.53	350	.05	4	1.94	.02	.18	2
AW28-82-134	1	9	15	37	.1	33	6	182	1.54	2	3	ND	7	52	1	2	2	34	.72	.24	30	45	.67	167	.09	2	.73	.01	.18	2
AW28-82-136	1	8	32	39	.1	27	4	149	.96	2	7	ND	2	52	1	2	2	17	.57	.10	18	39	.52	175	.05	2	.53	.01	.11	2
AW28-82-138	2	17	17	48	.2	101	11	294	1.98	2	2	ND	5	65	1	2	2	31	.69	.21	29	64	1.62	189	.06	10	.83	.02	.11	2
AW28-82-140	1	23	10	49	.1	14	8	254	2.23	2	2	ND	4	44	1	2	9	55	.67	.14	15	28	.75	147	.10	5	1.12	.03	.18	5
AW28-82-142	1	9	10	35	.1	9	5	259	1.48	2	2	ND	4	29	1	2	2	32	.46	.10	14	17	.51	99	.06	5	.85	.02	.12	2
AW28-82-144	1	8	13	45	.2	7	5	315	1.82	2	2	ND	11	42	1	2	2	41	.51	.12	30	18	.50	74	.07	3	.81	.01	.07	2
AW28-82-146	1	8	9	34	.1	7	5	235	1.80	2	2	ND	12	32	1	2	2	41	.44	.10	15	20	.50	98	.07	5	.84	.01	.11	2
AW28-82-148	1	9	11	43	.2	7	4	240	1.39	2	2	ND	2	30	1	2	2	31	.37	.07	12	13	.41	113	.07	4	.96	.01	.09	2
AW28-82-150	1	18	14	48	.3	9	7	295	1.91	3	2	ND	7	31	1	2	2	46	.47	.09	15	23	.63	158	.09	4	1.29	.01	.16	2
AW28-82-152	1	11	13	43	.2	7	7	375	2.13	2	3	ND	13	38	1	2	2	54	.50	.10	14	25	.77	143	.09	3	1.35	.01	.15	2
AW28-82-154	1	23	21	63	.5	11	7	516	2.17	2	2	ND	4	44	1	2	2	51	.54	.11	19	31	.86	178	.09	4	1.64	.01	.18	2
AW28-82-156	1	10	15	45	.5	5	5	468	1.69	2	4	ND	2	41	1	2	2	40	.43	.07	16	20	.57	117	.06	4	1.30	.01	.09	2
AW28-82-158	1	11	14	52	.2	8	5	334	1.49	3	2	ND	2	30	1	2	2	32	.39	.07	11	14	.47	126	.07	3	1.02	.01	.09	2
AW28-82-160	1	11	10	34	.1	7	6	268	1.59	2	2	ND	8	41	1	2	2	40	.46	.11	14	18	.54	90	.07	2	1.04	.01	.10	2
AW28-82-164	1	21	17	43	.2	9	7	300	2.11	2	2	ND	4	38	1	2	2	50	.40	.11	13	23	.67	120	.10	4	1.74	.01	.11	2
AW28-82-166	1	14	13	41	.2	8	7	311	1.99	2	2	ND	6	39	1	2	2	51	.46	.09	10	21	.71	90	.11	2	1.73	.01	.12	2
AW28-82-168	1	21	19	54	.2	27	9	407	2.69	2	2	ND	3	47	1	2	2	70	.64	.17	25	55	.77	191	.13	4	1.69	.02	.16	2
AW28-82-170	1	22	26	59	.2	24	8	357	2.31	2	2	ND	2	53	1	2	2	73	.73	.15	26	64	.83	218	.12	4	1.74	.03	.19	2
AW28-82-172	1	27	20	61	.1	23	9	342	2.44	4	2	ND	3	44	1	2	2	72	.54	.16	25	55	.84	257	.14	3	1.92	.02	.23	2
AW28-82-174	2	21	15	54	.2	29	10	454	2.49	5	2	ND	3	51	1	2	2	64	.71	.18	29	57	.81	188	.11	6	1.74	.02	.15	2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
AW28-82-176	1	11	13	37	.1	12	6	265	2.54	2	2	ND	2	38	1	2	2	68	.41	.09	10	31	.45	86	.07	4	1.25	.01	.07	2
AW28-82-178	1	23	15	43	.1	21	8	299	2.44	2	2	ND	4	39	1	2	2	65	.52	.14	21	48	.76	185	.12	3	1.54	.02	.15	2
AW28-82-180	1	10	8	28	.1	7	5	238	2.08	2	2	ND	3	30	1	2	2	52	.38	.10	12	15	.45	87	.08	5	1.31	.02	.08	2
AW28-82-182	1	32	26	114	.3	18	9	433	3.00	19	2	ND	2	47	1	2	2	70	.57	.09	13	29	.81	161	.11	7	2.18	.03	.15	2
AW28-82-184	1	39	25	93	.2	16	9	478	2.90	23	3	ND	2	40	1	2	2	73	.55	.09	10	30	.82	126	.10	5	1.96	.02	.18	2
AW28-82-186	2	5	17	37	.2	6	4	573	2.02	2	5	ND	2	52	1	2	2	46	.54	.06	17	14	.36	74	.08	4	1.17	.02	.03	2
AW28-82-188	1	9	15	45	.1	30	7	362	1.77	2	2	ND	3	58	1	2	2	34	.61	.11	17	28	.91	109	.08	5	1.22	.01	.07	2
AW28-82-190	1	17	12	37	.1	16	7	273	2.39	2	2	ND	3	39	1	2	2	61	.48	.14	19	34	.60	140	.09	4	1.34	.02	.11	2
AW28-82-192	1	9	15	41	.2	9	5	425	2.04	2	3	ND	3	31	1	2	2	46	.34	.09	15	21	.44	150	.06	5	1.51	.01	.05	2
AW28-82-194	1	13	14	43	.1	14	6	407	2.14	2	6	ND	3	46	1	2	2	52	.45	.11	15	34	.62	191	.08	5	1.33	.01	.07	2
AW28-82-196	1	42	24	68	.3	35	13	573	3.12	19	2	ND	2	51	1	2	2	77	.60	.06	8	68	1.16	191	.13	4	2.66	.03	.12	2
AW28-82-198	1	37	20	51	.1	29	11	404	2.54	14	2	ND	2	35	1	2	2	68	.55	.06	6	64	.97	116	.13	4	2.07	.03	.11	2
AW28-82-200	5	90	25	162	.4	25	16	887	3.79	16	2	ND	2	56	2	2	2	90	.82	.12	9	48	1.17	141	.10	5	2.18	.02	.21	2
AW28-82-202	2	63	24	92	.3	20	14	509	3.36	9	3	ND	2	52	1	3	2	91	.70	.11	10	42	.94	108	.10	5	1.64	.03	.16	2
AW28-82-204	1	48	19	57	.2	28	13	484	2.81	15	2	ND	2	47	1	2	2	72	.64	.09	9	68	1.12	145	.12	4	2.00	.03	.16	2
AW28-82-206	1	69	21	73	.3	25	15	643	3.41	18	2	ND	2	51	1	2	2	81	.64	.12	11	59	1.27	127	.11	7	2.18	.02	.17	2
AW28-82-208	1	25	16	35	.2	13	8	269	2.34	5	2	ND	5	26	1	2	2	65	.43	.12	16	36	.46	100	.07	5	1.03	.02	.08	2
AW28-82-210	1	16	25	53	.1	10	6	483	2.43	2	2	ND	4	50	1	2	2	58	.40	.08	17	25	.44	204	.06	4	1.36	.02	.08	2
AW28-82-212	1	29	25	66	.2	22	10	399	2.99	5	2	ND	2	33	1	2	3	72	.34	.10	10	53	.55	128	.07	7	1.31	.01	.11	2
AW28-82-214	1	25	13	46	.1	14	8	258	2.76	3	2	ND	4	25	1	2	3	82	.45	.14	14	50	.36	75	.05	6	.84	.01	.07	2
AW28-82-216	1	27	18	46	.1	12	7	293	2.40	4	3	ND	2	30	1	2	2	70	.42	.13	14	43	.37	95	.05	7	.87	.01	.06	2
AW28-82-218	1	31	13	48	.1	16	8	275	2.18	4	2	ND	2	21	1	2	3	62	.39	.12	12	44	.45	70	.07	6	1.04	.01	.09	2
AW28-82-220	1	50	61	125	.2	27	13	513	3.20	26	2	ND	2	52	2	2	4	78	.61	.09	10	51	1.01	176	.11	7	2.24	.04	.23	5
AW28-82-222	3	58	38	176	.3	30	14	737	3.43	24	2	ND	2	61	2	2	2	73	.71	.14	14	40	.99	192	.10	5	1.90	.02	.22	2
AW-28-82-224	5	47	37	247	.4	33	14	779	3.55	60	2	ND	3	46	3	2	3	60	.54	.14	14	27	.75	168	.07	5	1.56	.02	.13	2

KIDD CREEK MINES LTD PROJECT 28 FILE # 82-0434 PAGE # 4.1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
AW28-82-230	3	20	25	365	1.0	19	6	425	2.29	29	3	ND	7	29	4	2	3	52	.60	.17	29	17	.50	150	.04	8	1.00	.01	.10	3
AW28-82-232	1	7	19	90	.2	5	6	478	2.50	4	5	ND	8	31	1	2	3	36	.53	.16	33	11	.54	69	.05	9	1.34	.01	.14	2
AW28-82-234	1	7	34	105	.5	4	5	627	2.31	7	6	ND	4	49	1	2	2	31	.63	.12	35	13	.54	94	.04	9	1.29	.01	.12	2
AW28-82-236	1	4	94	121	5.1	3	4	353	1.99	4	2	ND	7	23	1	2	2	29	.51	.17	33	9	.45	67	.06	10	.96	.01	.13	2
AW28-82-238	1	4	214	240	7.4	4	4	450	2.29	2	3	ND	9	25	1	2	2	30	.43	.14	29	8	.51	110	.07	10	1.26	.01	.17	2
AW28-82-240	1	3	16	52	.4	3	4	266	2.68	2	5	ND	7	17	1	2	2	43	.44	.14	31	9	.38	36	.07	11	.87	.02	.13	2
AW28-82-242	1	5	14	66	.1	4	6	359	2.27	2	3	ND	5	19	1	2	2	36	.56	.19	29	9	.54	72	.08	8	1.13	.02	.19	2
AW28-82-244	1	6	13	57	3.6	3	6	381	2.28	2	3	ND	5	23	1	2	2	35	.73	.26	30	10	.48	95	.08	10	1.06	.02	.20	2
AW28-82-246	1	9	36	90	9.2	5	6	274	2.38	7	4	ND	8	26	1	2	2	38	.64	.22	40	14	.45	189	.06	10	.90	.02	.13	3
AW28-82-248	1	4	11	67	.5	3	4	418	1.91	4	2	ND	6	16	1	2	2	24	.34	.11	26	11	.31	62	.03	10	.81	.01	.09	2
AW28-82-250	1	4	16	75	.3	5	4	458	2.29	2	2	ND	5	24	1	2	2	30	.46	.11	35	13	.49	93	.05	9	1.25	.01	.13	2
AW28-82-252	1	5	27	154	.2	6	5	735	2.60	5	4	ND	7	37	1	2	3	33	.51	.10	35	17	.62	121	.09	9	2.22	.01	.17	2
AW28-82-256	1	3	16	73	.1	4	4	456	2.12	2	2	ND	7	21	1	2	2	30	.46	.13	32	12	.42	69	.05	9	1.09	.01	.09	2
AW28-82-258	1	7	18	69	.2	12	4	374	1.64	4	3	ND	4	35	1	2	2	21	.41	.08	21	18	.33	130	.04	8	.93	.01	.12	2
AW28-82-260	1	5	32	103	3.7	6	5	557	2.49	5	5	ND	7	30	1	2	2	33	.59	.17	35	13	.44	88	.05	9	1.16	.06	.12	2
AW28-82-262	3	5	33	129	.4	10	6	742	3.26	7	16	ND	9	70	1	2	4	33	.77	.19	65	16	.71	126	.09	12	1.62	.03	.20	2
AW28-82-264	1	3	18	84	.2	7	4	441	2.25	2	7	ND	9	45	1	2	2	24	.64	.20	46	12	.49	83	.07	9	1.15	.04	.16	2
AW28-82-266	1	5	13	64	.3	6	4	391	2.17	2	3	ND	9	33	1	2	3	28	.60	.21	41	10	.52	95	.10	9	1.52	.02	.21	2
AW28-82-268	1	5	13	92	.1	10	5	530	3.04	2	6	ND	6	65	1	2	3	40	.77	.21	34	18	.82	194	.16	11	1.97	.02	.32	2
AW28-82-270	1	6	16	92	.1	10	7	748	3.38	2	8	ND	9	72	1	2	3	42	.87	.24	44	19	.89	230	.14	13	1.87	.03	.42	2
AW28-82-272	2	5	25	139	.2	4	7	788	3.33	3	22	ND	15	36	1	2	4	48	.68	.17	36	19	.80	85	.10	13	2.13	.02	.25	2
AW28-82-274	1	3	12	60	.1	3	4	410	2.18	2	10	ND	6	22	1	2	2	35	.51	.14	29	11	.53	43	.09	10	1.00	.02	.18	2

KIDD CREEK MINES LTD PROJECT 28 FILE # 82-0434 PAGE # 4.2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
AW28-82-276	1	5	15	69	.2	4	5	390	2.50	2	7	ND	7	32	1	2	3	43	.66	.17	35	11	.57	63	.08	11	1.11	.02	.17	2
AW28-82-278	1	7	68	157	3.2	7	6	529	2.63	3	7	ND	7	31	1	2	3	40	.61	.17	40	14	.76	57	.07	11	1.23	.02	.18	2
AW28-82-280	1	13	82	527	12.5	4	5	617	2.10	6	4	ND	13	24	4	4	2	29	.62	.19	55	10	.43	40	.07	7	.79	.03	.14	2
AW28-82-282	1	6	69	256	.9	8	6	577	2.92	2	11	ND	6	44	1	2	3	40	.65	.17	32	22	.68	115	.08	13	1.37	.01	.21	2
AW28-82-284	1	6	23	91	.2	5	4	428	2.35	7	15	ND	7	30	1	2	2	36	.66	.13	31	13	.69	66	.11	11	1.25	.01	.22	2
AW28-82-286	1	24	20	84	.3	21	8	511	2.86	18	19	ND	5	42	1	2	2	56	.78	.15	32	35	1.09	97	.12	10	1.46	.03	.22	2
AW28-82-288	1	24	14	62	.2	7	6	253	2.63	8	5	ND	2	19	1	2	2	56	.52	.10	14	13	.48	56	.07	10	.87	.02	.16	2
AW28-82-290	1	30	52	159	1.2	14	8	382	2.53	24	5	ND	3	35	1	2	2	53	.75	.13	18	27	.78	90	.09	11	1.16	.02	.20	4
AW28-82-292	10	246	12	63	.4	29	13	283	3.34	13	2	ND	2	23	1	2	3	59	.34	.09	6	58	.90	59	.10	11	1.16	.02	.29	3
AW28-82-294	1	16	11	66	.2	13	6	558	2.31	18	2	ND	8	30	1	2	2	45	.59	.12	31	23	.60	58	.08	8	1.19	.03	.16	2
AW28-82-296	2	14	12	93	.3	11	5	363	2.07	92	5	ND	3	25	1	2	2	50	.39	.09	12	20	.54	35	.07	9	.94	.01	.15	2
AW28-82-298	2	26	40	158	.7	24	8	263	2.00	14	2	ND	2	29	1	2	2	50	.39	.09	9	34	.66	78	.08	9	1.43	.02	.09	2
AW28-82-300	2	17	11	45	.1	14	5	204	2.05	2	2	ND	12	21	1	2	2	33	.55	.15	36	30	.67	98	.18	9	1.39	.04	.62	2
AW28-82-302	2	13	19	64	.2	22	5	475	1.67	3	8	ND	2	27	1	2	2	40	.78	.06	18	40	.51	101	.12	14	1.65	.03	.23	2
STD A-1	1	28	40	169	.3	33	11	963	2.75	7	2	ND	2	31	1	2	4	53	.65	.10	8	74	.80	266	.09	13	2.07	.02	.22	2

KIDD CREEK MINES LTD PROJECT 28 FILE # 82-0434 PAGE # 5.1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
AW28-82-304	2	13	8	41	.2	13	4	176	1.83	2	2	ND	10	20	1	2	3	32	.48	.11	28	30	.60	93	.16	6	1.37	.04	.55	2
AW28-82-306	1	11	18	55	.2	24	5	215	1.63	2	3	ND	7	29	1	2	2	36	.50	.11	22	36	.54	98	.12	8	1.34	.04	.33	2
AW28-82-308	1	16	16	49	.1	30	5	159	1.68	2	2	ND	7	38	1	2	3	38	.57	.14	22	39	.55	100	.12	10	1.37	.05	.39	2
AW28-82-310	2	41	15	70	.3	37	6	337	2.40	2	3	ND	3	29	1	2	3	71	.75	.08	17	78	.83	187	.17	8	1.66	.06	.39	2
AW28-82-312	2	27	23	178	.4	88	10	254	2.96	2	5	ND	7	91	5	2	4	43	2.39	.35	36	52	.58	90	.09	13	2.67	.16	.20	2
AW28-82-314	1	16	9	72	.2	30	5	146	1.72	2	2	ND	6	20	1	2	2	63	.70	.20	23	48	.59	160	.14	11	1.33	.05	.39	2
AW28-82-316	1	10	9	37	.1	15	3	161	1.30	2	2	ND	12	14	1	2	2	36	.33	.10	42	28	.34	93	.11	8	.93	.02	.26	2
AW28-82-318	2	26	36	88	.2	37	10	420	3.09	2	2	ND	11	19	1	4	3	72	.40	.13	50	59	.76	203	.18	11	1.69	.02	.49	2
AW28-82-320	1	20	18	68	.3	28	7	283	2.05	4	13	ND	7	28	1	2	3	52	.91	.12	25	52	.51	116	.15	8	1.97	.07	.32	2
AW28-82-322	1	29	15	81	.2	36	9	322	2.70	3	5	ND	11	60	1	2	3	55	1.47	.30	44	62	.82	176	.17	9	2.19	.10	.43	2
AW28-82-324	2	20	14	70	.2	31	7	264	2.03	2	2	ND	17	43	1	2	3	39	1.44	.18	32	43	.61	120	.14	22	2.19	.15	.32	2
AW28-82-326	1	13	12	68	.1	22	5	318	2.12	2	6	ND	8	24	1	2	3	48	.56	.18	33	45	.64	142	.17	15	1.71	.03	.30	2
AW28-82-328	1	13	10	60	.2	23	4	212	1.74	2	26	ND	5	42	1	2	2	53	.73	.14	22	58	.67	118	.14	6	1.26	.05	.29	2
AW28-82-330	1	14	12	61	.3	18	4	318	1.64	2	11	ND	8	29	1	2	2	36	.67	.17	37	31	.51	138	.12	6	1.30	.03	.22	2
AW28-82-332	1	13	10	47	.2	65	7	206	1.81	2	3	ND	9	30	1	2	3	37	.62	.17	25	56	1.26	161	.11	7	1.07	.04	.29	3
AW28-82-334	1	8	6	20	.1	11	2	74	.73	2	2	ND	4	18	1	2	2	15	.47	.09	12	15	.28	60	.06	4	.68	.04	.15	2
AW28-82-336	1	17	8	39	.2	33	5	165	1.55	2	2	ND	6	118	1	2	3	27	1.15	.13	19	32	.57	248	.09	7	1.71	.14	.20	2
AW28-82-338	1	6	12	35	.2	11	3	254	1.25	2	2	ND	5	15	1	2	2	26	.31	.10	24	18	.36	79	.11	4	.93	.02	.20	2
AW28-82-340	1	7	11	37	.2	10	3	263	1.23	2	7	ND	13	18	1	2	10	26	.50	.19	52	20	.32	73	.09	4	.80	.02	.17	2
AW28-82-342	1	27	23	50	.3	25	7	231	2.07	2	149	ND	2	48	1	5	3	48	1.81	.09	10	67	.88	161	.18	19	2.02	.06	.36	2
AW28-82-344	1	7	16	54	.1	8	4	294	2.15	2	6	ND	6	32	1	2	2	35	.37	.10	32	22	.32	202	.02	8	.71	.01	.09	2
AW28-82-346	1	8	18	55	.1	12	4	342	1.80	2	19	ND	4	70	1	2	2	29	.52	.10	45	30	.38	358	.02	6	1.11	.01	.14	2

KIDD CREEK MINES LTD PROJECT 28 FILE # 82-0434 PAGE # 5.2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
AW28-82-348	1	5	9	48	.1	8	3	346	2.02	2	2	ND	6	27	1	2	2	32	.38	.12	27	15	.35	137	.05	13	.86	.02	.15	2
AW28-82-350	1	9	11	46	.1	15	5	190	2.19	2	2	ND	5	30	1	2	2	41	.65	.15	21	29	.67	82	.12	9	1.19	.03	.25	2
AW28-82-352	1	22	21	55	.1	21	7	217	2.22	2	10	ND	3	37	1	2	2	43	.82	.14	15	67	.97	113	.19	10	1.64	.04	.47	2
AW28-82-354	1	17	14	47	.1	17	6	187	2.56	2	2	ND	5	24	1	2	2	48	.56	.12	18	33	.71	97	.15	13	1.33	.03	.47	2
AW28-82-356	1	13	9	47	.2	17	5	219	1.60	2	3	ND	5	143	1	2	2	28	.39	.08	16	27	.49	121	.07	9	.88	.02	.19	2
AW28-82-358	1	17	10	38	.1	14	5	268	2.02	2	2	ND	4	23	1	2	2	35	.43	.08	13	24	.64	99	.15	10	1.31	.05	.51	2
AW28-82-360	1	15	52	97	.2	16	6	474	2.11	3	4	ND	4	59	1	3	3	34	.61	.12	41	29	.59	248	.12	10	2.13	.02	.28	2
AW28-82-362	1	40	42	74	.4	79	13	289	2.88	4	2	ND	3	60	1	3	3	46	.69	.06	19	68	1.13	240	.21	13	3.14	.03	.49	2
AW28-82-364	1	19	29	63	.2	24	6	297	1.92	3	3	ND	6	97	1	2	2	34	.83	.09	17	27	.55	131	.12	7	1.81	.05	.36	2
AW28-82-366	1	34	24	104	.2	43	13	811	3.29	9	2	ND	8	97	1	2	3	50	.62	.10	26	48	1.01	228	.13	23	1.77	.03	.35	2
AW28-82-368	1	15	17	86	.2	12	6	378	2.50	4	3	ND	5	27	1	3	3	41	.39	.08	17	30	.72	164	.19	11	1.89	.02	.59	2
AW28-82-370	1	7	14	49	.2	18	5	276	2.12	2	3	ND	7	44	1	2	2	39	.53	.19	36	33	.47	122	.06	11	.94	.01	.13	2
AW28-82-372	1	7	7	34	.1	17	4	316	1.76	2	4	ND	2	52	1	2	2	42	.36	.09	12	27	.42	75	.04	8	.54	.01	.07	2
STD A-1	1	28	42	169	.3	33	11	966	2.75	11	2	ND	2	32	1	2	3	54	.65	.11	8	75	.80	270	.09	12	2.06	.02	.23	2

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
SAMPLE TYPE - STREAM SEDIMENTS & ~~PAN-400~~.

DATE RECEIVED JUNE 29 1982 DATE REPORTS MAILED July 8/82 ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

KIDD CREEK MINES FILE # 82-0488 PAGE # 1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
AW-28-82-392	1	22	21	88	.2	17	10	417	1.99	15	2	ND	4	12	1	3	2	20	.95	.05	12	12	1.02	60	.04	3	.89	.01	.06	2
AW-28-82-394	1	26	24	54	.1	27	11	521	2.39	18	2	ND	4	13	1	3	3	10	.37	.06	17	17	.69	44	.03	9	1.15	.01	.11	2
AW-28-82-396	1	22	16	41	.2	23	9	248	2.17	9	4	ND	9	8	1	3	2	7	.12	.04	31	12	.51	16	.03	4	.78	.01	.09	2
AW-28-82-400	1	28	12	49	.1	33	12	362	2.82	18	4	ND	9	6	1	4	3	11	.15	.06	27	26	.68	53	.01	4	1.26	.01	.03	2
AW-28-82-402	1	23	15	42	.1	22	9	269	2.07	14	2	ND	7	8	1	2	2	8	.32	.06	22	12	.57	30	.02	5	.77	.01	.05	2
AW-28-82-404	1	40	13	49	.2	28	9	333	2.19	3	2	ND	5	14	1	3	3	29	.26	.04	19	18	.67	49	.04	4	1.26	.01	.09	2
AW-28-82-406	1	18	19	53	.2	21	8	239	2.06	6	2	ND	5	13	1	2	2	12	.40	.05	19	16	.52	43	.03	4	1.01	.01	.14	2
AW-28-82-408	1	22	30	101	.2	23	12	378	2.78	14	2	ND	8	14	1	2	2	11	.79	.08	14	14	.74	99	.01	4	.79	.01	.05	2
AW-28-82-410	1	17	42	159	.2	12	9	686	1.74	10	2	ND	4	6	1	2	2	14	.46	.03	16	10	.43	155	.02	3	.62	.01	.04	2
AW-28-82-412	1	5	7	39	.1	3	3	251	1.14	2	8	ND	3	21	1	2	2	16	.39	.12	9	6	.27	45	.06	4	.75	.01	.16	2
AW-28-82-414	1	6	30	69	.1	6	3	352	1.14	2	24	ND	2	53	1	2	2	20	.45	.05	15	18	.28	106	.06	3	1.15	.01	.15	2
AW-28-82-416	2	23	31	100	.1	11	7	544	2.41	3	37	ND	5	38	1	2	4	30	.48	.11	30	17	.50	150	.12	7	1.34	.01	.46	2
AW-28-82-418	1	10	30	99	.1	6	4	182	.98	2	9	ND	3	21	1	2	2	12	.31	.06	27	9	.25	72	.05	2	.78	.01	.12	2
AW-28-82-420	1	6	12	46	.1	3	2	210	.88	2	51	ND	2	32	1	2	2	13	.33	.06	16	7	.18	54	.04	4	.70	.01	.11	2
AW-28-82-422	1	20	9	43	.1	14	7	244	1.73	3	5	ND	4	10	1	2	2	24	.44	.09	15	20	.54	53	.06	3	.92	.02	.18	2
AW-28-82-424	1	23	18	72	.2	23	8	347	1.98	2	15	ND	3	28	1	2	2	29	.73	.10	27	41	.93	136	.09	4	1.57	.02	.24	7
AW-28-82-426	1	19	11	39	.2	14	7	295	1.54	2	11	ND	2	27	1	2	2	24	3.23	.15	6	22	2.03	64	.06	6	1.01	.02	.15	2
AW-28-82-428	1	17	37	125	.3	10	6	826	1.68	5	9	ND	2	9	2	2	2	13	.39	.04	25	7	.33	69	.03	6	1.60	.01	.06	2
AW-28-82-430	1	17	17	50	.2	12	8	706	1.76	6	6	ND	4	8	1	2	2	12	.28	.03	16	9	.35	135	.04	4	1.24	.01	.07	2
AW-28-82-432	1	16	21	47	.2	11	8	665	1.70	8	8	ND	5	4	1	2	2	13	.20	.03	16	8	.32	125	.02	4	.79	.01	.07	2
AW-28-82-434	1	16	25	92	.3	19	12	470	2.14	4	3	ND	4	9	1	2	2	11	.36	.09	16	16	.45	137	.02	2	1.02	.01	.03	2
AW-28-82-436	1	18	59	331	.4	11	7	964	1.62	14	13	ND	5	23	1	5	3	7	4.04	.04	9	4	2.52	598	.01	2	.60	.01	.09	2
AW-28-82-438	1	17	46	354	.2	14	9	577	1.61	7	2	ND	4	7	2	2	2	12	.71	.04	14	8	.56	164	.02	2	.63	.01	.05	2
AW-28-82-440	1	32	24	67	.1	26	12	834	2.97	8	4	ND	9	6	1	2	3	12	.29	.06	17	15	.68	74	.01	3	1.11	.01	.06	2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
AW-28-82-442	1	37	25	71	.3	62	14	572	2.75	13	7	ND	2	14	1	2	2	9	.86	.08	14	17	.56	45	.01	6	1.19	.01	.05	2
AW-28-82-444	1	16	16	41	.1	23	9	274	2.08	12	9	ND	4	16	1	2	2	10	.33	.05	17	24	.46	36	.02	3	1.01	.01	.03	2
AW-28-82-446	1	21	14	46	.1	19	10	342	2.24	10	4	ND	5	11	1	2	2	12	.49	.06	11	12	.53	47	.01	5	.65	.01	.03	2
AW-28-82-448	1	23	16	59	.1	33	12	340	2.88	14	4	ND	6	11	1	3	2	10	.26	.04	17	17	.45	26	.01	6	.93	.01	.03	2
AW-28-82-450	1	10	15	52	.3	5	3	234	.97	3	9	ND	3	19	1	2	2	12	.25	.05	19	7	.20	57	.03	2	.64	.01	.10	2
AW-28-82-452	1	9	18	60	.2	5	3	327	.98	5	38	ND	3	32	1	2	2	11	.35	.04	17	12	.22	65	.04	3	.78	.01	.11	2
AW-28-82-454	1	5	20	45	.3	3	2	314	.78	4	45	ND	2	41	1	2	2	9	.36	.06	11	7	.21	47	.03	2	.70	.01	.10	2
AW-28-82-456	1	7	12	36	.1	6	4	327	1.14	5	12	ND	4	19	1	2	2	12	.21	.04	16	9	.21	64	.03	3	.70	.01	.11	2
AW-28-82-458	1	8	18	56	.1	7	5	184	.94	5	11	ND	3	16	1	2	2	10	.22	.06	15	5	.16	41	.03	3	.62	.01	.06	2
AW-28-82-462	1	108	14	58	.1	35	27	448	4.39	6	5	ND	4	13	1	2	3	93	.46	.09	12	40	1.56	95	.12	3	2.18	.01	.34	2
AW-28-82-464	1	49	13	49	.1	18	15	388	3.09	2	3	ND	3	20	1	2	2	73	.74	.10	11	26	1.11	122	.12	5	1.86	.03	.35	2
AW-28-82-466	1	80	12	51	.1	26	23	402	3.48	5	2	ND	2	14	1	2	2	82	.60	.08	9	38	1.23	78	.10	3	1.85	.02	.17	2
AW-28-82-468	1	19	25	34	.1	10	8	283	2.26	3	2	ND	5	20	1	2	2	44	.50	.10	17	16	.55	65	.07	2	1.02	.03	.19	9
STD A-1	1	30	39	170	.3	34	12	964	2.73	8	2	ND	2	29	2	2	3	55	.66	.10	9	77	.77	270	.09	7	1.96	.02	.19	2
AW28-82-470	1	13	6	25	.1	9	6	160	1.57	3	2	ND	5	19	1	2	2	31	.46	.09	16	12	.49	65	.07	2	.97	.03	.16	2
AW28-82-472	1	19	8	38	.1	13	9	241	2.10	2	2	ND	3	18	1	3	2	51	.45	.07	10	18	.77	119	.11	2	1.81	.02	.20	2
AW28-82-474	1	21	28	141	.1	12	7	205	1.66	2	2	ND	4	14	1	2	2	30	.45	.07	12	18	.67	87	.07	2	1.14	.02	.23	2
AW28-82-476	1	10	6	21	.1	6	4	186	1.23	2	2	ND	5	23	1	2	2	22	.70	.14	13	9	.48	56	.05	2	.89	.03	.17	2
AW28-82-478	1	16	15	26	.1	8	5	203	1.33	2	2	ND	5	14	1	2	2	16	.51	.06	13	9	.62	66	.05	2	.75	.02	.16	2
AW28-82-480	1	10	4	30	.2	8	5	156	1.37	2	2	ND	4	12	1	3	2	17	.29	.06	10	14	.50	116	.07	2	1.01	.02	.23	2
AW28-82-482	1	9	9	38	.1	8	5	270	1.66	2	2	ND	3	24	1	2	2	20	.41	.10	10	12	.43	119	.09	2	1.09	.01	.30	2
AW28-82-484	1	9	10	25	.1	6	4	159	1.13	2	3	ND	3	20	1	2	2	15	.29	.08	9	9	.32	84	.06	2	.77	.01	.19	2
AW28-82-486	1	6	5	20	.1	5	4	164	1.81	2	2	ND	4	54	1	3	2	24	.68	.25	19	9	.35	134	.06	2	.63	.02	.21	2

DATE RECEIVED JULY 30 1982 DATE REPORTS MAILED Aug 6/82 ASSAYER A. Beyer DEAN TOYE, CERTIFIED B.C. ASSAYER

KIDD CREEK PROJECT # 28 FILE # 82-0717 PAGE # 1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
AM28-82-490	1	7	9	37	.1	8	22	2208	1.82	2	4	ND	4	8	1	2	2	18	.11	.06	14	11	.25	62	.04	2	.96	.01	.11	2
AM28-82-492	2	5	17	40	.1	7	5	729	1.80	2	5	ND	2	18	1	2	2	19	.24	.09	18	9	.18	56	.03	2	1.27	.01	.08	2
AM28-82-494	1	7	9	42	.1	13	6	322	1.82	2	3	ND	3	15	1	2	2	27	.18	.05	14	19	.35	62	.06	2	1.20	.01	.12	2
AM28-82-496	1	6	8	45	.1	6	5	1256	1.45	2	8	ND	6	9	1	2	2	15	.19	.05	19	8	.21	50	.03	2	.91	.01	.09	2
AM28-82-498	1	4	16	52	.2	3	3	608	1.16	2	19	ND	2	18	1	2	2	13	.37	.06	28	5	.13	44	.02	2	.96	.01	.07	2
AM28-82-500	1	5	7	28	.1	6	3	266	1.01	2	3	ND	9	12	1	2	2	14	.24	.08	26	9	.23	39	.03	2	.73	.01	.08	2
AM28-82-502	1	8	6	45	.1	51	13	292	2.30	2	2	ND	8	29	1	2	2	49	.49	.12	15	39	1.35	238	.16	2	1.30	.03	.13	2
AM28-82-504	1	8	7	30	.1	23	6	178	1.38	2	2	ND	6	27	1	3	2	31	.44	.10	20	27	.59	203	.09	2	.84	.02	.13	2
AM28-82-506	1	16	8	64	.1	61	18	458	3.05	3	2	ND	4	63	1	2	2	46	.78	.11	12	55	1.82	309	.20	2	2.01	.09	.23	2
AM28-82-508	1	12	8	61	.1	69	24	635	3.82	2	2	ND	2	65	1	2	2	50	.67	.07	7	82	2.69	256	.27	2	2.26	.15	.16	2
AM28-82-510	1	15	16	102	.1	19	8	616	2.72	2	7	ND	13	40	1	2	2	56	.47	.15	59	28	.65	222	.17	2	2.73	.01	.25	2
AM28-82-512	1	7	4	26	.1	7	4	199	1.22	2	3	ND	10	18	1	2	2	26	.43	.16	40	13	.29	44	.05	2	.63	.01	.11	5
AM28-82-514	1	11	10	34	.1	15	9	334	2.45	2	2	ND	7	37	1	2	2	62	.53	.14	32	37	.52	127	.08	2	1.14	.01	.22	2
AM28-82-516	1	14	6	33	.1	17	12	275	3.27	13	2	ND	6	55	1	2	2	91	1.05	.28	27	52	.74	160	.11	2	1.34	.02	.24	2
AM28-82-518	1	15	6	55	.1	27	8	308	1.72	2	4	ND	5	47	1	2	2	43	.65	.21	30	34	.74	285	.12	2	1.38	.02	.36	2
AM28-82-520	1	8	6	46	.1	17	7	357	1.56	2	2	ND	4	46	1	2	2	37	.48	.14	23	28	.66	239	.10	2	1.44	.02	.25	2
AM28-82-522	1	4	3	22	.1	6	3	154	.76	2	2	ND	4	12	1	2	2	14	.23	.06	16	9	.22	39	.03	2	.69	.01	.06	2
AM28-82-524	1	38	20	385	.1	65	15	616	2.72	2	2	ND	4	74	1	2	2	48	1.14	.10	23	73	.90	141	.14	2	3.00	.05	.29	2
AM28-82-526	1	8	10	206	.1	12	5	177	1.09	2	2	ND	4	22	1	2	2	20	.26	.06	12	20	.30	72	.07	2	.94	.02	.14	2
AM28-82-528	1	18	8	59	.1	14	6	274	1.32	2	2	ND	3	27	1	2	2	25	.43	.07	13	24	.46	83	.05	2	1.22	.01	.09	2
AM28-82-530	1	16	110	300	.1	20	8	284	1.48	2	2	ND	4	27	1	2	2	24	.45	.09	17	22	.36	127	.06	2	1.29	.02	.14	2
AM28-82-532	1	5	4	31	.1	7	3	206	.83	2	2	ND	5	12	1	2	2	14	.28	.08	16	10	.23	41	.03	2	.66	.01	.08	2
AM28-82-534	1	13	27	243	.1	18	7	216	2.07	2	5	ND	3	34	1	2	2	31	.44	.07	23	26	.41	126	.06	2	2.21	.02	.19	2
AM28-82-536	1	13	7	42	.2	12	4	341	1.27	2	26	ND	4	14	1	2	2	17	.27	.03	25	17	.31	30	.02	2	.82	.01	.09	2
AM28-82-538	1	27	9	41	.2	12	6	309	1.45	2	10	ND	4	14	1	2	2	22	.29	.04	38	17	.33	24	.02	2	.82	.01	.06	2
AM28-82-540	3	271	25	453	.2	90	44	1730	2.28	2	17	ND	6	30	1	2	2	20	.44	.07	125	14	.56	44	.03	2	2.34	.01	.09	2
AM28-82-542	1	18	5	29	.1	13	8	296	1.50	2	3	ND	4	15	1	2	2	25	.38	.11	14	20	.49	47	.03	2	.73	.01	.08	2
AM28-82-544	1	13	6	35	.1	15	8	665	1.78	2	2	ND	3	20	1	2	2	33	.40	.10	26	31	.49	95	.02	2	1.10	.01	.07	2
AM28-82-546	1	21	9	47	.1	19	11	617	2.22	2	19	ND	6	21	1	2	2	37	.38	.09	71	34	.61	89	.02	2	1.36	.01	.11	2
AM28-82-548	1	15	5	30	.1	8	5	304	1.33	2	12	ND	5	15	1	2	2	22	.38	.12	31	13	.30	60	.02	2	.81	.01	.07	2
AM28-82-550	1	23	10	49	.1	24	13	621	2.06	2	2	ND	4	47	1	2	2	39	1.01	.11	21	45	.74	130	.04	2	1.54	.01	.13	2
AM28-82-552	1	31	10	55	.1	29	14	518	2.16	2	2	ND	3	26	1	2	2	45	.55	.12	17	58	.83	154	.04	2	1.31	.01	.08	2
AM28-82-554	1	16	9	41	.1	16	9	495	1.73	2	3	ND	4	33	1	2	2	31	.52	.08	13	26	.65	83	.03	2	1.52	.01	.07	2
AM28-82-556	1	7	8	42	.1	10	5	409	1.14	2	3	ND	7	14	1	2	2	18	.37	.13	20	14	.34	38	.03	2	.77	.01	.07	2
AM28-82-558	1	15	11	66	.1	18	8	376	1.77	2	2	ND	5	13	1	2	2	19	.26	.08	18	18	.48	35	.02	2	.99	.01	.09	2
AM28-82-560	1	22	11	76	.1	27	9	393	2.15	2	17	ND	5	36	1	2	2	40	.61	.07	49	32	.61	103	.09	2	2.14	.02	.14	2
AM28-82-562	1	9	7	48	.1	13	7	420	1.50	2	8	ND	7	20	1	2	2	27	.30	.08	21	17	.50	190	.06	2	1.10	.01	.15	2
STD A-1	1	30	41	188	.2	37	14	1096	2.72	11	2	ND	2	36	1	2	2	62	.66	.11	7	79	.82	280	.09	5	2.13	.02	.21	2

KIDD CREEK PROJECT # 29 FILE # 82-0717

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
AM28-82-564	2	29	10	65	.1	31	6	405	1.56	2	84	ND	2	38	1	2	2	23	.44	.05	80	24	.40	135	.06	2	1.12	.01	.15	2
AM28-82-566	1	15	6	59	.1	27	8	401	1.91	2	6	ND	4	23	1	2	2	25	.22	.07	14	25	.45	138	.07	2	.92	.01	.18	2
AM28-82-568	1	15	9	49	.1	19	11	429	2.21	5	2	ND	7	49	1	2	2	44	.64	.13	28	36	.70	184	.10	2	1.30	.02	.25	2
AM28-82-570	1	11	11	33	.1	15	9	347	1.52	6	2	ND	5	31	1	2	2	28	.39	.11	18	23	.41	111	.06	2	.85	.01	.18	2
AM28-82-572	1	16	11	54	.1	21	10	467	2.23	10	6	ND	6	69	1	2	2	40	.58	.11	33	31	.69	270	.10	2	1.59	.01	.23	2
AM28-82-574	1	14	10	36	.1	16	9	294	1.75	6	2	ND	5	40	1	2	2	36	.52	.15	19	26	.48	160	.07	2	1.00	.02	.18	2
AM28-82-576	1	10	9	38	.1	15	8	300	1.92	4	2	ND	6	60	1	2	2	40	.62	.13	29	28	.55	116	.08	2	1.24	.01	.18	2
AM28-82-578	1	20	19	65	.1	24	11	893	2.41	16	7	ND	6	54	1	2	2	41	.65	.12	26	40	.65	155	.09	2	1.44	.02	.19	2
AM28-82-580	1	75	33	232	.3	52	13	722	3.13	8	9	ND	7	40	1	2	2	43	.65	.07	25	48	.77	206	.10	3	1.84	.03	.27	2
AM28-82-582	1	12	8	56	.1	17	8	445	1.76	3	3	ND	5	19	1	2	2	27	.32	.10	19	25	.48	146	.06	3	.95	.01	.15	3
AM28-82-584	1	13	12	49	.1	26	10	683	2.24	2	9	ND	4	46	1	2	2	31	.46	.13	62	34	.58	244	.04	3	1.25	.01	.11	2
AM28-82-586	1	15	9	41	.1	20	7	619	2.04	2	7	ND	4	36	1	2	2	25	.42	.08	36	25	.43	152	.07	2	1.14	.01	.15	2
AM28-82-588	1	25	9	41	.1	25	8	744	1.85	2	13	ND	5	31	1	2	2	29	.39	.07	48	27	.42	191	.07	2	1.30	.01	.19	2
AM28-82-590	1	15	9	66	.1	20	8	390	1.83	2	4	ND	4	22	1	2	2	26	.21	.06	15	26	.51	188	.07	2	1.19	.01	.20	7
AM28-82-592	1	13	8	52	.1	15	8	460	1.73	2	3	ND	5	15	1	2	2	26	.21	.07	15	23	.50	155	.07	2	1.01	.01	.21	2
AM28-82-594	1	44	11	92	.1	70	25	704	3.66	31	2	ND	3	45	1	2	2	40	1.12	.16	8	77	.98	119	.02	4	1.15	.01	.04	2
AM28-82-596	1	39	27	72	.1	33	16	672	3.47	21	2	ND	5	23	1	2	2	19	.46	.10	7	21	.52	47	.01	3	.73	.01	.03	2
AM28-82-598	1	25	20	58	.1	34	16	427	3.45	13	2	ND	5	33	1	2	2	32	.70	.11	9	34	.55	41	.01	3	.69	.01	.03	2
AM28-82-600	1	25	20	67	.1	10	7	281	1.56	5	2	ND	2	21	1	2	2	20	.53	.05	7	14	.48	61	.04	2	.74	.01	.09	2
AM28-82-602	1	30	47	131	.1	11	9	526	2.19	7	2	ND	3	22	1	2	2	16	.73	.07	12	11	.39	75	.02	2	.53	.01	.04	2
AM28-82-604	2	76	59	151	.1	18	20	629	3.68	39	2	ND	5	43	1	2	2	20	.51	.11	15	12	.71	88	.02	3	.79	.01	.04	2

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
SAMPLE TYPE - SILT & SAVE REJECT

DATE RECEIVED AUG 7 1982 DATE REPORTS MAILED Aug 14/82 ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

KIDD CREEK PROJECT # 28 FILE # 82-0781

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
AW28-82-1004	1	21	10	59	.2	16	5	241	1.64	4	19	ND	2	55	1	2	2	30	.66	.12	21	22	.51	158	.08	2	1.39	.02	.16	2
AW28-82-1006	1	31	7	53	.2	17	9	252	2.25	5	3	ND	3	50	1	2	2	54	.67	.14	11	32	.76	166	.10	5	1.16	.02	.21	6
AW28-82-1008	1	28	5	45	.2	17	9	245	2.11	2	2	ND	3	50	1	2	2	50	.66	.14	12	33	.77	166	.10	3	1.15	.02	.20	6
AW28-82-1100	1	24	10	61	.2	27	12	474	2.39	2	2	ND	3	24	1	2	2	41	.51	.13	17	56	.79	138	.04	2	1.27	.01	.08	2
AW28-82-1102	1	33	13	63	.4	33	12	659	2.55	2	2	ND	2	58	1	2	2	46	1.22	.14	18	60	.85	290	.05	4	1.51	.01	.11	2
AW28-82-1104	1	30	10	61	.3	27	12	476	2.25	2	2	ND	3	25	1	2	2	37	.54	.13	17	49	.75	130	.04	4	1.18	.01	.08	2
AW28-82-1106	2	28	16	71	.3	26	12	684	2.27	2	2	ND	2	26	1	2	2	36	.53	.12	20	45	.69	127	.03	4	1.30	.01	.07	2

KIDD CREEK MINES LTD FILE#82-0368 PAGE 4 PROJECT SALMO

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
CL28-82 2	1	18	14	52	.2	19	9	545	2.33	4	2	ND	5	25	1	2	2	16	.27	.05	17	20	.46	362	.03	7	1.20	.02	.16	2
CL28-82 4	1	12	18	58	.1	22	9	626	2.62	4	2	ND	8	19	1	3	2	13	.30	.08	22	23	.64	81	.02	8	1.36	.01	.12	2
CL28-82 6	1	18	66	61	.2	32	11	1136	2.30	8	5	ND	4	40	1	2	2	20	.68	.13	23	34	.54	155	.05	7	2.11	.01	.09	2
CL28-82 8	1	4	4	14	.1	8	7	346	.82	2	2	ND	3	3	1	2	2	5	.03	.02	7	10	.13	30	.01	5	.44	.01	.06	2
CL28-82 10	1	8	11	38	.1	16	9	564	1.42	6	2	ND	6	11	1	2	2	10	.14	.05	16	13	.32	77	.02	8	.76	.01	.06	2
CL28-82 12	1	10	12	53	.1	24	9	431	2.16	9	2	ND	7	14	1	2	2	11	.18	.06	18	21	.53	63	.01	6	1.13	.01	.08	2
CL28-82 14	1	11	13	58	.1	19	9	363	1.67	2	2	ND	4	14	1	2	2	18	.21	.04	15	21	.38	91	.04	6	1.22	.01	.10	2
CL28-82 16	1	10	14	42	.1	15	7	273	1.69	3	2	ND	4	25	1	2	2	22	.34	.06	14	20	.41	88	.05	6	1.18	.02	.10	2
CL28-82 18	1	14	33	58	.2	28	11	989	2.31	8	2	ND	7	27	1	2	2	25	.76	.19	19	26	1.07	115	.06	7	1.47	.02	.19	2
CL28-82 20	1	11	15	49	.1	18	8	304	1.92	3	3	ND	4	34	1	2	2	25	.41	.06	15	24	.54	99	.07	7	1.48	.03	.14	2
CL28-82 22	1	6	9	26	.1	7	4	177	1.13	3	2	ND	2	8	1	2	2	13	.12	.03	8	12	.18	126	.03	5	.65	.01	.06	2
CL28-82 24	1	6	8	14	.1	8	3	172	.78	2	2	ND	2	11	1	2	2	10	.15	.03	6	14	.18	136	.02	4	.46	.01	.05	2
CL28-82 26	1	14	43	100	.2	15	7	353	1.44	2	2	ND	5	14	1	2	2	11	.16	.05	13	15	.31	67	.03	5	.79	.01	.10	2
CL28-82 28	1	15	46	132	.2	23	8	568	2.27	4	6	ND	7	41	1	2	2	26	4.22	.22	16	27	3.40	123	.06	7	1.81	.01	.30	2
CL28-82 30	2	26	141	200	1.0	14	3	176	1.41	6	3	ND	3	36	3	2	3	68	7.98	.15	7	13	4.32	38	.03	6	.60	.01	.08	3
CL28-82 32	4	54	53	1074	.7	58	8	322	2.81	9	9	ND	4	41	12	4	2	131	.84	.15	14	23	.82	216	.10	9	1.64	.02	.30	3
CL28-82 34	1	13	41	89	.2	13	7	227	1.28	2	2	ND	5	11	1	2	2	11	.15	.04	12	14	.27	56	.03	5	.68	.01	.09	3
CL28-82 36	1	31	62	148	.5	21	10	700	2.55	4	2	ND	7	36	1	2	2	20	.65	.10	21	23	.61	143	.06	7	1.70	.04	.29	2
CL28-82 38	1	25	40	109	.3	21	9	569	2.15	5	6	ND	5	55	1	3	2	29	.93	.13	14	32	.77	113	.06	10	1.84	.05	.25	2
CL28-82 40	2	23	758	1313	.8	25	6	206	2.18	8	6	ND	23	31	3	4	2	69	.93	.15	23	22	.64	165	.05	6	.97	.02	.10	2
CL28-82 42	1	33	140	555	.5	36	10	629	2.63	16	2	ND	6	74	4	2	2	49	7.04	.11	17	42	2.06	359	.07	8	1.80	.04	.34	2
CL28-82 44	1	20	22	97	.3	68	10	478	3.24	24	5	ND	9	29	1	3	2	73	.47	.08	30	34	.56	172	.09	9	1.68	.01	.12	2
CL28-82 46	2	31	21	316	.4	31	6	252	2.34	8	2	ND	10	26	3	3	2	103	.62	.18	26	23	.57	204	.07	6	1.19	.01	.10	2
CL28-82 48	1	23	22	103	.2	63	10	313	3.02	14	4	ND	16	32	1	3	2	67	.45	.09	26	55	.83	201	.12	9	1.91	.02	.27	2
CL28-82 50	1	30	140	336	.6	43	11	589	3.15	43	4	ND	8	41	2	4	2	60	.59	.09	25	49	.99	330	.08	9	2.10	.02	.24	2

KIDD CREEK MINES FILE # 82-0488 PAGE # 3

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
CL28-82-52	1	15	7	29	.1	12	8	347	1.73	3	8	ND	5	7	1	3	2	19	.26	.05	20	13	.54	118	.02	2	1.07	.01	.04	2
CL28-82-54	1	7	6	29	.1	10	6	243	1.41	3	3	ND	7	4	1	3	2	7	.10	.04	25	9	.62	71	.01	2	.87	.01	.05	2
CL28-82-56	1	6	4	27	.1	10	5	293	1.37	4	3	ND	6	3	1	3	2	6	.07	.03	25	9	.61	59	.01	2	.78	.01	.06	2
CL28-82-58	1	17	20	67	.1	27	13	434	3.21	17	5	ND	7	10	1	4	2	11	.27	.07	15	22	.59	71	.01	2	1.29	.01	.03	2
CL28-82-60	1	30	17	45	.1	17	14	351	2.79	14	3	ND	7	7	1	6	2	43	.17	.03	22	16	.62	56	.04	2	1.13	.01	.04	2
CL28-82-62	1	30	16	45	.1	17	14	370	2.66	12	2	ND	6	7	1	5	2	41	.17	.04	22	17	.61	61	.04	2	1.15	.01	.05	2
CL28-82-64	1	26	19	57	.1	13	10	491	2.87	35	2	ND	8	3	1	8	2	9	.04	.02	30	7	.29	51	.01	3	.76	.01	.08	2
CL28-82-66	1	21	20	57	.1	19	13	457	3.00	14	5	ND	8	4	1	6	2	36	.06	.02	29	26	.80	55	.01	2	1.38	.01	.08	2
CL28-82-68	1	40	16	59	.1	24	17	434	3.76	9	2	ND	7	7	1	3	2	60	.18	.03	21	23	1.23	59	.06	2	1.87	.01	.07	2
CL28-82-70	1	25	18	50	.1	18	14	449	2.83	21	3	ND	6	6	1	5	2	36	.10	.03	21	16	.62	62	.01	4	1.17	.01	.04	2
CL28-82-72	1	13	21	59	.1	25	10	484	2.88	12	4	ND	9	17	1	2	2	9	.30	.07	17	22	.62	82	.01	5	1.61	.01	.02	2
CL28-82-74	1	18	20	72	.1	24	10	510	2.89	18	2	ND	6	15	1	2	2	10	.49	.08	12	19	.59	86	.01	3	1.30	.01	.03	2
CL28-82-76	1	14	21	63	.1	26	11	630	3.31	21	2	ND	6	32	1	2	2	9	.49	.10	16	24	.58	49	.01	3	1.68	.01	.02	2
CL28-82-78	1	15	19	65	.1	30	14	950	3.92	14	2	ND	10	21	1	4	2	9	.31	.12	24	27	.71	81	.01	4	1.70	.02	.09	2
CL28-82-80	1	18	26	76	.4	24	13	318	3.04	16	2	ND	8	13	1	2	8	12	.39	.11	17	19	.52	64	.01	3	1.14	.01	.03	4
CL28-82-82	1	8	13	29	.1	9	5	200	1.73	3	2	ND	3	22	1	2	2	37	.30	.08	15	21	.46	75	.08	9	1.97	.02	.07	2
CL28-82-84	1	5	9	28	.1	8	4	255	1.29	2	2	ND	4	20	1	2	2	22	.37	.09	15	14	.46	76	.07	3	1.22	.02	.16	2
CL28-82-86	1	5	6	20	.1	9	5	177	1.24	2	2	ND	4	26	1	2	2	26	.42	.11	15	20	.45	62	.07	3	1.01	.02	.13	2
CL28-82-88	1	4	6	20	.1	7	4	164	1.03	2	2	ND	4	25	1	2	2	23	.40	.10	16	18	.37	52	.05	2	.86	.02	.09	2
CL28-82-90	1	46	17	73	.1	30	15	675	3.61	7	2	ND	4	15	1	4	2	56	.67	.08	14	40	1.30	62	.06	6	1.82	.02	.10	2
CL28-82-92	1	20	10	38	.1	18	8	330	2.04	5	3	ND	5	21	1	2	2	27	.47	.08	22	20	.65	56	.07	3	1.40	.02	.12	2
CL28-82-94	1	14	15	52	.1	16	7	406	1.74	5	3	ND	2	35	1	2	2	28	.71	.08	12	33	.86	140	.11	4	2.14	.03	.13	2
CL28-82-96	1	8	6	27	.1	9	5	235	1.28	2	3	ND	4	16	1	2	2	18	.28	.06	13	14	.41	48	.06	2	1.01	.02	.10	2
CL28-82-98	1	54	9	42	.1	14	12	304	2.21	5	2	ND	2	19	1	2	2	44	.60	.11	5	18	.78	67	.09	2	1.40	.03	.14	2
CL28-82-100	1	12	7	33	.1	10	5	224	1.28	2	2	ND	2	24	1	2	2	20	.47	.06	6	20	.72	100	.09	2	1.47	.04	.19	2

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
SAMPLE TYPE - SILT

DATE RECEIVED JULY 21 1982 DATE REPORTS MAILED Aug 3/82 ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

KIDD CREEK PROJECT # 28 FILE # 82-0641

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
CL28-82-102	1	7	13	41	.1	8	5	363	1.67	5	2	ND	2	43	1	2	2	14	.64	.13	5	14	.65	75	.03	2	1.62	.01	.07	2
CL28-82-104	1	6	7	24	.1	4	4	205	1.15	2	2	ND	2	23	1	2	2	12	.41	.11	4	6	.45	53	.02	2	.94	.01	.06	2
CL28-82-106	1	7	8	18	.1	4	3	137	.93	5	2	ND	2	13	1	2	2	15	.32	.10	7	5	.31	46	.05	2	.87	.01	.10	2
CL28-82-108	1	9	27	18	.1	10	5	202	1.03	2	2	ND	3	6	1	2	2	12	.11	.04	6	13	.33	42	.04	2	.76	.01	.10	2
CL28-82-110	1	6	6	20	.1	4	4	165	.97	2	2	ND	2	18	1	2	2	12	.38	.11	5	5	.39	51	.04	2	.79	.01	.10	2
CL28-82-112	1	3	10	31	.1	3	4	328	1.01	3	2	ND	4	15	1	2	2	16	.24	.06	10	4	.37	42	.05	2	.90	.02	.10	2
CL28-82-114	1	3	24	19	.1	2	2	97	.53	3	2	ND	4	11	1	2	2	8	.30	.11	11	2	.17	22	.02	2	.43	.01	.05	9
CL28-82-116	1	4	8	19	.1	5	4	241	.97	2	4	ND	2	20	1	2	2	17	.24	.06	12	6	.31	34	.04	2	.95	.01	.04	2
CL28-82-118	1	37	16	67	.1	27	15	407	2.46	5	2	ND	3	19	1	2	2	22	.70	.09	5	20	.52	36	.02	2	.95	.01	.04	2
CL28-82-120	1	5	6	19	.1	3	2	150	.65	3	6	ND	18	13	1	2	2	11	.43	.17	28	3	.18	30	.03	2	.40	.01	.07	4
CL28-82-122	1	4	6	24	.1	4	3	222	1.23	2	13	ND	52	32	1	2	2	25	.51	.18	39	8	.30	50	.05	2	.54	.01	.10	2
CL28-82-124	1	4	9	34	.1	4	3	254	1.29	4	14	ND	42	35	1	2	2	25	.74	.18	39	10	.37	61	.05	2	.60	.01	.11	2
CL28-82-126	1	9	22	29	.1	5	5	248	1.35	2	4	ND	15	55	1	2	2	17	1.18	.19	18	7	.63	56	.04	2	1.24	.01	.15	2
CL28-82-128	1	16	21	49	.1	8	5	430	1.79	5	11	ND	7	52	1	2	2	23	.75	.12	10	10	.62	88	.06	2	1.17	.02	.26	2
CL28-82-130	1	12	10	30	.1	4	4	228	.84	2	2	ND	2	57	1	2	2	13	6.51	.06	5	6	1.74	251	.03	2	.64	.01	.16	2
CL28-82-132	1	26	43	42	.1	14	18	303	2.90	17	2	ND	6	20	1	2	2	29	1.27	.06	10	9	.98	266	.02	2	.54	.01	.07	2
CL82-82-134	1	19	14	43	.1	9	6	285	1.55	5	2	ND	3	10	1	2	2	16	.14	.02	18	13	.28	60	.05	2	1.07	.01	.15	2
CL28-82-136	1	32	16	48	.1	10	9	260	1.91	6	2	ND	4	6	1	2	2	28	.12	.02	15	12	.39	44	.04	2	.97	.01	.11	2
CL28-82-138	1	27	16	45	.1	12	9	283	1.90	7	3	ND	7	7	1	2	2	24	.14	.03	20	11	.38	46	.04	2	.88	.01	.11	2
CL28-82-140	1	33	18	58	.1	17	11	430	2.95	10	2	ND	7	9	1	2	2	26	.12	.03	13	15	.58	50	.01	2	1.16	.01	.11	2
STD A-1	1	32	41	171	.3	33	12	974	2.73	11	2	ND	2	36	2	2	2	56	.63	.10	8	69	.77	272	.09	5	2.02	.02	.20	2
CL28-82-170	1	15	28	77	.2	10	10	1064	1.76	21	2	ND	2	7	1	2	2	11	.63	.04	4	10	.75	252	.02	3	1.00	.01	.05	2
CL28-82-172	1	18	39	80	.2	11	12	812	2.01	13	2	ND	3	7	1	2	2	11	1.04	.04	4	10	1.13	205	.02	3	.88	.01	.07	2
CL28-82-174	1	23	28	62	.2	11	11	1118	2.53	120	2	ND	2	6	1	2	2	7	.72	.05	4	5	.61	214	.01	2	.69	.01	.05	2
CL28-82-176	2	16	41	100	.2	14	13	1197	2.62	45	4	ND	2	11	1	2	2	6	1.36	.05	3	6	1.10	236	.01	2	.74	.01	.07	2
CL28-82-178	1	16	30	67	.2	10	10	616	1.75	14	2	ND	3	7	1	2	2	9	.47	.05	4	7	.59	219	.01	2	.62	.01	.04	2
CL28-82-180	1	19	26	55	.1	10	9	538	1.71	16	2	ND	3	7	1	2	2	5	.76	.05	3	5	.70	168	.01	2	.53	.01	.02	2
CL28-82-182	1	7	12	16	.1	3	4	762	.81	2	15	ND	2	10	1	2	2	4	.45	.05	4	3	.13	89	.01	2	.68	.01	.04	2
CL28-82-184	1	16	23	35	.1	8	6	745	1.28	15	7	ND	2	9	1	2	2	9	.31	.05	5	9	.23	81	.01	2	.67	.01	.03	2
CL28-82-186	1	31	29	42	.1	14	11	479	2.07	37	3	ND	3	7	1	2	2	18	.21	.04	6	14	.47	40	.01	2	.82	.01	.05	2
CL28-82-188	1	26	19	31	.2	13	9	402	1.83	65	2	ND	2	11	1	2	2	19	.38	.04	8	11	.37	42	.01	2	1.04	.01	.04	2
CL28-82-190	1	20	16	44	.1	10	7	250	1.54	50	2	ND	4	8	1	2	2	11	.13	.02	13	6	.29	36	.02	2	.68	.01	.09	2
CL28-82-192	1	12	18	47	.1	6	5	298	1.08	14	2	ND	2	4	1	2	2	7	.27	.03	3	4	.38	70	.01	2	.45	.01	.02	2
CL28-82-194	1	21	23	71	.1	13	9	305	1.58	31	4	ND	2	12	1	2	2	6	.15	.03	10	7	.34	58	.01	2	.83	.01	.03	2
CL28-82-196	1	43	50	113	.2	19	16	990	2.30	70	3	ND	2	39	1	2	2	15	.48	.08	20	13	.39	53	.01	2	1.11	.01	.08	2
CL28-82-198	4	25	34	138	.2	11	10	646	2.13	32	2	ND	3	13	2	2	4	13	.15	.04	9	9	.38	39	.01	2	.89	.01	.05	11
CL28-82-200	1	18	13	31	.1	9	7	299	1.35	22	2	ND	4	5	1	2	2	10	.07	.02	8	4	.20	19	.01	2	.49	.01	.03	2
CL28-82-202	1	19	13	30	.1	8	6	163	1.29	7	2	ND	4	5	1	2	2	12	.09	.02	10	7	.27	30	.03	2	.70	.01	.08	2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
CL28-82-204	1	20	15	40	.1	9	6	222	1.50	12	2	ND	4	5	1	2	2	13	.15	.03	13	9	.34	34	.04	2	.84	.01	.10	2
CL28-82-206	1	28	14	55	.1	16	14	307	2.23	13	2	ND	8	8	1	2	2	20	.23	.04	17	23	.78	69	.08	2	1.33	.01	.40	2
CL28-82-208	2	17	11	40	.1	13	6	206	1.65	6	2	ND	6	37	1	2	2	17	.32	.04	10	18	.70	64	.07	2	1.29	.03	.36	9
CL28-82-210	1	9	9	36	.1	8	4	228	1.04	2	2	ND	3	4	1	2	2	12	.17	.03	7	16	.62	53	.05	2	.83	.01	.17	2
CL28-82-212	1	11	9	21	.1	8	6	329	1.10	4	2	ND	3	6	1	2	2	9	.91	.03	8	8	1.05	56	.04	2	.79	.01	.24	2
CL28-82-214	1	15	12	31	.2	11	8	611	1.71	3	8	ND	4	14	1	2	2	14	3.14	.03	12	14	2.59	124	.06	2	1.18	.01	.25	2
CL28-82-216	1	13	14	30	.1	9	6	302	1.25	2	4	ND	5	5	1	2	2	12	.26	.03	10	11	.72	53	.06	2	.99	.02	.22	2
CL28-82-218	3	21	22	90	.1	11	9	469	2.23	24	8	ND	6	35	1	2	2	37	.58	.16	29	26	1.06	142	.09	2	1.49	.01	.51	8
CL28-82-220	1	13	13	52	.1	8	6	217	1.23	6	2	ND	5	12	1	2	2	16	.25	.07	15	16	.61	49	.05	2	.84	.01	.25	2
CL28-82-222	1	9	8	24	.1	6	7	129	1.02	3	2	ND	13	9	1	2	2	12	.23	.09	16	9	.31	34	.03	2	.50	.01	.16	2
CL28-82-224	1	13	17	49	.1	29	7	245	1.46	6	4	ND	6	10	1	2	2	15	.20	.06	16	24	.71	60	.05	2	.75	.01	.20	5
CL28-82-226	1	16	16	31	.2	17	9	274	1.46	20	2	ND	5	9	1	2	2	22	.25	.06	13	30	.54	69	.04	2	.66	.01	.14	2
CL28-82-228	1	16	12	23	.1	12	6	192	1.27	6	2	ND	5	6	1	2	2	14	.18	.05	15	15	.36	26	.03	2	.65	.01	.10	2
CL28-82-230	1	39	22	48	.1	12	9	261	1.88	10	2	ND	3	7	1	2	2	44	.25	.05	8	13	.51	30	.04	2	.92	.01	.11	2
CL28-82-232	1	8	9	30	.1	7	6	222	1.23	2	4	ND	5	6	1	2	2	10	.18	.03	13	8	.42	45	.04	2	.65	.01	.13	2
CL28-82-234	1	13	14	37	.1	9	7	258	1.46	5	2	ND	6	4	1	2	2	7	.28	.04	11	5	.33	42	.02	2	.44	.01	.07	2
CL28-82-236	1	12	10	29	.1	7	5	472	1.00	5	6	ND	2	8	1	2	2	6	.37	.04	10	8	.30	28	.01	2	.43	.01	.03	2
CL28-82-238	1	50	17	66	.1	12	7	304	1.55	16	2	ND	4	6	1	2	2	10	.18	.03	7	7	.23	17	.01	2	.50	.01	.02	2
CL28-82-240	1	10	13	25	.1	7	5	381	1.00	4	2	ND	3	5	1	2	2	5	.44	.04	7	5	.41	47	.01	2	.36	.01	.03	2
CL28-82-242	1	11	6	22	.1	9	7	156	1.28	2	2	ND	12	12	1	2	2	10	.23	.06	15	9	.31	35	.03	2	.52	.01	.12	5
CL28-82-244	1	16	12	27	.1	9	7	300	1.28	5	4	ND	3	6	1	2	2	18	.22	.04	7	12	.37	31	.03	2	.63	.01	.09	2
CL28-82-246	1	14	10	21	.1	8	6	335	1.25	8	2	ND	4	5	1	2	2	13	.33	.04	6	10	.57	50	.03	2	.69	.01	.08	2
CL28-82-248	1	32	33	57	.1	17	9	921	2.13	10	2	ND	4	13	1	2	2	23	.64	.06	14	27	.68	58	.04	3	1.06	.01	.10	2
CL28-82-250	1	28	26	40	.1	12	8	276	1.83	28	2	ND	7	7	1	2	2	20	.16	.04	14	11	.44	26	.04	2	.77	.01	.11	2
CL28-82-252	1	42	23	73	.1	13	11	258	1.89	35	2	ND	4	5	1	2	2	32	.16	.03	10	17	.49	56	.06	2	1.15	.01	.21	3
CL28-82-254	1	39	17	40	.1	13	12	397	2.24	110	2	ND	4	6	1	2	2	41	.26	.04	8	23	.62	50	.05	2	1.16	.01	.18	2
CL28-82-256	1	45	21	41	.4	15	9	473	2.08	16	3	ND	4	12	1	2	2	32	.25	.03	29	13	.41	74	.06	2	1.73	.01	.11	2
CL28-82-258	1	88	24	27	.6	20	10	762	2.08	45	15	ND	6	20	1	2	2	30	.43	.03	48	18	.33	80	.09	2	2.77	.02	.10	2
CL28-82-260	1	15	9	30	.1	10	7	183	1.54	8	3	ND	6	13	1	2	2	16	.21	.04	12	11	.45	41	.04	2	.73	.01	.17	5
CL28-82-262	1	3	6	25	.1	2	2	575	1.28	2	42	ND	2	58	1	2	2	15	.17	.05	78	1	.11	115	.02	2	.82	.01	.03	2
CL28-82-264	1	8	9	27	.1	9	4	219	1.70	5	9	ND	7	45	1	2	12	16	.30	.05	23	9	.34	39	.03	2	.90	.02	.09	5
CL28-82-266	1	2	8	30	.1	1	1	368	.89	2	17	ND	5	30	1	2	2	9	.17	.06	43	2	.12	66	.02	3	.71	.01	.05	2
CL28-82-268	2	2	9	26	.1	1	1	453	1.19	2	31	ND	6	23	1	2	2	13	.18	.05	42	3	.15	57	.02	2	.67	.01	.06	2
CL28-82-270	1	19	23	57	.1	23	9	542	2.37	2	9	ND	4	38	1	2	2	21	.71	.05	18	28	.76	225	.06	3	2.26	.04	.16	2
CL28-82-272	1	6	12	36	.1	8	7	489	1.84	8	2	ND	5	6	1	2	2	15	.37	.02	15	12	1.74	348	.06	2	1.36	.01	.41	4
CL28-82-274	1	10	8	28	.1	7	6	451	1.40	3	2	ND	4	13	1	2	2	14	1.57	.05	9	11	1.85	250	.07	2	1.16	.01	.44	2
CL28-82-276	2	3	7	16	.1	2	1	211	.64	2	3	ND	4	12	1	2	2	7	.12	.03	21	3	.10	29	.02	2	.38	.01	.04	2
STD A-1	1	31	42	170	.3	33	12	967	2.70	10	2	ND	2	35	2	2	2	55	.63	.10	8	70	.76	268	.09	5	1.99	.02	.20	2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
CL28-82-278	1	6	7	16	.1	5	4	128	1.14	2	6	ND	18	19	1	2	20	9	.33	.06	29	4	.25	51	.02	2	.41	.01	.06	16
CL28-82-280	1	7	8	24	.1	7	4	267	.98	2	2	ND	2	4	1	2	2	6	.78	.02	8	6	.74	46	.03	2	.51	.01	.09	2
CL28-82-282	1	5	6	19	.1	5	3	146	2.24	2	2	ND	11	5	1	2	2	16	.18	.04	26	5	.23	61	.02	2	.59	.01	.04	2
CL28-82-284	1	9	10	27	.1	7	6	349	1.08	3	2	ND	3	3	1	2	2	7	.17	.03	9	5	.29	31	.03	2	.51	.01	.11	2
CL28-82-286	1	10	10	30	.1	8	5	299	1.20	3	2	ND	4	5	1	2	2	8	.28	.03	11	6	.43	68	.04	2	.65	.01	.13	2
CL28-82-288	1	9	9	24	.1	7	6	222	1.06	2	2	ND	4	3	1	2	2	6	.15	.03	9	5	.30	27	.03	2	.47	.01	.10	2
CL28-82-290	1	18	21	73	.1	13	8	408	1.69	7	2	ND	5	6	1	2	2	11	.30	.03	9	11	.94	98	.06	2	1.09	.01	.21	2
CL28-82-292	1	14	18	78	.3	12	6	237	1.71	11	2	ND	3	8	1	2	2	12	.30	.03	8	8	.43	71	.05	3	1.03	.01	.10	2
CL28-82-294	1	7	5	21	.1	6	3	201	.92	2	2	ND	6	18	1	2	2	7	.63	.05	11	7	.53	50	.02	2	.57	.01	.09	2
CL28-82-296	1	12	13	41	.1	9	7	1330	1.58	4	2	ND	2	13	1	2	2	9	.46	.03	22	6	.25	56	.04	2	.71	.01	.12	2
CL28-82-298	1	16	16	41	.1	11	7	350	1.79	6	2	ND	7	7	1	2	3	7	.80	.03	9	7	.94	110	.03	2	.69	.01	.21	2
CL28-82-300	1	10	5	23	.1	7	3	171	.96	2	2	ND	5	25	1	2	5	7	.48	.04	14	7	.21	33	.02	2	.53	.01	.06	2
CL28-82-302	1	17	21	56	.2	13	7	287	2.04	10	3	ND	4	8	1	2	2	13	.39	.03	18	9	.66	53	.02	2	1.02	.01	.09	2
CL28-82-304	2	36	67	162	.3	30	21	2147	3.72	29	11	ND	3	11	2	3	2	10	.60	.08	18	12	.57	377	.01	2	1.19	.01	.09	2
CL28-82-306	1	28	27	63	.2	16	10	530	2.32	19	3	ND	3	9	1	2	2	12	.26	.05	20	10	.42	125	.02	2	1.32	.01	.07	2
CL28-82-308	1	13	37	77	.2	12	8	380	1.75	12	5	ND	2	30	1	2	2	10	2.79	.04	11	9	2.13	42	.03	2	.65	.01	.13	2
CL28-82-310	1	14	43	148	.3	10	8	562	1.73	11	2	ND	3	14	1	2	2	10	1.32	.05	11	6	1.11	238	.02	2	.72	.01	.11	2
CL28-82-312	1	21	24	69	.2	16	11	490	2.42	14	2	ND	5	12	1	2	2	14	.82	.04	14	11	1.18	136	.04	2	1.02	.01	.17	2
CL28-82-314	1	39	61	79	.3	13	10	724	2.25	10	8	ND	5	20	1	2	2	11	3.35	.05	11	9	2.45	213	.03	2	.94	.01	.17	2
CL28-82-316	1	22	27	89	.2	15	8	530	1.93	13	5	ND	4	10	1	2	2	15	.51	.05	13	13	.77	62	.05	9	1.19	.01	.18	2
CL28-82-318	1	13	16	51	.1	11	6	457	1.91	4	6	ND	6	20	1	2	2	16	.61	.05	22	11	.88	89	.05	2	1.23	.02	.22	2
CL28-82-320	1	33	27	51	.2	12	8	1614	2.41	13	5	ND	4	14	1	2	2	6	1.90	.05	10	2	1.13	264	.01	2	.44	.01	.05	2
CL28-82-322	1	15	23	61	.2	9	5	493	1.54	5	2	ND	4	6	1	2	2	14	.34	.03	14	7	.49	29	.04	2	.74	.01	.13	2
CL28-82-324	1	37	21	62	.1	20	13	428	2.39	19	2	ND	6	9	1	2	2	15	.16	.04	19	16	.48	23	.01	2	.99	.01	.05	.
CL28-82-326	1	35	17	41	.1	12	8	319	2.08	12	5	ND	6	7	1	2	2	9	.17	.04	12	13	.37	21	.01	2	.63	.01	.03	2
CL28-82-328	1	9	14	24	.1	7	6	380	1.25	5	4	ND	3	6	1	2	2	9	.22	.05	14	8	.25	31	.01	2	.54	.01	.04	2
CL28-82-330	1	23	12	33	.1	12	10	272	2.41	15	4	ND	5	6	1	2	2	26	.14	.04	16	11	.45	19	.02	2	.71	.01	.04	2
CL28-82-336	1	22	23	61	.2	15	10	343	2.47	15	5	ND	5	20	1	2	2	17	.22	.04	24	18	.59	77	.07	2	1.57	.01	.25	2
CL28-82-338	1	12	12	66	.2	13	9	249	2.61	11	2	ND	6	10	1	2	2	16	.14	.03	16	16	.67	48	.07	2	1.58	.01	.24	2
CL28-82-340	1	8	7	37	.1	7	6	207	2.37	5	14	ND	15	24	1	2	24	33	.78	.30	50	17	.50	63	.06	2	.92	.01	.28	36
CL28-82-342	2	32	25	130	.2	26	18	306	3.30	22	2	ND	8	17	1	2	2	17	.20	.04	37	19	.72	51	.07	2	1.76	.01	.22	2
CL28-82-344	1	21	17	54	.1	12	7	231	2.82	13	3	ND	8	7	1	2	2	14	.13	.03	22	14	.53	34	.07	2	1.04	.01	.20	2
CL28-82-346	1	26	26	72	.3	17	9	341	2.12	27	7	ND	4	31	1	2	2	14	.49	.06	27	23	.56	49	.05	2	1.32	.01	.23	4
CL28-82-348	1	12	13	43	.1	9	5	206	1.98	10	6	ND	9	13	1	2	2	19	.36	.13	34	13	.48	43	.06	2	.91	.01	.19	2
CL28-82-350	1	22	22	69	.2	18	11	324	2.93	21	4	ND	7	13	1	2	2	40	.24	.06	22	22	.68	57	.06	2	1.40	.01	.19	2
CL28-82-352	1	8	25	51	.1	10	7	245	2.02	17	2	ND	5	13	1	2	2	32	.32	.06	17	16	.49	31	.06	2	.99	.01	.14	2
CL28-82-354	1	17	17	52	.1	13	7	261	2.62	23	4	ND	9	7	1	2	2	11	.11	.03	22	15	.53	34	.04	2	1.03	.01	.16	2

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
SAMPLE TYPE - SILT

DATE RECEIVED JULY 15 1982 DATE REPORTS MAILED July 19/82 ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

KIDD CREEK PROJECT # 28 FILE # 82-0598 PAGE # 1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
CL28-82-356	1	10	10	29	.1	11	8	175	3.16	8	7	ND	15	10	1	2	2	32	.25	.07	23	15	.35	34	.04	2	.60	.01	.11	5
CL28-82-358	1	12	9	31	.2	10	7	195	2.11	8	5	ND	7	11	1	2	2	20	.21	.05	23	11	.40	33	.04	2	.67	.01	.12	2
CL28-82-360	1	26	16	39	.1	11	7	251	2.08	17	3	ND	6	6	1	2	2	26	.22	.03	15	14	.48	47	.07	2	.93	.02	.26	2
CL28-82-362	1	14	10	41	.2	12	6	248	1.91	16	11	ND	6	15	1	2	2	13	.21	.05	19	10	.40	38	.03	2	.50	.01	.13	4
CL28-82-364	1	9	8	25	.1	12	11	247	2.51	11	5	ND	6	3	1	2	2	15	.10	.03	17	11	.40	54	.02	2	.59	.01	.07	2
CL28-82-366	1	20	33	73	.2	13	10	475	2.13	9	8	ND	4	22	1	2	2	11	3.97	.05	6	4	2.60	336	.01	2	.49	.01	.10	2
CL28-82-368	3	11	13	50	.2	8	6	339	1.56	7	2	ND	4	6	1	2	2	9	.40	.04	12	6	.39	50	.02	2	.43	.01	.06	2
CL28-82-370	1	15	23	40	.1	9	6	671	2.39	12	2	ND	4	4	1	2	2	8	.29	.03	14	5	.54	45	.01	2	.67	.01	.08	2
CL28-82-372	4	13	19	53	.1	9	7	434	1.74	9	2	ND	4	6	1	2	2	10	.44	.04	12	5	.52	89	.02	2	.55	.01	.07	2
CL28-82-374	1	6	9	30	.1	6	4	261	.98	2	2	ND	5	2	1	2	2	4	.05	.02	15	4	.20	25	.01	2	.38	.01	.06	2
CL28-82-376	1	6	10	20	.1	5	5	184	1.38	4	2	ND	3	3	1	2	2	8	.08	.03	16	6	.23	26	.01	3	.49	.01	.04	2
CL28-82-378	1	6	17	32	.1	5	4	233	1.12	17	14	ND	2	3	1	2	2	9	.21	.04	12	6	.26	93	.01	2	.78	.01	.06	2
CL28-82-380	1	4	6	19	.1	5	4	132	.92	3	2	ND	3	3	1	2	2	6	.08	.02	14	4	.20	23	.01	2	.42	.01	.04	2
STD A-1	1	30	42	174	.4	33	12	977	2.80	12	2	ND	2	35	2	2	2	56	.64	.10	8	71	.74	263	.08	5	1.93	.02	.20	2
CL28-82-376	1	12	24	37	.1	7	11	283	1.21	6	2	ND	2	9	1	2	2	15	.18	.05	13	4	.22	42	.02	2	.84	.01	.03	2
CL28-82-378	1	13	12	21	.1	6	5	143	1.68	5	2	ND	2	4	1	2	2	13	.10	.02	6	6	.24	28	.04	2	1.08	.01	.06	2
CL28-82-380	1	10	9	19	.1	5	3	58	.98	4	2	ND	4	2	1	2	2	6	.03	.02	6	3	.17	21	.02	2	.48	.01	.04	2
CL28-82-382	1	26	19	49	.1	15	14	329	2.24	5	2	ND	3	13	1	2	2	18	.32	.03	14	9	.31	48	.04	2	1.43	.01	.09	2
CL28-82-384	1	24	19	66	.1	18	10	252	1.90	6	2	ND	4	6	1	2	2	11	.12	.03	13	8	.22	55	.02	2	1.14	.01	.05	2
CL28-82-386	1	16	16	44	.1	11	8	274	1.43	5	2	ND	5	6	1	2	2	11	.12	.03	8	7	.30	39	.02	2	.63	.01	.08	2
CL28-82-388	1	23	49	132	.2	16	10	588	1.97	9	3	ND	4	12	1	2	2	9	1.77	.04	4	5	1.21	106	.01	2	.49	.01	.03	2
CL28-82-390	1	23	51	133	.2	16	11	591	1.98	7	2	ND	4	12	1	2	2	8	1.80	.04	4	5	1.21	106	.01	2	.49	.01	.03	2
STD A-1	1	30	43	169	.2	33	12	958	2.69	8	2	ND	2	35	2	2	2	55	.63	.09	8	70	.76	263	.08	5	1.97	.02	.19	2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
CL28-82-382	1	10	17	31	.1	8	6	292	1.49	17	5	ND	4	4	1	2	2	10	.14	.03	13	8	.38	46	.01	2	.66	.01	.05	2
CL28-82-384	1	9	37	31	.3	9	5	274	1.36	12	3	ND	2	22	1	2	2	7	.37	.06	10	8	.33	107	.01	2	.98	.01	.05	2
CL28-82-386	1	5	9	21	.1	5	4	155	.89	4	3	ND	3	4	1	2	2	6	.11	.03	13	4	.20	36	.01	3	.46	.01	.04	2
CL28-82-388	1	11	12	29	.1	7	7	480	1.66	6	9	ND	3	9	1	2	2	18	.23	.06	14	11	.42	79	.01	2	.67	.01	.05	2
CL28-82-390	1	6	10	25	.1	6	6	235	1.30	8	5	ND	3	4	1	2	2	8	.10	.03	13	6	.24	42	.01	3	.50	.01	.04	2
CL28-82-392	4	15	20	57	.2	10	8	454	1.92	8	2	ND	4	8	1	2	2	11	.50	.04	13	6	.52	95	.02	2	.58	.01	.08	2
CL28-82-394	1	14	22	47	.1	8	6	502	1.61	6	8	ND	2	22	1	2	2	9	.32	.08	13	10	.29	242	.01	4	1.00	.01	.07	2
CL28-82-396	1	11	7	22	.1	10	6	448	1.71	2	2	ND	6	3	1	2	2	5	.09	.03	17	8	.34	46	.01	2	.54	.01	.07	2
CL28-82-398	1	8	11	31	.1	8	7	271	1.73	9	2	ND	4	4	1	2	2	11	.12	.03	14	7	.32	42	.01	2	.52	.01	.05	2
CL28-82-400	1	13	13	49	.1	12	8	337	2.12	8	2	ND	5	6	1	2	2	9	.41	.04	16	7	.54	88	.01	2	.62	.01	.06	2
CL28-82-402	1	11	21	47	.1	10	8	371	1.69	9	2	ND	3	5	1	2	2	10	.39	.04	14	5	.64	122	.02	2	.62	.01	.08	2
CL28-82-404	1	12	16	56	.1	10	7	290	1.58	7	3	ND	4	6	1	2	2	8	.45	.04	15	6	.59	117	.02	2	.60	.01	.07	2
CL28-82-406	1	4	5	13	.1	5	4	96	1.02	2	2	ND	5	3	1	2	2	5	.07	.03	16	4	.18	43	.01	2	.31	.01	.04	2
CL28-82-408	1	14	17	29	.1	12	7	234	1.99	14	2	ND	7	4	1	2	2	8	.09	.03	18	11	.33	24	.01	2	.53	.01	.03	2
CL28-82-410	1	39	23	46	.1	17	14	361	3.21	24	6	ND	7	8	1	2	2	53	.16	.04	18	12	.66	27	.04	2	1.06	.01	.07	2
CL28-82-412	1	44	26	67	.2	23	15	436	3.68	17	2	ND	6	19	1	2	2	53	.42	.06	17	16	.81	27	.04	2	1.32	.01	.09	2
CL28-82-414	1	59	16	39	.1	10	6	193	1.63	18	2	ND	5	7	1	2	2	18	.20	.04	18	11	.40	34	.06	2	.77	.01	.19	2
CL28-82-416	1	30	17	58	.1	12	7	282	2.34	27	3	ND	4	10	1	2	2	23	.17	.03	19	18	.56	49	.10	2	1.27	.01	.40	2
CL28-82-418	1	35	16	42	.2	14	11	317	2.47	14	3	ND	4	14	1	2	2	31	.29	.04	18	19	.53	74	.09	2	1.47	.02	.21	2
CL28-82-420	22	6	28	108	.1	7	9	1907	1.89	3	33	ND	6	25	1	2	2	20	.16	.06	18	7	.45	146	.07	4	1.41	.02	.28	3
CL28-82-422	6	4	7	36	.1	5	4	460	1.17	2	15	ND	15	11	1	2	2	10	.19	.07	19	7	.19	52	.03	3	.48	.01	.12	6
CL28-82-424	8	4	9	43	.1	6	4	624	1.30	2	19	ND	7	17	1	2	2	12	.21	.06	23	8	.22	69	.04	3	.66	.01	.13	5
CL28-82-426	7	5	9	44	.1	6	4	575	1.27	2	19	ND	6	17	1	2	2	12	.19	.06	21	8	.24	70	.04	2	.68	.01	.14	7
CL28-82-428	5	5	7	50	.1	7	4	469	1.30	2	11	ND	8	16	1	2	4	14	.26	.08	22	9	.25	64	.05	2	.65	.01	.14	7
CL28-82-430	2	8	6	39	.1	9	5	341	1.38	2	5	ND	5	19	1	2	2	18	.32	.08	12	16	.40	70	.08	2	.80	.02	.22	2
CL28-82-432	1	12	4	35	.1	14	7	327	1.87	3	6	ND	5	20	1	2	2	23	.43	.12	12	21	.54	89	.09	2	.89	.02	.37	2
CL28-82-434	2	5	8	49	.1	8	4	574	1.27	2	12	ND	5	11	1	2	2	13	.45	.10	9	12	.31	49	.05	2	.58	.01	.11	5
CL28-82-436	2	4	16	102	.1	6	2	309	.97	6	37	ND	10	8	1	2	2	8	.11	.04	13	5	.10	54	.01	2	.89	.01	.06	2
CL28-82-438	1	9	7	32	.1	15	6	218	1.41	2	2	ND	6	21	1	2	2	12	.24	.05	10	18	.51	44	.04	2	.80	.02	.16	2
CL28-82-602	1	13	13	76	.1	19	8	506	2.08	2	20	ND	4	31	1	2	2	30	.31	.07	17	27	.63	153	.07	2	1.12	.01	.13	2
CL28-82-604	1	18	10	44	.1	10	7	453	1.35	2	2	ND	3	8	1	2	2	17	.14	.05	10	12	.33	57	.03	2	.77	.01	.10	2
CL28-82-606	1	19	9	62	.1	9	9	1167	2.40	2	4	ND	6	13	1	2	2	28	.24	.08	16	13	.43	97	.05	2	1.00	.01	.12	2
CL28-82-608	1	19	7	44	.1	9	8	476	1.76	2	2	ND	7	8	1	2	2	31	.18	.06	10	12	.52	66	.05	2	.82	.01	.16	2
CL28-82-610	2	8	11	25	.1	5	7	319	1.63	2	3	ND	2	7	1	2	2	28	.07	.05	8	13	.21	48	.05	2	.71	.01	.06	2
CL28-82-612	1	13	8	33	.1	9	7	338	1.24	2	2	ND	4	5	1	2	2	16	.08	.03	9	12	.30	52	.03	2	.75	.01	.11	2
STD A-1	1	30	44	191	.3	37	14	1086	2.71	8	2	ND	2	39	2	2	2	61	.65	.11	7	80	.82	318	.09	6	1.86	.02	.20	2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
CL28-82-614	2	15	16	67	.1	11	10	1103	1.90	2	3	ND	4	9	1	2	2	23	.15	.05	14	18	.40	80	.04	2	1.21	.01	.13	2
CL28-82-616	1	15	15	78	.1	14	10	1098	1.98	2	9	ND	4	20	1	2	2	23	.26	.05	36	21	.41	101	.04	2	1.31	.01	.12	2
CL28-82-618	1	7	9	36	.1	5	6	841	1.28	3	3	ND	8	7	1	2	2	15	.14	.04	16	10	.21	45	.03	2	.69	.01	.08	2
CL28-82-620	1	7	6	26	.1	16	8	329	1.43	4	2	ND	7	24	1	2	2	30	.53	.19	24	23	.59	191	.08	2	.78	.01	.18	2
CL28-82-622	1	7	9	42	.1	15	10	464	1.81	6	2	ND	6	26	1	2	2	39	.51	.17	19	25	.67	220	.10	2	1.05	.03	.24	2
CL28-82-624	1	14	8	41	.1	5	6	654	1.42	2	2	ND	6	18	1	2	2	24	.35	.10	18	9	.41	69	.03	2	.88	.01	.09	2
CL28-82-626	1	10	6	27	.1	5	5	253	1.14	2	8	ND	11	15	1	2	2	18	.56	.22	27	8	.24	29	.02	2	.52	.01	.05	2
CL28-82-628	1	16	16	56	.1	9	8	432	1.56	2	2	ND	4	13	1	2	2	19	.18	.04	15	13	.36	59	.03	2	.90	.01	.10	2
CL28-82-630	1	18	19	114	.1	18	9	622	2.45	2	7	ND	5	23	1	2	2	29	.34	.07	18	26	.61	68	.05	2	1.44	.01	.12	5
CL28-82-632	1	9	5	39	.1	5	6	536	1.43	2	3	ND	4	16	1	2	2	22	.32	.09	17	9	.38	50	.02	2	.88	.01	.07	2
CL28-82-634	1	11	6	37	.1	8	6	407	1.49	2	2	ND	7	16	1	2	2	27	.41	.14	19	14	.45	56	.03	2	.92	.01	.09	2
CL28-82-636	1	14	10	58	.1	15	7	391	1.91	2	2	ND	4	15	1	2	2	22	.28	.07	15	20	.50	64	.04	3	1.13	.01	.11	2
CL28-82-638	1	8	8	28	.1	8	5	329	1.50	2	2	ND	7	19	1	2	2	23	.33	.08	23	13	.38	57	.03	2	1.03	.01	.07	2
CL28-82-640	1	10	10	66	.1	11	9	391	2.61	2	2	ND	7	73	1	2	2	58	.97	.23	37	24	.99	117	.13	2	1.75	.01	.15	2
CL28-82-642	1	8	8	35	.1	8	6	532	1.80	2	11	ND	6	49	1	2	2	33	.59	.12	34	13	.48	138	.05	2	1.29	.01	.11	2
CL28-82-644	1	8	8	42	.1	8	5	300	1.71	2	7	ND	5	38	1	2	2	32	.58	.16	29	14	.54	115	.06	2	1.04	.01	.11	2
CL28-82-646	1	12	12	46	.1	12	7	362	1.71	3	2	ND	4	19	1	2	2	24	.37	.11	17	17	.46	86	.04	2	.85	.01	.10	2
CL28-82-648	1	13	13	53	.1	12	7	477	1.96	2	3	ND	4	30	1	2	2	25	.43	.09	32	19	.43	169	.03	2	1.18	.01	.11	2
CL28-82-650	1	9	8	34	.1	8	6	392	1.70	4	2	ND	6	18	1	2	2	29	.38	.10	17	16	.54	106	.05	2	.93	.01	.13	2
CL28-82-652	1	13	10	39	.1	13	8	380	1.80	2	2	ND	6	20	1	2	2	31	.38	.09	13	25	.65	99	.06	2	.97	.02	.15	2
CL28-82-668	1	4	5	36	.2	5	3	470	1.08	2	2	ND	4	21	1	2	2	14	.22	.06	17	5	.20	79	.04	3	1.07	.01	.13	2
CL28-82-670	1	5	9	54	.1	7	4	440	1.23	2	2	ND	3	22	1	2	2	18	.44	.13	14	6	.29	94	.06	2	1.02	.01	.12	2
CL28-82-702	1	13	7	58	.1	8	7	842	2.12	2	2	ND	6	10	1	2	2	24	.45	.12	19	25	.46	136	.15	4	1.43	.02	.35	2
CL28-82-704	1	18	6	30	.1	10	4	222	1.51	2	2	ND	6	31	1	2	2	22	.68	.19	21	24	.44	59	.09	2	.85	.03	.21	2
CL28-82-706	1	13	7	29	.2	10	4	168	1.40	2	2	ND	5	80	1	2	2	21	1.20	.13	14	24	.44	86	.10	3	1.92	.11	.30	2
CL28-82-708	1	9	7	33	.1	9	6	473	2.06	2	2	ND	3	7	1	2	2	26	.34	.10	14	26	.48	83	.13	3	1.17	.02	.30	2
CL28-82-710	1	2	2	9	.1	4	2	99	.77	2	2	ND	4	6	1	2	2	9	.24	.07	12	12	.21	37	.05	2	.51	.01	.15	2
CL28-82-712	2	23	16	73	.2	18	8	523	2.52	2	2	ND	7	120	1	2	2	39	1.17	.29	57	31	1.02	104	.12	5	1.58	.07	.38	2
CL28-82-714	1	16	6	23	.2	8	4	150	1.50	2	2	ND	21	46	1	2	2	25	.84	.19	58	26	.45	53	.08	3	1.02	.04	.25	12
CL28-82-716	1	25	12	48	.2	24	8	352	2.50	3	2	ND	6	128	1	2	2	33	1.17	.10	16	39	.76	81	.14	4	2.50	.11	.42	2
CL28-82-718	1	19	6	23	.1	10	4	130	1.30	2	2	ND	5	46	1	2	2	21	1.05	.12	11	23	.65	64	.10	3	1.77	.06	.41	2
CL28-82-720	1	18	4	17	.2	8	3	106	1.09	2	2	ND	10	46	1	2	2	18	1.18	.20	20	20	.46	52	.07	3	1.53	.06	.28	6
CL28-82-722	1	9	5	22	.2	8	4	132	1.36	2	2	ND	14	48	1	2	2	21	.52	.15	38	22	.38	42	.09	2	.66	.02	.24	2
CL28-82-724	1	17	9	66	.2	13	6	406	1.58	5	8	ND	8	57	1	2	2	28	.63	.13	43	30	1.32	87	.12	3	1.58	.03	.29	2
CL28-82-726	1	19	10	45	.1	23	16	1833	3.90	8	2	ND	5	38	1	2	2	33	.55	.10	20	34	.58	183	.12	6	1.74	.03	.39	2
CL28-82-728	3	23	14	91	.4	24	14	1550	4.29	5	2	ND	24	754	1	2	2	57	4.17	.83	182	44	2.28	757	.03	5	1.74	.05	.54	2
CL28-82-730	1	27	32	154	.2	38	12	583	3.35	7	2	ND	11	166	1	2	2	51	1.95	.11	30	43	1.11	364	.21	7	3.87	.16	.39	2

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
SAMPLE TYPE - SILT & ROCK & PULP

DATE RECEIVED AUG 13 1982 DATE REPORTS MAILED Aug 21/82 ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

KIDD CREEK MINES PROJECT # 28 FILE # 82-0838 PAGE # 1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
CL28-82-732	1	20	8	53	.2	27	12	847	2.88	2	2	ND	4	41	1	2	2	46	.46	.07	22	44	.76	280	.19	4	2.35	.03	.46	2
CL28-82-734	1	37	10	78	.1	70	17	380	3.10	2	2	ND	5	46	1	2	2	54	.45	.10	21	74	1.25	250	.22	5	2.87	.04	.55	2
CL28-82-736	1	9	4	20	.1	10	4	161	1.18	2	2	ND	7	49	1	2	2	17	.68	.10	22	20	.35	68	.07	3	1.17	.05	.25	2
CL28-82-738	1	23	6	47	.2	22	7	244	2.37	4	2	ND	4	26	1	2	2	42	.38	.09	14	41	.82	184	.19	4	1.67	.03	.72	2
CL28-82-740	2	39	8	64	.2	125	19	413	3.23	2	2	ND	4	31	1	2	2	54	.44	.06	15	131	1.81	217	.21	6	2.35	.03	.53	2
CL28-82-742	1	17	6	30	.2	29	7	201	2.07	3	2	ND	7	29	1	2	2	36	.57	.12	16	43	.82	100	.13	4	1.25	.04	.37	2
CL28-82-744	1	17	9	53	.3	38	10	350	2.69	3	2	ND	5	97	1	2	2	50	.81	.16	24	58	1.18	469	.18	5	2.17	.05	.45	2
CL28-82-746	1	15	6	40	.1	20	7	244	2.28	2	2	ND	6	42	1	2	2	43	.49	.09	23	39	.65	141	.14	4	1.59	.03	.31	2
CL28-82-748	1	22	6	33	.2	20	7	226	1.84	2	2	ND	3	104	1	2	2	29	1.36	.09	10	31	.57	127	.11	6	2.16	.15	.28	2
CL28-82-750	1	19	12	43	.2	19	10	513	2.41	2	3	ND	6	24	1	2	2	36	.30	.07	22	34	.71	144	.07	4	1.80	.02	.19	2
CL28-82-752	1	35	13	75	.3	33	13	490	2.98	3	2	ND	6	35	1	2	2	50	.39	.08	26	57	1.00	138	.10	6	2.07	.02	.16	2
CL28-82-754	1	18	8	38	.1	19	7	319	1.95	2	6	ND	5	35	1	2	2	28	.45	.09	17	32	.49	116	.07	3	1.08	.04	.17	2
CL28-82-756	1	18	7	42	.2	23	8	390	2.19	2	4	ND	6	37	1	2	2	31	.41	.08	17	40	.71	71	.06	3	1.25	.03	.15	2
CL28-82-758	1	30	4	40	.2	28	12	362	2.85	4	2	ND	6	33	1	2	2	51	.48	.10	21	51	.87	136	.09	4	1.41	.02	.19	2
CL28-82-760	2	18	12	80	.2	24	11	1322	2.82	2	2	ND	3	68	1	2	2	34	.68	.08	27	33	.54	165	.07	4	2.08	.04	.13	2
CL28-82-762	1	25	14	50	.2	35	15	540	2.92	2	2	ND	6	35	1	2	2	44	.52	.12	24	52	.85	103	.06	11	1.25	.02	.13	2
CL28-82-764	1	25	14	65	.2	66	16	793	3.39	2	2	ND	4	59	1	2	2	52	.66	.12	20	199	1.33	141	.07	5	1.73	.01	.13	2
CL28-82-766	1	30	9	39	.3	40	15	299	2.97	3	2	ND	5	36	1	2	2	51	.58	.13	20	68	.78	74	.08	4	1.09	.02	.07	2
CL28-82-768	1	67	16	66	.3	85	30	882	4.88	2	2	ND	2	48	1	2	2	98	.85	.12	12	179	2.06	125	.15	6	2.41	.01	.11	2
CL28-82-770	1	58	13	67	.2	72	25	871	4.65	4	2	ND	2	37	1	2	2	92	.58	.11	13	144	1.89	157	.14	6	2.34	.01	.14	2
CL28-82-772	1	55	10	70	.2	96	26	806	4.77	6	2	ND	2	38	1	2	2	96	.65	.11	13	199	2.03	103	.12	6	2.33	.01	.08	2
CL28-82-774	1	50	10	64	.2	79	22	649	3.92	2	2	ND	2	36	1	2	2	80	.59	.10	11	178	1.78	84	.13	4	1.92	.01	.07	2
STD A-1	1	30	38	169	.4	32	12	935	2.67	11	2	ND	2	35	1	2	2	53	.62	.09	9	71	.74	276	.08	9	1.93	.02	.20	2
CL28-82-776	1	34	20	93	.2	58	18	1277	3.56	3	2	ND	2	106	1	2	2	52	1.27	.15	14	95	1.31	227	.08	6	1.82	.01	.17	2
CL28-82-778	1	33	17	67	.3	52	17	663	3.81	4	2	ND	4	51	1	2	2	52	.76	.14	17	78	1.23	118	.07	4	1.56	.01	.17	2
CL28-82-780	2	38	23	63	.2	45	19	1037	3.45	7	2	ND	4	30	1	2	2	44	.53	.08	20	59	.95	137	.06	6	1.44	.01	.06	2
CL28-82-782	2	20	18	45	.3	26	9	626	2.42	2	2	ND	9	34	1	2	2	34	.47	.07	52	40	.59	103	.03	7	1.00	.01	.08	2
CL28-82-784	1	23	10	41	.2	31	12	357	2.53	2	2	ND	4	38	1	2	2	39	.54	.11	17	50	.76	88	.06	3	1.08	.02	.10	2
CL28-82-786	1	10	7	43	.3	19	7	409	2.06	2	2	ND	4	43	1	2	2	33	.46	.12	23	34	.51	131	.06	3	1.24	.02	.13	2
CL28-82-788	1	27	13	56	.2	26	13	596	3.13	2	2	ND	4	48	1	2	2	44	.61	.11	24	42	.68	181	.05	3	1.32	.02	.18	2
CL28-82-790	1	11	7	42	.2	19	7	373	1.97	2	3	ND	5	53	1	2	2	28	.42	.10	17	31	.47	140	.05	3	.77	.03	.17	2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
CL28-82-792	2	40	8	79	.4	24	9	654	2.89	17	2	ND	2	65	1	2	2	40	2.18	.07	7	21	.78	129	.07	4	1.16	.02	.17	2
CL28-82-794	2	60	7	84	.4	23	11	915	3.34	21	2	ND	2	41	1	2	2	56	.83	.09	8	22	.90	269	.08	4	1.51	.04	.36	2
CL28-82-796	7	59	8	144	.6	37	11	770	3.41	25	2	ND	2	63	2	2	2	34	1.92	.07	7	18	.79	88	.03	3	.72	.01	.05	2
CL28-82-798	1	29	7	85	.4	25	10	1045	2.97	9	2	ND	2	40	1	2	2	38	.81	.10	8	29	.81	144	.10	4	1.49	.02	.10	2
CL28-82-800	3	42	6	92	.4	31	13	764	3.51	26	2	ND	2	31	1	2	2	45	.63	.06	7	26	.72	92	.11	3	1.19	.01	.06	2
CL28-82-802	6	51	8	197	.9	37	12	922	4.09	21	2	ND	2	46	2	2	2	41	.68	.08	12	19	.46	103	.10	2	1.13	.01	.04	2
CL28-82-804	3	51	7	102	.4	43	17	1446	3.72	17	2	ND	2	56	2	2	2	45	1.36	.07	7	38	.78	127	.11	2	1.41	.01	.06	2
CL28-82-806	1	23	3	90	.1	28	17	832	4.40	10	2	ND	2	54	1	2	2	80	.51	.11	10	32	.97	114	.32	2	1.20	.02	.09	2
CL28-82-808	1	4	4	25	.1	3	3	285	.81	2	5	ND	9	9	1	2	2	13	.26	.09	13	3	.20	35	.02	2	.44	.01	.06	2
CL28-82-810	1	11	14	46	.2	8	5	442	1.47	2	2	ND	4	34	1	2	2	24	.38	.11	20	9	.34	155	.04	3	1.83	.01	.15	2
CL28-82-812	1	4	3	21	.1	2	2	272	.65	2	2	ND	5	6	1	2	2	9	.17	.06	10	1	.14	33	.02	3	.38	.01	.06	2
CL28-82-814	1	3	3	13	.1	2	2	145	.53	2	2	ND	6	11	1	2	2	10	.34	.14	18	1	.14	40	.02	4	.49	.01	.05	2
CL28-82-816	1	4	3	18	.1	2	2	128	.54	2	2	ND	5	14	1	2	2	8	.29	.10	11	1	.15	17	.02	2	.41	.01	.05	2
CL28-82-818	1	7	2	28	.1	3	3	232	.79	3	6	ND	8	11	1	2	2	15	.25	.08	10	2	.26	24	.03	3	.57	.01	.08	2
CL28-82-820	1	4	4	36	.2	2	2	401	.69	2	43	ND	3	14	1	2	2	9	.25	.07	10	1	.13	25	.02	3	.72	.01	.05	2
CL28-82-822	1	3	1	12	.1	1	1	102	.38	2	2	ND	5	8	1	2	2	8	.29	.12	10	1	.11	14	.01	2	.32	.01	.04	2
CL28-82-824	4	66	3	27	.1	7	6	219	1.37	2	2	ND	4	15	1	2	2	24	.23	.09	11	11	.52	42	.05	3	1.00	.01	.21	2
CL28-82-826	1	5	3	18	.1	2	2	141	.60	2	2	ND	4	15	1	2	2	11	.27	.09	10	1	.20	23	.02	3	.53	.01	.06	2
CL28-82-828	1	3	4	15	.1	2	2	117	.54	2	2	ND	5	13	1	2	2	9	.30	.11	13	1	.15	15	.02	4	.39	.01	.04	2
CL28-82-830	1	3	4	16	.1	3	3	145	.51	2	3	ND	2	10	1	2	2	8	.18	.05	6	1	.14	23	.02	2	.43	.01	.06	2
CL28-82-832	1	3	5	25	.1	2	2	212	.77	2	8	ND	6	10	1	2	2	10	.22	.07	13	2	.21	16	.02	2	.45	.01	.07	2
CL28-82-834	1	4	4	18	.1	4	2	128	.74	2	2	ND	5	13	1	2	2	11	.23	.08	16	2	.17	26	.03	4	.56	.01	.06	2
CL28-82-836	1	5	5	20	.1	5	3	141	.82	2	2	ND	4	11	1	2	2	11	.21	.07	13	5	.19	34	.03	2	.66	.01	.09	2
CL28-82-838	1	5	5	30	.1	5	3	143	.93	2	5	ND	3	22	1	2	2	11	.27	.08	13	6	.22	26	.02	2	.73	.01	.06	2
CL28-82-840	1	3	5	31	.1	3	2	142	.69	2	3	ND	3	10	1	2	2	9	.24	.08	13	1	.15	28	.02	3	.57	.01	.06	2
CL28-82-842	1	14	7	79	.1	15	5	276	1.58	2	3	ND	3	12	1	2	2	18	.20	.05	8	15	.37	54	.05	4	.90	.02	.23	2
CL28-82-844	1	16	8	38	.2	9	5	361	1.58	3	5	ND	8	13	1	2	2	22	.29	.09	16	12	.41	38	.03	3	.75	.01	.12	2
CL28-82-846	1	10	4	35	.1	5	3	208	.81	2	2	ND	3	12	1	2	2	12	.33	.11	10	2	.23	25	.03	4	.51	.01	.05	2
CL28-82-848	1	24	7	45	.1	8	7	444	1.93	2	8	ND	7	23	1	2	2	29	.41	.12	21	9	.68	51	.03	2	1.16	.01	.10	2
CL28-82-850	1	10	9	27	.1	5	4	230	1.04	2	4	ND	6	9	1	2	2	11	.19	.06	16	2	.20	27	.01	2	.46	.01	.06	2
CL28-82-852	1	34	19	110	.1	23	9	412	2.80	2	12	ND	5	22	1	2	2	29	.36	.08	17	30	.68	69	.06	3	1.40	.01	.24	2
STD A-1	1	31	38	183	.5	31	11	910	2.67	8	2	ND	2	34	1	2	2	50	.61	.10	8	66	.71	268	.08	10	1.85	.02	.21	2

KIDD CREEK PROJECT # 28 FILE # 82-0937

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
CL28-82-854	1	23	12	127	.1	40	10	333	2.14	2	6	ND	5	14	1	2	2	17	.16	.05	16	15	.42	59	.06	2	1.12	.01	.22	2
CL28-82-856	1	20	9	43	.1	33	9	253	1.43	2	5	ND	4	19	1	2	2	18	.33	.09	13	18	.41	66	.04	3	.73	.01	.14	2
CL28-82-858	1	29	6	46	.1	33	11	228	2.28	2	8	ND	3	27	1	2	2	43	.58	.13	14	60	.92	209	.09	2	1.29	.02	.24	2
CL28-82-860	1	7	7	34	.1	7	4	226	1.06	2	3	ND	3	9	1	2	2	14	.15	.05	13	9	.21	57	.03	3	.81	.01	.11	2
CL28-82-862	1	7	6	35	.1	7	3	125	1.23	2	2	ND	3	9	1	2	2	18	.16	.03	13	10	.21	60	.05	2	1.20	.01	.11	2
CL28-82-864	1	4	4	25	.1	4	2	199	.92	2	4	ND	3	16	1	2	2	13	.23	.06	17	8	.18	63	.04	2	.82	.01	.11	2
CL28-82-866	1	5	4	26	.1	5	3	189	1.06	2	6	ND	4	19	1	2	2	16	.31	.07	17	8	.25	68	.05	2	.89	.01	.15	2
CL28-82-872	1	5	6	39	.1	6	4	287	1.21	2	3	ND	5	11	1	2	2	16	.19	.06	15	10	.25	81	.05	2	1.04	.01	.16	2
CL28-82-874	1	3	3	29	.1	5	3	322	.88	2	2	ND	5	9	1	2	2	12	.17	.06	13	6	.21	60	.04	2	.64	.01	.13	2
CL28-82-876	1	3	4	28	.1	5	2	172	.85	2	2	ND	8	14	1	2	2	13	.35	.13	23	6	.19	52	.04	2	.59	.01	.10	2
CL28-82-878	1	9	8	66	.2	11	6	553	1.79	2	3	ND	3	27	1	2	2	23	.37	.07	17	16	.34	109	.07	4	1.46	.01	.19	2
CL28-82-880	1	4	3	37	.1	6	3	267	1.14	2	3	ND	3	14	1	2	2	17	.20	.05	11	10	.28	61	.05	2	.80	.01	.11	2
CL28-82-882	1	13	7	48	.2	11	5	336	1.55	2	4	ND	4	14	1	2	2	23	.26	.08	18	15	.37	79	.04	2	.95	.01	.11	2
CL28-82-884	1	13	11	49	.2	11	6	314	1.76	2	5	ND	6	13	1	2	2	18	.24	.08	19	14	.41	67	.03	3	.90	.01	.09	2
CL28-82-886	1	9	7	39	.2	13	6	294	1.51	2	2	ND	4	16	1	2	2	19	.30	.11	15	14	.38	94	.03	4	.72	.01	.08	2
CL28-82-889	1	12	11	47	.3	13	6	1019	1.72	2	4	ND	4	38	1	2	2	18	.36	.04	26	13	.27	230	.03	3	1.36	.01	.12	2
CL28-82-890	1	7	7	40	.2	9	5	448	1.71	3	3	ND	7	22	1	2	2	18	.34	.10	28	10	.31	137	.02	3	.72	.01	.10	2
CL28-82-892	1	5	4	27	.2	9	4	344	1.36	2	5	ND	6	19	1	2	2	17	.38	.14	25	11	.24	92	.02	3	.61	.01	.06	2
CL28-82-894	1	9	6	31	.1	8	4	185	1.17	2	2	ND	5	12	1	2	2	13	.30	.11	15	9	.25	46	.02	4	.53	.01	.06	2
CL28-82-896	1	8	3	38	.1	7	3	232	1.20	2	2	ND	5	9	1	2	2	14	.17	.05	17	7	.22	46	.04	4	.60	.01	.10	2
CL28-82-898	1	20	9	61	.2	19	8	482	2.29	2	37	ND	8	17	1	2	2	26	.28	.08	19	26	.52	150	.06	4	1.01	.01	.20	2
CL28-82-900	1	5	4	28	.1	6	3	303	1.05	2	3	ND	6	10	1	2	2	14	.20	.07	15	7	.19	59	.03	2	.59	.01	.08	2
CL28-82-902	1	7	8	44	.1	8	4	312	1.23	2	4	ND	4	18	1	2	2	16	.21	.05	23	9	.28	93	.04	3	1.01	.01	.12	2
CL28-82-904	1	2	4	18	.1	4	2	129	.61	2	2	ND	4	6	1	2	2	6	.12	.04	12	2	.09	34	.01	2	.24	.01	.04	2

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE. SN* ANALYSIS BY AA FROM 1.00 GRAM SAMPLE. SAMPLE TYPE - SILT

DATE RECEIVED AUG 25 1982 DATE REPORTS MAILED Sept 3/82 ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

KIDD CREEK MINES PROJECT # 28 FILE # 82-0939

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb	Sn* ppm
CL28-82-906	2	20	11	44	.1	25	12	437	2.51	2	2	ND	5	26	1	2	2	24	.52	.08	12	44	.71	44	.02	2	1.12	.01	.05	2	5	1
CL28-82-908	1	2	4	17	.1	3	2	217	1.01	2	3	ND	22	15	1	2	2	10	.13	.03	35	9	.18	46	.02	2	.45	.02	.08	2	5	1
CL28-82-910	1	23	11	46	.1	28	13	443	2.81	2	2	ND	3	33	1	2	2	39	.72	.09	10	60	1.00	80	.03	4	1.60	.01	.11	2	5	1
CL28-82-912	1	20	9	46	.1	34	14	391	3.16	2	2	ND	4	40	1	2	2	28	.76	.07	11	63	.98	35	.02	2	1.36	.01	.05	2	5	1
CL28-82-914	1	31	15	51	.1	33	17	492	3.28	9	2	ND	3	64	1	2	2	30	1.49	.08	8	55	1.00	45	.02	2	1.35	.01	.06	2	105	1
CL28-82-916	1	48	16	65	.1	32	19	437	3.71	2	2	ND	2	22	1	2	2	41	.68	.08	8	54	1.08	47	.04	2	1.54	.01	.04	2	5	1
CL28-82-918	2	96	31	94	.1	35	21	526	3.70	2	2	ND	2	24	1	2	2	43	.79	.09	9	60	1.14	57	.04	2	1.59	.01	.05	2	5	1
CL28-82-920	1	20	10	63	.1	34	17	508	3.79	4	2	ND	2	17	1	2	2	48	.36	.08	9	64	1.25	52	.04	2	1.76	.01	.06	2	5	1
CL28-82-922	1	20	9	40	.1	17	9	373	2.29	2	2	ND	8	19	1	2	2	23	.42	.06	17	36	.66	41	.02	3	.99	.01	.06	2	5	1
CL28-82-924	1	23	13	58	.1	34	20	551	3.72	2	2	ND	2	22	1	2	2	42	.53	.09	10	51	1.10	60	.03	2	1.69	.01	.05	2	5	1
CL28-82-926	1	12	3	60	.1	10	7	322	2.07	2	2	ND	4	27	1	2	2	37	.46	.10	16	31	.72	100	.12	9	1.31	.02	.29	2	5	1
CL28-82-928	1	8	4	50	.1	11	8	398	1.78	2	8	ND	4	19	1	2	2	24	.35	.06	14	27	.60	78	.05	2	1.22	.02	.08	2	5	2
CL28-82-930	2	5	7	35	.1	3	5	551	1.86	2	9	ND	5	24	1	2	2	40	.37	.02	10	21	.59	89	.08	2	1.54	.02	.17	2	5	1
CL28-82-932	1	2	3	21	.1	4	3	280	1.24	2	9	ND	13	15	1	2	2	14	.20	.04	47	12	.26	43	.05	2	.58	.02	.09	2	5	1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
CL28-82-1602	1	10	7	43	.1	10	6	329	1.54	2	2	ND	3	10	1	2	2	19	.17	.05	9	14	.32	55	.04	2	.79	.01	.13	2
CL28-82-1604	1	6	3	21	.1	5	3	141	.81	2	4	ND	4	7	1	2	2	10	.16	.05	13	6	.17	35	.03	2	.51	.01	.10	2
CL28-82-1606	1	7	5	31	.1	7	4	239	1.16	2	3	ND	4	12	1	2	2	17	.22	.05	11	12	.26	49	.04	2	.78	.01	.11	2
CL28-82-1608	1	6	2	28	.1	7	3	242	1.09	2	3	ND	3	19	1	2	2	15	.31	.06	11	12	.27	59	.04	2	.83	.01	.11	2
CL28-82-1610	1	8	5	34	.1	7	4	317	1.48	2	13	ND	6	18	1	2	2	22	.32	.06	23	9	.34	67	.04	2	1.01	.01	.12	2
CL28-82-1612	1	12	5	39	.1	12	6	387	1.93	2	6	ND	6	11	1	2	2	26	.22	.07	14	17	.50	69	.04	2	.94	.01	.13	2
CL28-82-1614	1	21	10	100	.1	26	10	473	3.00	2	4	ND	6	18	1	2	2	30	.27	.07	19	23	.70	91	.04	3	1.24	.01	.14	2
CL28-82-1616	1	14	7	42	.1	13	6	297	1.76	2	9	ND	5	18	1	2	2	20	.29	.08	20	18	.42	87	.04	2	.86	.01	.13	2
CL28-82-1618	1	10	5	38	.1	14	7	290	1.85	4	3	ND	4	21	1	2	2	30	.36	.09	11	25	.69	89	.07	2	1.15	.01	.20	2
CL28-82-1620	1	12	4	40	.1	14	7	272	1.87	4	4	ND	5	24	1	2	2	30	.53	.16	13	25	.65	68	.06	2	.99	.01	.21	2
CL-28-82-1622	1	16	7	37	.2	10	6	523	1.75	2	5	ND	4	36	1	2	2	33	.52	.08	19	23	.60	127	.06	2	1.26	.02	.19	3
CL28-82-1624	1	41	7	68	.2	31	12	448	3.28	6	3	ND	6	18	1	2	2	37	.44	.10	14	42	.82	88	.06	2	1.25	.02	.31	2
CL28-82-1626	1	13	6	35	.1	15	6	245	1.62	3	3	ND	4	10	1	2	2	17	.24	.09	16	16	.30	54	.02	2	.63	.01	.08	2
CL28-82-1628	1	19	12	66	.2	24	8	210	2.29	2	2	ND	5	32	1	2	2	25	.35	.08	24	25	.52	89	.05	2	1.16	.01	.18	2
CL28-82-1630	1	17	9	39	.2	21	11	281	2.34	13	2	ND	3	20	1	2	2	20	.49	.12	9	22	.54	28	.02	2	.81	.01	.04	2
CL28-82-1632	1	2	2	14	.1	5	3	166	.82	2	4	ND	7	12	1	2	2	13	.37	.14	22	5	.14	49	.02	2	.35	.01	.05	2
CL28-82-1634	1	39	6	72	.1	35	16	1240	3.73	2	7	ND	4	24	1	2	2	25	.24	.07	34	17	.48	126	.05	3	1.24	.01	.17	2
CL28-82-1636	1	22	6	65	.1	16	10	1112	2.72	2	2	ND	2	29	1	2	2	22	.34	.07	20	16	.42	121	.05	2	1.28	.01	.13	2
CL28-82-1638	1	15	5	54	.1	20	8	443	2.24	4	2	ND	4	25	1	2	2	31	.48	.09	16	27	.68	115	.08	4	1.34	.03	.23	2
CL28-82-1640	1	4	3	24	.1	7	3	175	.78	2	4	ND	2	12	1	2	2	13	.20	.06	9	10	.24	66	.04	2	.61	.01	.07	2
CL28-82-1642	1	5	4	27	.1	10	3	176	.90	2	4	ND	2	24	1	2	2	14	.33	.09	14	12	.23	107	.04	2	1.09	.01	.06	2
CL28-82-1644	1	11	2	31	.1	13	3	179	1.05	2	4	ND	2	30	1	2	2	15	.30	.06	16	12	.25	135	.05	2	.85	.01	.12	2
CL28-82-1646	1	12	4	32	.1	10	5	193	1.43	2	6	ND	3	26	1	2	2	14	.34	.06	17	11	.23	70	.05	2	.78	.02	.15	2
CL28-82-1648	1	15	4	42	.1	12	6	280	1.70	2	2	ND	2	24	1	2	2	19	.31	.05	12	14	.29	87	.06	2	.99	.02	.20	2
CL28-82-1650	1	3	2	23	.1	10	3	250	1.11	2	8	ND	24	21	1	2	2	21	.32	.11	52	13	.22	60	.04	2	.52	.01	.06	29
CL28-82-1652	1	13	6	37	.1	17	8	364	1.75	3	3	ND	3	29	1	2	2	26	.30	.09	16	22	.45	247	.10	2	1.10	.01	.24	2
CL28-82-1654	1	15	5	53	.1	16	6	299	1.76	2	2	ND	3	27	1	2	2	22	.33	.08	14	17	.35	134	.06	2	1.15	.01	.16	2
CL28-82-1656	1	12	4	40	.1	23	12	500	2.91	4	2	ND	2	22	1	2	2	24	.20	.05	12	13	.26	121	.07	3	1.54	.01	.13	2
CL28-82-1658	1	20	7	45	.1	22	9	232	2.16	5	2	ND	5	20	1	2	2	22	.42	.10	15	27	.58	58	.06	4	1.08	.02	.17	2
CL28-82-1660	1	20	11	62	.2	28	11	513	2.71	10	7	ND	5	29	1	2	2	25	.50	.12	20	35	.67	89	.03	4	1.18	.01	.12	2
CL28-82-1662	1	31	16	85	.1	40	18	1759	4.37	15	2	ND	5	20	1	2	2	41	.34	.09	11	48	1.04	134	.02	3	1.67	.01	.06	2
CL28-82-1664	2	52	27	97	.2	50	21	1464	4.55	16	3	ND	10	26	1	2	2	22	.49	.08	20	36	.94	96	.01	2	1.48	.01	.06	2
CL28-82-1666	1	28	14	74	.1	33	14	816	3.18	7	2	ND	4	26	1	2	2	27	.54	.14	14	35	.67	88	.02	2	1.10	.01	.05	2
CL28-82-1668	1	21	9	42	.1	24	12	392	2.51	9	2	ND	3	37	1	2	2	25	.95	.09	11	31	.66	74	.02	2	1.02	.01	.08	2
STD A-1	1	31	37	180	.4	35	12	978	2.84	12	2	ND	2	37	1	2	2	57	.69	.11	7	73	.79	286	.09	5	1.96	.02	.22	2

KIDD CREEK PROJECT # 28 FILE # 82-0781

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
CL28-82-1670	1	26	5	43	.2	10	6	348	2.14	4	3	ND	7	46	1	2	2	37	.50	.08	26	17	.62	130	.06	2	1.20	.02	.22	2
CL28-82-1672	1	9	3	46	.2	7	6	601	1.99	8	3	ND	10	35	1	2	2	35	.53	.11	29	15	.61	81	.09	2	1.23	.01	.30	2
CL28-82-1674	1	2	4	52	.1	2	2	458	1.17	2	14	ND	15	15	1	2	2	10	.23	.05	35	3	.17	53	.02	5	.84	.01	.10	2
CL28-82-1676	1	5	6	42	.1	4	3	473	1.58	2	9	ND	20	28	1	2	2	17	.64	.13	30	7	.34	34	.02	2	.87	.01	.10	2
CL28-82-1678	1	7	6	37	.1	7	4	433	1.53	2	10	ND	10	49	1	2	2	23	.53	.13	22	8	.40	80	.04	2	.91	.02	.13	2
CL28-82-1680	1	27	4	38	.1	4	4	491	1.68	2	6	ND	13	32	1	2	2	24	.56	.09	26	8	.41	42	.04	2	.92	.02	.12	2
CL28-82-1682	1	27	23	47	.2	27	14	275	2.52	22	2	ND	5	45	1	2	2	41	1.89	.22	12	49	.70	37	.07	4	.86	.01	.06	4
CL28-82-1684	1	24	10	41	.3	26	16	300	3.79	18	3	ND	23	35	1	2	3	42	.87	.26	24	48	.64	32	.02	4	.94	.01	.04	2
CL28-82-1686	1	12	4	52	.1	18	8	432	2.13	2	3	ND	4	41	1	2	2	35	.68	.15	11	32	.61	122	.12	2	1.38	.04	.25	2
CL28-82-1688	1	11	1	36	.1	13	6	253	1.74	2	2	ND	4	30	1	2	2	29	.45	.10	13	22	.47	141	.11	2	1.33	.03	.30	2
CL28-82-1690	1	6	1	17	.1	7	3	105	.91	2	2	ND	4	19	1	2	2	16	.44	.15	12	10	.26	83	.06	2	.52	.01	.19	2
CL28-82-1692	1	3	1	19	.1	3	2	133	.74	2	3	ND	5	9	1	2	2	14	.26	.07	13	6	.20	46	.04	2	.58	.01	.09	2
CL28-82-1694	1	3	1	16	.1	3	2	108	.65	2	4	ND	6	14	1	2	2	13	.26	.07	14	4	.17	45	.04	2	.54	.02	.10	2
CL28-82-1696	1	4	1	23	.1	4	3	122	.70	2	2	ND	5	13	1	2	2	12	.24	.06	14	5	.17	46	.04	3	.59	.02	.10	2
CL28-82-1698	1	11	4	27	.1	14	6	182	1.26	2	5	ND	5	24	1	2	2	19	.51	.16	16	18	.30	95	.06	5	.68	.02	.17	2
STD A-1	1	30	36	173	.3	33	12	935	2.73	10	2	ND	2	36	2	2	2	55	.66	.10	7	73	.76	276	.08	5	1.89	.02	.21	2

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppb.
SAMPLE TYPE - SILT

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
DH28-82-2	2	30	8	75	.3	23	8	457	2.45	11	2	ND	2	93	1	2	2	42	3.04	.07	9	32	.75	132	.08	5	.99	.02	.14	2
DH28-82-4	4	44	7	95	.5	37	13	722	3.27	28	4	ND	2	94	1	2	2	47	2.75	.07	8	36	.86	136	.08	4	.98	.02	.11	2
DH28-82-6	3	38	9	75	.3	26	12	562	3.70	16	2	ND	2	52	1	2	2	56	1.49	.07	9	49	.96	85	.12	4	1.16	.01	.08	2
DH28-82-8	1	27	7	48	.3	20	6	387	1.77	22	2	ND	2	356	1	2	2	25	14.56	.04	4	25	.66	113	.04	5	.74	.01	.10	2
DH28-82-10	1	23	7	80	.2	15	10	967	3.63	11	2	ND	2	24	1	2	2	40	.45	.06	9	24	.92	90	.10	4	1.37	.02	.10	2
DH28-82-12	2	36	8	88	.2	32	15	753	3.89	12	2	ND	2	38	1	2	2	69	.67	.07	10	61	1.08	115	.18	4	1.60	.02	.09	2

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppb.
SAMPLE TYPE - SILT

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
GH28-82-22	1	8	4	27	.1	8	3	259	1.24	2	4	ND	6	26	1	2	2	17	.27	.05	33	13	.26	103	.06	3	1.20	.01	.16	2
GH28-82-24	1	13	9	57	.3	10	7	429	2.86	2	9	ND	20	40	1	2	2	44	.80	.19	71	20	.79	117	.11	3	1.85	.02	.39	6
GH28-82-26	2	50	14	67	.3	66	21	603	3.82	3	2	ND	12	55	1	2	2	61	1.19	.18	36	84	1.22	226	.11	3	1.90	.04	.46	2
GH28-82-28	1	6	4	30	.1	11	4	149	1.34	2	10	ND	5	35	1	2	2	22	.42	.12	23	21	.34	116	.06	2	.91	.02	.10	2
GH28-82-30	1	5	4	35	.2	6	4	256	1.19	2	2	ND	6	28	1	2	2	22	.65	.23	26	12	.24	104	.04	2	.68	.01	.09	2
GH28-82-32	1	8	7	39	.2	9	5	301	1.55	3	12	ND	16	24	1	2	2	21	.64	.24	36	15	.24	89	.03	2	.51	.01	.10	5
GH28-82-34	1	12	7	36	.2	13	7	253	1.93	2	2	ND	9	25	1	2	2	33	.46	.14	29	25	.56	123	.09	3	1.12	.02	.28	2
GH28-82-36	1	11	5	31	.3	16	8	278	1.86	2	3	ND	8	49	1	2	2	36	1.16	.39	42	32	.63	120	.07	2	1.01	.02	.18	2
GH28-82-38	1	10	5	39	.1	17	8	582	2.09	2	2	ND	7	43	1	2	2	40	.97	.32	25	35	.73	131	.09	3	1.19	.02	.23	7
GH28-82-40	1	10	4	31	.1	7	6	340	1.70	2	3	ND	7	16	1	2	2	33	.32	.08	19	17	.50	114	.08	3	1.18	.01	.22	2
GH28-82-42	1	6	2	22	.1	7	3	143	1.16	2	2	ND	4	21	1	2	2	19	.32	.08	12	20	.39	56	.07	2	.79	.02	.17	2
GH28-82-44	1	10	5	32	.1	10	7	368	1.58	2	8	ND	5	24	1	2	2	26	.43	.09	16	22	.45	75	.07	2	1.00	.02	.16	2
GH28-82-46	1	7	7	51	.2	13	7	521	2.58	2	8	ND	14	49	1	2	2	39	.59	.13	56	18	.74	168	.08	3	1.78	.02	.20	2
GH28-82-48	1	10	5	36	.2	8	5	286	1.62	2	2	ND	9	19	1	2	2	28	.33	.07	25	17	.44	82	.08	2	1.05	.02	.26	2
GH28-82-50	1	7	4	22	.2	6	4	198	1.24	2	4	ND	11	14	1	2	2	21	.30	.08	27	15	.30	49	.05	2	.71	.01	.16	2
GH28-82-52	1	6	4	23	.1	5	4	237	1.10	2	2	ND	4	15	1	2	2	18	.28	.06	13	13	.30	66	.05	2	.85	.02	.14	2
GH28-82-54	1	11	5	38	.2	12	5	449	1.80	2	4	ND	6	36	1	2	2	28	.38	.07	22	19	.40	164	.09	3	1.74	.02	.21	2
GH28-82-56	1	10	6	29	.2	12	4	231	1.68	2	40	ND	7	25	1	2	2	28	.43	.07	28	22	.48	78	.10	2	1.19	.02	.30	2
GH28-82-58	1	22	3	32	.1	11	5	170	1.36	2	2	ND	5	24	1	2	2	20	.37	.09	13	20	.40	65	.07	2	.85	.02	.24	2
GH28-82-60	1	13	9	43	.1	31	10	686	2.58	4	2	ND	5	34	1	2	2	30	.74	.08	18	33	.56	108	.04	3	.68	.01	.05	2
GH28-82-62	2	41	22	72	.3	54	18	632	4.04	9	2	ND	3	37	1	2	2	58	.89	.11	15	65	1.13	141	.05	5	1.19	.01	.06	2
GH28-82-64	1	25	16	44	.3	31	12	361	2.62	2	2	ND	5	42	1	2	2	45	.68	.10	14	55	.82	107	.07	2	1.06	.02	.15	2
STD A-1	1	30	39	171	.5	33	12	946	2.70	9	2	ND	2	36	1	2	2	54	.62	.10	8	75	.75	281	.08	8	1.87	.02	.21	2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
GH28-82-66	2	48	23	65	.2	65	20	642	3.58	12	7	ND	3	75	1	2	2	46	2.38	.10	8	77	1.26	98	.03	2	1.11	.01	.07	2
GH28-82-68	1	58	16	51	.1	48	20	567	4.51	9	10	ND	2	77	1	2	2	80	3.47	.11	4	75	2.14	120	.07	2	1.27	.01	.12	2
GH28-82-70	1	22	8	32	.1	38	11	299	2.17	2	2	ND	3	34	1	2	2	41	.41	.07	9	78	.78	86	.06	2	.99	.01	.08	2
GH28-82-72	1	30	12	53	.1	40	12	677	2.67	3	2	ND	4	39	1	2	2	39	.40	.07	14	67	.87	105	.05	2	1.24	.01	.11	2
GH28-82-74	1	17	8	33	.1	16	7	322	1.67	2	5	ND	4	86	1	2	2	27	1.86	.08	10	24	.54	89	.06	2	.98	.04	.18	2
GH28-82-76	1	14	8	36	.1	15	7	346	2.07	2	2	ND	5	33	1	2	2	35	.41	.09	15	31	.60	95	.05	2	.93	.02	.10	2
GH28-82-78	1	21	24	58	.4	17	7	828	2.04	2	2	ND	3	66	1	2	2	32	.54	.06	15	30	.54	246	.07	2	1.31	.02	.14	2
GH28-82-80	2	14	9	63	.1	16	7	493	2.16	2	3	ND	3	61	1	2	2	34	.49	.09	27	31	.65	274	.07	2	1.24	.02	.18	2
GH28-82-82	1	25	13	64	.1	20	9	414	2.55	2	2	ND	5	52	1	2	2	31	.50	.13	20	29	.68	118	.05	2	1.19	.02	.14	2
GH28-82-84	1	18	16	61	.1	20	9	407	2.44	2	5	ND	4	45	1	2	2	31	.44	.10	23	28	.60	110	.05	2	1.19	.02	.14	2
GH28-82-86	1	11	11	50	.1	14	6	355	1.79	2	4	ND	4	27	1	2	2	25	.28	.08	15	23	.37	95	.04	2	.92	.01	.12	2
GH28-82-88	1	11	6	41	.1	13	6	278	1.76	2	3	ND	4	29	1	2	2	32	.36	.07	11	26	.60	101	.09	2	1.22	.02	.22	2
GH28-82-90	1	23	7	55	.2	27	25	1009	2.34	2	9	ND	2	39	1	2	3	34	.40	.05	17	19	.39	145	.07	2	2.77	.02	.17	2
GH28-82-92	1	6	2	18	.1	4	4	219	1.03	2	3	ND	4	12	1	2	2	19	.27	.05	10	10	.30	63	.05	2	.80	.02	.14	2
GH28-82-94	1	11	4	39	.1	9	7	498	1.72	2	5	ND	3	27	1	2	2	27	.31	.05	10	18	.44	119	.07	2	1.37	.02	.22	2
GH28-82-96	1	5	1	9	.1	3	2	86	.54	2	2	ND	3	7	1	2	2	8	.16	.05	9	7	.11	37	.02	2	.42	.01	.05	2
GH28-82-98	1	8	4	23	.1	8	6	413	1.16	2	3	ND	3	14	1	2	2	17	.13	.03	9	16	.27	71	.06	2	.87	.01	.15	2
GH28-82-100	1	5	3	12	.1	4	2	108	.70	2	5	ND	5	6	1	2	2	10	.13	.04	13	10	.14	43	.03	3	.50	.01	.08	2
GH28-82-102	1	11	5	24	.1	7	4	285	1.19	2	4	ND	3	13	1	2	2	17	.15	.04	11	14	.27	69	.05	2	.98	.01	.16	2
GH28-82-104	1	22	7	49	.1	20	12	402	2.63	2	3	ND	5	9	1	2	2	28	.08	.03	11	31	.59	131	.15	2	1.49	.01	.70	2
GH28-82-106	1	15	5	26	.1	9	6	238	1.60	2	6	ND	4	14	1	2	2	24	.13	.04	9	22	.41	84	.09	2	.95	.01	.37	2
GH28-82-108	1	11	3	20	.1	9	5	152	1.24	2	3	ND	10	22	1	2	2	22	.81	.32	26	16	.31	54	.04	2	.58	.01	.11	4
GH28-82-110	1	5	3	29	.1	6	4	221	1.32	2	2	ND	10	36	1	2	2	25	.85	.35	23	12	.29	115	.05	2	.77	.01	.11	7
GH28-82-112	1	9	13	56	.2	10	5	523	1.66	2	7	ND	4	55	1	2	2	26	.45	.11	28	22	.39	187	.04	2	1.14	.01	.14	2
GH28-82-114	1	5	5	34	.1	7	4	300	1.19	2	4	ND	4	28	1	2	2	22	.39	.14	18	13	.23	97	.04	2	.74	.01	.09	2
GH28-82-116	1	4	5	29	.1	6	4	372	1.18	2	4	ND	5	39	1	2	2	23	.45	.16	21	13	.24	117	.04	2	.81	.01	.09	5
GH28-82-118	1	4	7	27	.2	8	4	283	1.33	2	5	ND	3	66	1	2	2	29	.34	.10	21	16	.30	123	.06	2	1.11	.01	.09	2
GH28-82-120	1	5	6	21	.1	7	4	214	1.22	2	4	ND	3	22	1	2	2	21	.29	.12	17	13	.21	108	.04	2	.94	.01	.07	2
GH28-82-122	1	7	8	46	.1	16	7	734	1.94	2	6	ND	5	51	1	2	2	33	.44	.14	18	28	.47	205	.05	2	.98	.03	.13	2
GH28-82-124	1	6	6	46	.1	16	7	883	1.80	2	7	ND	3	44	1	2	2	31	.33	.10	17	27	.48	165	.06	2	1.19	.02	.12	2
GH28-82-126	1	9	4	31	.2	14	6	435	1.44	2	5	ND	2	42	1	2	2	23	.30	.08	14	21	.32	162	.06	2	1.03	.02	.11	2
GH28-82-128	1	22	9	46	.2	29	12	445	2.99	2	2	ND	4	72	1	2	2	47	.76	.14	19	39	.64	175	.08	2	1.46	.04	.16	3
GH28-82-130	1	25	12	60	.1	40	14	484	3.38	2	2	ND	4	78	1	2	2	52	.74	.17	22	55	.75	244	.08	2	1.49	.04	.22	2
GH28-82-132	1	21	11	56	.1	32	11	528	2.75	2	14	ND	3	76	1	2	2	44	.44	.09	16	45	.67	283	.10	2	1.71	.03	.18	2
GH28-82-134	1	18	10	42	.1	26	10	349	2.45	2	5	ND	4	58	1	2	2	40	.39	.11	20	38	.48	249	.08	2	1.29	.02	.16	2
GH28-82-136	1	16	7	37	.1	23	10	288	2.28	2	7	ND	4	44	1	2	2	39	.37	.11	18	32	.43	186	.07	2	.84	.02	.15	2
GH28-82-138	1	13	6	40	.1	17	8	354	2.19	2	4	ND	4	42	1	2	2	36	.48	.13	19	32	.48	128	.05	2	1.02	.02	.12	2
STD A-1	1	30	38	173	.3	33	12	945	2.73	7	2	ND	2	41	1	2	2	56	.60	.10	6	73	.74	301	.08	6	1.81	.02	.21	2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
GH28-82-140	1	22	7	41	.1	24	10	455	2.34	2	3	ND	2	61	1	2	2	42	.48	.08	13	40	.65	209	.10	2	1.43	.03	.20	2
GH28-82-142	1	19	10	47	.1	27	9	324	2.60	2	4	ND	4	57	1	2	2	50	.51	.12	15	46	.63	249	.10	2	1.28	.03	.24	2
GH28-82-144	1	18	9	42	.1	23	8	385	2.16	3	11	ND	3	60	1	2	2	34	.43	.07	13	32	.51	242	.09	2	1.53	.03	.21	2
GH28-82-146	1	19	11	54	.1	28	10	288	2.79	2	7	ND	5	40	1	2	2	42	.32	.09	18	41	.58	211	.11	2	1.24	.02	.32	2
GH28-82-148	1	16	8	33	.1	21	8	335	2.22	2	2	ND	4	30	1	2	2	34	.39	.12	15	30	.39	131	.07	2	.91	.02	.16	3
GH28-82-150	1	21	11	45	.2	27	10	340	2.45	3	2	ND	4	40	1	2	2	36	.38	.10	13	38	.59	181	.09	2	1.07	.03	.27	2
GH28-82-152	1	18	10	43	.1	20	9	249	2.56	2	6	ND	9	17	1	2	2	30	.19	.07	26	28	.40	107	.07	2	.89	.01	.22	2
GH28-82-154	1	23	12	48	.1	25	10	272	2.48	2	2	ND	4	22	1	2	2	28	.24	.07	14	26	.41	110	.06	2	.81	.01	.18	2
GH28-82-156	1	22	9	49	.1	29	11	384	2.33	2	2	ND	3	30	1	2	2	32	.32	.07	14	37	.54	137	.07	2	1.15	.02	.23	2
GH28-82-158	1	16	7	51	.1	18	8	356	1.95	2	2	ND	4	25	1	2	2	27	.26	.07	15	28	.38	120	.06	2	.89	.01	.14	2
GH28-82-160	1	15	5	36	.1	17	8	284	1.86	2	4	ND	5	27	1	2	2	29	.29	.07	13	29	.44	113	.06	2	.88	.02	.14	2
GH28-82-162	1	22	10	34	.2	25	12	337	2.39	2	2	ND	4	52	1	2	2	35	.71	.12	15	39	.55	107	.05	2	.83	.03	.11	2
GH28-82-164	1	26	10	44	.1	29	12	356	2.55	2	2	ND	3	48	1	2	2	43	.49	.10	13	51	.78	96	.05	2	1.23	.02	.11	2
GH28-82-166	1	40	13	54	.2	48	18	518	3.80	4	2	ND	2	40	1	2	2	76	.51	.09	11	95	1.33	133	.07	2	1.67	.02	.09	2
GH28-82-168	1	13	7	66	.1	14	10	1093	2.22	2	6	ND	4	34	1	2	2	37	.34	.09	20	24	.40	133	.06	2	1.40	.02	.11	2
GH28-82-170	1	8	6	38	.1	12	6	373	1.51	2	5	ND	4	23	1	2	2	23	.32	.09	15	19	.28	83	.04	2	.75	.01	.09	2
GH28-82-172	1	10	7	43	.1	12	6	426	1.75	2	6	ND	2	35	1	2	2	29	.33	.06	16	21	.32	121	.06	2	1.34	.01	.12	2
GH28-82-174	1	11	9	68	.1	31	12	1233	2.48	2	5	ND	2	62	1	2	2	44	.38	.10	17	41	.77	318	.09	2	1.67	.02	.23	2
GH28-82-176	1	18	8	37	.1	19	10	351	2.26	2	3	ND	8	42	1	2	2	34	.51	.12	16	28	.48	157	.04	2	.90	.02	.13	2
GH28-82-178	1	10	5	32	.1	9	6	263	1.61	2	3	ND	3	43	1	2	2	28	.35	.08	12	20	.37	107	.05	2	.79	.02	.12	2
GH28-82-180	1	7	5	29	.1	10	4	243	1.36	2	4	ND	3	48	1	2	2	24	.32	.06	14	19	.35	117	.05	2	.93	.02	.09	2
GH28-82-182	1	17	11	61	.1	29	11	566	3.01	2	2	ND	4	67	1	2	2	50	.55	.14	17	47	.94	224	.09	2	1.70	.04	.28	2
GH28-82-184	1	19	12	58	.1	27	11	442	2.82	2	4	ND	5	77	1	2	2	42	.68	.12	18	39	.79	175	.07	2	1.74	.04	.23	2
GH28-82-186	1	32	11	34	.1	29	14	395	2.99	2	2	ND	2	58	1	2	2	59	1.05	.09	8	55	1.00	98	.08	2	1.09	.02	.10	2
GH28-82-188	1	36	14	42	.3	32	13	1124	3.13	7	7	ND	3	148	1	2	2	46	6.06	.09	10	52	.90	166	.05	2	1.13	.01	.08	2
GH28-82-190	1	47	13	61	.2	36	17	538	3.69	3	2	ND	2	63	1	2	2	66	1.45	.10	10	59	1.34	147	.09	2	1.43	.01	.14	2
GH28-82-192	1	22	17	43	.2	24	9	357	2.02	5	7	ND	2	91	1	2	2	33	5.79	.10	7	40	3.41	82	.04	2	.84	.01	.06	2
GH28-82-194	1	18	20	52	.2	27	10	404	2.63	2	2	ND	2	106	1	2	2	47	.65	.05	9	46	.78	234	.06	2	.94	.01	.07	2
GH28-82-196	1	34	12	57	.2	53	18	377	4.41	3	4	ND	30	44	1	2	4	85	.62	.10	22	96	1.11	82	.06	2	1.45	.02	.07	2
GH28-82-198	1	50	31	126	.1	62	19	462	3.99	2	2	ND	5	59	1	2	2	71	.69	.08	14	98	1.12	156	.10	2	1.97	.04	.16	2
GH28-82-200	1	32	17	83	.2	47	14	373	3.53	3	4	ND	4	43	1	2	2	63	.56	.08	12	97	.85	126	.09	2	1.50	.03	.12	2
GH28-82-202	1	26	8	45	.1	34	13	380	2.84	2	2	ND	4	47	1	2	2	45	.57	.10	14	56	.85	129	.06	2	1.14	.02	.13	2
STD A-1	1	30	39	167	.3	32	11	911	2.61	8	2	ND	2	40	1	2	2	54	.58	.09	6	70	.73	291	.08	7	1.82	.02	.20	2
GH28-82-206	1	67	41	139	.4	32	14	401	3.54	24	3	ND	7	20	1	2	2	23	.29	.07	15	20	.50	74	.03	2	.91	.01	.07	2

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
SAMPLE TYPE - SILT

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
MC28-82 8	1	19	20	73	.1	31	14	498	3.69	5	2	ND	12	29	1	4	2	23	.65	.08	31	31	.76	83	.02	9	1.63	.02	.11	2
MC28-82 10	1	14	20	58	.2	26	11	553	2.68	8	4	ND	7	22	1	5	2	13	1.02	.07	19	19	.69	94	.02	7	1.05	.01	.07	2
MC28-82 12	1	18	22	70	.1	39	15	599	3.97	8	2	ND	9	45	1	3	2	11	1.66	.05	25	30	.72	56	.01	9	1.64	.01	.06	2
MC28-82 14	1	8	15	35	.1	12	6	388	1.96	3	2	ND	6	15	1	3	2	15	.25	.04	17	17	.30	105	.04	6	.80	.01	.13	2
MC28-82 16	1	13	23	53	.2	18	8	727	2.26	13	14	ND	4	39	1	2	2	21	.59	.07	16	29	.46	143	.08	8	1.46	.01	.32	2
MC28-82 18	1	10	27	59	.2	12	5	774	1.51	3	26	ND	3	48	1	2	2	15	.56	.07	14	22	.36	127	.06	5	1.14	.01	.19	2
MC28-82 20	1	20	84	76	.2	17	7	238	1.67	4	4	ND	6	152	1	2	2	27	3.94	.07	10	18	1.05	87	.03	4	1.04	.03	.11	2
MC28-82 24	1	17	40	299	.2	15	9	355	1.66	2	2	ND	3	24	1	2	2	23	1.51	.06	11	16	.99	66	.03	4	.85	.01	.13	2
MC28-82 22	1	9	25	64	.2	16	6	388	1.64	2	2	ND	6	14	1	3	2	18	.32	.07	17	19	.46	91	.05	5	1.02	.01	.13	2
MC28-82 26	1	15	85	55	.2	17	7	236	2.38	6	2	ND	5	50	1	2	2	35	3.85	.07	12	17	1.75	71	.03	10	.79	.02	.09	2
MC28-82 28	1	13	14	41	.1	13	7	468	2.28	3	4	ND	4	24	1	3	2	35	.26	.06	16	20	.56	131	.07	6	1.45	.01	.17	2
MC28-82 30	1	14	6	31	.1	15	13	199	3.53	2	2	ND	5	31	1	4	2	103	.44	.13	20	30	.44	111	.07	8	.90	.02	.11	2
MC28-82 32	1	12	10	45	.2	14	11	267	2.91	4	2	ND	5	45	1	3	2	80	.74	.18	24	22	.63	153	.10	7	1.33	.02	.13	2
MC28-82 34	1	12	7	32	.1	14	10	229	2.86	2	2	ND	12	48	1	3	2	79	.92	.30	32	15	.66	226	.13	8	.96	.02	.23	2
MC28-82 36	1	11	8	35	.1	12	8	251	2.77	2	5	ND	7	59	1	3	2	75	.99	.33	36	16	.79	372	.16	9	1.35	.02	.35	2
MC28-82 38	1	17	13	71	.1	17	12	536	3.67	3	5	ND	13	45	1	4	2	102	.74	.25	31	18	.98	389	.22	9	1.78	.01	.38	2
MC28-82 40	1	19	18	67	.1	18	11	441	3.20	5	9	ND	14	61	1	2	2	89	.99	.23	30	16	.93	314	.18	11	1.57	.02	.34	2
MC28-82 42	1	18	19	196	.2	18	9	649	2.62	2	9	ND	7	68	2	2	2	71	.96	.13	24	21	.69	249	.16	7	1.67	.01	.19	2
MC28-82 44	1	13	8	36	.1	14	11	222	2.63	2	2	ND	7	33	1	3	2	71	.52	.16	22	20	.47	124	.08	7	.98	.02	.12	2
MC28-82 46	1	15	26	72	.3	13	8	888	2.30	2	27	ND	3	40	1	2	2	40	.96	.07	28	18	.36	113	.08	7	2.02	.01	.11	2
MC28-82 50	1	11	22	172	.3	14	6	223	2.17	2	4	ND	32	22	1	4	2	50	.99	.12	32	19	.92	102	.06	9	.89	.01	.08	2
MC28-82 52	1	9	9	39	.1	11	5	212	1.34	2	12	ND	7	31	1	2	2	29	.41	.12	23	15	.38	139	.06	3	.81	.01	.10	2
MC28-82 56	1	8	10	83	.1	12	5	239	1.84	2	11	ND	19	15	1	3	2	48	.36	.09	28	13	.42	76	.05	5	.75	.01	.06	2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
MC28-82-54	1	9	19	73	.2	13	5	369	1.90	2	7	ND	19	24	1	2	2	33	.32	.06	22	23	.44	181	.07	3	1.32	.01	.12	2
MC28-82-58	1	12	8	25	.1	12	11	194	1.92	2	3	ND	6	21	1	2	2	44	.43	.17	18	20	.39	130	.06	2	1.00	.01	.09	2
MC28-82-60	1	22	33	88	.5	25	9	640	2.51	13	12	ND	26	50	1	2	2	35	.52	.07	28	34	.49	544	.05	2	1.73	.01	.14	2
MC28-82-62	1	18	12	50	.1	16	13	319	2.55	2	2	ND	7	47	1	2	2	61	.71	.24	18	19	.68	169	.08	2	1.43	.01	.07	2
MC28-82-64	1	5	8	22	.1	5	3	144	1.15	2	3	ND	12	16	1	2	2	22	.27	.10	20	7	.21	89	.03	2	.67	.01	.04	2
MC28-82-66	1	8	39	111	.4	18	4	942	1.55	8	7	ND	2	119	3	2	2	20	.63	.10	18	31	.39	101	.04	2	1.17	.01	.08	2
MC28-82-68	1	7	15	33	.2	6	3	351	1.14	3	7	ND	19	26	1	2	2	17	.25	.06	27	12	.20	234	.02	2	.75	.01	.03	2
MC28-82-70	1	11	6	30	.1	11	12	138	2.03	2	2	ND	23	22	1	2	2	50	.58	.20	27	12	.33	86	.05	4	.61	.01	.06	2
MC28-82-72	4	24	33	162	.2	40	11	677	2.54	15	4	ND	2	67	2	2	2	34	.71	.17	16	35	.91	162	.06	2	1.37	.01	.17	2
MC28-82-76	1	10	19	73	.2	13	7	372	2.38	5	4	ND	5	37	1	2	2	38	.56	.17	17	22	.74	98	.08	2	1.48	.01	.29	2
MC28-82-78	1	10	41	154	.5	12	6	422	2.04	21	12	ND	4	56	3	2	2	32	.68	.15	16	24	.53	84	.06	4	1.29	.01	.18	2
MC28-82-80	1	19	49	201	.7	22	8	816	2.96	12	4	ND	3	57	4	2	3	50	.69	.13	25	34	.86	121	.12	6	2.16	.01	.31	2
MC28-82-82	3	39	791	1102	3.5	37	15	475	4.18	59	2	ND	4	30	19	4	6	46	.50	.13	13	31	.84	71	.07	8	1.38	.01	.22	21
MC28-82-84A	1	11	19	71	.2	22	7	261	3.19	2	3	ND	24	33	1	2	3	108	.55	.16	35	21	.45	137	.08	6	1.01	.01	.12	2
MC28-82-84B	1	21	35	175	.3	29	10	662	2.58	18	4	ND	3	58	2	2	4	32	.71	.14	25	30	.60	126	.04	25	1.27	.01	.17	5
MC28-82-84C	1	20	19	129	.3	56	12	641	3.30	8	2	ND	2	88	3	2	3	63	1.02	.18	25	87	1.61	276	.17	31	2.20	.02	.50	2
MC28-82-84D	1	24	18	128	.2	26	9	329	2.21	4	3	ND	4	38	2	2	3	47	.83	.18	16	23	.68	138	.06	4	1.09	.02	.20	2
MC28-82-86	2	47	44	193	.4	34	16	546	3.43	27	2	ND	2	29	3	2	4	55	.46	.11	11	54	1.02	74	.06	31	1.40	.01	.12	6
MC28-82-88	1	19	55	130	.4	21	8	270	2.03	12	3	ND	4	36	1	2	3	40	.65	.18	17	22	.58	102	.06	6	.89	.01	.19	3
MC28-82-90	1	12	12	53	.2	16	5	247	1.79	2	3	ND	3	26	1	2	2	35	.54	.14	18	33	.55	131	.13	6	1.38	.03	.31	2
MC28-82-92	1	45	26	92	.2	45	10	590	3.88	2	6	ND	2	34	1	2	4	55	.65	.07	22	47	.99	240	.28	12	2.61	.02	.92	2
MC28-82-94	1	10	9	31	.1	15	5	184	1.71	2	30	ND	44	21	1	2	3	34	.59	.14	61	24	.43	84	.11	8	1.00	.03	.22	34
MC28-82-96	1	15	12	47	.1	15	6	142	1.78	2	2	ND	3	22	1	3	2	35	.34	.06	12	43	.69	162	.16	7	1.28	.02	.44	2
MC28-82-98	1	12	13	44	.2	13	5	183	2.16	3	2	ND	4	29	1	2	2	38	.45	.09	13	42	.74	163	.18	13	1.40	.03	.48	2
MC28-82-100	1	5	4	28	.1	6	3	149	1.53	2	2	ND	5	15	1	2	2	28	.64	.28	21	12	.35	117	.10	26	.70	.03	.27	2

KIDD CREEK MINES FILE # 82-0488 PAGE # 4

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
MC28-82-112	2	4	6	25	.1	4	3	251	1.57	2	11	ND	24	11	1	2	2	32	.45	.16	49	15	.29	37	.05	4	.55	.01	.09	3
MC28-82-114	1	5	9	27	.1	6	5	277	2.14	3	4	ND	14	12	1	2	2	42	.36	.13	43	19	.45	56	.06	2	.88	.01	.13	2
MC28-82-116	1	10	8	21	.1	6	5	145	1.27	3	2	ND	7	5	1	2	2	18	.18	.06	22	12	.35	46	.04	2	.62	.01	.12	2
STD A-1	1	30	40	174	.3	34	12	947	2.71	11	2	ND	2	31	2	2	2	56	.64	.10	8	76	.77	288	.09	5	1.99	.02	.18	2
MC28-82-118	1	4	6	17	.1	3	3	122	1.60	2	6	ND	25	8	1	2	2	32	.54	.20	66	15	.20	29	.03	6	.47	.01	.06	2
MC28-82-120	8	19	8	20	.1	1	1	126	.62	3	15	ND	9	6	1	2	3	7	.14	.04	23	3	.08	21	.02	4	.45	.01	.04	22
MC28-82-122	6	12	13	45	.2	3	3	435	1.57	3	42	ND	14	19	1	2	11	26	.32	.07	37	12	.22	46	.04	5	.91	.01	.09	21
MC28-82-124	2	8	14	41	.1	5	4	323	2.03	2	23	ND	29	34	1	2	3	37	.68	.17	53	17	.38	55	.06	3	.85	.01	.12	28
MC28-82-126	1	4	7	30	.1	4	3	293	1.34	3	9	ND	36	22	1	2	2	28	.47	.15	43	14	.29	43	.06	2	.67	.01	.11	8
MC28-82-128	1	4	9	33	.1	6	5	257	2.63	2	15	ND	62	30	1	2	2	56	1.31	.49	106	30	.42	50	.07	3	.95	.01	.08	2
MC28-82-130	1	3	9	21	.1	3	3	192	1.17	2	8	ND	16	11	1	2	2	21	.30	.10	27	11	.36	54	.04	3	.73	.01	.07	2
MC28-82-132	1	5	6	18	.1	3	2	146	1.19	2	7	ND	35	11	1	2	2	22	.37	.14	38	12	.19	39	.04	3	.67	.01	.08	6
MC28-82-134	1	5	5	16	.1	3	3	136	2.71	2	22	ND	129	12	1	2	2	59	.89	.36	81	32	.15	29	.04	8	.48	.01	.05	9
MC28-82-136	1	2	5	17	.1	3	3	151	1.67	2	4	ND	42	16	1	2	2	38	.93	.36	82	20	.20	37	.05	4	.56	.01	.05	4
MC28-82-138	1	3	6	23	.3	4	3	225	2.10	5	3	ND	13	16	1	2	4	48	.61	.23	53	18	.26	57	.06	6	.81	.01	.09	2
MC28-82-140	1	8	18	71	.1	6	5	582	1.48	3	7	ND	6	12	1	2	2	28	.59	.10	27	21	.50	258	.05	5	1.24	.01	.11	2
MC28-82-142	1	11	43	86	.2	10	6	798	1.46	6	6	ND	4	7	1	4	2	20	.47	.04	18	24	.77	83	.07	3	1.54	.02	.17	2
MC28-82-144	1	4	7	25	.1	4	3	209	1.42	2	7	ND	29	12	1	2	2	30	.45	.15	37	13	.32	57	.06	2	.71	.01	.11	2
MC28-82-146	1	20	18	54	.1	12	7	1268	1.60	10	6	ND	2	27	1	5	3	11	.68	.08	24	10	.30	175	.01	4	1.18	.01	.07	2
MC28-82-148	1	24	19	56	.1	16	10	628	2.45	12	2	ND	4	16	1	6	2	32	.34	.06	24	13	.56	94	.02	2	1.40	.01	.06	2
MC28-82-150	1	4	26	122	.1	7	6	372	2.25	3	9	ND	16	9	1	3	2	46	.41	.12	68	20	.70	91	.09	5	.84	.01	.17	3
MC28-82-152	2	3	6	20	.1	3	3	268	1.51	2	17	ND	30	7	1	2	2	28	.23	.07	33	14	.24	29	.04	3	.38	.01	.08	3

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
MC28-82-202	1	3	9	28	.2	3	3	200	1.39	6	25	ND	46	23	1	2	23	25	1.06	.44	74	14	.25	35	.04	3	.59	.01	.11	20
MC28-82-204	1	2	4	15	.1	1	2	123	.92	2	16	ND	24	27	1	2	2	19	1.22	.51	98	8	.19	29	.03	2	.39	.01	.11	11
MC28-82-206	1	4	7	26	.1	4	4	241	2.64	4	24	ND	74	29	1	2	30	46	1.33	.55	116	26	.31	44	.05	4	.63	.01	.20	24
MC28-82-208	1	3	6	23	.1	3	3	156	1.04	3	16	ND	19	34	1	2	2	21	1.56	.66	81	9	.32	49	.04	3	.60	.01	.18	10
MC28-82-210	1	11	9	48	.2	6	7	393	2.40	5	16	ND	43	49	1	2	2	45	1.41	.53	75	19	.77	121	.08	2	1.20	.01	.43	11
MC28-82-212	2	5	8	28	.1	4	5	156	2.36	2	10	ND	30	32	1	2	7	43	.99	.41	101	20	.30	42	.06	7	.69	.01	.14	29
MC28-82-214	1	11	7	45	.1	9	6	249	2.10	4	9	ND	6	17	1	2	12	18	.43	.16	29	12	.44	51	.04	2	.68	.01	.21	23
MC28-82-216	4	24	8	84	.2	5	7	447	2.04	10	15	ND	16	52	1	2	18	38	1.38	.54	77	9	.65	101	.06	4	1.02	.01	.35	63
MC28-82-218	1	74	22	57	.2	18	10	270	2.45	24	2	ND	5	15	1	2	2	33	.35	.04	27	25	.55	84	.08	3	1.67	.01	.23	2
MC28-82-220	1	63	29	85	.3	14	11	377	1.88	9	3	ND	2	19	1	2	2	26	.44	.05	78	15	.44	58	.05	4	1.24	.01	.16	2
MC28-82-222	1	17	17	56	.1	11	8	326	2.00	18	2	ND	5	5	1	2	2	17	.19	.04	19	10	.54	71	.03	2	.85	.01	.09	2
MC28-82-224	1	38	20	70	.1	13	9	326	2.22	31	3	ND	4	14	1	2	2	24	.31	.04	34	16	.46	63	.08	2	1.24	.01	.25	2
MC28-82-226	1	27	25	84	.3	16	8	393	2.06	25	6	ND	2	22	1	2	2	17	.41	.05	44	14	.34	71	.07	2	1.50	.01	.23	2
MC28-82-228	1	15	15	49	.1	8	6	220	1.82	23	2	ND	5	7	1	2	2	15	.12	.02	18	9	.35	40	.07	2	.80	.01	.22	2
MC28-82-230	1	19	16	50	.1	10	7	276	1.95	13	2	ND	6	5	1	2	2	17	.22	.03	19	10	.52	65	.05	3	.83	.01	.13	2
MC28-82-232	1	37	18	64	.1	17	11	381	3.13	13	4	ND	8	12	1	2	2	39	.26	.05	25	19	.72	57	.08	2	1.39	.01	.21	2
MC28-82-234	1	8	9	30	.1	8	4	353	1.11	5	7	ND	2	10	1	2	2	7	.18	.05	18	8	.59	108	.01	2	.95	.01	.04	2
MC28-82-236	3	17	9	25	.2	8	5	501	1.36	4	22	ND	2	21	1	2	2	10	.35	.07	13	14	.59	189	.02	2	1.59	.01	.12	2
STD A-1	1	30	43	171	.3	33	12	963	2.75	12	2	ND	2	33	2	2	2	54	.63	.10	8	72	.73	256	.08	6	1.88	.02	.20	2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
MC28-82-238	1	11	9	37	.1	8	4	420	1.22	5	9	ND	2	12	1	2	2	10	.36	.06	17	9	.66	133	.04	2	1.45	.01	.10	2
MC28-82-240	1	7	13	30	.2	8	4	242	1.25	5	5	ND	5	8	1	2	4	10	.29	.05	19	10	1.54	100	.03	2	1.35	.01	.11	2
MC28-82-242	1	5	7	26	.1	7	4	186	.95	3	6	ND	2	6	1	2	2	6	.16	.04	21	7	.65	80	.01	2	.92	.01	.06	2
MC28-82-244	1	15	14	22	.1	10	14	172	3.04	11	2	ND	8	15	1	2	15	20	.36	.09	24	8	.74	55	.03	6	.75	.01	.11	2
MC28-82-246	1	12	14	33	.2	9	4	350	1.50	7	2	ND	5	9	1	2	3	10	.39	.05	22	9	1.19	78	.03	4	1.38	.01	.13	2
MC28-82-248	1	9	14	28	.3	8	5	393	1.50	13	2	ND	4	28	1	2	2	6	5.52	.04	14	8	1.56	32	.02	3	1.18	.01	.15	2
MC28-82-250	1	10	11	41	.1	13	7	307	1.65	3	7	ND	4	11	1	2	2	10	.25	.04	22	12	.77	63	.02	4	1.23	.01	.08	2
MC28-82-252	2	22	16	65	.1	31	16	403	3.08	9	2	ND	7	11	1	2	3	16	.19	.05	35	28	.61	37	.02	4	1.86	.01	.06	2
MC28-82-254	1	33	26	86	.2	22	13	1893	2.77	16	2	ND	6	25	1	2	2	25	.52	.06	34	19	.52	98	.07	4	2.06	.02	.11	2
MC28-82-256	1	21	19	76	.1	13	8	245	2.14	21	3	ND	5	10	1	2	2	24	.21	.04	19	12	.39	52	.08	4	1.28	.01	.16	2
MC28-82-258	1	16	16	36	.1	9	7	633	1.71	13	7	ND	3	11	1	2	2	23	.50	.07	17	12	1.00	81	.05	3	1.43	.01	.10	2
MC28-82-260	1	21	11	49	.1	13	8	266	2.81	10	2	ND	6	11	1	2	2	29	.34	.06	16	15	.63	56	.13	2	1.28	.02	.35	2
MC28-82-262	1	32	109	199	.2	16	10	411	2.54	67	2	ND	4	13	2	2	2	31	.59	.08	13	8	.44	32	.10	4	.93	.03	.21	2
MC28-82-264	1	13	23	48	.1	7	7	265	2.32	15	2	ND	5	9	1	2	2	30	.33	.06	18	9	.47	41	.11	2	1.07	.02	.27	2
MC28-82-266	1	16	11	27	.1	9	6	189	2.04	8	2	ND	7	9	1	2	2	23	.40	.09	25	9	.38	44	.07	10	.81	.02	.12	2
MC28-82-268	1	12	10	31	.2	9	6	203	1.75	10	2	ND	5	10	1	2	2	19	.36	.07	21	10	.49	52	.06	2	.90	.02	.14	2
MC28-82-270	1	13	17	40	.2	10	6	433	1.67	6	2	ND	5	11	1	2	2	16	.68	.05	20	13	1.44	109	.06	3	1.70	.03	.24	2
MC28-82-272	1	6	11	28	.1	8	5	209	1.21	3	2	ND	5	10	1	2	2	11	.32	.06	25	7	.87	64	.04	2	1.05	.02	.15	2
MC28-82-274	2	8	15	47	.1	7	5	368	1.19	5	2	ND	5	22	1	2	3	13	.39	.04	18	10	.70	91	.07	3	1.25	.02	.25	2
MC28-82-276	1	12	10	30	.1	7	6	219	1.99	13	2	ND	4	7	1	2	2	23	.35	.06	15	8	.35	35	.08	3	.96	.02	.19	2
MC28-82-278	1	16	11	55	.1	10	6	199	1.94	23	2	ND	4	9	1	2	2	19	.20	.03	18	18	.39	39	.07	2	1.13	.01	.20	2
MC28-82-280	1	8	12	26	.1	7	4	209	1.14	3	2	ND	8	13	1	2	2	12	.34	.07	27	7	.72	71	.04	3	1.01	.02	.15	2
MC28-82-282	1	15	22	52	.2	11	6	300	1.70	10	20	ND	5	18	1	2	3	23	.42	.07	21	17	.92	107	.06	5	1.99	.03	.25	2
MC28-82-284	1	22	24	57	.2	16	8	315	2.18	11	6	ND	6	11	1	2	3	23	.47	.04	23	25	.97	96	.08	4	1.61	.01	.20	2
MC28-82-286	1	26	20	52	.1	11	7	277	2.30	16	3	ND	4	9	1	2	2	34	.32	.02	22	14	.56	57	.11	3	1.26	.01	.16	2
MC28-82-288	1	33	33	76	.2	17	11	462	2.38	93	3	ND	2	21	1	2	3	37	.52	.05	31	28	.69	68	.08	5	1.59	.02	.13	2
MC28-82-290	1	45	27	67	.1	17	12	345	2.93	14	3	ND	6	12	1	2	3	37	.36	.05	30	17	.71	64	.10	3	1.45	.01	.22	2
MC28-82-292	1	25	15	48	.1	12	7	231	2.00	28	2	ND	5	8	1	2	3	26	.27	.03	24	14	.46	49	.09	3	1.09	.01	.19	2
MC28-82-294	1	23	21	74	.2	16	10	308	3.20	24	5	ND	8	13	1	2	4	22	.23	.04	40	16	.60	39	.08	4	1.26	.01	.17	2
MC28-82-296	1	18	21	71	.1	12	9	263	2.45	27	2	ND	7	9	1	2	3	20	.20	.03	38	13	.55	32	.08	3	1.15	.01	.13	2
MC28-82-298	1	23	14	39	.2	11	8	215	2.39	17	3	ND	5	10	1	2	2	34	.38	.04	19	16	.50	31	.09	4	.98	.02	.16	2
STD A-1	1	29	41	171	.4	33	12	954	2.74	10	2	ND	2	33	2	2	3	54	.63	.10	8	70	.73	252	.08	6	1.87	.02	.20	2
MC28-82-300	1	4	5	25	.1	6	3	132	.80	2	3	ND	4	9	1	2	2	9	.34	.10	8	8	.19	39	.04	2	.49	.01	.08	4
MC28-82-302	1	13	12	46	.1	14	6	264	1.67	3	4	ND	7	12	1	2	2	18	.26	.09	13	19	.37	71	.06	2	.87	.01	.18	2
MC28-82-304	8	6	16	52	.1	6	3	430	1.16	2	54	ND	14	14	1	2	2	12	.23	.05	23	12	.21	102	.03	2	.72	.01	.12	2
MC28-82-306	4	8	16	51	.1	12	6	529	2.53	2	30	ND	23	43	1	2	2	26	.42	.11	43	16	.40	98	.06	7	1.03	.02	.16	8
MC28-82-308	2	9	12	67	.1	16	8	392	1.92	2	9	ND	8	26	1	2	2	17	.50	.13	22	20	.59	70	.07	2	1.25	.02	.21	2
MC28-82-310	2	15	10	39	.1	14	9	423	2.15	6	8	ND	8	17	1	2	2	19	.29	.08	21	18	.48	86	.08	2	1.10	.02	.35	2
MC28-82-312	1	15	10	51	.1	18	10	348	2.46	3	8	ND	6	27	1	2	7	27	.56	.15	17	27	.81	94	.11	2	1.47	.02	.38	2
MC28-82-314	1	18	8	40	.1	17	9	286	2.22	2	2	ND	5	24	1	2	2	26	.71	.16	14	28	.76	92	.10	2	1.31	.03	.37	3
MC28-82-316	1	18	6	33	.1	14	7	226	1.91	2	3	ND	5	20	1	2	2	23	.68	.15	11	22	.65	75	.08	2	1.00	.02	.29	3
MC28-82-320	1	27	7	35	.1	14	7	315	2.14	2	2	ND	4	22	1	2	2	32	.69	.17	7	25	.63	108	.11	2	1.09	.04	.40	2
MC28-82-322	1	25	5	29	.1	14	7	183	1.79	2	2	ND	3	23	1	2	2	30	1.20	.27	7	18	.52	86	.06	2	.69	.03	.18	2
MC28-82-324	1	14	7	38	.1	20	5	207	1.02	2	2	ND	2	15	1	2	2	16	.55	.06	5	29	.32	58	.05	3	.61	.02	.13	2
MC28-82-326	1	29	11	49	.1	30	10	285	2.22	4	2	ND	3	25	1	2	3	36	1.20	.28	8	34	.75	112	.08	4	.92	.03	.22	3
MC28-82-328	1	10	5	19	.1	12	4	101	.83	2	2	ND	3	9	1	2	7	15	.36	.08	7	22	.35	62	.05	2	.61	.01	.09	4
MC28-82-330	1	27	14	41	.1	27	8	349	1.87	3	2	ND	5	14	1	2	2	30	.40	.07	12	48	.77	168	.10	2	1.34	.02	.39	2
MC28-82-332	1	33	9	47	.1	36	15	436	2.70	19	3	ND	12	5	1	2	2	7	.09	.06	32	15	.46	13	.01	2	.83	.01	.02	2
STD A-1	1	30	43	187	.2	36	13	1051	2.88	10	2	ND	2	38	2	2	2	59	.70	.11	7	76	.79	308	.09	5	1.98	.02	.20	2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
MC28-82-334	1	28	10	34	.1	25	11	286	2.25	32	2	ND	8	5	1	2	2	7	.11	.05	13	12	.35	31	.01	2	.65	.01	.04	2
MC28-82-336	7	9	16	78	.1	11	7	490	1.03	2	5	ND	2	14	1	2	9	9	.27	.08	14	8	.20	91	.03	2	.69	.01	.07	2
MC28-82-338	1	19	28	49	.1	13	10	347	1.85	19	2	ND	5	12	1	2	2	6	.68	.04	8	5	.51	58	.01	2	.36	.01	.04	2
MC28-82-340	1	21	22	59	.1	13	9	325	1.82	11	3	ND	6	6	1	2	2	7	.23	.04	14	6	.39	109	.02	2	.60	.01	.05	2
MC28-82-342	1	19	22	52	.1	12	9	401	1.64	11	2	ND	6	5	1	2	2	6	.27	.04	11	5	.33	85	.01	2	.46	.01	.04	2
MC28-82-344	1	30	21	56	.1	27	18	267	3.66	27	2	ND	7	9	1	2	15	13	.27	.04	11	9	.33	35	.02	2	.49	.01	.04	5
MC28-82-346	1	31	78	65	.1	32	14	523	2.73	11	2	ND	6	7	1	2	2	10	.16	.06	13	21	.48	85	.01	2	.94	.01	.04	2
MC28-82-348	1	22	33	91	.1	19	11	429	1.99	17	2	ND	5	11	1	2	2	5	.89	.04	5	5	.68	173	.01	2	.41	.01	.04	2
MC28-82-350	1	32	25	75	.1	32	16	577	2.91	16	2	ND	5	11	1	2	2	5	.58	.05	6	8	.48	100	.01	2	.49	.01	.02	2
MC28-82-352	1	30	29	57	.1	37	15	436	3.26	13	2	ND	6	12	1	2	2	6	.21	.06	11	9	.25	19	.01	2	.52	.01	.03	2
MC28-82-354	1	36	18	54	.1	31	15	406	2.73	24	2	ND	6	9	1	2	2	5	.36	.06	8	10	.40	71	.01	2	.51	.01	.02	2
MC28-82-356	1	39	27	57	.2	37	28	263	4.31	44	2	ND	9	17	1	2	2	8	.83	.06	9	7	.57	30	.01	2	.42	.01	.02	2
MC28-82-358	1	24	10	41	.1	21	10	282	2.04	2	2	ND	3	15	1	2	2	29	1.38	.20	8	29	.95	86	.05	2	.75	.01	.17	2
MC28-82-360	1	20	14	46	.1	20	9	311	2.03	11	2	ND	5	11	1	2	2	9	.61	.06	8	12	.58	49	.02	2	.58	.01	.05	2
MC28-82-362	1	18	21	60	.1	18	9	408	1.82	17	2	ND	4	5	1	2	2	5	.12	.04	7	9	.30	33	.01	2	.58	.01	.02	2
MC28-82-364	1	21	13	38	.1	18	8	267	1.63	9	2	ND	5	5	1	2	2	8	.16	.05	9	13	.37	39	.02	2	.56	.01	.05	2
MC28-82-366	1	32	17	47	.1	26	16	302	3.05	22	2	ND	6	10	1	2	2	11	.49	.05	7	12	.50	46	.02	2	.54	.01	.04	2
MC28-82-500	1	59	4	57	.6	17	5	202	1.26	2	4	ND	2	127	2	2	2	32	13.35	.09	6	25	.57	371	.04	3	.88	.02	.26	2
MC28-82-504	2	24	6	61	.1	42	10	380	2.15	3	2	ND	2	22	1	2	2	45	.48	.06	8	44	.99	144	.07	2	1.20	.01	.27	3
MC28-82-506	1	40	6	82	.4	28	10	616	2.42	3	2	ND	2	39	1	2	2	50	.79	.07	8	45	.89	227	.07	2	1.44	.01	.30	2
MC28-82-508	1	51	7	58	.4	22	7	281	1.83	6	5	ND	2	46	1	2	2	33	3.74	.05	6	31	.65	179	.05	3	1.08	.01	.23	2
MC28-82-510	3	48	6	34	.3	10	2	971	.61	5	7	ND	2	98	2	2	2	8	5.21	.11	2	7	.13	320	.01	10	.17	.01	.03	2
MC28-82-512	2	43	7	66	.3	22	12	740	2.50	9	2	ND	2	38	1	2	2	37	1.14	.09	7	26	.80	163	.06	2	1.21	.01	.19	2
MC28-82-514	1	70	5	54	.1	35	14	367	2.50	9	2	ND	2	45	1	2	2	28	.71	.10	2	72	.93	57	.04	3	1.21	.01	.18	2
MC28-82-516	1	56	4	65	.1	34	13	463	2.10	7	2	ND	2	30	1	2	2	24	.63	.11	5	42	.64	57	.04	2	.89	.01	.08	2
MC28-82-518	1	23	2	38	.1	16	7	204	1.43	2	2	ND	2	22	1	2	2	22	.40	.10	5	32	.54	40	.04	2	.71	.01	.08	2
MC28-82-520	5	34	43	164	.1	37	24	6837	4.02	8	47	ND	10	41	2	2	2	29	.39	.07	27	34	.75	262	.06	2	1.49	.02	.16	2
MC28-82-522	1	7	5	29	.1	17	7	316	1.21	2	3	ND	2	16	1	2	2	15	.21	.05	7	16	.45	80	.04	2	.68	.01	.09	2
MC28-82-524	2	13	16	50	.1	17	10	732	2.05	3	21	ND	4	27	1	2	2	29	.43	.11	27	23	.63	147	.07	2	1.45	.02	.17	2
MC28-82-526	1	24	13	54	.1	30	12	365	2.53	4	2	ND	4	21	1	2	2	37	.30	.08	15	40	.66	213	.11	2	1.72	.01	.29	2
MC28-82-528	1	24	16	71	.1	41	14	543	2.57	3	5	ND	3	58	1	2	2	49	.62	.12	16	57	1.07	415	.14	2	1.86	.02	.30	2
MC28-82-530	1	18	9	59	.1	76	23	557	3.36	2	2	ND	3	37	1	2	2	37	.52	.10	12	47	2.18	184	.12	2	1.09	.06	.16	2
MC28-82-532	1	17	7	35	.1	7	6	357	1.39	2	2	ND	5	10	1	2	2	18	.29	.10	11	10	.31	49	.04	2	.60	.01	.09	2
MC28-82-534	1	19	8	47	.1	10	6	293	1.49	2	3	ND	7	8	1	2	2	16	.23	.07	13	14	.29	45	.03	2	.61	.01	.12	40
MC28-82-536	1	5	5	20	.1	6	3	201	.81	2	2	ND	5	9	1	2	2	13	.21	.07	9	6	.22	40	.03	2	.42	.01	.07	2
MC28-82-538	1	10	12	61	.1	15	6	366	1.77	2	11	ND	4	32	1	2	2	27	.41	.10	20	22	.56	140	.07	2	1.10	.01	.11	2
STD A-1	1	31	41	180	.2	35	13	1025	2.81	12	2	ND	2	36	2	2	2	57	.69	.11	7	76	.76	293	.09	6	1.95	.02	.18	2

KIDD CREEK PROJECT # 28 FILE # 82-0717

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
MC28-82-540	1	8	10	63	.1	7	6	936	1.95	2	18	ND	7	40	1	2	2	35	.65	.18	67	15	.46	130	.08	3	1.49	.01	.14	2
MC28-82-542	1	15	16	76	.1	13	7	442	2.54	2	5	ND	8	23	1	2	2	40	.34	.08	29	30	.65	120	.13	2	1.67	.01	.42	2
MC28-82-544	1	13	13	50	.1	12	6	258	1.80	2	2	ND	6	12	1	2	2	26	.29	.07	18	21	.40	71	.07	2	.86	.01	.19	2
MC28-82-546	1	9	8	37	.1	11	7	245	1.56	4	2	ND	3	24	1	2	2	31	.49	.15	17	21	.41	126	.08	2	.95	.01	.15	2
MC28-82-548	1	11	7	35	.1	13	7	341	1.77	5	2	ND	3	52	1	2	2	36	.66	.15	27	20	.49	188	.09	2	1.39	.01	.17	2
MC28-82-550	1	8	6	29	.1	10	6	211	1.44	3	3	ND	9	24	1	2	2	31	.59	.19	23	22	.40	90	.06	2	.73	.01	.13	2
MC28-82-552	1	12	6	47	.1	21	10	381	2.26	3	2	ND	4	47	1	2	2	49	1.00	.34	19	35	1.03	309	.12	2	1.37	.02	.33	2
MC28-82-554	1	10	7	36	.1	13	6	258	1.52	5	2	ND	6	25	1	2	2	29	.60	.22	22	24	.47	136	.07	2	.91	.01	.19	2
STD A-1	1	31	39	172	.3	34	12	991	2.72	11	2	ND	2	36	2	2	2	55	.66	.10	7	72	.75	288	.09	5	1.94	.02	.18	2

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
SAMPLE TYPE - SILT

SAMPLE #

	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
PL28-82 2	6	46	24	471	.3	53	6	266	3.00	7	5	ND	6	22	6	6	2	252	.68	.27	13	43	.75	184	.08	6	1.78	.01	.21	2
PL28-82 6	6	35	39	616	.4	49	8	314	3.02	9	10	ND	3	32	8	6	2	225	.82	.17	11	38	.72	100	.08	8	1.58	.01	.20	2
PL28-82 8	2	28	31	334	.4	20	7	855	2.86	8	16	ND	6	25	4	5	3	95	.41	.18	14	19	.42	109	.08	7	1.98	.01	.14	2
PL28-82 4	2	37	227	328	1.3	21	4	254	2.09	7	5	ND	3	35	4	4	4	96	6.48	.18	8	16	3.74	56	.04	5	.92	.01	.11	5
PL28-82 10	1	5	7	31	.1	4	1	240	.82	3	4	ND	4	10	1	2	2	18	.14	.02	9	20	.13	41	.04	3	.55	.03	.09	2
PL28-82 12	2	38	160	307	1.4	21	5	194	2.36	11	3	ND	5	24	4	4	2	115	4.04	.25	11	21	2.47	68	.05	5	1.05	.01	.17	3
PL28-82 14	1	11	21	73	.1	16	13	1055	2.28	5	2	ND	3	17	1	2	2	21	.37	.07	25	21	.43	121	.04	6	2.03	.01	.11	2
PL28-82 16	1	13	22	54	.1	25	10	513	2.87	5	3	ND	8	27	1	2	2	29	.40	.08	21	47	.79	148	.07	8	2.43	.02	.23	2
PL28-82 18	1	9	11	66	.1	24	9	378	2.42	2	4	ND	7	37	1	2	2	30	.29	.05	19	31	.75	171	.06	5	1.77	.03	.20	2
PL28-82 20	3	5	13	31	.1	7	4	366	1.27	2	9	ND	7	8	1	2	2	14	.08	.02	15	12	.22	75	.04	3	.76	.01	.13	2
PL28-82 22	1	9	14	40	.2	10	5	311	1.67	4	2	ND	6	10	1	2	2	20	.15	.07	12	15	.23	103	.07	4	1.76	.01	.10	2
PL28-82 24	1	10	14	61	.1	22	9	407	2.31	2	15	ND	7	38	1	2	2	29	.32	.06	19	31	.67	164	.07	5	1.74	.03	.22	2
PL28-82 26	1	2	4	14	.1	3	1	175	.60	2	2	ND	4	4	1	2	2	5	.05	.01	8	19	.08	35	.02	2	.36	.02	.08	2
PL28-82 28	1	5	5	29	.1	11	4	201	1.41	2	5	ND	8	13	1	2	2	16	.16	.03	13	25	.27	65	.03	4	.75	.02	.11	2
PL28-82 30	1	4	4	28	.1	8	3	247	1.19	2	2	ND	6	10	1	2	2	16	.14	.03	14	29	.18	56	.03	4	.63	.02	.11	2
PL28-82 32	43	295	1146	2319	3.8	38	75	2357	15.31	1423	2	4	5	55	19	34	54	16	3.55	.07	17	9	1.88	100	.02	20	.65	.01	.06	653
PL28-82 34	2	23	58	153	.2	13	6	313	1.60	14	4	ND	6	23	1	3	2	35	1.06	.08	14	15	.46	109	.04	5	.83	.02	.09	19
PL28-82 36	1	15	37	64	.1	17	9	405	2.19	10	2	ND	9	15	1	2	2	10	.60	.08	29	11	.35	87	.01	6	.73	.01	.07	2
PL28-82 38	2	28	20	101	.2	36	15	548	3.68	9	2	ND	7	34	1	3	2	35	.55	.10	21	37	1.14	110	.05	9	1.96	.03	.12	2
PL28-82 40	1	16	19	54	.1	25	10	274	2.49	7	2	ND	6	49	1	2	2	35	.59	.07	16	41	.92	158	.08	6	1.96	.06	.23	2
PL28-82 42	3	35	15	81	.3	34	16	263	3.13	8	2	ND	7	37	1	3	2	24	.48	.10	22	25	.62	114	.03	10	1.14	.02	.08	2
PL28-82 44	3	31	17	210	.3	30	8	250	2.51	5	3	ND	6	31	1	2	2	84	.72	.21	15	31	.80	86	.05	7	1.57	.03	.19	2
PL28-82 46	2	23	14	65	.1	27	13	209	2.43	5	2	ND	6	37	1	3	2	23	.50	.09	17	26	.62	102	.05	6	1.23	.03	.11	2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
PL28-82-48	1	4	9	44	.1	3	4	299	1.62	2	2	ND	4	26	1	2	2	27	.43	.05	13	18	.43	35	.10	3	.89	.06	.17	6
PL28-82-50	1	24	15	80	.2	28	12	245	2.42	3	2	ND	6	38	1	2	2	28	.54	.09	17	26	.73	110	.05	4	1.39	.04	.11	2
PL28-82-52	1	3	9	46	.1	5	4	321	1.86	2	2	ND	5	28	1	2	2	30	.49	.07	18	20	.56	40	.11	3	1.04	.05	.24	2
PL28-82-54	1	6	15	80	.2	5	6	553	3.04	2	2	ND	13	31	1	2	3	52	.89	.11	43	24	.85	53	.19	7	1.58	.07	.39	15
PL28-82-56	1	23	14	80	.2	28	11	244	2.18	4	2	ND	6	34	1	2	2	25	.47	.09	18	24	.68	98	.05	3	1.29	.03	.10	2
PL28-82-58	1	5	9	44	.1	5	5	344	1.96	2	2	ND	9	31	1	2	2	32	.75	.11	30	19	.53	40	.11	5	.98	.07	.24	2
PL28-82-60	2	19	11	80	.2	25	10	236	2.58	4	2	ND	6	30	1	2	2	34	.46	.10	19	32	.70	94	.05	5	1.24	.04	.15	2
PL28-82-62	3	22	75	655	.6	38	10	331	3.09	33	2	ND	7	22	5	2	2	25	.83	.19	26	29	.53	102	.03	6	.70	.01	.17	2
PL28-82-64	3	40	48	411	.7	55	10	319	2.81	27	3	ND	6	29	4	2	2	52	1.00	.41	25	35	.46	137	.03	5	.83	.01	.20	2
PL28-82-66	1	22	13	88	.2	24	10	240	2.20	5	2	ND	6	34	1	2	2	29	.54	.11	18	24	.65	92	.05	5	1.21	.03	.11	2
PL28-82-68	2	25	134	622	.7	20	6	310	2.40	4	2	ND	6	34	3	2	3	65	3.40	.16	23	17	2.33	110	.09	5	1.15	.02	.15	3
PL28-82-70	1	34	43	1075	.3	47	11	525	2.43	9	2	ND	2	44	7	2	2	47	1.51	.11	14	67	1.14	145	.10	11	1.99	.04	.20	2
PL28-82-72	1	28	59	633	2.8	44	9	316	2.17	7	3	ND	4	68	2	2	2	43	1.11	.13	18	70	1.41	159	.13	7	1.81	.04	.17	2
PL28-82-74	2	24	41	231	.4	25	13	216	2.59	7	2	ND	13	34	2	2	2	30	1.41	.15	35	19	.90	71	.05	7	.83	.02	.11	2
PL28-82-76	1	38	14	68	.2	24	12	351	2.67	5	2	ND	3	34	1	2	2	66	.59	.09	11	53	1.01	159	.10	5	1.31	.05	.25	2
PL28-82-78	1	41	9	77	.2	29	11	366	2.72	5	2	ND	3	25	1	2	2	74	.53	.09	10	57	1.14	165	.11	4	1.44	.04	.30	2
PL28-82-80	2	46	15	119	.3	25	11	467	2.77	7	2	ND	2	39	1	2	2	77	.65	.12	11	33	1.06	236	.12	5	1.66	.03	.36	2
PL28-82-82	1	14	15	62	.2	12	5	316	1.75	2	2	ND	3	33	1	2	2	38	.48	.11	15	21	.69	120	.09	4	1.25	.02	.22	2
PL28-82-84	1	11	11	52	.2	10	4	257	1.64	4	2	ND	13	26	1	2	2	30	.40	.07	46	22	.50	76	.08	3	.94	.04	.16	3
PL28-82-86	1	5	9	52	.1	5	4	305	1.76	2	2	ND	9	24	1	2	2	33	.39	.06	30	18	.55	66	.11	5	1.14	.05	.21	2
PL28-82-88	2	15	17	75	.2	9	4	362	1.58	4	2	ND	2	23	2	2	2	39	.50	.09	12	15	.49	81	.07	5	.94	.01	.14	2
PL28-82-90	1	16	13	47	.2	14	7	238	2.33	2	2	ND	11	41	1	2	2	47	.61	.18	36	20	.50	93	.07	4	.85	.02	.15	11
PL28-82-92	1	23	12	75	.2	17	7	372	2.40	3	2	ND	9	32	1	2	2	46	.55	.12	32	27	.86	103	.10	5	1.41	.02	.24	2
PL28-82-94	2	18	19	99	.3	19	6	365	2.21	2	2	ND	4	45	1	2	2	45	.63	.13	23	25	.73	116	.10	4	1.61	.03	.19	2
PL28-82-96	2	21	18	89	.3	24	7	361	2.34	5	2	ND	4	27	1	2	2	47	.36	.08	18	30	.76	135	.10	5	1.87	.02	.18	2
PL28-82-98	2	23	18	113	.4	26	8	449	2.53	4	2	ND	4	44	1	2	2	49	.56	.10	20	33	.90	167	.11	4	1.81	.03	.21	2
PL28-82-100	1	12	20	67	.2	12	5	343	1.96	4	2	ND	9	30	1	2	2	33	.55	.12	34	15	.59	89	.09	5	1.21	.02	.23	2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
PL28-82-102	1	16	26	80	.2	12	5	323	1.73	5	2	ND	3	44	1	2	2	27	5.54	.09	8	19	3.27	143	.05	4	1.37	.03	.09	2
PL28-82-104	1	35	24	140	.2	19	9	429	2.51	7	2	ND	6	31	1	2	2	56	.66	.11	15	35	.82	179	.08	4	1.48	.03	.23	2
PL28-82-106	1	30	23	60	.2	33	12	437	3.06	12	2	ND	8	34	1	2	2	38	.38	.08	21	38	.74	123	.06	4	1.48	.02	.16	2
PL28-82-108	1	18	9	35	.2	12	10	288	2.37	6	2	ND	16	26	1	2	2	45	.50	.10	25	26	.52	67	.05	4	.79	.01	.09	2
PL28-82-110	1	25	11	35	.1	21	15	334	3.23	6	2	ND	18	26	1	2	2	60	.63	.19	26	37	.70	143	.08	4	1.05	.02	.19	2
PL28-82-112	1	25	31	101	.2	48	13	687	3.44	14	2	ND	9	42	1	2	2	38	.52	.08	19	50	.91	109	.05	5	1.70	.02	.14	3
PL28-82-114	1	42	22	74	.2	88	20	605	3.73	22	2	ND	5	51	1	4	3	62	.59	.15	18	63	1.99	135	.07	5	1.73	.01	.12	2
PL28-82-116	1	51	19	81	.1	27	16	613	3.92	16	2	ND	2	48	1	2	2	89	.78	.15	18	49	1.21	150	.10	5	2.24	.02	.11	2
PL28-82-118	1	41	21	69	.2	35	17	634	3.81	17	2	ND	2	39	1	2	2	63	.63	.17	19	41	1.33	119	.05	5	1.91	.01	.09	2
PL28-82-120	1	41	21	65	.1	36	16	542	3.76	13	2	ND	3	40	1	4	2	72	.68	.16	18	48	1.34	111	.06	5	1.76	.01	.09	2
PL28-82-122	1	29	12	47	.2	17	11	409	2.51	8	3	ND	2	129	1	2	2	62	2.45	.12	12	30	1.27	103	.07	3	1.35	.02	.07	2
PL28-82-124	1	14	12	45	.1	9	6	291	1.66	7	2	ND	2	82	1	2	2	39	3.69	.09	9	20	.54	69	.05	4	1.01	.02	.05	2
PL28-82-126	1	29	16	55	.2	21	10	388	2.47	10	2	ND	2	65	1	2	2	54	2.31	.10	12	30	.78	106	.06	3	1.28	.02	.10	2
PL28-82-128	1	29	17	55	.2	20	13	374	3.14	12	2	ND	3	55	1	2	2	75	.90	.13	17	44	.79	120	.07	4	1.29	.03	.15	2
PL28-82-130	1	21	24	57	.2	11	6	243	1.54	8	2	ND	2	156	1	2	2	35	12.13	.10	8	22	.53	149	.05	4	1.06	.03	.14	2
PL28-82-132	1	16	10	22	.1	10	11	201	1.50	2	2	ND	3	11	1	2	2	17	.55	.04	9	9	.47	89	.03	2	.45	.01	.05	2
PL28-82-134	1	9	5	15	.1	7	4	180	.87	2	2	ND	3	6	1	2	2	10	.39	.05	10	7	.47	50	.03	3	.48	.01	.10	2
PL28-82-136	1	19	12	53	.1	15	11	464	2.09	2	2	ND	4	18	1	2	2	26	.27	.07	25	18	.66	108	.06	4	1.38	.01	.15	2
PL28-82-138	1	15	12	42	.1	10	7	300	1.92	2	2	ND	5	8	1	2	2	25	.10	.03	13	13	.43	80	.08	3	1.62	.01	.16	2
PL28-82-140	1	14	8	32	.1	10	6	178	1.50	2	2	ND	4	9	1	2	2	16	.14	.02	15	12	.45	67	.06	2	1.09	.01	.20	2
PL28-82-142	1	10	6	27	.1	7	4	151	1.36	2	2	ND	4	6	1	2	2	13	.08	.02	13	11	.44	66	.08	4	.98	.01	.26	2
PL28-82-144	1	14	11	45	.2	8	4	105	1.51	2	2	ND	5	5	1	2	2	15	.06	.02	13	11	.40	70	.08	16	.99	.01	.28	2
PL28-82-146	1	10	8	28	.1	7	4	119	1.24	2	2	ND	3	5	1	2	2	13	.07	.02	14	10	.36	54	.07	2	.90	.01	.20	2
PL28-82-148	1	12	9	29	.2	7	6	197	1.46	2	2	ND	5	6	1	2	2	13	.06	.02	16	10	.45	68	.06	5	1.08	.01	.24	2
PL28-82-150	1	5	4	13	.1	5	3	101	.77	2	2	ND	3	4	1	2	2	8	.05	.02	11	7	.29	44	.06	2	.67	.01	.16	2
PL28-82-152	1	6	6	15	.1	6	3	135	.96	2	2	ND	3	3	1	2	2	10	.03	.01	10	10	.36	57	.07	2	.90	.01	.21	2
PL28-82-154	1	8	5	19	.1	6	4	128	1.09	2	2	ND	3	5	1	2	2	10	.07	.02	9	11	.34	46	.06	4	.72	.01	.24	2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
PL28-82-156	1	8	6	20	.1	6	3	95	1.05	2	2	ND	3	4	1	2	2	10	.05	.02	10	9	.34	49	.06	3	.71	.01	.22	2
PL28-82-158	1	18	10	40	.1	13	7	162	1.86	2	2	ND	4	15	1	2	2	18	.12	.03	13	20	.47	149	.09	3	1.01	.01	.31	2
PL28-82-160	1	6	17	97	.3	4	4	520	2.58	3	2	ND	8	40	1	2	2	40	.80	.25	43	8	.69	79	.10	4	1.49	.01	.31	2
PL28-82-162	1	3	11	40	.2	2	2	178	1.38	2	3	ND	6	15	1	2	2	18	.40	.14	27	6	.32	27	.04	4	.62	.01	.11	2
PL28-82-164	1	4	14	69	.4	4	4	480	2.18	2	2	ND	6	52	1	2	2	33	.62	.14	50	9	.45	43	.05	5	1.03	.01	.16	2
PL28-82-166	1	4	12	74	.2	4	4	531	2.59	2	2	ND	7	64	1	2	2	42	.62	.16	39	10	.50	43	.06	5	1.21	.01	.18	2
PL28-82-168	1	3	8	71	.3	4	3	503	1.96	2	2	ND	4	53	1	2	2	30	.44	.11	23	7	.56	57	.08	5	1.13	.02	.16	2
PL28-82-170	1	4	12	61	.2	3	3	431	1.73	3	2	ND	5	48	1	2	2	26	.52	.14	27	7	.48	51	.07	3	1.17	.01	.18	2
PL28-82-172	1	6	14	72	.2	4	4	414	2.37	6	2	ND	6	36	1	2	2	39	.62	.16	39	10	.46	50	.07	6	1.12	.01	.12	2
PL28-82-174	1	5	20	93	.3	5	4	577	2.22	10	2	ND	3	67	1	2	2	36	.70	.17	30	9	.59	69	.08	4	1.52	.01	.17	2

	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
PL28-82-176	1	8	19	93	.1	5	4	576	2.07	8	4	ND	3	76	1	2	2	30	.55	.16	24	8	.55	65	.06	2	1.39	.01	.15	2
PL28-82-178	1	6	18	96	.4	7	5	504	2.11	4	4	ND	3	89	1	2	2	33	.91	.23	24	11	.69	58	.06	2	1.27	.01	.18	2
PL28-82-180	1	3	9	45	.3	2	3	267	1.19	8	2	ND	5	30	1	5	2	18	.48	.17	26	5	.29	28	.03	2	.61	.01	.07	2
PL28-82-182	1	10	17	65	.5	18	7	263	1.66	6	5	ND	6	83	1	2	2	22	1.37	.17	20	21	.51	41	.03	2	.73	.01	.08	2
PL28-82-184	1	4	7	43	.1	14	4	266	1.29	3	5	ND	5	28	1	2	2	19	.45	.12	19	14	.51	35	.04	2	.63	.01	.11	2
PL28-82-186	1	10	17	72	.2	15	6	384	1.83	3	4	ND	4	45	1	2	2	24	.58	.15	18	20	.58	62	.04	2	1.10	.01	.11	2
PL28-82-188	5	75	1749	1751	56.7	3	5	10530	2.68	524	2	ND	7	38	25	42	10	17	.37	.10	22	5	.39	136	.05	3	.96	.01	.13	2
PL28-82-190	1	2	30	77	.5	2	4	557	1.81	6	3	ND	4	30	1	2	2	28	.74	.25	24	6	.49	57	.08	2	1.14	.01	.19	2
PL28-82-192	1	3	25	81	.2	3	5	520	1.92	4	4	ND	4	34	1	2	2	31	.66	.18	24	7	.54	61	.08	2	1.16	.01	.20	2
PL28-82-194	1	5	37	121	.4	3	5	587	2.03	7	5	ND	4	43	2	2	2	31	.65	.16	25	7	.54	56	.07	2	1.11	.01	.18	2
PL28-82-196	2	14	374	387	11.1	2	3	2351	1.61	221	5	ND	6	27	6	12	3	19	.50	.17	21	6	.37	60	.05	2	.76	.01	.13	2
PL28-82-198	1	3	19	72	.1	2	4	377	1.40	5	3	ND	3	34	1	2	2	23	.73	.22	20	7	.41	47	.05	2	.81	.01	.17	2
PL28-82-200	1	3	12	49	.1	5	4	265	1.70	2	5	ND	7	29	1	2	2	24	.52	.18	24	10	.51	133	.10	2	1.12	.01	.27	2
PL28-82-202	1	2	11	48	.2	3	2	214	.91	2	8	ND	18	22	1	2	2	10	.30	.10	38	5	.22	62	.04	2	.47	.01	.09	2
PL28-82-204	1	14	234	294	8.3	6	4	1524	1.65	133	2	ND	8	55	3	7	2	21	.57	.19	28	8	.44	101	.07	2	.85	.01	.17	2
PL28-82-206	1	4	13	67	.2	3	3	227	1.02	2	5	ND	7	26	1	2	2	16	.53	.20	22	5	.29	57	.05	2	.65	.01	.15	2
Lusty Soils PL28-82-207	13	95	64	337	6.0	6	3	549	8.37	3	2	ND	6	66	2	5	29	130	.15	.14	18	48	1.48	444	.21	7	2.33	.02	1.01	2
PL28-82-208	9	135	58	237	9.1	3	2	527	9.34	6	2	ND	3	81	1	3	15	113	.15	.15	10	43	1.40	349	.19	6	1.91	.05	1.47	2
PL28-82-209	18	106	65	381	5.9	11	3	402	9.44	2	2	ND	8	82	2	5	16	152	.11	.15	15	49	1.51	371	.22	6	2.34	.03	1.23	2
PL28-82-212	1	6	69	138	2.4	3	3	479	1.11	34	2	ND	11	27	1	2	2	15	.50	.18	30	6	.25	49	.04	2	.52	.01	.11	2
PL28-82-214	1	84	148	73	.2	12	6	358	1.92	2	6	ND	2	40	1	2	2	29	1.07	.17	10	22	.53	91	.06	2	.86	.01	.15	2
PL28-82-216	1	3	13	54	.1	3	2	258	1.20	3	2	ND	9	38	1	2	2	17	.63	.20	19	7	.32	51	.05	2	.69	.01	.16	2
PL28-82-218	1	3	99	113	.2	2	2	236	1.04	2	5	ND	4	33	1	2	2	15	.43	.12	23	7	.28	67	.05	2	.74	.01	.12	2
PL28-82-220	1	3	7	49	.1	3	2	222	1.05	2	3	ND	2	25	1	2	2	16	.43	.14	10	7	.32	52	.05	2	.61	.01	.15	2
PL28-82-222	1	3	12	51	.1	4	2	246	1.17	2	7	ND	6	39	1	2	2	17	.55	.19	22	8	.24	68	.04	3	.56	.01	.07	2
PL28-82-224	1	2	20	31	.1	4	2	135	1.19	2	11	ND	39	37	1	2	2	17	.53	.20	32	6	.12	58	.02	2	.34	.01	.02	2
PL28-82-226	1	8	101	318	.3	4	2	215	1.33	2	11	ND	28	34	1	2	2	19	.53	.18	30	7	.24	62	.04	2	.55	.01	.08	2

KIDD CREEK MINES LTD PROJECT 28 FILE # 82-0434 PAGE # 7.2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
PL28-82-228	1	10	7	43	.1	4	3	578	1.37	2	4	ND	3	20	1	2	2	30	.22	.07	6	8	.25	26	.02	5	.48	.01	.05	2
PL28-82-230	1	6	16	46	.2	5	3	550	1.25	2	9	ND	3	34	1	2	2	24	.28	.07	12	15	.27	46	.03	4	.68	.01	.06	2
PL28-82-232	1	9	26	59	.2	12	4	645	1.71	2	64	ND	4	54	1	2	2	30	.82	.13	25	27	.52	89	.04	7	.97	.01	.12	2
PL28-82-234	1	12	21	60	.4	9	3	446	1.16	4	75	ND	2	61	1	2	2	24	.57	.06	27	23	.34	60	.04	5	1.35	.01	.06	2
PL28-82-236	1	12	11	48	.1	11	4	439	1.69	2	9	ND	3	55	1	2	3	41	.33	.06	10	22	.38	46	.04	6	.75	.01	.05	2
PL28-82-238	1	6	10	57	.1	5	3	478	1.35	2	3	ND	4	19	1	2	2	24	.21	.06	9	13	.28	36	.03	5	.55	.01	.07	2
PL28-82-240	1	4	12	41	.3	4	2	306	1.26	2	15	ND	5	40	1	2	2	22	.33	.07	16	11	.23	75	.02	6	.68	.01	.09	2
PL28-82-242	1	8	18	60	.4	5	2	551	1.00	2	20	ND	5	41	1	2	2	16	.29	.04	31	13	.14	78	.01	4	.79	.01	.08	2
PL28-82-244	1	7	15	48	.5	5	2	443	1.00	3	7	ND	5	54	1	3	2	17	.25	.03	24	13	.18	72	.02	4	.59	.01	.07	2
PL28-82-246	1	4	8	35	.1	5	2	389	1.26	2	2	ND	9	22	1	2	3	25	.20	.05	8	13	.22	46	.02	4	.36	.01	.07	2
PL28-82-248	1	16	10	44	.2	13	4	167	2.45	3	2	ND	3	20	1	2	2	48	.29	.06	8	33	.81	165	.21	7	1.54	.04	.72	2
PL28-82-250	1	16	10	47	.1	19	6	201	2.28	3	2	ND	3	12	1	3	2	45	.23	.05	7	35	.77	140	.22	6	1.46	.03	.74	2
PL28-82-252	1	22	18	44	.1	16	7	196	1.86	2	2	ND	4	18	1	3	2	37	.46	.09	10	31	.63	124	.17	6	1.32	.04	.52	2
PL28-82-254	1	19	13	41	.1	13	7	235	2.10	3	2	ND	3	13	1	2	2	30	.25	.05	9	29	.44	143	.10	7	1.01	.02	.36	2
PL28-82-256	1	6	4	26	.1	5	3	113	1.20	2	2	ND	4	12	1	2	2	23	.55	.23	17	11	.31	86	.09	4	.68	.01	.27	2
PL28-82-258	1	5	6	41	.1	4	3	213	1.69	2	2	ND	5	10	1	2	2	30	.26	.10	18	10	.43	114	.13	16	.84	.02	.46	2
PL28-82-260	1	5	9	44	.1	5	3	236	2.28	2	2	ND	9	14	1	2	2	39	.43	.19	32	11	.44	112	.12	7	.96	.01	.34	2
PL28-82-262	1	12	8	45	.1	51	10	416	2.38	2	4	ND	9	33	1	3	2	47	.61	.20	28	112	1.34	167	.14	8	1.09	.02	.35	2
PL28-82-264	1	12	9	41	.1	72	12	401	2.56	3	4	ND	7	34	1	2	2	46	.67	.22	32	119	1.61	144	.14	11	1.07	.02	.36	2
PL28-82-266	1	8	8	35	.1	34	6	298	1.91	2	9	ND	8	28	1	2	2	34	.41	.15	23	60	.83	129	.09	9	.79	.02	.24	2
PL28-82-268	1	5	9	32	.1	21	4	195	1.48	2	18	ND	8	39	1	2	2	22	.42	.13	32	34	.51	100	.07	5	.74	.01	.17	2
PL28-82-270	1	5	5	37	.1	3	3	303	1.38	2	6	ND	9	12	1	2	2	23	.28	.11	18	5	.34	75	.07	5	.53	.01	.25	2
PL28-82-272	1	4	6	25	.1	4	3	181	1.31	2	22	ND	16	20	1	2	2	22	.64	.27	48	11	.19	80	.04	6	.40	.01	.09	2
PL28-82-274	1	5	9	42	.1	5	3	303	1.83	2	12	ND	11	21	1	2	2	31	.48	.18	38	13	.28	84	.05	6	.60	.01	.15	2
PL28-82-276	1	3	3	23	.1	14	4	172	1.06	2	2	ND	4	16	1	2	2	17	.20	.05	16	74	.43	61	.07	3	.50	.02	.11	2
PL28-82-278	1	2	6	36	.1	18	3	306	1.24	2	3	ND	24	15	1	2	2	16	.25	.10	35	29	.41	64	.05	4	.46	.01	.18	2
PL28-82-280	1	3	8	41	.1	16	4	296	2.41	2	2	ND	15	22	1	2	2	39	.43	.17	43	33	.45	90	.07	11	.64	.02	.22	2
STD A-1	1	28	40	164	.4	32	11	931	2.65	12	2	ND	2	31	1	4	3	52	.62	.10	8	71	.78	259	.09	12	2.00	.02	.22	2

KIDD CREEK MINES LTD PROJECT 28 FILE # 82-0434 PAGE # 8

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
PL28-82-282	1	5	7	44	.1	3	3	317	1.32	2	3	ND	5	9	1	2	4	22	.23	.09	16	8	.37	70	.10	5	.65	.01	.27	2
PL28-82-284	1	5	5	29	.1	8	2	204	1.06	2	2	ND	7	19	1	2	3	18	.46	.15	23	15	.32	68	.07	3	.71	.03	.16	2
PL28-82-286	1	16	9	51	.1	20	7	227	1.98	3	4	ND	3	16	1	3	4	30	.30	.07	8	32	.64	120	.16	7	1.41	.02	.54	2
PL28-82-288	1	7	5	27	.1	9	3	168	1.02	2	3	ND	5	12	1	2	3	19	.27	.06	11	17	.32	93	.08	4	.68	.03	.25	2
PL28-82-290	1	9	6	36	.2	7	4	164	1.50	2	2	ND	3	8	1	2	3	29	.24	.09	10	17	.43	119	.14	4	.94	.01	.46	2
STD A-1	1	27	42	161	.3	31	11	920	2.62	13	2	ND	2	31	1	3	4	52	.61	.10	7	71	.76	260	.09	11	1.98	.02	.22	2

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppb.
SAMPLE TYPE - SILT

KIDD CREEK MINES LTD FILE#82-0368 PAGE 6 PROJECT SALMO

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
SE28-82 2	1	14	18	48	.1	21	10	469	1.77	2	6	ND	3	14	1	2	2	26	.22	.04	12	31	.75	136	.06	8	1.19	.01	.16	2
SE28-82 4	1	17	18	43	.1	23	9	516	1.65	3	5	ND	2	14	1	2	2	25	.24	.05	11	52	.63	155	.06	5	1.28	.01	.11	2
SE28-82 6	1	13	12	51	.1	23	9	368	2.33	3	2	ND	7	13	1	3	2	18	.19	.05	20	28	.63	106	.04	8	1.24	.01	.15	2
SE28-82 8	1	13	27	73	.1	18	8	428	2.19	3	2	ND	7	28	1	3	2	18	.57	.09	23	23	.66	94	.06	6	1.49	.03	.22	2
SE28-82 10	1	29	442	875	1.3	16	7	562	2.22	5	3	ND	5	90	3	2	2	23	6.30	.07	14	22	1.85	71	.06	6	1.58	.04	.23	12
SE28-82 12	1	23	364	87	.9	18	9	621	2.23	9	5	ND	5	17	1	4	2	16	.33	.06	15	21	.45	112	.04	6	.98	.01	.11	2
SE28-82 14	1	10	36	73	.2	14	6	400	1.62	3	2	ND	5	29	1	2	2	18	5.23	.16	11	16	3.75	84	.04	5	1.17	.01	.21	2
SE28-82 16	1	55	124	370	.9	13	7	224	2.12	7	2	ND	3	14	3	3	4	19	.85	.03	8	14	.67	55	.03	7	.71	.01	.07	3
SE28-82 18	2	35	122	317	1.2	20	5	221	2.22	9	3	ND	5	25	5	3	2	117	3.65	.25	11	24	2.22	74	.03	9	1.13	.01	.17	4
SE28-82 20	1	6	12	37	.1	12	12	603	1.56	2	2	ND	3	11	1	2	2	16	.15	.04	17	14	.34	93	.04	5	1.32	.01	.10	2
SE28-82 22	1	19	28	94	.1	27	9	350	2.86	5	3	ND	6	150	1	2	2	61	1.15	.05	18	56	1.39	451	.11	8	3.41	.16	.41	2
SE28-82 24	1	16	23	80	.1	26	9	420	3.00	5	6	ND	7	128	1	2	2	53	.87	.07	21	49	1.15	267	.12	8	2.88	.10	.40	2
SE28-82 26	1	6	9	29	.1	11	5	210	1.13	2	2	ND	5	17	1	2	2	15	.20	.03	14	15	.35	73	.03	4	.90	.02	.06	2
SE28-82 28	1	8	11	22	.1	6	4	420	.94	2	3	ND	4	12	1	2	2	10	.16	.02	12	10	.19	142	.03	3	.56	.01	.09	2
SE28-82 30	1	8	15	34	.1	7	4	612	1.10	2	4	ND	3	24	1	2	2	9	.23	.03	13	10	.22	179	.03	4	.71	.01	.11	2
SE28-82 32	1	13	19	68	.1	20	7	425	1.95	3	4	ND	7	16	1	2	2	29	.34	.08	18	23	.61	127	.08	5	1.66	.01	.19	2
SE28-82 34	1	10	18	52	.1	15	7	378	2.14	2	2	ND	8	20	1	3	2	18	.37	.06	20	22	.47	77	.08	6	1.36	.01	.28	2
SE28-82 36	2	10	12	85	.1	22	4	269	1.62	3	8	ND	8	32	1	2	2	54	.54	.07	16	23	.37	66	.06	5	1.41	.03	.16	2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
SE28-82 38	2	20	30	424	.3	17	3	424	1.51	2	11	ND	10	12	6	3	2	67	.47	.12	17	13	.29	130	.04	4	1.01	.01	.10	2
SE28-82 40	2	21	23	200	.3	16	4	601	1.70	5	32	ND	10	21	2	3	2	83	.48	.09	21	15	.29	160	.04	5	1.48	.01	.11	2
SE28-82 42	3	83	35	1128	.7	64	7	244	2.61	8	2	ND	5	36	12	4	2	193	1.22	.33	15	37	.64	502	.05	7	1.60	.03	.12	5
SE28-82 44	1	9	12	83	.1	15	5	293	1.47	2	8	ND	7	21	1	3	2	33	.31	.06	15	18	.36	100	.04	4	1.08	.02	.10	2
SE28-82 46	2	9	10	66	.1	10	2	162	.95	3	2	ND	5	14	1	3	2	35	.44	.06	10	29	.22	91	.03	2	.64	.03	.11	2
SE28-82 48	1	7	8	50	.1	12	4	222	1.41	2	5	ND	9	17	1	3	2	24	.25	.06	18	16	.29	82	.04	5	.86	.01	.09	2
SE28-82 50	2	12	201	334	.4	13	4	189	1.48	14	2	ND	2	58	2	3	2	22	12.85	.07	9	21	.97	95	.04	5	.77	.02	.14	2
SE28-82-52	3	51	57	464	.7	92	15	858	2.95	19	2	ND	3	43	6	2	3	50	.79	.26	18	65	.76	427	.05	27	1.37	.01	.14	4
SE28-82-54	2	23	17	114	.2	21	9	278	2.06	3	2	ND	5	25	2	2	2	40	.51	.15	24	16	.42	142	.06	5	.89	.02	.15	2
SE28-82-56	2	34	63	194	.3	40	16	478	3.45	21	2	ND	3	24	2	2	3	37	.39	.11	20	32	.46	114	.04	33	1.10	.01	.09	5
SE28-82-58	2	24	39	119	.5	30	10	590	2.76	15	2	ND	3	48	2	2	3	33	.51	.08	29	35	.48	101	.03	7	1.38	.01	.10	3
SE28-82-60	1	11	20	105	.3	14	5	489	1.91	7	2	ND	2	54	2	2	2	32	.55	.07	26	24	.46	100	.06	19	1.48	.01	.13	2
SE28-82-62	2	38	32	227	.2	40	11	370	2.69	12	2	ND	5	28	2	2	3	38	.47	.19	20	26	.46	174	.04	5	.91	.01	.12	2
SE28-82-64	1	13	23	99	.2	16	6	508	2.19	10	2	ND	4	41	1	2	3	37	.47	.08	20	27	.67	85	.08	30	1.47	.02	.21	2
SE28-82-66	1	13	25	95	.3	15	8	567	2.60	4	2	ND	3	44	1	2	3	47	.60	.11	21	40	.79	127	.10	7	2.15	.01	.32	2
SE28-82-68	7	218	5375	15661	17.5	63	33	4609	6.93	679	2	4	4	82	348	28	14	26	.88	.11	16	31	.65	87	.03	31	1.63	.01	.15	320
SE28-82-70	1	28	142	726	.4	29	10	443	2.58	20	2	ND	5	24	10	2	3	37	.39	.13	19	26	.53	124	.06	6	1.14	.01	.18	4

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
SE28-82-72	1	3	19	85	.3	6	4	502	2.42	2	7	ND	12	42	1	2	3	26	.52	.11	44	12	.62	71	.11	11	1.45	.02	.20	2
SE28-82-74	1	4	19	90	.2	6	5	447	2.44	3	5	ND	12	28	1	2	2	29	.40	.11	41	11	.63	81	.08	7	1.39	.01	.17	2
SE28-82-76	1	3	18	75	.3	4	3	473	2.01	3	10	ND	12	34	1	2	3	19	.43	.10	46	8	.44	55	.07	8	1.49	.01	.12	2
SE28-82-78	1	13	20	89	.1	43	10	640	3.37	2	8	ND	14	246	1	2	3	41	1.06	.33	62	77	1.48	223	.13	11	1.95	.01	.32	2
SE28-82-80	1	5	15	62	.2	6	4	436	2.10	2	13	ND	13	42	1	2	2	23	.50	.11	40	12	.52	72	.08	6	1.17	.01	.19	2
SE28-82-82	1	4	17	80	.2	6	4	391	2.23	4	9	ND	13	34	1	2	2	25	.53	.16	46	11	.56	64	.07	7	1.34	.01	.14	2
SE28-82-84	1	7	13	76	.1	16	5	529	2.59	2	6	ND	15	44	1	3	2	31	.55	.17	43	22	.89	128	.10	18	1.36	.03	.26	2
SE28-82-86	1	4	10	64	.1	10	4	405	2.04	3	2	ND	11	34	1	2	2	23	.38	.12	33	13	.59	88	.08	11	1.02	.02	.21	2
SE28-82-88	1	4	12	57	.2	7	4	370	1.87	2	14	ND	9	31	1	2	2	24	.35	.10	30	17	.56	118	.09	6	1.03	.02	.23	2
SE28-82-90	1	5	18	84	.7	15	6	547	2.46	2	18	ND	8	61	1	2	2	35	.69	.19	45	31	.82	156	.11	7	1.44	.01	.29	2
SE28-82-92	1	7	29	195	.5	8	3	469	1.65	5	97	ND	7	42	1	2	3	20	.40	.08	48	28	.38	172	.09	9	2.07	.01	.17	2
SE28-82-94	1	5	18	76	.2	8	4	416	1.54	2	24	ND	8	32	1	2	2	21	.42	.10	29	19	.46	90	.06	9	1.03	.01	.17	2
SE28-82-96	1	8	6	46	.2	6	4	300	1.36	2	8	ND	9	21	1	2	2	21	.25	.08	17	10	.36	49	.04	5	.60	.01	.11	2
SE28-82-98	1	3	11	73	.1	6	4	377	2.04	2	3	ND	10	27	1	2	2	23	.36	.10	29	12	.56	70	.08	6	1.04	.01	.17	2
SE28-82-100	1	8	13	53	.4	7	3	380	1.39	2	14	ND	10	28	1	2	4	16	.31	.08	28	14	.33	93	.03	7	.54	.01	.11	2
SE28-82-102	1	10	15	79	.2	9	3	630	1.51	2	32	ND	20	21	1	2	3	16	.31	.07	35	20	.36	71	.03	15	.66	.01	.13	2
SE28-82-104	2	9	20	83	.3	12	3	546	1.39	2	16	ND	17	20	1	2	4	14	.29	.05	41	21	.43	75	.01	5	.70	.01	.12	2
SE28-82-106	1	5	11	78	.2	4	4	351	2.11	5	6	ND	12	19	1	2	3	29	.54	.18	35	8	.51	47	.07	16	1.07	.01	.18	2
SE28-82-108	1	4	10	51	.2	5	3	272	1.79	2	8	ND	24	22	1	2	2	23	.37	.11	51	11	.36	49	.05	8	.67	.01	.13	2
SE28-82-110	1	7	13	54	.1	7	4	397	1.80	2	14	ND	3	36	1	4	2	32	.42	.13	18	17	.46	103	.10	5	1.29	.01	.15	2
SE28-82-112	1	6	7	48	.1	7	4	327	1.94	2	4	ND	5	21	1	2	2	34	.35	.12	16	15	.43	66	.08	7	.75	.02	.14	2
SE28-82-114	1	2	5	29	.1	4	2	230	.97	2	4	ND	5	9	1	2	2	13	.17	.05	8	12	.21	33	.03	6	.39	.02	.10	2
SE28-82-116	1	12	9	40	.1	89	13	353	2.40	2	2	ND	4	48	1	4	2	36	.57	.16	21	122	1.79	254	.14	8	1.18	.03	.30	2
SE28-82-118	1	7	19	62	.1	13	4	642	1.75	2	43	ND	2	43	1	2	2	30	.49	.12	21	28	.48	111	.05	6	1.11	.02	.11	2
SE28-82-120	1	3	7	36	.1	8	3	345	1.08	3	6	ND	2	12	1	2	2	17	.17	.05	7	19	.27	44	.03	6	.54	.02	.10	2
SE28-82-122	1	7	6	43	.1	10	3	316	1.43	2	5	ND	3	21	1	2	2	23	.38	.12	12	19	.42	56	.06	6	.70	.02	.12	4
SE28-82-124	1	10	17	48	.1	33	8	314	2.47	3	40	ND	9	67	1	2	3	52	.59	.16	30	78	.91	126	.12	7	1.17	.02	.20	2
SE28-82-126	1	8	9	47	.1	18	6	265	2.62	2	7	ND	6	55	1	2	2	61	.51	.15	25	40	.50	96	.07	7	.78	.01	.09	2
SE28-82-128	1	4	6	28	.1	15	3	160	1.25	2	9	ND	5	24	1	2	2	21	.26	.08	15	38	.45	63	.06	4	.58	.02	.13	2
SE28-82-130	1	23	36	105	.4	32	9	746	2.67	2	33	ND	2	206	1	2	3	65	1.31	.22	27	60	1.02	401	.21	13	1.72	.03	.28	2
STD A-1	1	28	39	166	.3	32	11	943	2.69	10	2	ND	2	32	1	2	3	53	.63	.10	7	74	.79	266	.09	11	2.03	.02	.22	2

KIDD CREEK MINES LTD PROJECT 28 FILE # 82-0434 PAGE # 7.1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
SE28-82-132	1	10	7	41	.1	13	6	292	1.95	2	5	ND	6	60	1	2	2	49	.50	.13	17	37	.55	110	.08	10	.80	.03	.12	2
SE28-82-134	2	19	25	69	.4	24	7	514	2.29	3	141	ND	3	145	1	4	2	56	1.17	.17	38	61	.84	235	.18	10	1.61	.02	.24	2
SE28-82-136	2	11	20	58	.2	15	5	586	2.09	2	59	ND	6	67	1	3	2	49	.68	.12	78	37	.50	150	.08	14	1.28	.01	.11	2
SE28-82-138	1	12	10	44	.1	17	7	311	2.82	6	8	ND	5	59	1	2	2	76	.62	.19	31	48	.55	108	.09	8	.88	.01	.10	2
SE28-82-140	1	14	7	38	.1	139	18	365	2.42	2	7	ND	6	100	1	4	3	31	.82	.29	33	100	2.40	159	.08	13	.85	.02	.14	2
SE28-82-142	1	12	11	40	.1	27	9	351	4.19	2	11	ND	14	62	1	2	3	119	.74	.26	33	66	.63	101	.07	17	.70	.01	.10	2
SE28-82-144	1	8	12	64	.1	13	5	337	2.02	2	2	ND	6	75	1	2	2	43	.57	.13	20	28	.45	71	.07	9	.84	.02	.10	2
SE28-82-146	1	8	14	59	.1	13	4	415	2.04	2	25	ND	16	41	1	2	3	38	.44	.11	43	51	.38	135	.05	6	1.24	.01	.10	2
SE28-82-148	1	11	14	70	.1	10	7	445	4.16	2	7	ND	16	73	1	2	4	98	.65	.17	27	34	.33	44	.07	12	.70	.02	.08	2
SE28-82-150	2	15	22	103	.2	19	6	566	2.41	2	37	ND	3	113	1	2	3	59	1.11	.13	25	66	.75	137	.12	9	1.84	.02	.18	2
SE28-82-160	1	6	17	48	.2	5	4	327	1.87	15	3	ND	17	24	1	3	2	38	.57	.18	37	20	.31	64	.05	4	.82	.01	.14	3
SE28-82-162	1	3	10	39	.1	7	6	308	3.66	2	19	ND	54	34	1	3	2	81	.97	.33	107	39	.46	56	.07	2	.94	.01	.08	2
SE28-82-164	1	5	10	31	.1	7	6	244	4.14	2	21	ND	117	28	1	4	2	90	1.39	.52	125	53	.40	49	.06	5	.95	.01	.08	2
SE28-82-166	1	11	26	50	.2	5	4	592	2.23	11	19	ND	9	82	1	3	4	43	.60	.11	41	12	.40	105	.08	4	1.52	.01	.21	3
SE28-82-168	1	10	48	35	.1	3	3	375	1.58	14	4	ND	7	13	1	3	2	24	.16	.04	22	8	.18	55	.03	5	.46	.01	.12	2
SE28-82-170	1	5	23	55	.1	2	2	261	1.67	10	10	ND	5	23	1	2	2	25	.29	.08	24	7	.15	66	.03	2	.56	.01	.09	2
SE28-82-172	1	10	32	167	.3	4	3	612	1.60	6	29	ND	5	125	1	3	2	24	.85	.08	35	9	.29	242	.06	10	1.57	.01	.17	2
SE28-82-174	1	5	31	116	.2	2	2	305	1.51	7	18	ND	5	32	1	2	2	24	.33	.08	20	6	.15	60	.03	4	.76	.01	.09	2
SE28-82-176	1	6	11	28	.1	4	3	199	1.43	4	8	ND	20	16	1	2	2	27	.48	.16	41	11	.23	42	.04	4	.56	.01	.09	5
SE28-82-178	1	5	6	41	.1	4	3	203	1.21	2	11	ND	4	18	1	2	2	15	.32	.12	17	7	.23	91	.06	5	.80	.01	.19	2
SE28-82-180	1	3	6	29	.1	3	2	229	.85	2	4	ND	2	21	1	2	2	13	.26	.07	9	8	.19	62	.05	2	.79	.01	.11	2
SE28-82-182	1	7	8	47	.1	10	4	366	1.59	2	3	ND	2	29	1	4	2	27	.50	.16	9	17	.48	123	.09	9	1.13	.01	.30	2
SE28-82-184	1	6	24	59	.1	4	3	247	1.29	3	9	ND	4	15	1	2	2	15	.26	.08	19	9	.22	76	.06	2	.67	.01	.19	2
SE28-82-186	1	12	7	45	.1	8	5	323	1.63	2	3	ND	4	13	1	2	2	22	.40	.08	16	15	.41	96	.08	2	.95	.03	.31	2
STD A-1	1	30	40	178	.2	35	12	971	2.77	8	2	ND	2	31	2	2	3	57	.66	.10	9	75	.78	281	.09	5	1.99	.02	.19	2

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
SAMPLE TYPE - ROCK CHIPS

DATE RECEIVED AUG 25 1982 DATE REPORTS MAILED Aug 30/82 ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

KIDD CREEK PROJECT # 28 FILE # 82-0941 PAGE # 1

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
SE28-82-308	1	235	126	124	.3	40	35	460	12.12	11	2	ND	6	22	1	7	2	10	.43	.11	5	10	.20	41	.01	2	.73	.03	.07	2
SE28-82-310	4	92	863	15933	.8	43	32	999	4.54	2	2	ND	2	228	119	2	3	18	9.04	.12	2	26	2.97	98	.01	2	.44	.01	.10	2
SE28-82-310 10X	1	10	117	3543	.1	6	4	131	.62	2	2	ND	2	26	17	2	2	2	1.04	.02	2	4	.38	11	.01	2	.05	.01	.01	2
SE28-82-300	1	47	9	48	.2	19	10	523	2.29	2	2	ND	6	45	1	2	2	35	.99	.12	23	27	.86	148	.03	2	1.40	.01	.08	2
SE28-82-302	1	16	22	96	.2	13	8	821	2.54	2	2	ND	5	83	1	2	2	37	1.19	.06	11	24	.80	140	.07	2	2.35	.01	.10	2
SE28-82-304	3	54	22	91	.4	61	22	1076	4.78	2	3	ND	2	35	1	2	2	68	.64	.17	46	108	1.23	181	.03	3	2.16	.01	.09	2
SE28-82-306	2	53	24	76	.2	53	19	1016	3.85	2	2	ND	2	32	1	2	2	47	.56	.14	22	96	.86	159	.03	2	1.59	.01	.09	2
SE28-82-312	1	23	11	100	.2	45	18	826	4.08	2	2	ND	7	17	1	2	2	44	.27	.08	31	53	1.02	113	.03	2	2.24	.01	.14	2
SE28-82-314	1	21	8	51	.1	23	10	381	1.92	2	2	ND	2	21	1	2	2	32	.45	.12	15	43	.64	126	.03	2	1.00	.01	.06	2
STD A-1	1	30	38	184	.5	32	11	904	2.67	6	3	ND	2	34	2	2	2	50	.61	.10	8	67	.70	263	.08	10	1.79	.02	.21	2

APPENDIX B

COMPARATIVE GOLD ANALYSIS BY AA/ICP

TABLE V COMPARATIVE Au ANALYSIS BY AA/ICP

Sample No.	ICP	By AA
AW-28-82-119	9.00 ppm Au	3.100 ppm Au
217	N.D.	.280
155	N.D.	.015
259	N.D.	.810
263	N.D.	.010
277	N.D.	.015
293	N.D.	.025
349	N.D.	.015
355	N.D.	.015
MC-28-82- 81	6.000	7.800
211	2.000	.005
245	4.000	8.000
PL-28-82- 73	N.D.	.005
SE-28-82- 68	4.000	3.040
DH-28-82-001	N.D.	5.400
3	N.D.	.005
5	N.D.	3.100
7	N.D.	.040
9	N.D.	.640
11	N.D.	.015

APPENDIX C

DESCRIPTIONS OF ANOMALY FOLLOW-UP

1. Mt. Sherman/Mt. Skelly (#p-23)
2. Upper Raft River (#S-28)
3. Upper Mad River (#P-81)
4. Cayuse Creek (#P-10)
5. Hoder Creek and Vallican (#P-50, P-48 & P-57)
6. Upper Dewar Creek (#P-56)
7. Upper White Creek (#P-58)

by

A. Winkler

Anomaly: Mt. Sherman/Mt. Skelly (#P-23)

Geochem Samples:		
	MC 117	222 W
	119	143
	121	192
	125	103
	CL 119	42
	MC 131	153
	133	227
	135	25

Location: NTS: 82F/7

Lat: 49°21'45" Long:116°34'30"

The anomalous area is located about 31 kilometres north of Creston, on the northwest and east southeast flanks of Mounts Skelly and Dickson.

Access:

Access to the area northwest of Skelly Mtn can be gained along a 4-wheel drive road along Sanca Creek. The Goat River Forestry road and numerous recently constructed logging roads on upper Skelly Creek provide access to the region southeast of Mounts Skelly and Dickson.

General Geology

The Skelly Mtn area is underlain by pinkish grey coarse-grained porphyritic biotite granodiorite of the Cretaceous Bayonne Batholith. This batholith is generally highly variable in composition and texture. Phases range in composition from granite to calcic-granodiorite. Textures range from coarse- to fine-grained equigranular to porphyritic. Phenocrysts are usually orthoclase or microcline, but in places both are present. Biotite is the only abundant ferro-magnesian mineral.

In the eastern portion of the anomaly, the Bayonne Batholith is in contact with the upper Purcell Dutch Creek Formation consisting of laminated argillite, dolomites and quartzite. Light green calc-silicate is present along the granodiorite contact at Kianuko Creek.

Mineralization and source of anomaly

In follow-up work along Sanca Creek the source for part of the tungsten anomaly was found to be fine-grained, dark quartz veinlets containing fine disseminations and discontinuous veinlets of scheelite in the intrusive rock. Mineralized veins range in size from one centimetre to one milimetre. Several flakes of disseminated molybdenite were also found in a biotite granodiorite. This is probably the source of 6 to 8 ppm molybdenum values in the silt samples.

Recommendation

Further work is recommended in the area to determine the potential for possible large tonnage, low grade scheelite mineralization. The cursory examination given to the area suggests a considerable quantity of scheelite mineralization with a visually estimated grade of approximately 0.25% WO_3.

Molybdenum anomalies should also be followed up to determine their potential.

Anomaly: Upper Raft River (#S-28)

Geochem Samples:	AW 530	110 Pb	330 Zn
	553	290 Pb	
	SE 308	235 Cu	126 Pb
	310	863 Pb	15,933 Zn
	310 X	117 Pb	3,543 Zn

Location: NTS: 82M/13

Lat: 51°56' Long: 119°36'

This stream silt anomaly is located on Upper Raft River, north of Riche Creek, a tributary to the river. Wells Gray Provincial Park is situated 4 kilometres northwest.

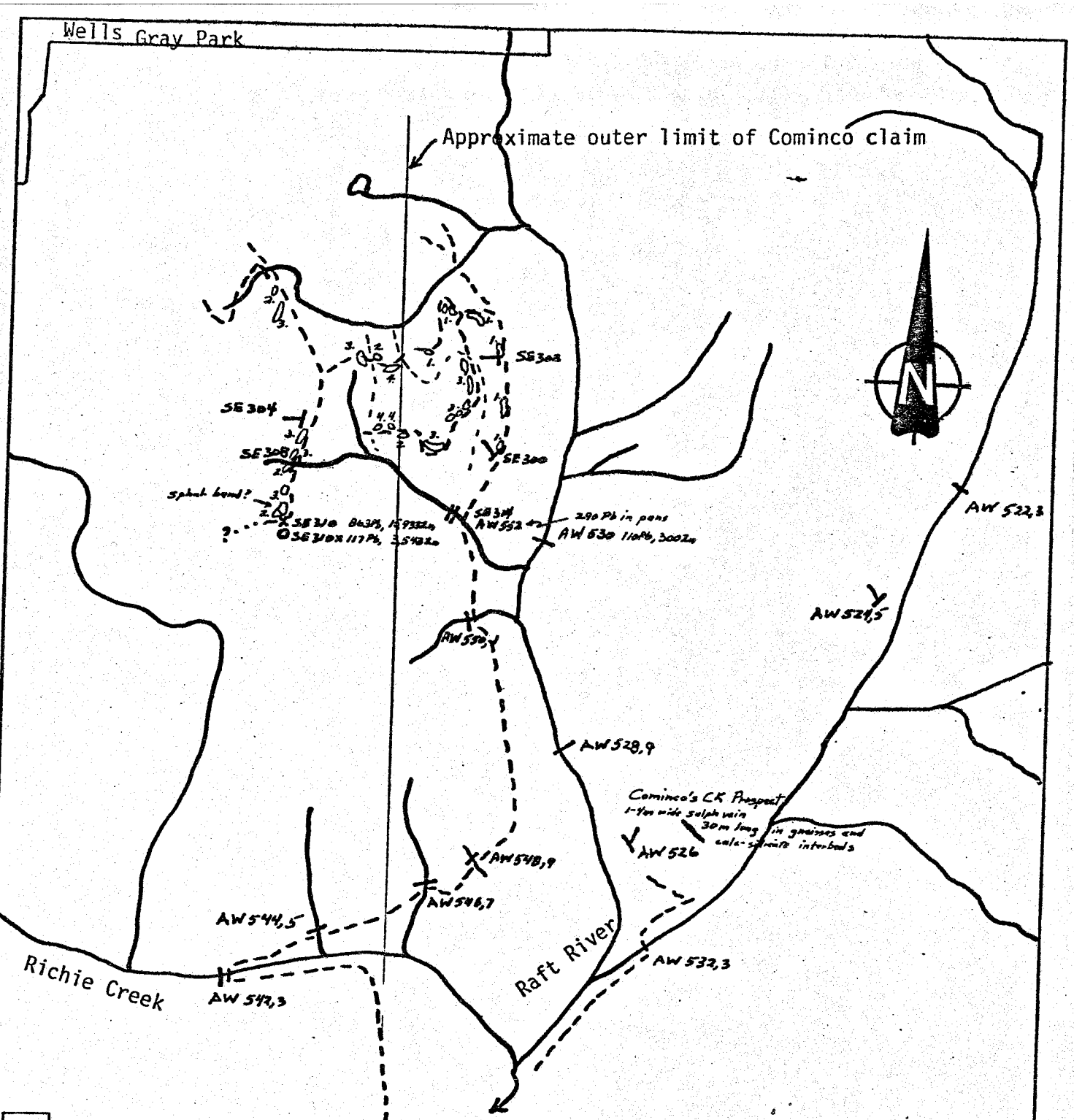
Access:

Access to the anomalous area normally is by logging road up the Raft River. A mudslide has blocked the high speed access road which runs along Raft River north of the Silence Lake turn-off to Dimac's mine. An alternative but slower route is the logging road which starts at the Yellowhead Highway turnoff about 10 kilometres north of Vavenby, through Hole In The Wall and runs along the east side up Raft River. It deteriorates to an old abandoned road until the main bridge crossing is reached. A good logging road switches back on Richie Creek and ends right at the place where mineralized bedrock lies.

General Geology

The region in upper Raft River has been mapped as undivided Shuswap Metamorphic Complex rock.

In following up the anomaly the logging road was briefly mapped as indicated in accompanying Figure 11.



4. Black quartz graphite schist

3. Green chlorite calcite schist

2. Rusty quartz sericite schist

1. Undifferentiated metamorphic rock

Geochem Sample
Stream, Soil, Rock

0 .5 1 2 3 Km

82 M/13

Kidd Creek Mines Ltd.

Upper Raft River

WORK BY	DRAWN BY	DATE:

Figure: 11

NCI - 556

A fundamental change in lithology occurs from one side of the main tributary to the next. To the east lies Cominco's CK prospect on which geophysical surveys and drilling in short holes have been conducted. This prospect is underlain by varied gneisses including biotite quartz-feldspar gneiss, calc-silicate gneiss, pegmatite and foliated gneissic granodiorite. A black rusty mineralized zone one to four metres wide with 160/subvertical orientation contains fine grained sphalerite, galena and hematite with minor chalcopyrite. The zone is exposed for at least 30 metres.

On the west side of the valley sheared, chloritized and schistose granodiorite appears to be restricted to lower elevations. Further west and at higher elevation lies a sequence of interbedded green chlorite-calcite-schist, rusty weathering quartz-sericite schist and black fissile quartz-graphite schist. The chloritic schist predominates. No sense of bedding was determined. This sequence may represent unmapped Eagle Bay Formation in this region.

Mineralization and source of anomaly

At a small stream (Sample site SE 108) several boulders of rusty quartz feldspar pegmatite and a subcropping of rusty dark gray schist were observed to contain an estimated 5 percent pyrite and pyrrhotite. Two millimetre disseminations of magnetite were also common. A rock chip sample from the sulphide bearing schist contains 235 ppm Cu and 126 ppm Pb which is not regarded as anomalous.

At the south end of the road approximately one-half kilometre from the above mentioned stream, feldspar-chlorite schist and quartz-sericite schist was

observed interbedded with green chloritic schist. Ankerite content appeared to be abundant giving a rusty stain to the soil. At the road turn to the west, narrow 1 to 2 centimetre wide, bedded (?) sphalerite bands were noted in bedrock. Rock sample SE 310 ran 863 ppm Pb, 15, 933 ppm Zn. This mineralization appears to lie outside and west of Cominco's CK claim block.

Recommendation:

Medium priority prospecting is recommended in the vicinity of the Zn anomalous sample and the general vicinity between Cominco's claim block and the park. The geology is favourable for a volcanogenic massive sulphide target. More mineralization may be uncovered by prospecting the old logging roads, especially in early spring before the leaves are fully out and the fireweed has grown tall.

Anomaly: Upper Mad River (#P-81)

Geochem Samples: CL 625 60 W

629 202

631 25

Location: NTS: 82M/14

Lat: 51°48' Long: 119°25'

This tungsten anomaly is located on the upper Mad River drainage, seven kilometres directly northwest of Avola on the Yellowhead Highway.

Access:

Access to this area is by logging road north along the Mad River valley from the Yellowhead Highway turnoff 10 kilometres north of Vavenby. A faster alternative route is by high speed logging road starting at Avola. This road climbs north up the slope, then swings west into the upper Mad River valley and up out the high plateau country west of the valley.

General Geology:

The region in the upper Mad River has been mapped as undivided Shuswap Metomorphic Complex rock.

In following up the anomaly, roadside geology was briefly mapped as indicated in accompanying Figure 12. An unmapped leucocratic porphyritic quartz monzonite stock underlies much of the area. Country rocks to the intrusive stock include quartz-feldspar-biotite gneiss, amphibolite, thin beds of pyritic meta-rhyolite and green blasto-porphyritic hornblende-feldspar-gneiss with pink K-spar megacrysts and pink veinlets. The latter predominates on the west side of the Mad River. At the north end of the stock an interesting combination of

interbedded quartz-feldspar-biotite gneiss and garnet-bearing ampibolite occurs and has been staked some years back (XB claim, staked June 10, 1981 by L. Maki) the amphibolite contains up to five percent pyrite and minor chalcopyrite. Nearby thin pyritic meta-rhyolite beds are present.

Mineralization and source of anomaly:

A short steep tributary to Mad River contains 202 ppm W in the panned concentrate sample. Downstream river dispersion diluted the anomaly to 25 ppm W.

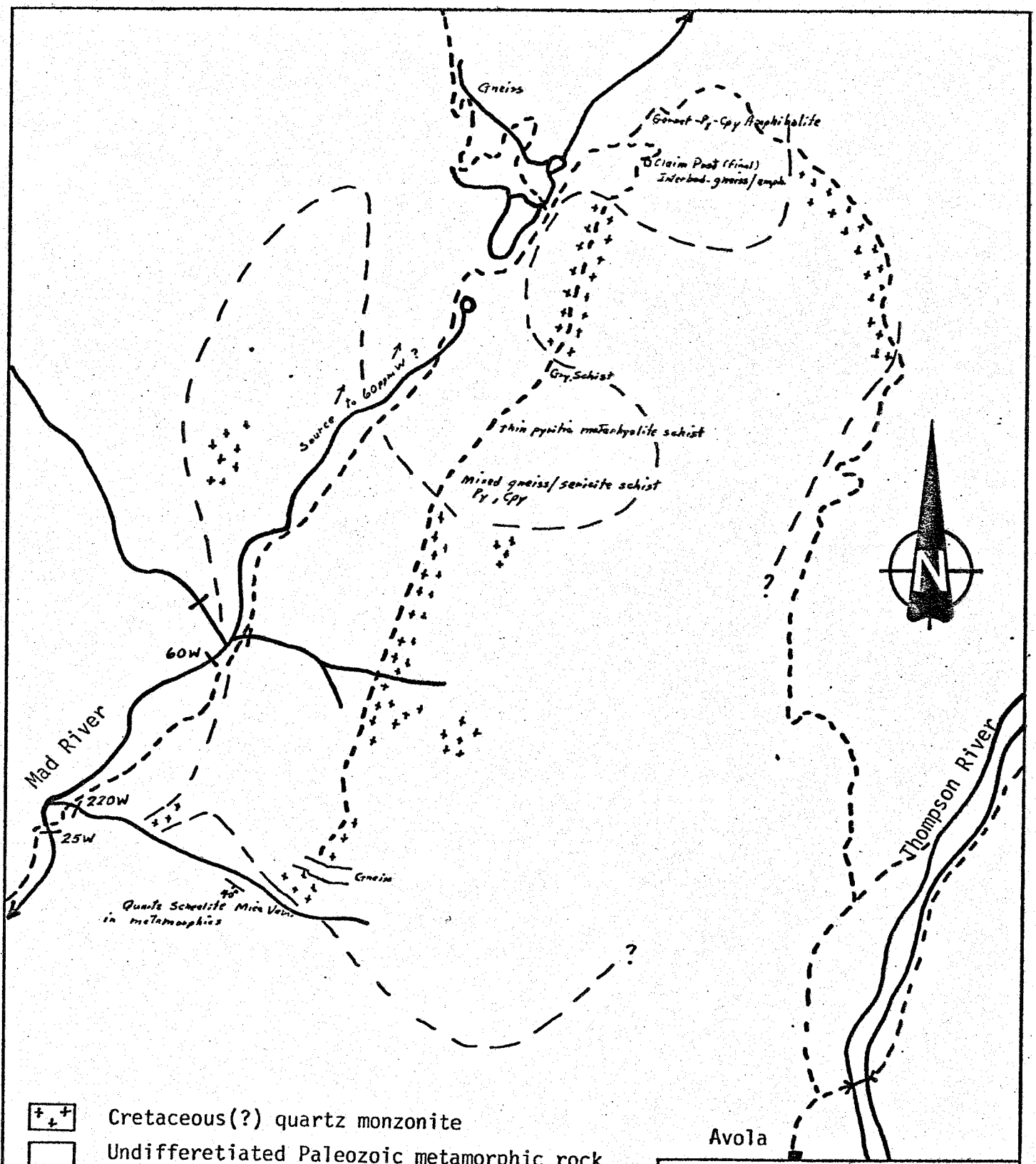
By prospecting down the stream, a partial source to the anomaly was discovered. Minor quartz-muscovite-scheelite veins are present in hornfels altered, quartz-feldspar-biotite gneiss intruded by minor quartz monzonite sills and dykes. The amount of scheelite noted in float boulders and in bedrock does not, however, fully account for the high value of the tungsten anomaly.

The 60 ppm W anomaly obtained one and one-half kilometres further upstream on the Mad River remains unexplained.

Recommendation:

No further tungsten prospecting is recommended.

The interbedded amphibolite/quartz-feldspar-biotite gneiss sequence underlying the XB claim is of significance for volcanogenic base metal targets. Monitoring the claim ownership and learning more about its geology, is recommended possibly through examination of any assessment reports as well as geological examination on the ground.



Cretaceous(?) quartz monzonite

Undifferetiated Paleozoic metamorphic rock

60W Geochemical stream sample (W ppm)

Road

0 .5 1 2 3 Km

82 M/14

Kidd Creek Mines Ltd.

Upper Mad River

WORK BY	DRAWN BY	DATE:

Figure: 12

NCI - 556

Anomaly: Cayuse Creek (#P-10)

Geochem Samples:	AW	139	843 W	9 Mo
		1003	116	
		1005	66	
		1007	114	

Location: NTS: 82F/5

Lat: 49°26' Long: 116°56'

The Cayuse Creek anomaly is located 22 kilometres northwest of Castlegar.

Access:

The Cayuse Creek anomaly can be reached by road via the Lower Arrow-Lake Road that extends from Robson to Deer Park along the north side of the Columbia River and beyond. Access to the upper reaches of Cayuse Creek is possible by a series of logging roads which roughly parallel the creek within one kilometre.

General Geology:

The Cayuse Creek anomaly is underlain by Cretaceous Nelson batholith and scattered, large roof pendants of Pennsylvanian(?) Mount Roberts Formation. The Nelson batholith in the Cayuse Creek area consists mainly of nonporphyritic grey quartz monzonite, but granite and granodiorite float are common in the creek. The Pennsylvanian(?) Mount Roberts Formation consists of slate, limy argillite, argillaceous quartzite, greenstone, limestone and their metamorphosed equivalent. The northern roof pendant consists of dark grey to purplish fine-grained laminated argillaceous quartzites, black fissile argillite and massive andesite with occasional basalt flows and minor interflow limestones.

Mineralization:

The type of mineralization encountered in prospecting the Cayuse Creek area consists of fine-grained scheelite disseminated in fractures within quartz monzonite over a large area. Traces of galena and chalcopyrite disseminations in approximately ten percent pyrite were found in metamorphosed massive andesite stream float.

Recommendation:

Additional work is recommended, to be carried out on the contact zone between the Nelson quartz monzonite and the Mount Roberts Formation to see if scheelite-bearing skarns similar to the Groundhog showing (8 km from Deer Park) have developed. H.W. Little has reported coarsely crystalline limestone bands less than 30 metres thick, being altered to skarn or tremolite rock in the Cayuse Creek area. The work should consist of prospecting for skarns and lamping.

Anomaly: Hoder Creek and Vallican (#P-50, P-48 and P-57)

Geochem Samples:	AW	299	45 W
		303	16
		313	10
	MC	93	121
		353	13
		355	16
		357	13

Location: NTS: 82F/12-13

Two anomalous areas are respectively located as follows: (P-50 and P-48) 21 kilometres west of Slocan on upper Hoder Creek, at the mouth of Hoder Creek, and (P-57) underlies the three small creeks draining the west side of the Slocan valley, immediately north of Vallican.

Access:

Access to the first two of the anomalous areas can be gained by road from Passmore by following Little Slocan River northeast as far as Upper Little Slocan Lake and then up Hoder Creek. Alternatively, a road runs southwest from Slocan toward Upper Little Slocan Lake to connect with the Hoder Creek logging roads. The last anomaly can be reached by paved road north of Vallican.

General Geology

The anomalous areas are underlain by the Valhalla and Passmore Gneiss Complexes which consist of a succession of (low angle dip) heterogeneous domes ranging in composition from leucogranite to granodiorite gneiss with interlayered quartzite, pelitic schist, calc-silicate and marble

quartzite, pelitic schist, calc-silicate and marble bands. The Valhalla and Passmore domes are part of a belt of gneissic domes which core the Shuswap Metamorphic complex.

Mineralization and Source of Anomaly

The tungsten anomalies in both areas are associated with the presence of calc-silicate bands found within the gneiss domes. These calc-silicate bands range vary in composition locally forming coarse grained diopside- plagioclase-scapolite gneiss. The calc-silicate bands observed during anomaly follow-up consist of light olive green scapolite-diopside marble which appears to have undergone some retrograde reaction to epidote with trace amounts of scheelite. Pseudomorphs of diopside up to 20 cm were found in one area displaying retrograde metamorphism.

Recommendations

Since only minor amounts of scheelite were found, to be associated with calc-silicate-skarn bands, no further work is recommended on the Hoder Creek or Vallican tungsten anomalies. The same can be said by analogous geology for the area underlain by three tungsten anomalous streams immediately north of Vallicah.

Name of Area: Upper Dewar Creek (#P-56)
Geochem Samples: eg. Cl 217, 262 W, 2,000 Au
Numerous creeks anomalous in W, La, Th, As
Location: NTS: 82F/16
Lat: 49°53' Long: 116°41'

The Upper Dewar Creek anomaly is located 47 kilometres northwest of Kimberley on Dewar Creek near the junction of the Purcell Wilderness area with St. Mary's Park.

Access

There is road access to the Upper Dewar Creek anomaly via the Dewar Creek spur of the St. Mary's logging road system which starts immediately north of the village of Marysville. The Dewar Creek logging road spur runs to the Purcell Wilderness Conservancy boundary in the headwaters of the creek. Use of a helicopter based either out of Cranbrook or Nelson, respectively 60 and 74 km distant allows access to higher terrain.

General Geology:

The Upper Dewar Creek anomaly is underlain by cretaceous White Creek Batholith granodiorite and Purcell Creston Formation consisting of green and grey weathering argillaceous quartzites, metasiltstones and argillites.

The biotite granodiorite stock consists of approximately 45% plagioclase, 15% microcline, 15% quartz, 17% biotite and 2% muscovite and hornblende. It contains an average of 15% phenocrysts one to two cm in size, most of which are potash feldspar. Near its contact with the Creston Formation the granodiorite becomes non-porphyritic and finer grained with an increase in microcline content in the matrix.

Only the upper portion of the Creston Formation is present in East Dewar Creek. It consists of light and dark green, fine-grained argillaceous quartzites and argillite interbedded with purple argillite. This grades upward into a complete series of purple, grey and white fine-grained argillaceous quartzites and argillites. High magnetite content in pan concentrate samples from Dewar, St. Mary's and White Creeks is due to the presence of magnetite-rich bands containing crystals up to 2 mm in size found in the upper Creston Formation.

At the granodiorite contact zone development of phyllite and phyllitic quartzite has taken place and a large number of xenoliths are present in the granodiorite. Xenoliths in the biotite granodiorite consist of hornfels, recrystallized quartzites, calc-silicates, skarn and hornblendite.

Mineralization

In following up the tungsten anomalous drainages, the tungsten source has been traced to a calcsilicate skarn band and several quartz veins. The calc-silicate skarn band is one and one-half metre in width underlain by two metres of clean quartzite. The skarn has been traced for a distance of 100 metres in the biotite granodiorite. The calc-silicate skarn band was originally a dolomitic quartzite which has been metamorphosed into epidote-clinozosite-calcite skarn contains only trace amounts of scheelite.

The second source of tungsten mineralization is the presence of scheelite-bearing quartz veins similar to those of Upper White Creek. These veins occur within granodiorite and dip at shallow angles in the centre of the batholith.

Recommendation:

Since no significant grades of tungsten mineralization appear to be present as the source for the tungsten anomalous creeks, no further work is recommended for most of this area. However, more follow-up work is recommended to determine the source to Sn-W anomaly (54 and 79 ppm respectively) on the large tributary coming in from the west at the south end of the main anomaly.

Anomaly: Upper White Creek (#P-58)

Geochem Samples:	MC 201	551 W	66 Sn
	205	609	12
	209	399	
	213	645	

Location: NTS: 82F/16

Lat: 49°49' Long: 116°14'

The Upper White Creek anomaly is located 26 kilometres northwest of Kimberley on the east side of White Creek; bounded to the north by St. Mary's Alpine Provincial Park, the east by the Purcell Wilderness Conservancy and the south by Mt. Buhl, which is open ground.

Access:

Access to the lower parts of the White Creek anomaly can be gained by a 4-wheel drive road which runs along the east of White Creek. The White Creek road can be reached via the St. Mary's River road which begins immediately north of the village of Maryville, now within the city limits of Kimberley.

Best access to the anomalous area above the 7500 foot treeline; is by helicopter. The closest permanent helicopter base is located at the Cranbrook Airport, 38 kilometres distant.

General Geology

The Upper White Creek tungsten anomaly is underlain by leuco-quartz monzonite and to biotite granodiorite phases of the Cretaceous White Creek Batholith at the north end of the anomaly and by the

Aldridge, Creston and Kitchener Formations sediments of the Purcell Supergroup to the south.

The White Creek Batholith consists of a leuco-quartz monzonite core which grades into highly porphyritic quartz monzonite and in turn grades into hornblende biotite granodiorite near the outer contact. The core phase leuco-quartz monzonite, found in the extreme northern part of the tungsten anomaly situated along the St. Mary's Park boundary, consists of light grey coloured medium- to coarse-grained equigranular quartz monzonite with less than five percent biotite and muscovite. Transition to porphyritic quartz monzonite occurs over a distance of 500 metres with increasing number and size of microcline phenocrysts (to 20 to 40 percent by volume) and increasing biotite content with a decrease in quartz and muscovite. Porphyritic quartz monzonite and hornblende biotite granodiorite grade into each other over some 500 metres, with development of hornblende and the increasing amount of biotite and disappearance of muscovite, and a decrease in number of phenocrysts. There is a transition to biotite granodiorite 200 to 300 metres from the intrusive contact. Within ten metres of the contact the biotite granodiorite becomes nonporphyritic and fine-grained.

The Upper Aldridge Formation consists of a sequence of thin beds of fine-grained, grey, cream- to purplish-grey quartzite interbedded with various amounts of argillite and argillaceous quartzite.

The Creston Formation, found directly east of the Aldridge across the Mall Lake fault, consists of green and grey weathering, green-grey and purple argillaceous quartzite, metasiltstone and argillites.

The Kitchener Formation is found east of the Creston and consists of thin, laminated buff weathering, dolomitic and calcareous quartzite, siltstone and argillite, cream to buff dolomite and minor, black limestone.

The metamorphic aureole surrounding the White Creek Batholith is usually less than 200 metres in the case of the Aldridge and Creston Formations. Slight increase in grain size and conversion of argillite and argillaceous sediment to phylites and phylitic sediments is the result of thermal alteration. The contact metamorphism of the Kitchener Formation is more dramatic. Development of alternating bands of fine-grained garnet epidote, quartzite and marble with the occasional tremoliteactinolite schist can be found within 100 metres of contact. Farther from the contact zone, the Kitchener Formation becomes a confused mass of recrystallized, fine quartz mica and carbonate minerals.

The Aldridge, Creston and Kitchener Formations are gently deformed into open folds within one kilometre of the contact zone. Near the contact they are deformed into vertical isoclinal folds which are contorted into drag folds at the contact zone.

Mineralization and source of anomaly

Mineralization found within the Upper White Creek anomaly consists of a large area of scheelite-bearing quartz vein material and a smaller area of molybdenite-bearing quartz veins. The major source to the scheelite found in the anomalous panned samples is believed to be from quartz veins. Subordinate tungsten contribution comes from skarns and calc-silicates of the

White Creek Batholith Kitchener Formation contact. Where examined, skarns contain only trace amounts of scheelite. The scheelite-bearing quartz veins are generally 4 to 8 cm wide containing half to 10% scheelite, coarse 3-D crystals in the central portion of the vein with outer (1/2 to 1 cm wide) coarse muscovite rims. The scheelite-bearing veins may or may not contain pyrite between scheelite core and muscovite border region. Small quartz veins (1 to 3 cm in width) with muscovite borders and pyrite cores do not contain any scheelite. The scheelite-bearing veins plus the pyrite core quartz veins with muscovite borders seem to be part of an igneous joint set that dips slightly to the north at a very shallow angle.

The molybdenite-bearing veins are restricted to a small area of 100 by 100 metres. This area contains nonporphyritic hornblende-biotite granodioritic with large clots of hornblende 3 to 6 cm, surrounded by a porphyritic equivalent? of the same lithology. The molybdenite occurs along quartz vein selvages.

Recommendations:

No further work is recommended on the Upper White Creek anomaly because scheelite and molybdenite mineralization are too widely dispersed to be of economic potential, nor does there appear to be a likelihood of an economic tungsten concentrated based on geological observations.

APPENDIX D

PROPERTY INFORMATION FORMS

1. ARROW TUNGSTEN
2. EMILY CLAIM
3. KENA CLAIM

PROPERTY INFORMATION FORM

H.T.S. Index No. 82F/6 DATE Jan. 25, 1983

NAME: Arrow Tungsten part of Ymir Molybdenite property.

LOCATION ~3 km west of Ymir, BC
Access by Stewart Creek road.

CLAIMS Covered by Stewart 2 (20 units) claim good until 1986. - part of Shells Stewart Group covering the Ymir molybdenite property.

OWNERSHIP Eric Denny, RR#1, Nelson, B.C. V1L 5P4
Optioned by Selco Canada in mid 1982 and includes this prospect.

PRESENTED BY Eric Denny Nelson, B.C.

NEARBY PROPERTIES Ymir molybdenite property includes this showing. MoS_2 property is shallow high grade deposit - minimum outlined 204,000 tonnes of 0.37% MoS_2.

IS $30,000 down and escalating work commitment of $75,000 - 1983 etc

REPORTS SUBMITTED Shells Project Reports for 1979, 1980, 1981 (on file)

OTHER SOURCES OF INFORMATION Old copy of Premier Gold Mines assay plans
BC. Dept. Mines Bull. No. 10 Tungsten Deposits of BC p151-152
GSC Econ. Geol. Report. No. 17 Tungsten Deposits of Canada pp115, 116 Fig 18.

HISTORY 1940s surface exploration by Premier Gold Mines and Cominco
1950s Arrow Tungsten Mines put in 190 foot adit and 90 foot raise
1978 Shell Canada optioned molybdenite showing 300 m south plus this showing.
1982 Selco Canada took over Shell's option to project.

PREVIOUS EXAMINATION None.

GEOLOGY Jurassic Hall Formation argillaceous quartzite and argillite anticline within east limb. Strata strike north with subvertical dip. Small Cretaceous quartz monzonite stock and related breccia pipe within 1 km south.
About 900 m of north trending skarn is target of significance - 3 to 12 feet wide

NATURE OF DEPOSIT Tungsten bearing skarn with sphalerite in places.
Skarn is garnet-pyroxene exoskarn type traced continuously over 200 feet, with average width of 2 to 3 feet. Traced intermittently over another 600 feet. Dips 65°E to 85°W (subvertical)

EXPLORATION AND DEVELOPMENT Underground adit, surface trenching and sampling.
Plans on file. No data on underground sampling.
Some of the best surface assays are:

Trench	4A	3.4 feet	of	1.14% WO_3	
Trench	7	2.7 feet	of	1.30% WO_3	
Trench	9 north end	3.6 feet	of	0.84% WO_3	along a 27' strike length of 27 feet
Trench	9 south end	2.7 feet	of	0.84% WO_3	along a 32' strike length of 32 feet
Trench	9A	5.3 feet	of	1.08% WO_3	along a 15' strike length of 15 feet
Trench	10 west	6.3 feet	of	1.64% WO_3	along a 30' strike length of 30 feet

ORE RESERVES None

EXPLORATION POTENTIAL Depth potential beneath existing surface mineralization could easily exceed an estimated ½ million tons if mineralization extends below 300 feet vertical.

OTHER PERTINENT FEATURES Quartz Monzonite stock terminates skarn to the south. On the North Stewart Ck eroded geology 600 feet down from surface exposures.

EQUIPMENT AND FACILITIES None

ECONOMICS Very good — service and supply centres nearby.

CONCLUSIONS Under improved economic times depth potential could be justified given the vagaries of skarn deposits and reasonably good location of prospect.
This could be done with a small low cost drilling programme.

EXAMINED BY S. Enns
DATE OF EXAMINATION June 10, 1982

PROPERTY INFORMATION FORM

N.T.S. Index No. 82 F/11 DATE JUNE 11/82

NAME: EMILY

LOCATION Kokanee Ck - approx 7 miles north of north shore road at the West Arm of Kootenay Lake

CLAIMS EMILY 16 UNITS

OWNERSHIP WILLIAM P KOOPMAN, 405 HOWE ST., Nelson B.C. Phone 352-7798

PRESENTED BY William P. Koopman

CARBY PROPERTIES

IS Negotiable - approx. several thousand dollars outright

REPORTS SUBMITTED

OTHER SOURCES OF INFORMATION

STORY 1935 - Nancy Claims - owned by Cominco - work for gold + silver

PREVIOUS EXAMINATION None

GEOLOGY Property underlain predominantly by Nelson Plutonic Rocks. A small roof pendant of the Kaslo Group (phyllites, argillites, limestone) occurs on the property. Of the small amount of property seen only several small patches of skarn were observed

NATURE OF DEPOSIT Very local patches of skarn contain both black jack sphalerite and scheelite. Four samples were taken, 3 of which were sent in for assay. Emily 1 (assay #53751) - fine grained intrusive containing 2-3% diss pyrite; Emily 2 (assay # 53751) - scheelite (?) bearing skarn with abundant pyrite and minor sphalerite; Emily 3 (assay #) - sphalerite (10-15%) and scheelite (?) bearing skarn; Emily 4 - skarn with no scheelite or sphalerite - Thomas - Brown (Cominco, 1935) mentioned potential for gold-silver within carbonates of the Nancy Claims - no limestone was seen during a very cursory examination.

EXPLORATION AND DEVELOPMENT Mr. Koopman has completed very little work. He sampled the known showings and sent them for assay. One sample allegedly ran 18% zinc however this is unconfirmed as the prospector was unable to find his assay sheets.

ORE RESERVES

EXPLORATION POTENTIAL Difficult. The property lies over Goat Bluffs which are extremely steep and hazardous. The known showings are at the base of the bluff.

The claims are also located at the southern boundary of Kokanee Glacier Provincial Park.

OTHER PERTINENT FEATURES

~~EQUIPMENT AND FACILITIES~~ Assays: - grab samples

ECONOMICS

Sample	Mo%	Cu%	Pb%	Zn%	Ag oz/ton	W%	Au oz/ton
53751	.003	.01	.01	3.49	.07	.78	.001
53752	.003	.02	.01	6.05	.17	.49	.003
53753	.001	.01	.01	.01	.12	.01	.001

CONCLUSIONS The property has some potential based on the mineralized skarn areas. Results of previous assays as well as the three collected should be seen before any final recommendations can be made.

EXAMINED BY Pete Leriche

DATE OF EXAMINATION June [illegible]

PROPERTY INFORMATION FORM

N.T.S. Index No. 82F/6 **DATE** July 1/82

NAME KENA CLAIM Nelson MD

LOCATION At 4500 ft elevation, 2 to 4 mi S of Nelson BC. Toad Mountain area

CLAIMS Rain 1, 2, 3. Kena 7, 18-25 Holds about 50-60 units equivalent. Mixed MGS and Two-Post claims.

OWNERSHIP Otto Janout 1509 Martin St Apt 310 White rock, BC V4B 3W8
John Brock, Esperanza (Welcome North) & Don MacDonald Vanc. Each about 1/3 interest.

PRESENTED BY Otto Janout

NEARBY PROPERTIES Silver King - old producer 1889-1948 15x10⁶ Lb Cu, 4.5 x10⁶ oz Ag, 280 oz Au - 2 miles west.

TERMS Sought: Janout retains 20% KCM can earn 80% by escalating option payments (15,000 25000 etc) over 5 yr totalling 250,000 and escalating work commitment ([illegible]) At feasibility Janout has option to contribute 20% or revert to 15% Net Profit.

REPORTS SUBMITTED Kerr Addison - Sirola 1982
Quintanna - P. Dunn 1978
Lacana - D. Johnson 1974

OTHER SOURCES OF INFORMATION BC MM Annual Reports

HISTORY Old workings are present in the Kena area - old Pactolus claim
1974-75 Ducanex - Lacana: 4 percussion holes (820') geologic mapping and extensive soil survey - Au expl'n
1975-77 Quintana Minerals: Detailed mapping, surface sampling, IP survey - Cu exploration
1981 Kerr Addison: Geol mapping, expanded soil survey, drilling of 6 holes (3 in Au zone, 3 in Cu zone)

PREVIOUS EXAMINATION G. Peatfield Oct. 74

GEOLOGY Sequence of Jurassic Rossland volcanics consisting of massive green andesite, moderate to highly sheared andesite, porphyritic andesite (90% phenocrysts), chlorite schists and chlorite sericite schists. Units mapped as felsic flows in one place are qtz-py-ser schist which produces a very rusty red soil and has been determined to be Au bearing on surface. This unit is interbedded with green andesitic lapilli tuffs. The Silver King Porphyry (Fdsp) conformably lies within the sequence.

NATURE OF DEPOSIT Two mineral zones - a NW Au zone and SE Cu zone have been defined 1 km apart.
The Cu zone is indicated to be of low grade by drilling (0.25%)
The Au zone in sericite - py schist ~~wit~~ bands within green chloritic lapilli tuffs appe to be a low grade possibly underground Au target (+ 0.1 oz Au)
Silicification, pyrite and possibly chloritization appear to accompany Au mineralization in drill core. Dolomitization? (Fe CO_3) appears to be present but unrelated directly to Au mineralization.

EXPLORATION AND DEVELOPMENT
Cu zone - chip sample and drill indicated to be low grade averaging <.25% Cu over substantial widths. Mineralization is chalcopyrite stringers and fracture filling in altered volcanics
Au zone - Au appears to be associated with introduced pyrite accompanied by silicification and sericite. Best drill intersection is 18 m of 0.06 oz Au at 75 m vertical depth. Trenching revealed 32.5 m of 0.07 oz Au (with grabs up to 0.2 oz Au)

ORE RESERVES None

EXPLORATION POTENTIAL NW extreme Au zone has been tested by Kerr-Addison (KK-1 to KK 3) one of 3 holes penetrating the mineralized zone (KK 2)
Favourable lithologic unit mapped as unit A. Felsic [illegible] extends approximately 1 km and poses as the obvious exploration target for further step-out drill testing. Other lenses have been mapped on the property.

OTHER PERTINENT FEATURES Access is by an old mining/logging road. An improved logging road has been surveyed across the property.
The mineralized zone may well consist of discontinuous lenses of Au mineralization which could prove difficult to prove into a minable [illegible]. This is indicated by section DDH KK-2 attached.

EQUIPMENT AND FACILITIES None - road [illegible]

ECONOMICS Considered to be very good for this area. Nelson as mining supply centre lies 2 miles north of property.

CONCLUSIONS The Cu target is too low grade to be of interest
The Au zone is a moderately interesting relatively straightforward exploration bet for possibly some IP work and drilling to test for eastern extension of Au mineralization.
Esperanza and MacDonald interest in property make the deal intuitively less attractive.
Because of corporate hard times Kidd Creek Mines Ltd will decline an interest at this time

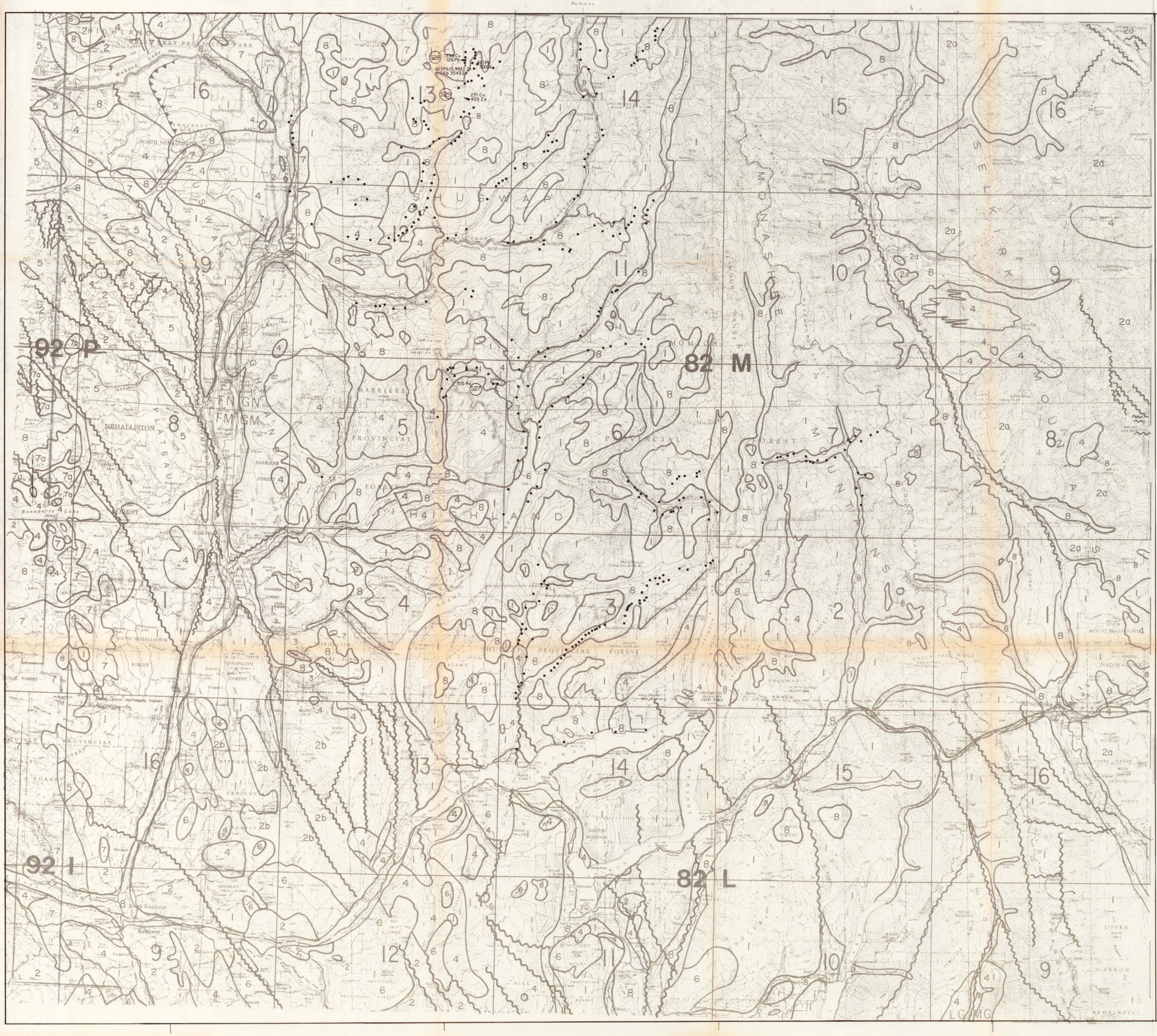
EXAMINED BY S. Enns and Alfred Winkler
DATE OF EXAMINATION June 24, 1982

APPENDIX E

SUMMARY OF PROJECT EXPENDITURES

APPENDIX E SUMMARY OF PROJECT EXPENDITURES

03	Camp Expense	$ 20,124
04	Shipping and Storage	302
05	Travel	3,795
07	Office and Technical Supplies	2,098
08	Communications	1,230
13/16	Geochemical and Assaying	18,271
17	Auto and Maintenance	11,671
19	Helicopter	12,065
21	Equipment Purchase and Maintenance	3,732
01	Wages	44,722
	Other	2,040
		$120,050



LEGEND

QUATERNARY

- 8 — Glacial till, lacustrine and fluviatile gravel, sand, silt and clay.

TERTIARY

- 7 — Plateau basalts, olivine basalt
- 7a — Kamloops Group
- 6 — Volcanic flows with interbedded sedimentary rocks;
- 6a — Conglomerate, sandstone, shale and tuff

JURASSIC

- 5 — Arenite, siltstones, conglomerate, sandstone

JURASSIC-CRETACEOUS

- 4 — NELSON-VALHALLA: and equivalent granitic plutonic rocks

JURASSIC

- 3 — Mafic and ultramafic intrusive rocks, pyroxenite, hornblendite, serpentinite

PALEOZOIC (including Upper PROTEROZOIC and TRIASSIC)

- 2 — Basaltic and andesitic lavas, greenstone, tuff, quartzite, limestone and argillite; includes Eagle Bay Formation and Sicamous Formation
- 2b — CacheCreek Group
- 2a — Quartzite, argillites, limestone, slate, schist, phyllite, sandstone and conglomerate

PROTEROZOIC (SHUSWAP TERRANE)

- 1 — Gneiss, schist, quartzite, marble, slate, argillite. Upper part includes Tshinakin Limestone.

GEOLOGICAL BOUNDARY . . . .

FAULT . . . .

- Sample locality
- Anomalous sample, upstream indicated values as indicated (ppm)

N

Kidd Creek Mines Ltd.

STREAM SILT ANOMALIES ADAMS PLATEAU SHEET

WORK BY	DRAWN BY	DATE: Jan. 1983

0 5 10 20 KM

SCALE 1:250,000

Figure: 3

LEGEND

TERTIARY

23 — TILL, Unconsolidated recent sediments

22 — Volcanic flow rocks with interbedded sedimentary rocks; conglomerate, sandstone, shale and tuff, plateau basalts, olivine basalts

21 — SHEPPARD PLUTONIC ROCKS: leuco-granite; CORYELL PLUTONIC ROCKS: syenite, minor granite, monzonite, shonkinite

MESOZOIC

20 — VALHALLA PLUTONIC ROCKS: granodiorite, minor pegmatite; NELSON PLUTONIC ROCKS: porphyritic granite, quartz diorite, syenite, diorite, monzonite, mylonite

19 — Undifferentiated unit; may include parts of unit 16 through 18; Basaltic and andesitic lavas, greenstone, tuff, quartzite, limestone and argillite

18 — ROSSLAND FORMATION: andesite, latite, basalt flow breccia, augite porphyry, agglomerate tuff, minor shale

17 — HALL FORMATION: argillite, sandstone, conglomerate; SINEMURIAN BEDS: quartzite, slate, minor flows and pyroclastic rocks

16 — KASLO GROUP: greenstone, meta-basalt and meta-andesitic flows

PALEOZOIC

15 — SLOCAN GROUP: slate, argillite, quartzite, limestone, conglomerate, tuff, phyllite; YMIR GROUP: Argillite, slate, quartzite, paragneiss; MILFORD GROUP: cherl, phyllite, sandstone, limestone, greenstone

14 — Gneiss, argillite, quartzite, greywacke, conglomerate, minor flows, pyroclastic rocks and limestone

13 — EAGER FORMATION: shale, gritty limestone, argillite; CHANCELOR GROUP: shale, limestone

12 — CRANBROOK FORMATION: quartzite, conglomerate, grit

11 — Schist, quartzite, phyllite, limestone-LARDEAU GROUP: paragneiss, greenstone, amphibolite, marble; MILFORD GROUP: conglomerate, metabasalt flows; MOHICAN FORMATION: greenstone, amphibolite

10 — MOUNT ROBERTS, ACTIVE and LAIB FORMATIONS: slate, argillite, quartzite, limestone, dolomite, phyllite, schist

9 — NEWAY, BADSHOT-MOHICAN and JUBILEE FORMATIONS: limestone, dolomite, phyllite, schist

8 — HAMILL GROUP, MARSH ADAMS, MOUNT GAINER, RENO and QUARTZITE RANGE FORMATIONS: argillaceous quartzite schist, quartzite, minor limestone

PROTEROZOIC

Windermere

7 — THREE SISTERS FORMATION, HORSETHIEF CREEK GROUP: slate, argillite, conglomerate, quartzite, grit, sandstone, arkose, limestone; MONK FORMATION: phyllite, schist

6 — IRENE VOLCANIC FORMATION: greenstone, minor argillite, limestone; HORSETHIEF CREEK SERIES: andesitic volcanic rocks

5 — TOBY FORMATION: conglomerate, minor argillite, limestone

Purcell

4 — MOUNT NELSON FORMATION: dolomite, argillite, shale, quartzite

3 — DUTCH CREEK and KITCHENER-SIYETH FORMATIONS: argillite, dolomite, quartzite

2 — CRESTON and ALDRIDGE FORMATIONS: argillaceous quartzite, quartzite, argillite

1 — SHUSWAP METAMORPHIC COMPLEX: gneiss, quartzite, schist, marble, amphibolite, pegmatite

GEOLOGICAL BOUNDARY . . . . . .

FAULT . . . . . .

• Sample locality

Anomalous sample, upstream indicated values as indicated (ppm)

Kidd Creek Mines Ltd.

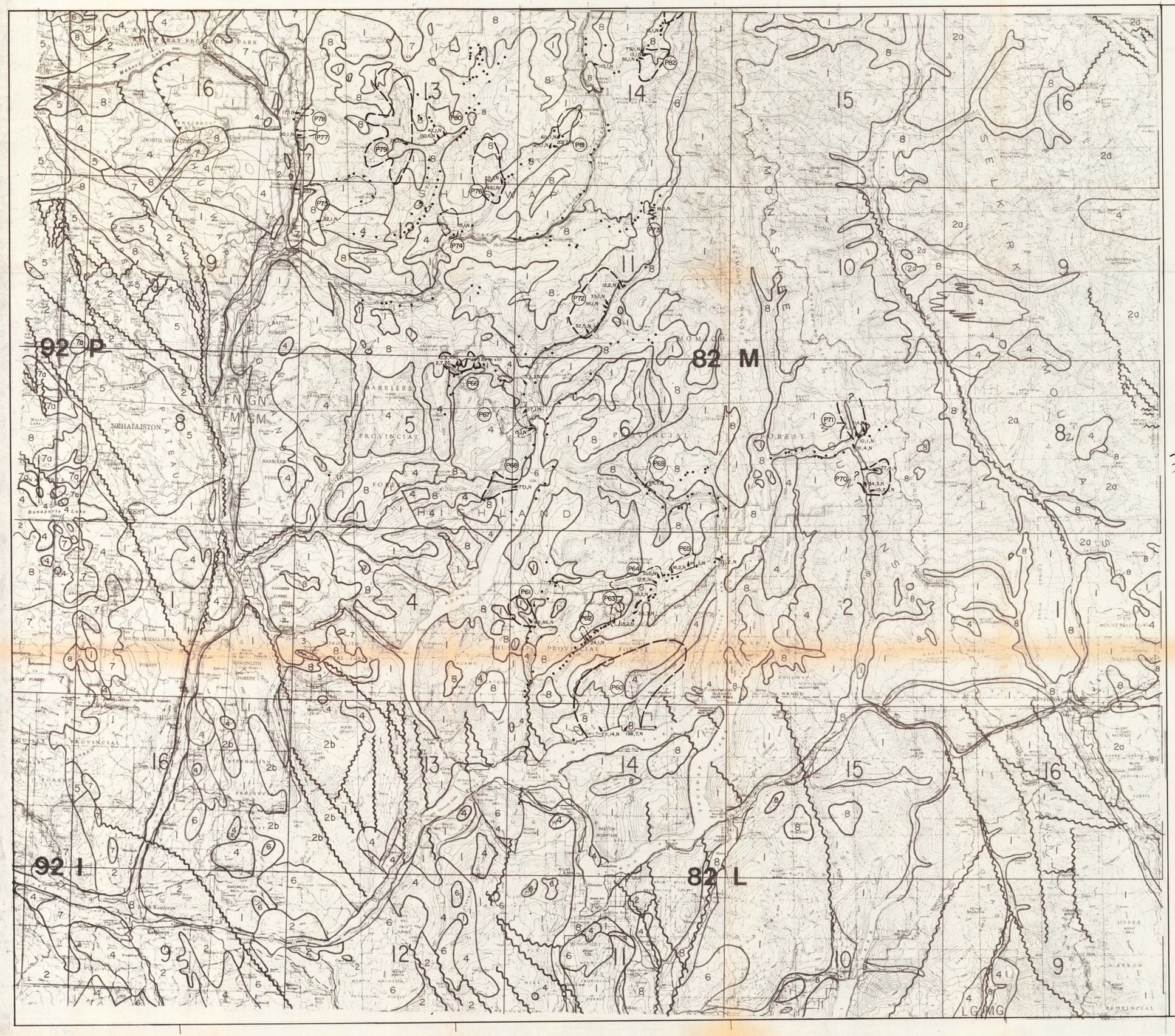
STREAM SILT ANOMALIES KOOTENAY SHEET

WORK BY	DRAWN BY	DATE: Jan. 1983

0 5 10 20 KM

SCALE 1:250,000

Figure: 7



LEGEND

QUATERNARY

8	Glacial till, lacustrine and fluviatile gravel, sand, silt and clay.

TERTIARY

7	Plateau basalts, olivine basalt
7a	Kamloops Group
6	Volcanic flows with interbedded sedimentary rocks;
6a	Conglomerate, sandstone, shale and tuff

JURASSIC

5	Arenite, siltstones, conglomerate, sandstone

JURASSIC-CRETACEOUS

4	NELSON-VALHALLA: and equivalent granitic plutonic rocks

JURASSIC

3	Mafic and ultramafic intrusive rocks, pyroxenite, hornblendite, serpentinite

PALEOZOIC (including Upper PROTEROZOIC and TRIASSIC)

2	Basaltic and andesitic lavas, greenstone, tuff, quartzite, limestone and argillite; includes Eagle Bay Formation and Sicamous Formation
2b	CacheCreek Group
2a	Quartzite, argillites, limestone, slate, schist, phyllite, sandstone and conglomerate

PROTEROZOIC (SHUSWAP TERRANE)

1	Gneiss, schist, quartzite, marble, slate, argillite. Upper part includes Tshinakin Limestone.

GEOLOGICAL BOUNDARY . . . . . .

FAULT . . . . . .

Sample locality

Anomalous sample, upstream indicated, anomalous values W, Sn,(ppm) Au,(ppb) N=not detected

Anomaly priority designation: A
B
C

Kidd Creek Mines Ltd.

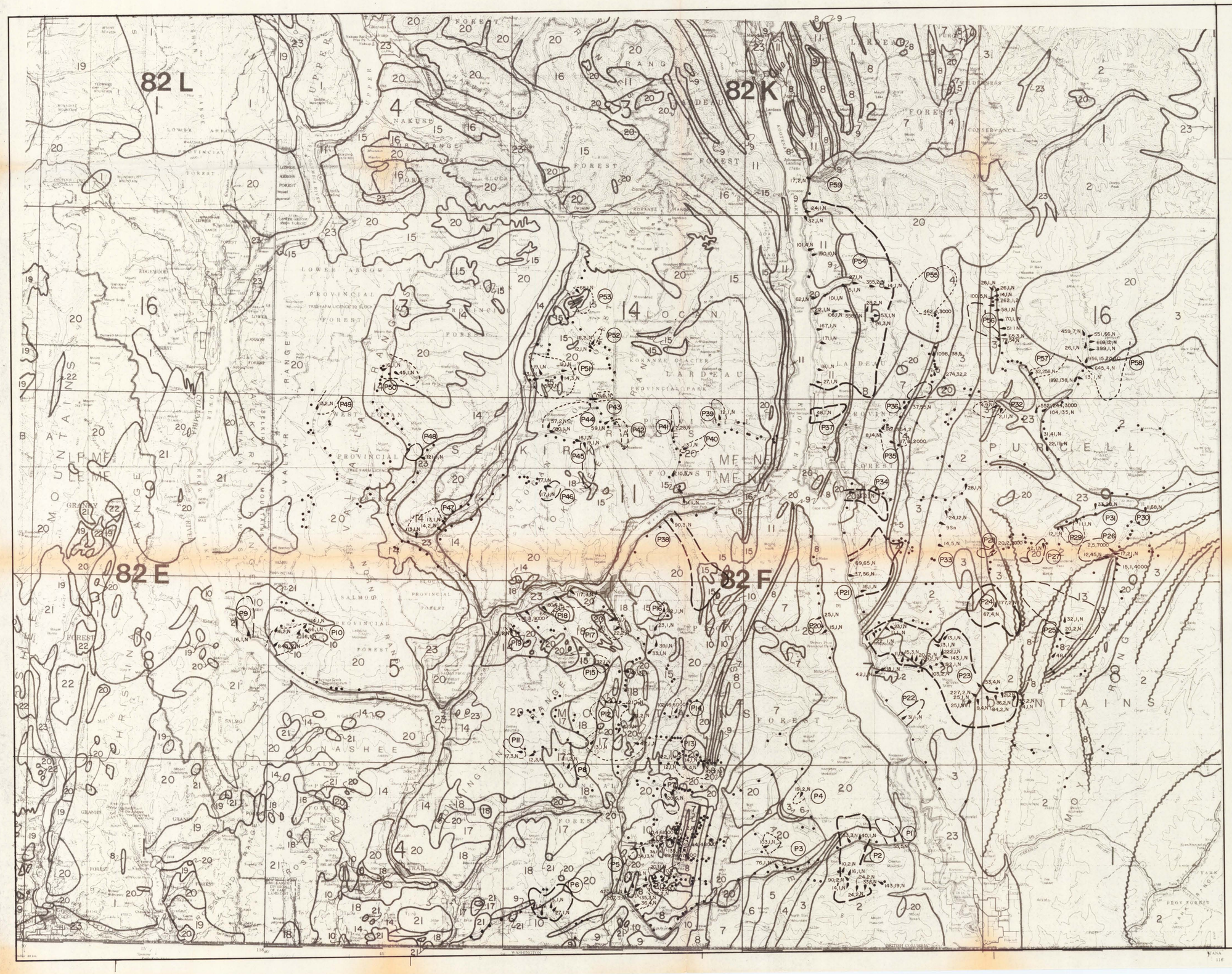
PANNED CONCENTRATE ANOMALIES ADAMS PLATEAU SHEET

WORK BY	DRAWN BY	DATE: Jan. 1983

0 5 10 20 KM

SCALE 1:250,000

Figure: 6



LEGEND

TERTIARY

23 — TILL, Unconsolidated recent sediments

22 — Volcanic flow rocks with interbedded sedimentary rocks; conglomerate, sandstone, shale and tuff, plateau basalts, olivine basalts

21 — SHEPPARD PLUTONIC ROCKS: leuco-granite; CORYELL PLUTONIC ROCKS: syenite, minor granite, monzonite, shonkinite

MESOZOIC

20 — VALHALLA PLUTONIC ROCKS: granodiorite, minor pegmatite; NELSON PLUTONIC ROCKS: porphyritic granite, quartz diorite, syenite, diorite, monzonite, mylonite

19 — Undifferentiated unit; may include parts of unit 16 through 18; Basaltic and andesitic lavas, greenstone, tuff, quartzite, limestone and argillite

18 — ROSSLAND FORMATION: andesite, latite, basalt flow breccia, augite porphyry, agglomerate tuff, minor shale

17 — HALL FORMATION: argillite, sandstone, conglomerate; SINEMURIAN BEDS: quartzite, slate, minor flows and pyroclastic rocks

16 — KASLO GROUP: greenstone, meta-basalt and meta-andesitic flows

PALEOZOIC

15 — SLOCAN GROUP: slate, argillite, quartzite, limestone, conglomerate, tuff, phyllite; YMIR GROUP: Argillite, slate, quartzite, paragneiss; MILFORD GROUP: chert, phyllite, sandstone, limestone, greenstone

14 — Gneiss, argillite, quartzite, greywacke, conglomerate, minor flows, pyroclastic rocks and limestone

13 — EAGER FORMATION: shale, gritty limestone, argillite; CHANCELOR GROUP: shale, limestone

12 — CRANBROOK FORMATION: quartzite, conglomerate, grit

11 — Schist, quartzite, phyllite, limestone-LARDEAU GROUP: paragneiss, greenstone, amphibolite, marble; MILFORD GROUP: conglomerate, metabasalt flows; MOHICAN FORMATION: greenstone, amphibolite

10 — MOUNT ROBERTS, ACTIVE and LAIB FORMATIONS: slate, argillite, quartzite, limestone, dolomite, phyllite, schist

9 — NELWAY, BADSHOT-MOHICAN and JUBILEE FORMATIONS: limestone, dolomite, phyllite, schist

8 — HAMILL GROUP, MARSH ADAMS, MOUNT GAINER, RENO and QUARTZITE RANGE FORMATIONS: argillaceous quartzite schist, quartzite, minor limestone

PROTEROZOIC

Kindemere

7 — THREE SISTERS FORMATION, HORSETHIEF CREEK GROUP: slate, argillite, conglomerate, quartzite, grit, sandstone, arkose, limestone; MONK FORMATION: phyllite, schist

6 — TRENE VOLCANIC FORMATION: greenstone, minor argillite, limestone; HORSETHIEF CREEK SERIES: andesitic volcanic rocks

Purcell

5 — TOBY FORMATION: conglomerate, minor argillite, limestone

4 — MOUNT NELSON FORMATION: dolomite, argillite, shale, quartzite

3 — DUTCH CREEK and KITCHENER-SIYETH FORMATIONS: argillite, dolomite, quartzite

2 — CRESTON and ALDRIDGE FORMATIONS: argillaceous quartzite, quartzite, argillite

1 — SHUSWAP METAMORPHIC COMPLEX: gneiss, quartzite, schist, marble, amphibolite, pegmatite

GEOLOGICAL BOUNDARY . . . . . .

FAULT . . . . . .

Sample locality

Anomalous sample, upstream indicated, anomalous values W, Sn, (ppm) Au, (ppb) N=not detected

Anomaly priority designation: A
B
C

N

Kidd Creek Mines Ltd.

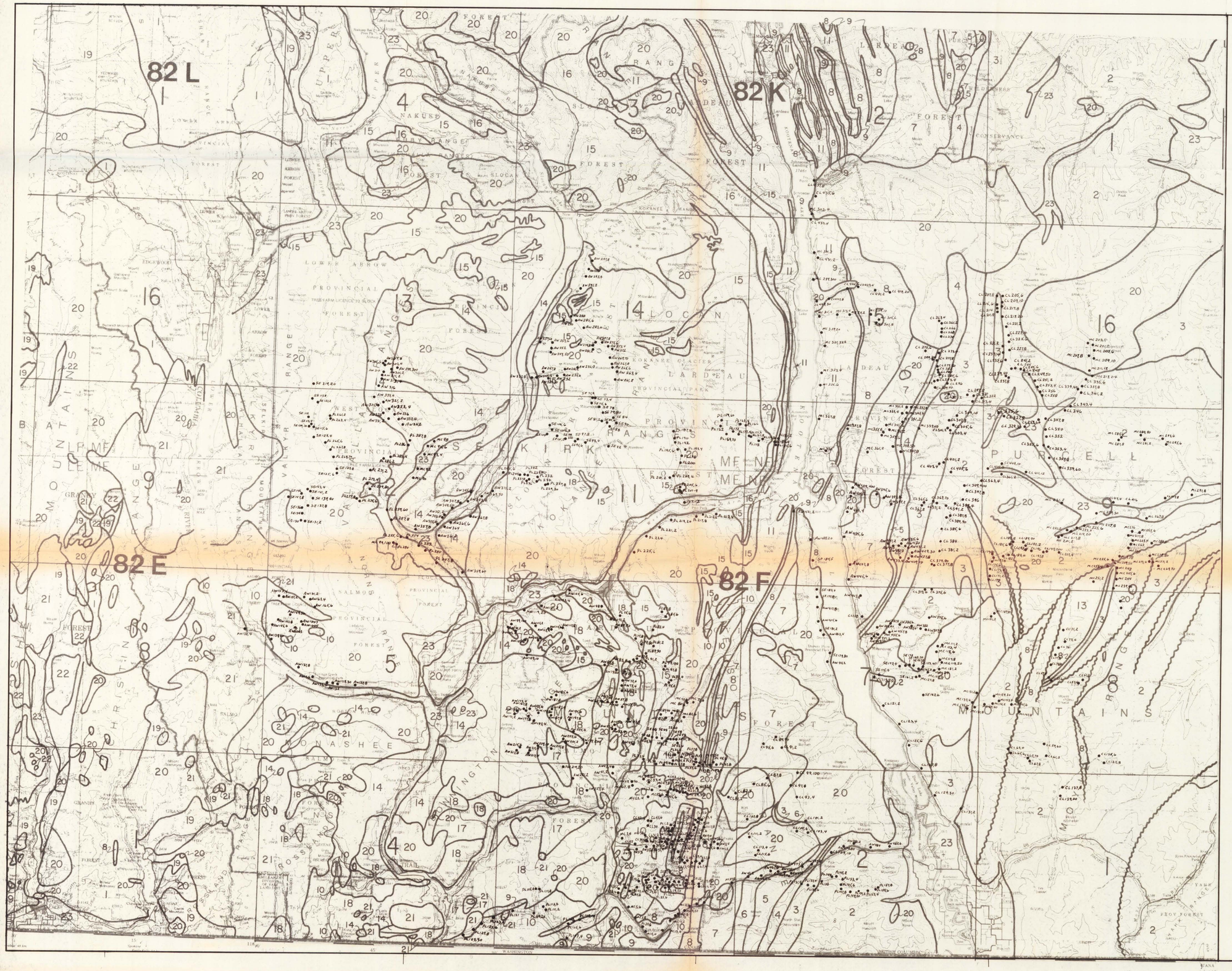
PANNED CONCENTRATE ANOMALIES KOOTENAY SHEET

WORK BY	DRAWN BY	DATE: Jan. 1983

0 5 10 20 KM

SCALE 1:250,000

Figure: 5



LEGEND

• PL 159,160 Sample locality; code as listed in Appendix A, with full analysis.
Odd numbers are panned concentrate samples.
Even numbers are stream silt samples.

Kidd Creek Mines Ltd.

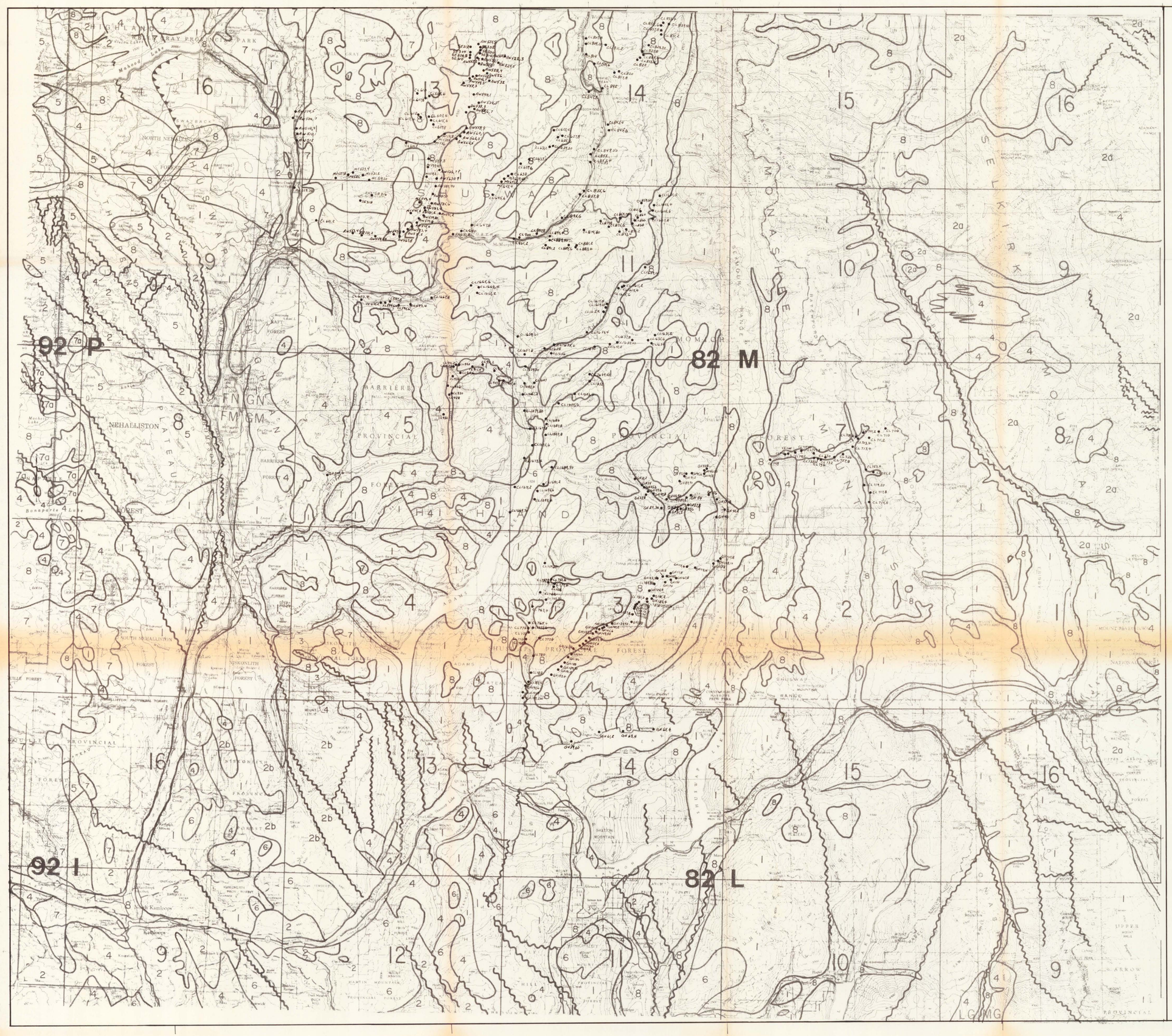
SAMPLE LOCALITIES KOOTENAY SHEET

WORK BY	DRAWN BY	DATE: Jan 1983

0 5 10 20 KM

SCALE 1:250,000

Figure: 13



LEGEND

• CL 7016 Sample locality, code as listed in Appendix A, with full results.
Odd numbers are panned concentrate samples.
Even numbers are stream silt samples.

Kidd Creek Mines Ltd.

SAMPLE LOCALITIES ADAMS PLATEAU SHEET

WORK BY	DRAWN BY	DATE: Jan. 1983

SCALE 1:250,000 (0 5 10 20 KM)

Figure: 14