REPORT ON DIAMOND DRILLING

MUNRO LAKE PROPERTY, SUMMERLAND AREA, B.C.

ROSE CLAIM GROUP

OSOYOOS MINING DIVISION

NTS: 82E/12, 13W

LATITUDE 49 DEGREES 43 MINUTES NORTH

LONGITUDE 119 DEGREES 55 MINUTES WEST

FOR

ALMADEN RESOURCES CORP.

AND

LAUSANNE DEVELOPMENT CORP.

COVERING FIELD WORK

FROM

JULY 6 TO AUGUST 15, 1996

BY

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AND

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November 21, 1996

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1.0 SUMMARY

A diamond drilling program totalling 1780 m in 7 holes was carried out during July and August, 1996 on the Munro Lake Property. The property is located in the Munro Lake area, 18 km west-southwest of Peachland, B.C. and consists of 22 contiguous claims totalling 125 units.

The program was funded by Lausanne Development Corp. who is earning an interest in the property.

The objective of the drill program was to test several induced polarization chargeability targets. All 7 diamond drill holes intersected a weakly mineralized silver-molybdenum-copper porphyry system. The mineralization is confined almost entirely to at least 2 vein systems hosted in a medium-grained granodiorite.

Hydrothermal alteration is generally confined to vein margins where propylitic alteration is characterized by chlorite-sericite selvages along late stage quartz-pyrite +/- chalcopyrite veining. Potassic alteration is most noticeable as potash feldspars associated with early stage quartz veins that carry molybdenite mineralization.

The best mineralization was intersected in hole M-96-3. The entire 231.9 m of core averaged 0.047 % copper, 0.020% Mo and 5.54 g/t silver.

The current drilling program confirms the presence of a large, low-grade porphyry silver-copper-molybdenum system that appears to strengthen to the west. The current drilling program has only tested the eastern 700 meters of a large 4000 m long by up to 1000 m wide induced polarization anomaly. Further drilling to test the western portion of this large target is recommended.

2.0 INTRODUCTION

The following report summarizes the results of a diamond drilling program carried out during July and August 1996, on the Munro Lake property.

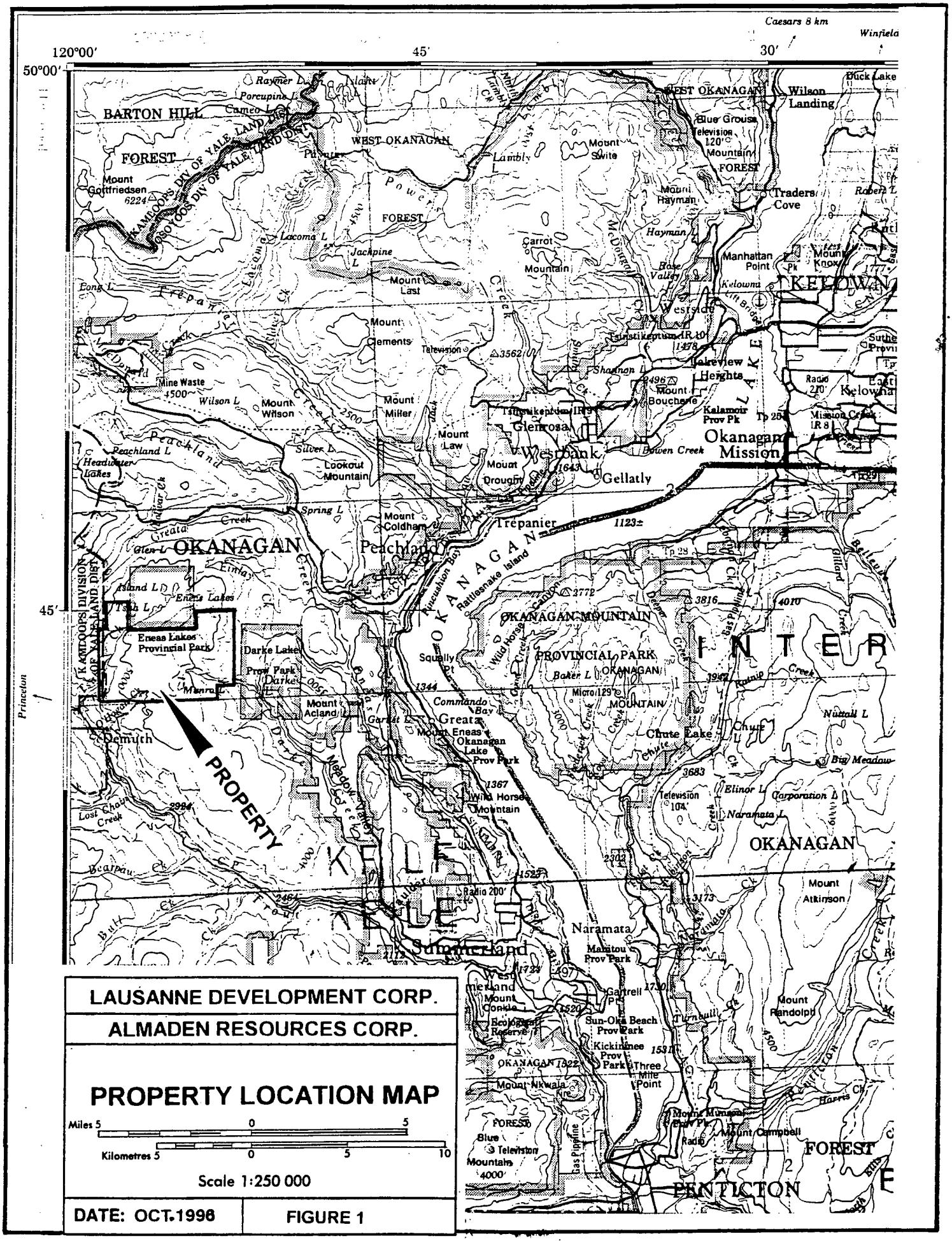
Almaden Resources Corp. managed the program which was funded by Lausanne Development Corp. who is earning an interest in the property. An Induced polarization survey was carried out in August 1996 on a portion of the property. A report on the survey is being prepared by Delta Geophysics Ltd.

3.0 LOCATION AND ACCESS

The Munro Lake property is located in the Southern Okanagan region of British Columbia about 40 kilometers north-northwest of Penticton and 18 kilometers west-southwest of Peachland on the west side of Okanagan Lake (see Figure 1).

The NTS location is 82E/12, 13W and the centre of the property is at latitude 49° 43' N and longitude 119° 55' W.

Access to the property can be gained by way of Peachland or Summerland. The best access is via Highway 97 to Peachland and then southwest on the Brenda Mine Road for 11 km to Headwaters Road. The Headwaters Road leads west for about 8.5 km to Kathleen Main Road which leads southwest for 7.5 km to Deer Creek Road. The property is located 16 km along this road and can be reached by following the Deer



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ALMADEN RESOURCES CORP.

PROPERTY LOCATION MAP

DATE: OCT.1998 | **FIGURE 1**

Creek Road to the 32.5 km marker. At this point the main haul road leads left for 4 km into the property. Total distance from Peachland is about 36 km.

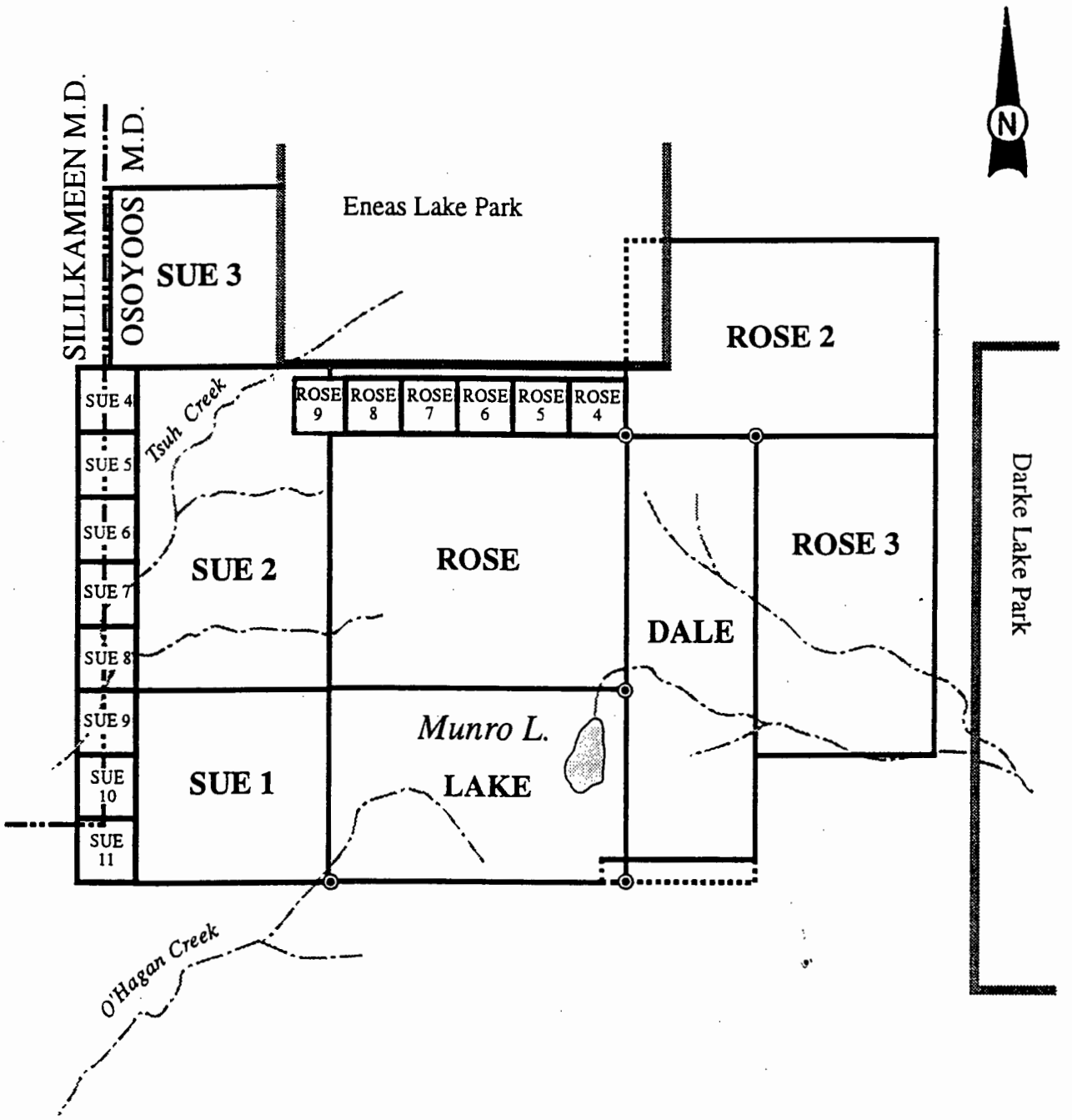
An alternate route is via Summerland along the old Summerland to Princeton Highway, westerly along the Trout Creek Valley for a distance of about 27 km. to the junction of the Munro Lake Road. The junction is about 300m west of a bridge that crosses Trout Creek. The Munro Lake Road leads northerly along O'Hagen Creek for a distance of 10.9 km. At a point near the power line, just past Km 33 marker, the main haul road can be accessed by turning right onto an access road for 4 km to Km 37 post, which is located on the south central part of the property.

4.0 PROPERTY AND OWNERSHIP

The Rose claim group is owned by Almaden Resources Corp. Lausanne Development Corp. has an option to earn a 50% interest in the property. The Rose group consists of 22 contiguous claims totalling 125 units located in the Osoyoos Mining Division (see Figure 2). The NTS Location is 82E/12, 13W; Latitude 49°43' North; Longitude 119°55' West. The details of the Rose group are summarized in Table 1.

TABLE 1: SUMMARY OF CLAIM INFORMATION

CLAIM	TENURE #	# UNITS	EXPIRY DATE
Rose	24658	20	September 30, 2005
Dale	2346(11)	14	November 5, 2006
Lake	2347(11)	15	November 5, 2006
Rose 2	2357(11)	15	November 5, 2006
Rose 3	2358(11)	15	November 15, 2006
Rose 4	246755	1	November 3, 2006
Rose 5	246756	1	November 3, 2006
Rose 6	246757	1	November 3, 2006
Rose 7	247758	1	November 3, 2006
Rose 8	246759	1	November 3, 2006
Rose 9	246760	1	November 3, 2006
Sue 1	332562	9	November 4, 2001
Sue 2	332563	15	November 4, 2002
Sue 3	339675	9	August 24, 2002
Sue 4	339676	1	August 24, 2002
Sue 5	339677	1	August 25, 2002
Sue 6	339678	1	August 25, 2002
Sue 7	339679	1	August 25, 2002
Sue 8	339680	1	August 24, 2002
Sue 9	339681	1	August 25, 2002
Sue 10	339682	1	August 25, 2002
Sue 11	339683	1	August 25, 2002
		125	



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CLAIM MAP

Miles 1 0 1

Metres 1000 0 1000 2000

Yards 1000 0 1000 2000

Scale 1:50,000

DATE: OCT.1996

FIGURE 2

5.0 GEOLOGICAL SETTING

A geological map by D.J.Tempelman-Kluit (Figure 3) outlines the regional geology.

The Rose property is underlain by an intrusive mass of the Valhalla Plutonic Group of possible Upper Cretaceous Age (or possibly Jurassic).

This intrusive mass has been described as a "constriction zone" between two Jurassic Nelson Complex Batholiths; the Penask Batholith to the north and the Okanagan Batholith to the south. The Valhalla rocks are granodiorites to quartz monzonites in composition.

In the immediate area of the current drilling, a medium-grained, relatively massive granodiorite is the dominant rock type. Locally, the granodiorite has a porphyritic texture due to the presence of very coarse-grained potash feldspar crystals which are inconspicuous except when the cleavage faces of the large crystals reflect sunlight. The granodiorite is cut by quartz feldspar porphyry dikes that trend east-northeast. The dikes are exposed on line 3172 E (old grid line 36) and 94 N, in the area of old trenches. Locally narrow aplite veins and dikes cut the granodiorite.

6.0 ALTERATION

The country rock granodiorite is pervasively altered and unaltered rock was not observed on the Munro Lake property. Igneous textures are preserved in the granodiorites and quartz-feldspar porphyry dikes. The country rock granodiorites are composed of igneous quartz (20-25 %), K-feldspar, plagioclase and biotite. The granodiorite country rocks are commonly sheared and intense texturally destructive alteration is structurally controlled. Hydrothermal minerals are dominantly veinlet controlled in their distribution, however both pervasive and selectively pervasive alteration was observed. Hydrothermal minerals were identified largely in hand specimen. Petrographic studies were performed by Dr. Anne Thompson of PetraScience Consultants Inc., of Vancouver on samples representative of the different alteration assemblages identified in hand specimen.

6.1 MINERALOGY

Quartz

The host rock granodiorites are composed of approximately 25% igneous quartz. Hydrothermal quartz dominantly occurs in veins and veinlets. Three episodes of quartz veining have been recognized . Early quartz-K-feldspar-moybdenite veins are crosscut by quartz dominant-minor K-feldspar-pyrite-chalcopyrite +/- sphalerite veins. Both these vein types are crosscut by late milky quartz-pyrite veins. Petrographic studies indicate that quartz occurs as large anhedral grains with undulatory extinction.

K-feldspar

Igneous K-feldspar occurs in amounts up to 10% in the granodiorite. Hydrothermal K-feldspar occurs as an open space mineral in quartz veins and as a veinlet controlled replacement mineral. Early salmon-coloured K-feldspar-quartz-

molybdenum veins are cross cut by quartz-dominant-minor K-feldspar veins with chalcopyrite-pyrite and minor sphalerite. K-feldspar replaces the groundmass and plagioclase adjacent to quartz-K-feldspar veins.

Biotite

Biotite occurs as a replacement mineral. Biotite pervasively selectively replaces hornblende in mafic volcanics and replaces igneous biotite adjacent to quartz-K-feldspar-molybdenite veins. Biotite is associated with replacement K-feldspar and anhydrite.

Anhydrite

Anhydrite was identified petrographically by Thompson (1996) and occurs in association with hydrothermal muscovite, biotite, quartz and K-feldspar in the selvages to quartz-K-feldspar veins and in the veins themselves. Chalcopyrite and pyrite also occur associated with anhydrite.

K-mica

Two phases of K-mica alteration were identified petrographically (Thompson 1996). Early muscovite is associated with K-feldspar-biotite and anhydrite while late "sericite" is associated with chlorite. Early muscovite is described as K-feldspar stable potassic alteration along the selvages of quartz-K-feldspar veins in veinlets and replacing plagioclase phenocrysts, generally associated with biotite and anhydrite. Late sericite replaces K-feldspar and plagioclase in association with chlorite and overprints the early muscovite-biotite-K-feldspar alteration.

Calcite

Calcite was identified in hand specimen using HCL and petrographically. Calcite is distributed throughout the area investigated with diamond drilling. Calcite replaces plagioclase, occurs as fine grained masses in the groundmass and forms veinlets. Calcite is associated with sericite and chlorite.

Pyrite

Pyrite is the most common sulfide and occurs in amounts up to 5 volume % in veins and disseminated in the wall rocks adjacent to veins. Pyrite occurs in association with chalcopyrite, sphalerite and more rarely molybdenite.

Chalcopyrite

Chalcopyrite occurs in quartz veins and disseminated in the wallrock adjacent to quartz veins in association with K-mica, anhydrite, pyrite and sphalerite.

Molybdenite

Molybdenite occurs exclusively in quartz-K-feldspar veins as bands and "smears" commonly along the selvages of the veins.

6.2 ALTERATION ASSEMBLAGES

Two distinct alteration assemblages were identified from logging diamond drill core and limited petrography. As assemblage of K-feldspar-biotite-muscovite-anhydrite-molybdenite (type I) is associated with quartz-K-feldspar-molybdenite veining and occurs dominantly in the selvages of these veins. Subsequent, overprinting sericite +/- chlorite (type II) alteration is pervasive and is controlled to a lesser extent by veining. Quartz-minor K-feldspar-chalcopyrite +/- sphalerite veining are associated with sericite-chlorite alteration.

The distribution of type I alteration is controlled by the density of quartz-K-feldspar-molybdenite veining. From the limited diamond drill data the most intense quartz-K-feldspar-molybdenite veining (>2 veins/metre) correlates well with the high chargeability anomaly. Type I alteration occurs along the entire studied length of the chargeability high and gives way to pervasive, overprinting type II alteration, to the north and south, away from the chargeability high. This initial work indicates that the linear chargeability anomaly roughly outlines the extent of type I alteration and suggests that structural control may be important. Concentric zoning common in some porphyry copper deposits is not observed, however spatial zoning of alteration assemblages does occur along the flanks of the linear chargeability anomaly as type I alteration is superseded by type II alteration away from the anomaly.

7.0 MINERALIZATION

Two types of mineralization have been recognized on the Rose claim group. Weak, porphyry-type pyrite-chalcopyrite-molybdenite mineralization is exposed in several trenches in the north-central part of the Rose claim. The exposed mineralization is located on the south margin of a large I.P. chargeability anomaly, the target of the current drilling.

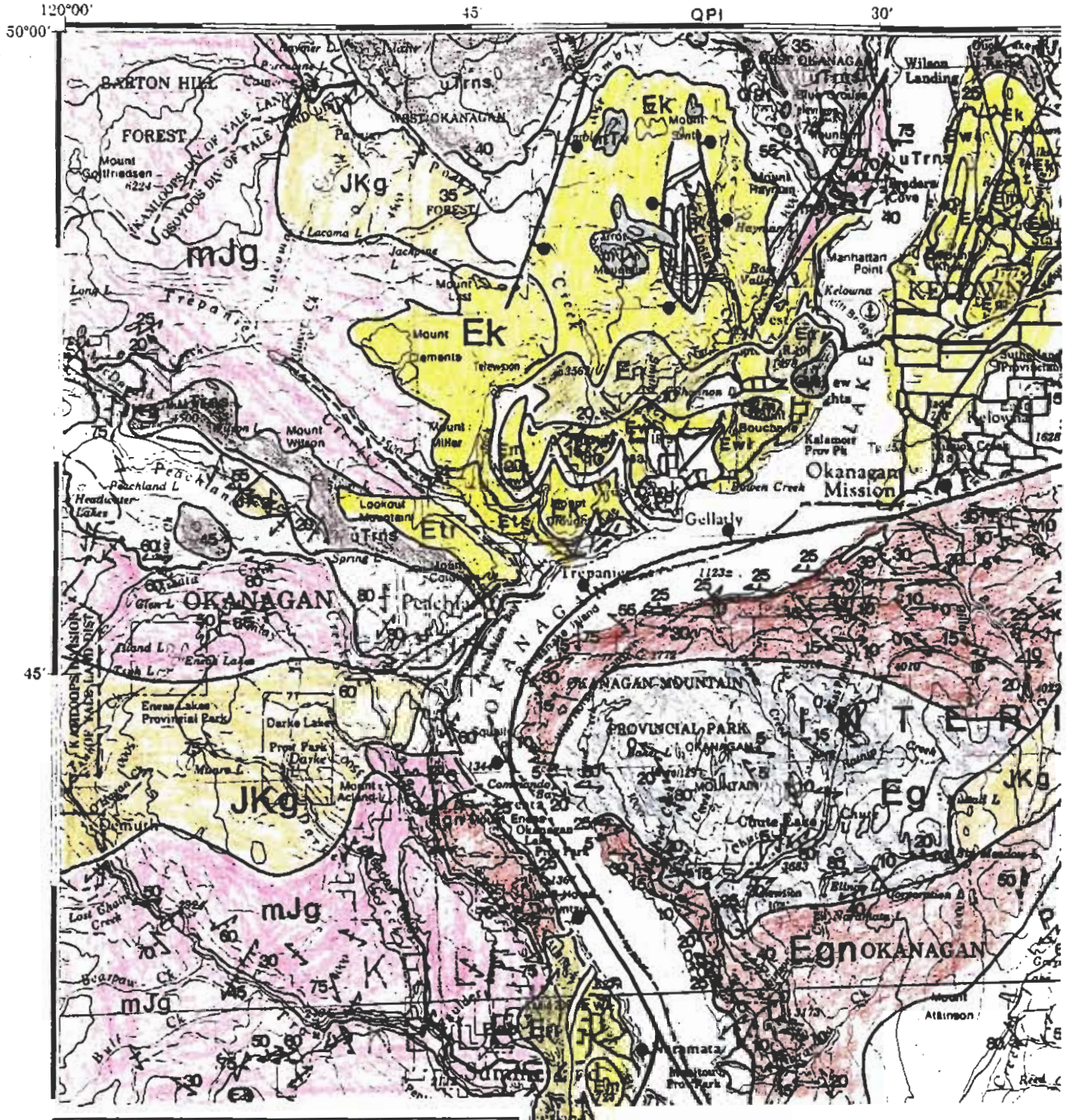
A second type of mineralization occurs as quartz veining in silicified shear zones. Sampling of a showing on the Rose 2 claim by Giroux in 1988 returned values of .132 oz/ton gold and 23.77 oz/ton silver over the .15 cm width of the vein.

8.0 HISTORY AND PREVIOUS WORK

The first documented exploration work on the Rose claim group was carried out in 1966 after the discovery of the Brenda molybdenum-copper mine located about 17 km to the north. A detailed review and summary of previous work is found in a report by J.H.Montgomery and G.H. Giroux, Montgomery Consultants, Jan.1996.

Low grade copper-molybdenum mineralization was first discovered by Lakeland Base Metals Ltd. in 1966. An initial program of soil sampling, trenching and 2000 feet of percussion drilling by BrenMac Mines Ltd., Brenda Mines Ltd., and Lakeland Base Metals was completed in 1966. During 1966 and 1967, exploration was carried out by Koporok Mines Ltd. on the Cache showing located on the eastern portion of the Rose claim group and on several other quartz veins with pyrite, tetrahedrite and galena.

In 1973, the area underlain by the Rose claims was restaked by Canadian Occidental Petroleum Ltd. based on results of a regional stream sediment survey and in



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REGIONAL GEOLOGY

(D.J. Tempelman-Kluit 1989)

DATE: OCT.1996

Figure 3

GEOLOGY, PENTICTON MAP AREA, NTS 82E

PLEISTOCENE

Lambly Creek Basalt: Rusty weathering black basalt, with hornblende, biotite and pyroxene phenocrysts to 5 mm in an aphanitic black matrix: occurs as columnar jointed flows, a few meters thick above Mesozoic strata, K/Ar age of 0.762 Ma determined by Church, 1981.

MIOCENE

Plateau Basalt: Andesite and basalt with augite and hornblende phenocrysts to 5 mm in a black aphanitic matrix: forms massive flows to 20 m thick: locally underlain by poorly sorted boulder conglomerate and pebbly sandstone: K/Ar cooling ages of 2.9 and 14.9 Ma: includes Daves Creek Basalt (14.9 Ma) and Carrot Mountain alkali basalt (11.8 Ma).

EOCENE

White Lake Formation: Massive to thick bedded volcanic breccia and pyroclastic rocks with clasts of Trepanier Rhyolite and Kitley Lake and Yellow Lake Formations: includes interbedded medium and thin beds of brown sandstone and clayey siltstone, minor carbonaceous seams: includes minor trachyte and andesite. Palynomorphs from Powers Creek indicate a Middle Eocene or older age.

Marama Formation: Medium brownish grey, flow banded dacite with subhedral plagioclase, hornblende and biotite phenocrysts to 5 mm in an aphanitic ground: forms the top of Black Knight Mountain, Mount Boucherie, Aeneas Butte, Mount Law.

Marama Formation- Nimpit Lake Member: Recessive, reddish weathering, amygdaloidal, trachyandesite with minor intercalated pyroclastic deposits: includes undifferentiated intrusive equivalents.

Kitley Lake Formation: Massive, yellowish to buff, trachyte to trachyandesite; plagioclase and biotite glomerophenocrysts to 3 cm (10 % of the rock) in a finely crystalline groundmass: includes ash flow tuff and minor mudstone: includes undifferentiated intrusive equivalents. Church determined K/Ar ages between 52.9 (biotite) and 44.2 Ma (whole rocks).

Yellow Lake Formation: Massive to thick, tabular flows of buff to light tan pyroxene-rich, mafic phonolite locally with rhomb anorthoclase phenocrysts and primary analcite, abundant zeolite fills cracks and amygdales: includes undifferentiated intrusive equivalents.

Trepanier Rhyolite: White and locally pink, greenish or light grey, flow banded rhyolite with subhedral quartz, hornblende and biotite phenocysts to 3 mm in an aphanitic matrix. K/Ar ages of 47.7 Ma and 46± 2 Ma were determined by Church (1981) west of Trepanier.

Sorinobrook Formation: Poorly sorted, massive to thick bedded, immature, coarse boulder and pebble conglomerate. Clasts to 50 cm are rounded, but of low sphericity and are locally derived (chert, greenstone, granite, and other pre-Eocene rocks with fewer Merron Group clasts, mainly Yellow Lake and Kitley Formations). Near Rock Creek this unit consists of white to light grey, medium bedded, feldspathic sandstone, siltstone and shale with coaly partings, named the Kettle River Formation.

Coryell Syenite: Alkalic to calc-alkalic, high level, pink and buff syenite and quartz monzonite and trachytic pink feldspar porhyry dykes: plutonic equivalent of the Marron Group especially the Kitley Lake Formation: gradational to pulaskite and to Shingle Creek Porphyry: probably includes JKg undifferentiated in East half of map area: poorly dated.

Hornblende granodiorite: Massive, resistant, grey weathering, coarse grained, equigranular mesocratic with euhedral fresh black hornblende crystals; locally weakly foliated: age poorly constrained.

"Okanagan Gneiss": Massive, medium grey weathering, resistant hornblende biotite granodiorite orthogneiss: strongly foliated: grades to mylonitic gneiss, mylonite and blastomylonite: minor amphibolite and paragneiss- minor schist: minor pegmatite and aplite: strongly chloritized along Okanagan Fault: grades eastward (and up the structural succession) to JKg, mJg and Pm units of which it is presumed the sheared equivalent: probably also includes sheared equivalents of the Anarchist Group: presumed sheared and thermally overprinted during the Eocene: Egnl- quartz chlorite microbreccia and related altered rocks close to the Okanagan fault.

CRETACEOUS AND/OR JURASSIC

Okanagan Batholith: Massive, light grey weathering, medium to coarse grained, equigranular to porphyritic, unfoliated to weakly foliated, fresh biotite granodiorite and granite: includes undifferentiated granodiorite of the Nelson suite: age poorly constrained.

MIDDLE JURASSIC

Nelson Plutonic Rocks: Massive, generally moderately foliated, medium grey weathering, medium- to coarse-grained, equigranular, hornblende biotite granodiorite, quartz diorite and granite: includes undifferentiated biotite granite of the Valhalla suite: age poorly constrained.

UPPER TRIASSIC AND/OR LOWER JURASSIC

Rusty weathering, black pyritic slate, phyllite and argillite, locally silicified or "cherty": minor quartzite: minor interbedded argillaceous limestone: includes undifferentiated greenstone lenses.

MAP SYMBOLS

- Strike and dip of bedding.
- Strike and dip of foliation.
- Trend and plunge of lineation and minor folds.
- Outcrop boundary.
- Probable stratigraphic contact, location approximate.
- Geological contact relations unknown, possibly faulted.
- Inferred fault, age and displacement unknown.
- Inferred normal fault age unknown, circle on downthrown side.
- Inferred Eocene normal fault, circle on downthrown side.
- Slide- inferred fault in metamorphosed rocks, roughly parallel to foliation.
- Mineral occurrence with commonly used name.
- Locality with radiometric age determination, K-bi, wr, hb, ser,ms- potassium argon model age on biotite, whole rock, hornblende,sericite and muscovite respectively: U-zirc low 80 up 1500- Uranium lead age on zircon with upper and lower intercept ages as noted: F-ap, sp- fission track ages on apatite and sphene respectively: Sr-bi, fsp, ms, wr- Rubidium strontium ages on biotite, feldspar, muscovite and whole rock respectively.
- Fossil locality- fossil type as follows:
  - Conodonts,
  - Ammonites,
  - Brachiopods,
  - Plant macrofossils,
  - Other.

Geology compiled 1985, 1986 by Dirk Tempelman-Kluit, from sources referenced with new field work during 1983, 1984. I acknowledge the excellent help in compilation by J. Rhodes, A. Jung, R.A. Arnold, E.A. Fuller, G. Lynch. By his continuing interest in the geology of this region, Rick Myers of B.C. Geological Survey at Kamloops, encouraged me to complete this work.

1974 they carried out geochemical, geological and magnetic surveys. Several copper-molybdenum anomalies were identified and 3 targets tested by diamond drill holes.

In 1976 a regional geochemical program funded by the Federal and Provincial Governments identified anomalous silver values in streams draining the plateau area northwest of Munro Lake. Based on this new information, Canadian Occidental reanalyzed all soil samples and drill core for silver and found excellent correlation between silver anomalies and previously identified copper-molybdenum-zinc anomalies. The highest values obtained were 2.73 oz Ag/ton and 0.003 oz Au/ton over 2.3 feet from 124 to 136.3 feet in drill hole MUN 74-3.

In 1977 a large co-incident Cu-Mo-Zn-Ag anomaly was tested by a 562 ft. diamond drill hole (MUN 77-1) and in 1981 a total of 1300 feet of trenching was carried out to test a large silver-base metal anomaly.

In 1983 the claims lapsed and the Rose claims were staked by Almaden Resources Corp. During 1985 to 1987 Almaden conducted VLF-EM surveys followed by 15 line km of I.P. over the central and northeastern parts of the property. The area of co-incident VLF and Ag-Cu-Zn-Mo soil anomalies was then tested with a program of overburden drilling. In Sept. and Oct. 1987, a program of reverse circulation drilling was carried out to test geochemical and geophysical targets to the north of Munro Lake. This program was continued in 1988 to test a NE trending structure. The drilling outlined a series of NE trending co-incident gold, silver and zinc anomalies in basal till.

9.0 INDUCED POLARIZATION SURVEYS

In 1994 and 1995, an induced polarization survey was conducted over the claim area by Delta Geoscience Ltd. (Hendrickson 1995). A large I.P. anomaly with a magnitude of 15 to 20 msec above background was delineated on the northwestern part of the survey grid. The anomaly extended in an east-west direction over a distance of 2200 m with an average width of about 500 m and was open to the west. Henderickson interpreted the anomaly as representing a large pyritic alteration zone reflecting the top of a large mineralized porphyry system.

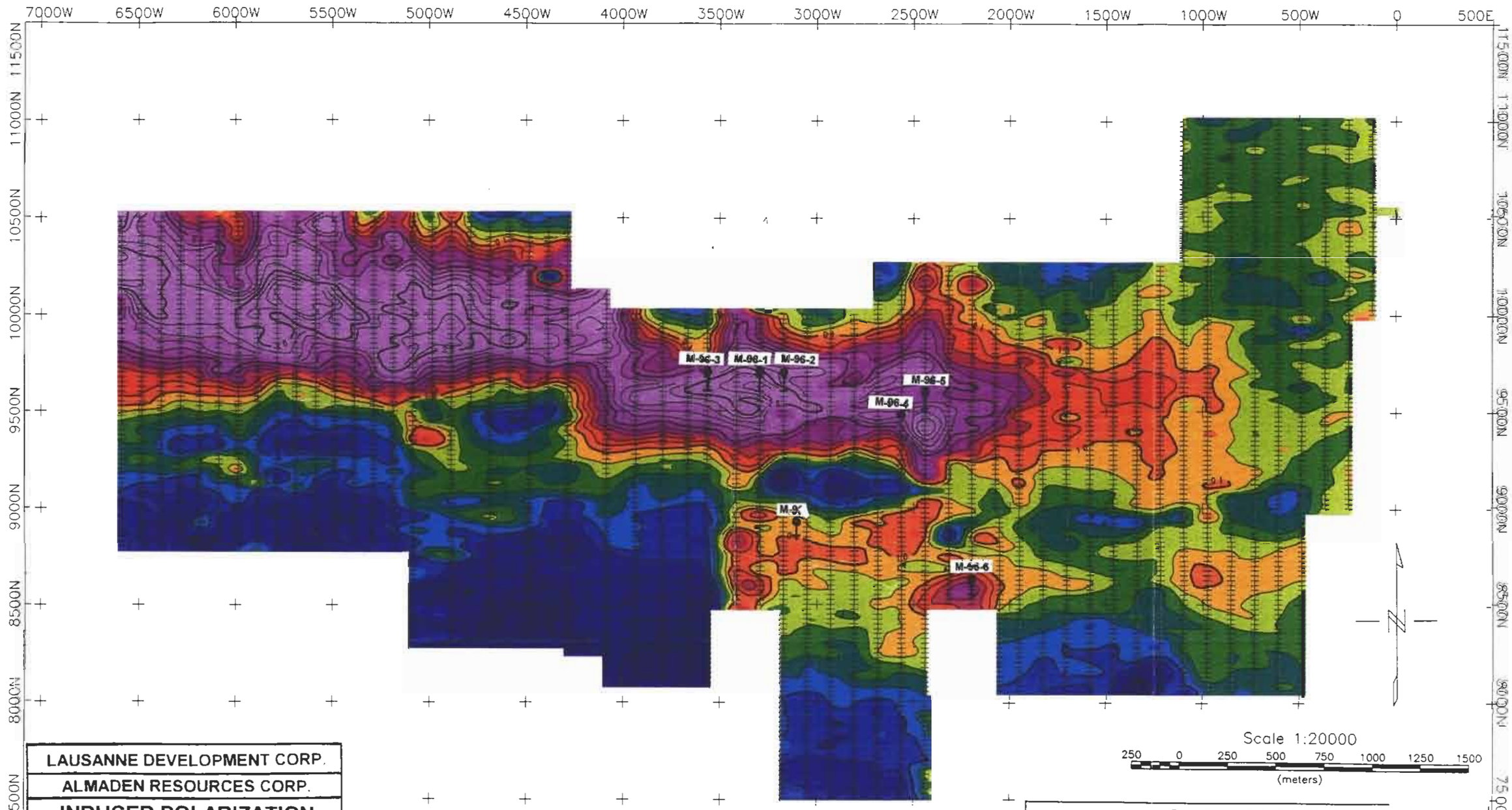
In order to further delineate this anomaly the grid was extended westward for a further 1800 meters and further I.P. work completed in August 1996. This work showed that the large I.P. anomaly continued to the west and now has a length of at least 4000m and is up to 800m in width (Figure 4). Chargeability values of up to 24 msec suggest the presence of a large disseminated sulphide system.

10.0 DRILLING PROGRAM AND RESULTS

10.1 GENERAL

A diamond drilling program totalling 1779.8 meters in 7 holes was carried out in July and August, 1996. The drilling was carried out by Beaupre Diamond Drilling Ltd. of Princeton under the supervision of H.L.King and M.Poliquin.

The drilling was carried out on a 2-shift basis with crews commuting to the property from Princeton. Drilling commenced on July 6, 1996 and was completed on Aug.5, 1996. A total of 1,779.8 m was drilled for an average drilling rate of 57.4 m per 24 hr. day including moves.



LAUSANNE DEVELOPMENT CORP.

ALMADEN RESOURCES CORP.

INDUCED POLARIZATION
(CHARGEABILITY)

AND

DIAMOND DRILL HOLE PLAN

DATE: OCT.1996 | FIGURE 4

Scale 1:20000

250 0 250 500 750 1000 1250 1500

(meters)

CHARGEABILITY PLAN
MUNRO LAKE GRID, all 94,95,96 data
SUMMERLAND, BRITISH COLUMBIA

Contour interval 1 msec
Gradient arrays, AB = 1600m, MN = 50m
Iris instruments
Sept, 1996

DELTA GEOSCIENCE LTD

The drill holes were spotted with reference to an existing grid but co-ordinates for the drill hole locations are those used by Delta Geophysics. All drill core was logged and most of the core was split and assayed or analyzed by ICP methods. Initially core from D.D.H. M-96-1 was assayed for gold, silver, copper and molybdenum. However subsequent drill core was analyzed by multielement ICP. Samples with results greater than 2500 ppm copper, greater than 1000 ppm molybdenum, greater than 20 grams/tonne silver; greater than 250 ppb gold and greater than 10,000 ppm zinc were assayed.

All ICP analyses and assaying was carried out by Echotec Laboratories in Kamloops. Certificates of Analyses for all core sampled are shown in Appendix 4. Core logs and sample results are shown in Appendix 2. All core is stored at Summerland Mini Storage.

TABLE 2: DIAMOND DRILL HOLE INFORMATION

Hole No	Co-Ordinates	Azimuth	Dip	Length(m)	Started	Completed
M-96-1	9700N 3172W	180°	-70°	251.5	6/7/96	9/7/96
M-96-2	9700N 3294W	180°	-60°	284.4	10/7/96	13/7/96
M-96-3	9600N 3538W	180°	-70°	250.2	14/7/96	16/7/96
M-96-4	9490N 2562W	0°	-90°	243.8	17/7/96	22/7/96
M-96-5	9600N 2440W	180°	-70°	251.5	23/7/96	27/7/96
M-96-6	8640N 2196W	180°	-70°	259.1	29/7/96	1/8/96
M-96-7	8935N 3090W	180°	-60°	239.3	2/8/96	5/8/96

10.2 DRILL RESULTS

The principal objective of the diamond drill program was to test several induced polarization chargeability targets. The I.P. anomalies and drill-hole locations are shown in Figure 4.

All drill holes intersected a relatively massive, medium-grained biotite granodiorite hosting 2 distinct quartz vein systems; an earlier quartz, K feldspar, pyrite +/- molybdenite vein set and a later set of quartz, pyrite +/- chalcopyrite veins characterized by distinct chlorite-sericite selvages.

The biotite granodiorite is most highly altered to chlorite and sericite in areas of more dense veining and where the rock is more highly fractured and sheared. Pervasive potassic alteration was seen in all holes. Some clay alteration of feldspar was noted, generally adjacent to shearing or fracturing with the strongest clay alteration found in D.D.H. M-96-6.

The most significant silver, copper and molybdenum mineralization was intersected in D.D.H. M-96-3. The entire core length of 231.9 m (from 18.3 to 250.2 m) was mineralized. Average grades intersected over 231.9 m were 5.54 g/t Ag, 0.047% Cu and 0.020 % Mo.

Other significant mineralized zones were intersected. In hole No. M-96-1; the best 22.8 m (74.8 ft.) averaged 15.0 g/t Ag, 0.23 % Cu and 0.009 % Mo. In Hole M-96-5, a 30 m section averaged 4.44 g/t Ag, 0.055% Cu and 0.014% Mo.

The drilling has confirmed that a large chargeability anomaly extending over a distance of about 4 km in an east-west direction and up to 1 km in width, represents a large, low grade silver-copper-molybdenum porphyry system. Only the easternmost 700 m portion of this large anomaly was tested with the first 5 holes drilled. The western 3-km portion of the I.P. anomaly remains to be tested.

10.3 DIAMOND DRILL LOG SUMMARIES

The following summarizes the logs of holes M-96-1 to M-96-7. Please see Figure 4 for drill hole locations.

Hole M-96-1

This hole was drilled to intersect a large chargeability anomaly. The hole was drilled to the south at -70°.

The drill hole encountered moderately altered, medium-grained biotite granodiorite hosting extensive mineralized quartz vein systems. Sections of core that are highly fractured and cut by shear zones exibit pervasive chlorite-sericite alteration with locally minor development of carbonate and clay alteration of feldspars.

Two types of mineralized quartz veining were intersected; quartz + K feldspar + pyrite, +/- molybdenite and a later set of quartz + pyrite +/- chalcopyrite characterized by distinct chlorite-sericite along veinlets and extending into the wall-rock for up to 10 cm.

The quartz + K feldspar + pyrite +/- molybdenite veining is less abundant. The veining is generally at low angles to the core axis, ranging from along the core to 30°. The quartz + pyrite veining has a higher density averaging about 3 veinlets per meter with local density increasing to 9 per meter. Several vein sets are present; one at 30 to the core axis, another at 45° to 50°and some at about 70°.

Overall pyrite content is relatively low, in the order of 1% to 2% and is mainly confined to the quartz veining. Copper mineralization is found within a zone of highly altered, locally brecciated and silicified granodiorite containing up to 5 % disseminated pyrite and cut by major shear zones at 10 to 30 to core axis.
The highest grade copper mineralization is found in one 60 cm section (from 208.2 to 208.8m) where values of 4.06% Cu and 45 g/t Ag occur in a brecciated, silicified zone. Another 1m section of mineralized quartz, chlorite, albite (?) breccia from 210.0 to 211.0 assayed 0.76 % Cu and 39.5 g/t Ag. A 39.1 m section of this zone, from 195.6 m to 232.0 m, averaged 10.52 g/t Ag, 0.155% Cu, and 0.008% Mo.

M-96-2

This hole was drilled approximately 100 m east of Hole M-96-1, -60°to the south and to a depth of 284.4 m. The hole was designed to intersect the main chargeability anomaly and intersected K-silicate alteration and quartz-K-feldspar veining throughout. Quartz-K-feldspar porphyritic dikes were intersected in the top 42 m of the hole. These dykes are altered to an assemblage of K-mica-K-feldspar-calcite. K-mica replaces igneous plagioclase and biotite, while calcite occurs throughout the sample as a late overprint. The intervening sections of granodiorite are altered to an assemblage of K-feldspar-biotite-K-mica-anhydrite. K-feldspar-biotite alteration is veinlet controlled while K-mica appears to be more pervasively distributed in the granodiorite.

Two vein types are distinguishable throughout the hole, an early quartz-K-feldspar set with molybdenite and pyrite, cross cut by late quartz-pyrite-chalcopyrite veins with strong K-mica-pyrite altered selvages. M-96-2 intersected the former, quartz-K-feldspar-molybdenite veins, at angles between 0°and 30°to the core axis and the late quartz-pyrite-chalcopyrite veining from 30°to 80°to the core axis. Cu-Ag mineralization is associated with zones of green chlorite-sericite-calcite texturally destructive alteration and strong shearing.

M-96-3

This hole was drilled 244 m west of D.D.H. M-96-1 to further test the large chargeability anomaly. The hole was drilled at -70°south to a depth of 250.2 m. This hole intersected moderately to highly altered biotite granodiorite cut by several sets of mineralized quartz veins similar to that intersected in D.D.H. M-96-1 except there is an increase in vein density and an increase in the amount of pyrite, chalcopyrite and molybdenite associated with the veining. Also the biotite granodiorite host rock is more highly altered, with a number of sections exibiting strong, pervasive chlorite and sericite alteration completely destroying original granitic textures.

The earlier vein set consisting of quartz + K feldspar + pyrite +/- molybdenite generally has angles of 0°to 30°to the core axis. The later stage quartz + pyrite +/- chalcopyrite veining is characterized by distinct chlorite-sericite alteration along the vein margins with veins generally at angles from 30°to 70°to the core axis.

There is a noticeable increase in pyrite from D.D.H. M-96-1 with some sections containing 2 to 3% pyrite.

A quartz-feldspar porphyry dike was intersected from 117.3 to 119.9 m. The dike is extensively altered to chorite, sericite and carbonate with only traces of pyrite.

A breccia zone with no distinct veining was intersected from 124.7 to 128.7 m. Another highly altered breccia zone was intersected from 151.5 to 156.1 m with disseminated molybdenite in quartz-K feldspar veining and minor chalcopyrite associated with later stage quartz-pyrite veining.
A third breccia zone from 207.4 to 213.5 did not contain copper or molydenum mineralization.

D.D.H. M-96-3 intersected the most significant copper, molybdenum, silver mineralization. Copper mineralization is distributed fairly evenly throughout the entire length of the hole, averaging 0.047% Cu over 231.9 m. Silver averaged 5.54 g/t over 231.9 m with the lower 104.5 m averaging 7.43 g/t. Molybdenum averaged 0.020 % Mo over 231.9 m with the upper 127.4 m averaging 0.028 % Mo.

M-96-4

This hole was drilled vertically, approximately 600 m east and 200 south of M-96-2, to test the eastern end of the chargeability anomaly. Texturally preserved, K-feldspar-biotite-K-mica-anhydrite alteration is dominant in this hole. This alteration is veinlet controlled, occuring along the selvages of quartz-K-feldspar-molybdenum veins. These veins are generally at very low angles to the core axis, approximately 0°to 40°and occur in abundance from 3 to 5 veins per meter. Quartz-pyrite-chalcopyrite veins also appear and occur in similar abundances, approximately 4 veins/meter. These veins are marked by the conspicuous presence of "honey yellow" coloured sphalerite. Zones of intense

texturally destructive chlorite-sericite-calcite alteration are less abundant than in holes M-96-1, M-96-2 and M-96-3, but correlate well with Cu and Ag. Cu and Ag are generally low in this hole; the highest Cu geochem was 819 ppm and the highest Ag geochem was 3.2 ppm.

M-96-5

This hole was drilled to test the eastern end of the large chargeability anomaly. The hole was drilled at - 70°to the south to a depth of 251.5 m.

The drilling intersected weak but pervasive potassic alteration. Both sets of quartz veining; quartz + pyrite and quartz + K feldspar + pyrite +/- molybdenite were not as strong as those cut in D.D.H. M-96-1, 2 and 3.

The quartz + K feldspar + pyrite vein set carried only minor molybdenite mineralization. Only two sections (93.0 - 124.8m and 150.2 - 173.2m) showed intense chlorite-sericite alteration replacing original granitic textures.

There is a noteable increase in pyrite in the section from 150.2 to 173.2m to 1% to 2%. This section also returned significant silver and copper values averaging 5.09 g/t Ag and 0.077 % Cu over a 30m interval from 142 to 172m.

Further down the hole, a chalcopyrite-rich section from 210.5 to 211.3 (0.8m) assayed 2.24 % Cu and 6.73 % Zn. Including this intersection, a 10m section from 210m to 220m averaged 23.54 g/t Ag, 0.56 % Cu and 1.54 % Zn.

M-96-6

This hole was drilled to test a circular chargeability high approximately 500m south of the eastern end of the main east-west trending chargeability anomaly.

The drill-hole intersected weak potassic altered, porphyritic biotite granodiorite. Chloritic-sericitic alteration is associated with breccia zones and shear zones and is also present as selvages along quartz-pyrite veinlets. Considerable kaolin coats fractures from 122m to 220m.

Quartz-pyrite and Quartz-K feldspar veinlets are sparse but a few of the Quartz-K feldspar veinlets scattered throughout the drill-hole carry molybdenite mineralization but in only minor amounts. Minor chalcopyrite mineralization associated with quartz-pyrite veining was intersected at 38m and also from 48.8 to 49.5m.

An increase in sericite-chlorite alteration was noted along with an increase in quartz-pyrite veining from 225m to 259m (end of hole). Quartz + K feldspar + pyrite +/- molybdenite vein density also increases over the bottom 30m of the drill-hole. However, no significant silver-copper-molybdenum values were returned over more than a 4m interval. The best silver value was 4.4 g/t Ag over 2m; the best copper value was 0.104% Cu over 2m (49.0 - 51.0m).

M-96-7

This hole was drilled to test the west end of an elongate chargeability anomaly of moderate strength about 200m to the south and parallel to the main chargeability anomaly.

The drill hole intersected weak potassic altered biotite granodiorite. Intense chlorite-sericite alteration replacing original granitic textures is limited to two narrow sections; from 33.0 to 36.4m (3.4m) and from 41.0 to 45.1m (4.1m).

In general, quartz veining intersected in the hole is weak and sparse. Quartz + K feldspar + pyrite +/- molybdenite veins, intersected from 52.8m to 168m, are generally less than 1 cm wide. Quartz + pyrite veining is also narrow but marked by distinct chlorite-sericite alteration along vein margins.

Generally pyrite content is less that 1% and analyses for silver, copper and molybdenum are not significant. The best silver value was 17.6 g/t over a 2m interval from 42.5 to 44.5m. The silver value can be correlated with a pyritic (up to 20% pyrite), 5 cm. wide quartz vein.

A feldspar porphyry dike hosting quartz + pyrite veining was intersected from 36.4 to 39.4 (3m).

11.0 CONCLUSIONS

All 7 diamond drill holes encountered a weakly mineralized silver-molybdenum-copper porphyry system. The host rock is a medium-grained biotite granodiorite. Mineralization is confined almost entirely to veins except for local areas of highly fractured and brecciated rock where sulphides occur as disseminations within areas of more intense chlorite-sericite alteration. Better grades of silver-molybdenum and copper are found within brecciated zones and where there is an increased vein density.

At least three vein sets are recognized; an older set of quartz + K feldspar + pyrite +/- molybdenum veins and a later set of quartz + pyrite +/- chalcopyrite +/- sphalerite veins. Both vein types are crosscut by late milky quartz-pyrite veins. Veining is probably a result of mineralizing solutions emplaced in fractures.

Hydrothermal alteration is generally confined to vein margins where propylitic alteration is characterized by distinct chlorite-sericite selvages up to 10 cm wide along late stage quartz + pyrite +/- chalcopyrite veins. Some local areas of pervasive chlorite-sericite +/-carbonate alteration is developed in areas of brecciation and close-spaced fracturing. Potassic alteration is most noticeable as potash feldspars associated with early stage quartz veins that carry molybdenite mineralization. Argillic alteration is confined to shear zones and fractures and is best developed in DDH M-96-6.

The extensive low-grade silver values encountered in several of the holes, particularily hole M-96-1 and M-96-3 adequately explain the source of at least one of the silver soil anomalies.

The current drilling program clearly indicates the presence of a large silver-copper-molybdenum porphyry system that appears to be strengthening to the west. The recent I.P. surveys carried out in 1994, 1995 and 1996 have delineated a large anomalous area reflecting sulphide mineralization that now extends over 4000m in an east-west direction. The current drilling program has tested only the eastern most 700m of this large target.

12.0 RECOMMENDATIONS

A drilling program should be implemented to test the 3300m untested western portion of the large I.P. conductor. Prior to laying out this drilling, 2 holes should be drilled from the location of Hole M-96-3; one drilled vertically and one to the west in an attempt to intersect the molydenum-bearing vein set at a better angle. A minimum of 10 (300m) drill holes could then be laid out to further test the large I.P. conductor.

13.0 COST ESTIMATE FOR PROPOSED PROGRAM

Based on the recently completed drilling program, the following is a cost estimate for a 3000m program.

Personnel		
(a) Geologist 60 days @ $400/day		$24,000
(b) Helper 60 days @ $150/day		9,000
Food & Accommodation		
60 days @ $160/day		9,600
Truck Rental & fuel		
60 days @ $100/day		6,000
Diamond Drilling		
3000 m @ $65/m		195,000
Analyses		
1400 samples @ $18/sample		25,200
Equipment, Supplies & Services		
core rack material, core logging, facilities, telephone		4,000
Report Preparation		6,000
		278,800
Contingencies (10%)		27,800
	Total	**$306,600**

14.0 STATEMENT OF EXPENDITURES MUNRO LAKE PROJECT

June to Nov., 1996

Personnel

H.L.King

Work Period: June 24 to Sept. 30/96

Days Worked: 40 @ $400/day = $16,000

M. Poliquin

Work Period: July 8 to Sept 20/96

Days Worked: 30 @ $300/day = $9,000

S. Nielsen

Work Period: Aug. 19 - Sept. 20/96

Hours Worked: 118 hrs. X $12.00/hr. = $1,416

Y. Latouche

Work Period: July 19 to Aug. 11/96

Hours worked: 140.5 hrs. X $12.00/hr. + $1,686

28,102.00

Travel

H.L.King	1,015.99	
M.Poliquin	507.04	
H.L.King	479.40	
		2,002.43
Vehicle rental, gas & oil		3,887.91
Food & Accommodation		5,076.29
Miscellaneous (includes shipping, core rack materials, supplies & telephone)		2,367.43
Core Storage		1,150.00
Diamond Drilling (Beaupre Diamond Drilling)		
Meters Drilled: 1779.8 at a direct cost of $61.03/m		108,624.47
Assaying & Analyses (Echotec Lab.)		
No. of samples: 794 at Av.cost of $16.83/sample		7,230.00
Report Writing: 10 days @ $400/day (Oct.8-Nov.21/96)		4,000.00
	Total	$162,440.53

Respectfully Submitted

H.L.King, M.A., P.Geo.

M.J.Poliquin, B.A.Sc., MSc

Revised Feb.6, 1997

15.0 STATEMENT OF QUALIFICATIONS

I, H.Leo King, of 4747 Marguerite Street, Vancouver, British Columbia do hereby certify that:
I am a geologist and a graduate of the University of Saskatchewan, B.A. (Geology) 1961, M.A. (Geology) 1966.

I am a member of the Association of Professional Engineers and Geoscientists of B.C. and a member of the Association of Professional Engineers of Ontario.

I am a Fellow of the Geological Association of Canada.

I have practiced my profession for over 30 years.

This report is based on personal supervision of the diamond drilling program and observations made on the mineral claims during July and August, 1996.

I am currently employed by H.Leo King and Associates as a Consulting Geologist.

H.Leo King, M.A.,P.Geo.
Nov.21, 1996

16T268

I, Morgan J. Poliquin of 5735 Hampton Place, Vancouver, British Columbia do hereby certify that:
I am a Geological Engineer and a graduate of the University of British Columbia, B.A.Sc. (Geological Engineering), 1994, and the University of Auckland, M.Sc. (Geology), 1996.

I am a member of the Society of Economic Geologists.

I am an Engineer in Training in the Province of British Columbia.

I have practiced my profession for over 2 years.

This report is based on personal supervision of the diamond drilling program and observations made on the mineral claims during July and August, 1996

I am currently employed by Kohima Pacific Gold Corp. as a Consulting Geological Engineer.

Morgan J. Poliquin, B.A.Sc., M.Sc.

Nov. 21, 1996

16.0 BIBLIOGRAPHY

Hendrickson. G.A.(1995): **Geophysical Report, Detailed Surveys, Munro Lake Area, Delta Geoscience Geophysics Report.**

Montgomery, J.H.and Giroux, G.H. (1996): **Report on the Rose Claims Group Munro Lake, Osoyoos Mining Division, Lausanne Development Corp., Jan. 15, 1996.**

Tempelman-Kliut, D.J., (1989): **Geological Map with Mineral Occurrences, Fossil Localities, Radiometric Ages and Gravity Field, for Penticton Map Area, Open File 1969;** Geological survey of Canada, Energy Mines and Resources, Canada, scale 1:250,000.

Wallis, R.H. (1977): **Silver and Gold Geochemistry of the MUN Claim Group;** Assessment Report 6399, Ministry of Energy, Mines and Petroleum Resources, B.C.

Watt, D.D. (1987): **Memo, Reverse Circulation drilling on the Rose Claim Group Munro Lake, B.C.;** Private Almaden Resources Corp. Report.

Watt D.D. (1987): **Overburden Drilling and Geochemical Sampling Report on the Rose Claim Group, Almaden Resources Corp., Nov. 24, 1987.**

Appendix 1

Diamond Drill Hole Logs

DRILL LOG

HOLE NO. M 96-1

DRILLING CO.	LOCATION SKETCH		TESTS		DATE STARTED:	PROJECT:
		DEPTH	DIP ANGLE	AZIMUTH		
		COLLAR			DATE COMPLETED:	N.T.S.:
					COLLAR ELEV.:	LOCATION:
					NORTHING:	
					EASTING:	
					AZIMUTH:	
					DEPTH:	DATE LOGGED:
HOLE TYPE					CORE SIZE:	LOGGED BY:

INTERVAL		LITHOLOGY			ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
FROM	TO	ROCK TYPE	COLOUR	TEXTURE			
						Trace mo @ 115.2	MAJOR SHEAR ZONES: (muddy) 97.8–98.0; 104.2–104.4, 106.0–106.1 @ 45° to core axis
117.3	142.8	Bio Granodiorite	Lt gy		Chloritic–ser margins to veinlets, locally some epidote altn, pale green (poss fine ser) clay altd feldspars in areas of major fracturing; a few carbonate stringers	Qtz–py veins 1mm–3mm locally a few K-spar py veinlets; vein freq 3 to 4/m.	Veining (most prominent) @ 20°–30°, another set @ 40°–50° MAJOR SHEAR (muddy) @ 121.4: (10cm T.w) – @ 30° to core " " and @ 125.0–125.6 " " and @ 126.7–126.9 @ 50° to core axis Note: SAWN PIECE @ 138.6 showing typical vein altn
142.8	145.7	Biotite Granod; ALT'd	med gy		Pervasive chloritic –ser altn; locally minor carbonate w. some clay altn.	Qtz–py veinlets; about 4 per m. locally up to 6 per m.	MAJOR SHEAR ZONE: 145.6–145.7
145.7	158.4	Bio Granodiorite	Lt gy		Chlor–ser altn along margins of veinlets; A few K-Spar Qtz–py pink veinlets. Sections w. major chlor–epidote (?) altn From 150.8–158.4m	Less Than 1% py minor mo specks @ 150.2m along veinlet.	Vein Freq: 6 per m. 2 main vein sets; one at 50° to 60°; the other @ 30° SHEAR ZONES: @ 50° from 151.0 to 152.6
158.4	167.4	Bio Granodiorite Highly sheared & fractured			chlor–epidote (?) locally K-rich veinlets	Qtz–py veining	muddy crushed shear zones @ 158.4–159.25 Shearing @ 60° to CA 159.55–159.75 160.20–160.90 162.15–162.35 163.40–163.70 Sections between shear zones are altered to chlor & epidote

DRILL LOG

HOLE NO. M-96-1

DRILLING CO.	LOCATION SKETCH	TESTS		DATE STARTED:	PROJECT:
		DEPTH	DIP ANGLE / AZIMUTH	JULY 6, 1996	MUNRO LAKE
BEAUPRE DIAMOND DRILLING LTD		COLLAR	−70° / 180°	DATE COMPLETED: JULY 9, 1996	N.T.S.: 82E 12; 82E 13
				COLLAR ELEV.: 1660 m	LOCATION: Lat 49°43'
				NORTHING: 9700 N	Long 119°55'
				EASTING: 3294 W	
				AZIMUTH: 180°	
				DEPTH: 251.5 m.	DATE LOGGED:
HOLE TYPE DIAMOND DRILL				CORE SIZE: N.Q.	LOGGED BY: H.L. KING

INTERVAL METERS FROM	TO	LITHOLOGY ROCK TYPE	COLOUR	TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
0	8.23	OVERBURDEN-TILL					
8.23	15.60	Bio. Granodiorite	Lt gy	Granitic m.g. equigran.	chloritic-sericitic along veinlet margins. A few K-feldsp.-qtz veinlets - minor carb in veinlets.	Pyrite concentrated along veinlets. Over all py is 1%-2% of rock mass.	Bio granodiorite: 10% bio, 15 to 20% qtz, Trace py along minor qtz-rich, carb veining; veinlets up to 1 to 2cm; freq: 3 to 4 veinlets per meter, veinlets have chloritic-sericitic margins up to 6cm from vein; veins generally at 40° to 50° to core axis. K-Feldsp.-qtz veinlets: freq 1 per meter; generally 20°-30° to core axis; Core pieces 5cm - 30cm, Av. 20cm. Highly fractured 11.3m - 14.6m.
15.60	24.7	Bio Granod. Increased vein density			As above; minor clay alt'n along fract.	Pyrite up to 2% within qtz-carb veinlets Over all py content 1 & 2% of rock mass	vein density increases to 5 per meter. From 16.4 - 17.2m, veins at 60° to core axis, and along core; Loc up to 2% py conc. along vein MAJOR SHEAR ZONE: 50° to 60° to core axis. From 20.2 - 21.4 qtz py veinlets w. up to 2% py, up to 2cm wide 21.4 - 21.6 silic vein, 5% py, minor K-Spar along vein. vein density (24.7 - 27.9) @ 3 per meter MAJOR FAULT ZONES: 24.6 - 24.8 fault gouge + highly frac. 26.9 - 27.4 " " " "
24.7	27.4	Bio granod. Sections highly shrd & fractured					
27.4	29.10	Bio granod. Increased veining			Chloritic-ser selvages up to 5cm wide	py up to 2% in qtz veinlets up to 2cm wide (Av. 1cm). py-moly veinlet @ 28.5-28.6	vein density increasing to 5 per m; veining @ 50°-60° @ 28.5 - 28.6, 2 mm wide py molybdenite vein @ 30° To core axis 27.4 - 28.4, 6 py-qtz veinlets Note: py-moly veinlet appears to cut py-qtz veinlet

DRILL LOG

HOLE NO. M-96-1

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS: DIP ANGLE	TESTS: AZIMUTH	DATE STARTED:	PROJECT:
		COLLAR			DATE COMPLETED:	N.T.S.:
					COLLAR ELEV.:	LOCATION:
					NORTHING:	
					EASTING:	
					AZIMUTH:	
					DEPTH:	DATE LOGGED:
HOLE TYPE					CORE SIZE:	LOGGED BY:

INTERVAL FROM	INTERVAL TO	LITHOLOGY: ROCK TYPE	LITHOLOGY: COLOUR	LITHOLOGY: TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
29.1	39.8	Bio Granodiorite	Lt gy	granitic	chlor-ser altn	Qtz-py veinlets	vein density (Qtz-py): 3 per m.; veins generally @ 40°-60°
				m-g,	along py-qtz veins	Hematite along frac	highly fract core from 30.0-31.2; Frac @ 30°, 45° & 70°
				equigran	2 K-spar-Qtz veins	@ 34.3 m.	core pieces av-10cm
					@ 29.5	Overall py content of	
						rock mass is 1 & 2%	
39.8	59.3	Bio granod.			K-spar-rich vein	Qtz-py veining	Qtz-py vein density increases to 9 per m
					@ 54.1 and @ 57.9	Trace mo @ 43.3	
59.3	64.3	Bio Aplite dike	Lt pink	f-g.		no mineralization	MAJOR SHEAR (muddy) @ 62 m and @ 62.9 m.
		w. remnants		gd mass			Dike locally cut by v f-g pink aplitic veins w.
		of biogranod.		m-g. bio			no biotite.
				flakes, 5%			
64.3	70.7	Bio Granod.			chloritic altn along	Qtz-py veining	MAJOR SHEAR ZONE @ 66-70 @ 30° to core; 5cm wide
					py-qtz veinlets	decreasing to 2 per	m. Dark gy, qtz vein cuts core @ conv angle - with
							finely dissem py 2% (?) from 66.9-67.7
70-7	72-8	Bio Aplite dike	Lt gy-pink	v-f-g		minor py along	MAJOR SHEAR (muddy) 72.6-72-8
				massive		fract 1% (?)	
				w. 5% bio			
				flakes			
72.8	117.3	Bio Granodiorite	Lt gy	m-g.	chloritic-ser altn	Qtz-py veining @ 2	per m. veining @ 20° to 30° & 40°
				.	along py-qtz veinlets	to 86 m. From	
					A few py-ilm-K spar-	86 m, veining increases	
					Qtz veinlets to 86.0 m.	To 4 per m.	
						moly-py veinlets	
						91.3. vein @ 10° to core axis.	

PAGE OF

DRILL HOLE NO

DRILL LOG

HOLE NO. M-96-1

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS: DIP ANGLE	TESTS: AZIMUTH	DATE STARTED:	PROJECT: MUNRO
		COLLAR			DATE COMPLETED:	N.T.S.:
					COLLAR ELEV.:	LOCATION:
					NORTHING:	
					EASTING:	
					AZIMUTH:	
					DEPTH:	DATE LOGGED:
HOLE TYPE					CORE SIZE:	LOGGED BY:

INTERVAL FROM	INTERVAL TO	LITHOLOGY: ROCK TYPE	LITHOLOGY: COLOUR	LITHOLOGY: TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
167.4	193.6	Bio Granodiorite	med gy-grn		Chlor-epidote(?)	qtz-py veining @	Highly alt'd sections; overall py content 1 to 2%.
		Highly alt'd.			a few K-rich qtz veinlets	70°-80°, 45°-50° and	major shear zone (muddy, brecciated, qtz veinlets
					Pale green epidote(?)	30°. Locally some	5-2py) at 169 m; 10 cm wide. @ 30°-40° to CA
					may be fg. sericite	dissem py away	Vein density ranges from 4 to 7 per m.
					alt'n of feldspars	from veinlets. Minor	veinlets @ 10°-30°, 45°-60° and a few @ 80°-90°
					Trace sericite along	moly along K-vein	@ 170.7-171.2 qtz py moly veinlet; @ 184.7 m of qtz
					some veinlets	margins at 171 m.	@ 186.6 qtz py moly veinlet @ 10° to CA
					Pale green sericite(?)	mo-py veinlets	1 cm vein 2% mo
					alt'n from 189.6-190.1	@ 184.7, 186.6 to 187.0	veinlets generally 1 mm-5 mm, locally up to
					along veining	est 2% mo + 2% py	3 cm wide. Good rock quality; pieces
						Av. py content of	av 15 cm; (up to 80 cm.)
						rock est @ 1% to 2%	Fractures @ 10°, 30°, 45° + 60°
						primarily along veinlets	
193.6	200.8	Bio Granodiorite			strong chloritic-sericite	Pyrite-quartz veinlets	- one qtz-py-moly veinlet @ 186.6-187.0
		mod. alt'd.			alteration on margins	Av. 5 to 7 per meter;	py-qtz veinlets @ 187.0-188; 193.6-200.6; veining
					of strong set of py-qtz	some pale-green	appears stronger from 189.0 to 200.6.
					veinlets @ 10° to 30° to	alteration of feldspars	qtz veinlets are wider (up to 3cm) and frequency increases
					core axis	to sericite; overall	to 7 veins per m from 189.0 to 200.6.
						pyrite content est. at 1 to 2%	The main vein set is @ 10° to 30° to C.A., a less well-devel.
							set ranges from 45° to 60° to C.A.
							Good quality core; av. pieces 30cm.

PAGE OF

DRILL HOLE NO

DRILL LOG

HOLE NO. M-96-1

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS: DIP ANGLE	TESTS: AZIMUTH	DATE STARTED:	PROJECT:
		COLLAR			DATE COMPLETED:	N.T.S.:
					COLLAR ELEV.:	LOCATION:
					NORTHING:	
					EASTING:	
					AZIMUTH:	
					DEPTH:	DATE LOGGED:
HOLE TYPE					CORE SIZE:	LOGGED BY:

INTERVAL FROM	INTERVAL TO	LITHOLOGY: ROCK TYPE	LITHOLOGY: COLOUR	LITHOLOGY: TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
200.8	204.2	Bio Granodiorite	ltgy-pale grn; vague fol.		Typical chloritic alt'n along vein margins - locally pale green alt'n feldspars; alt'n to sericite?	qtz-py veining; less well developed; smaller vein lets	Moddy Shear Zone @ 202m; 10° to C.A. vein frequency @ about 7 per meter. vein sets at 30° and at 40°-50°
204.2	208.8	Bio Granodiorite highly altered and mineralized.	ltgy-green	mottled, locally brecciated	chlorite-epidote, strongly altered	qtz-py veinlets; locally irregular patches of v.fg. molybdenite; minor moly along some veinlet margins; overall py content about 1%; chalcopyrite-rich zone from 208.1-208.8 (0.7m) in brecciated, silicified zone. Est 15% cpy (5% ew) over 0.7m. Locally irreg. patches hematite?	vein freq: 5/m. Good core recovery. minor qtz-py veining from 204.2 to 208.1 cpy-rich zone from 208.1 - 208.8
208.8	210.0	Breccia; silicified, alt'd; sheared.	ltgy-green	cataclastic mottled.	chlorite-epidote(?) Locally lt buff-colored albite?	Less than 1% dissem py	Shearing @ 10°-30° to C.A. slickensided surfaces.
210.0	211.0	Mineralized breccia qtz, chlor. albite(?)			chlor-albite(?)	chalcopyrite 7%; <2% py	Brecciated, chlor-quartz-albite rock, irregular whisps of cpy. Slickensided shearing at 0° to 20° to C.A.
211.0	211.5	Breccia; quartz-chlorite-albite(?)	lt gy	cataclastic, coarse-grained	chlorite, albite(?)	1 to 2% py; dissem.	

DRILL LOG

HOLE NO. M-96-1

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS: DIP ANGLE	TESTS: AZIMUTH	DATE STARTED:	PROJECT:
		COLLAR			DATE COMPLETED:	N.T.S.:
					COLLAR ELEV.:	LOCATION:
					NORTHING:	
					EASTING:	
					AZIMUTH:	
					DEPTH:	DATE LOGGED:
HOLE TYPE					CORE SIZE:	LOGGED BY:

INTERVAL FROM	INTERVAL TO	LITHOLOGY: ROCK TYPE	LITHOLOGY: COLOUR	LITHOLOGY: TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
211.5	212.3	Breccia, silicified, chloritic, pyritic.	Hgy-buff	coarse breccia	chlorite, albite	5% pyrite in dissem blebs, locally irregular patches hematite(?)	Highly fractured.
212.3	233.7	Granodiorite(?) Highly altered.	mottled grey, coarse, loc grey-grn	equigranular	Highly altd to chlorite and locally epidote	A few py-qtz veinlets @ 10°-30° to C.A.; <1% py Traces cpy @ 217.4. Irreg strs moly on shear plane with qtz-py albite vein @ 10° to CA. overall py 1% to 2%; locally pyrite up to 5%.	217.8-218.8 pyrite-qtz veinlets; 218.8-219.1; moly veinlets 219.1-220.1 Locally veining up to 5 cm wide. Pyrite content increasing to 2%;
233.7	226.5	Major Fault Zone in Highly altd granodiorite				Small pieces of pyrite-qtz veining; one small 1 cm clast of qtz-moly vein @ 224.9 m.	Oxidized sand and small pieces core to 5 cm. 80% core loss from 223.7-224.9 60% core loss from 224.9-226.5
226.5	231.3	Granodiorite. Highly altd to qtz-chlor-carb. Locally brecciated	Hgy-grn	mottled, massive, loc brecciated	Chlorite, carbonate, locally epidote	Py veining at about 4 per m; Locally up to 7 per m. Py est @ 1% to 2% locally up to 5% dissem py	veining predominately at 30° to C.A. Locally brecciated zones; Major shear zone; muddy, @ 30° to C.A. From 229.2-229.5
231.3	251.5	Bio Granodiorite	Hgy.	granitic. equigranular	chloritic altn up to 2 cm on each side of qtz-py veinlet. Loc. minor pink K-spar Intense chlor-ser-epidote(?) altn assoc. w. qtz-py veining From 237.2 to 238.9	Qtz-py veining up to 1 cm wide.	Vein frequency up to 4/m. Last meter of core is altd & chlor-ser. with py-qtz veinlets; py av. 2%; 20% py in last 10 cm.
	251.5	END OF HOLE					

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DRILL HOLE NO.

DRILL LOG

HOLE NO. M-96-2

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS: DIP ANGLE	TESTS: AZIMUTH	DATE STARTED:	PROJECT: MUNRO LAKE
Beaupre Diamond Drilling Ltd.		COLLAR	-60	180	DATE COMPLETED:	N.T.S.: 82E12; 82E13
					COLLAR ELEV.: 1675 m	LOCATION: Lat 49°43' Long 119°55'
					NORTHING: 9700 N	
					EASTING: 3172 W	
					AZIMUTH: 180°	
					DEPTH: 284.4	DATE LOGGED:
HOLE TYPE					CORE SIZE: NQ	LOGGED BY: M.J. Polquin

INTERVAL (meters) FROM	TO	LITHOLOGY: ROCK TYPE	COLOUR	TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
0	9.1m	Overburden - Till					Casing
9.1m	26.7m	QFP	lt grn	porph.	Plag+kspar → Ill + cal, g.m → chl + cal + illite.	dissem py, hem.	Quartz - Plag - kspar porphyry dike altered to an assemblage of illite, calcite, chlorite. Approx 1% dissem hematite.
26.7	31.6	Bio granodiorite	Lt grey	M.G. eq-gran.	Bio → musc., Plag → clc + alb? g.m. → chl + cal	py ± cpy along qtz veinlets	Biotite altered to muscovite, Plagioclase altered to calcite + albite, g.m → chl + cal. Minor qtz / py ± cpy veining.
31.6	34.0	QFP	Lt grn	porph.	Plag + kspar → Ill + cal g.m → chl + ill + cal	dissem py, hem	Quartz - Plag - kspar porphyry dike altered to an assemblage of illite, calcite, chlorite. Approx 1% disseminated hematite.
34.0	35	Bio granodiorite	Lt grey	M.G. eq. gran.	Bio → musc. Plag → clc - Alb? g.m. → chl + cal	py ± cpy along qtz veins	Biotite altered to muscovite Plagioclase altered to calcite + albite g.m → chlorite + calcite Minor qtz / py ± cpy veining.

DRILL LOG

HOLE NO. M-96-2

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS: DIP ANGLE	TESTS: AZIMUTH	DATE STARTED:	PROJECT:
		COLLAR			DATE COMPLETED:	N.T.S.:
					COLLAR ELEV.:	LOCATION:
					NORTHING:	
					EASTING:	
					AZIMUTH:	
					DEPTH:	DATE LOGGED:
HOLE TYPE					CORE SIZE:	LOGGED BY:

INTERVAL (meters) FROM	TO	LITHOLOGY: ROCK TYPE	COLOUR	TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
35	36.3	Q F P	Lt grey	porph.	Plag+Kspar→ illite+cal g.m→ill+cal+chl	dissem hem + py	Quartz-Kspar-Plag porphyry dike. Kspar+Plag altered to illite+calcite g.m. altered to illite+calc+chl. Minor dissem pyrite, hematite
36.3	38.2	bio-granodiorite	Lt grey	m.g. eq.gran.	Bio→muscov. Plag→clc+alb? g.m→chl+cal?		Potassic alteration? Shreddy biotite altered to muscovite. Calcite g.m with chlorite. Upper contact with QFP is parallel to core axis
38.2	41.5	Q.F.P.	Lt grey	porph.	Kspar-Plag→Ill+Cal g.m.→chl+cal.	dissem hem + py	Quartz-kspar-Plag porphyry dike, Kelvyan phenocrysts altered to illite+calcite, g.m. altered to chl+illite+calcite, dessemated hematite+pyrite.
41.5	53	bio-granodiorite	Lt grey	m.g. eq.gran.	textually preserved. Biotite→Muscovite Plag→alb?+clc	Kspar+Qtz veins w/ moly Qtz-py±cpy veins	Potassic alteration. Shreddy biotite altered to muscovite. Late stage calcite veins ~ 1/m vein density of Qtz-Kspar-py±mo veins ~ 0-20° to core axis

DRILL LOG

HOLE NO. MM-96-2

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS: DIP ANGLE	TESTS: AZIMUTH	DATE STARTED:	PROJECT:
		COLLAR			DATE COMPLETED:	N.T.S.:
					COLLAR ELEV.:	LOCATION:
					NORTHING:	
					EASTING:	
					AZIMUTH:	
					DEPTH:	DATE LOGGED:
HOLE TYPE					CORE SIZE:	LOGGED BY:

INTERVAL FROM	INTERVAL TO	LITHOLOGY: ROCK TYPE	LITHOLOGY: COLOUR	LITHOLOGY: TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
53	92	bio-granodiorite	ltgrey-grn	m.g. sheared.	texturally destructive chl-ser-cal-cly alteration.	~2/m kspar-Qtz veins ~5-7/m Qtz-py-cpy veins	texturally destructive chlorite-sericite-pyrite-calcite alteration overprint and is associated with increased Qtz ~~-kspar~~-py±cpy veining with sericite-chlorite-pyrite selvages.
92	124	bio-granodiorite	ltgrey green	m.g.	Patches of text. destructive	~3-4 Qtz-py-cpy veins/m ~1 Qtz-kspar vein/m	Texturally preserved alteration (potassic) with short sections of sheared texturally destructive sericite-chl-cal altered rock. Qtz-kspar-mb veins ~ 0°-30° to core axis Qtz-py-cpy veins with chl-ser-py selvages are 30°-60° to core axis
124	170	bio-granodiorite	green	m.g. sheared. equig.	Dominantly texturally destructive alteration.	~10 Qtz-py-cpy veins/m ~1-3 Qtz-kspar-mb veins/m	Sheared texturally destructive sericite-chlorite-calcite alteration. 141.1-141.5 breccia zone with rotated subrounded fragments of vein material in chl+cal matrix. Qtz-kspar-mb veins ~ 0-30° to core axis Qtz-py-cpy veins 20-45° to core axis.

DRILL LOG

HOLE NO. M-96-2

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS: DIP ANGLE	TESTS: AZIMUTH	DATE STARTED:	PROJECT:
		COLLAR			DATE COMPLETED:	N.T.S.:
					COLLAR ELEV.:	LOCATION:
					NORTHING:	
					EASTING:	
					AZIMUTH:	
					DEPTH:	DATE LOGGED:
HOLE TYPE					CORE SIZE:	LOGGED BY:

INTERVAL FROM	INTERVAL TO	LITHOLOGY: ROCK TYPE	LITHOLOGY: COLOUR	LITHOLOGY: TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
170	284.4	bio-granodiorite	lt grey	M.G. equigranular	Interspersed texturally preserved & texturally destructive alteration.	~7-10 Qz-py±cpy veins/m ~3-5 Qz-kspar-mol veins/m	191.5-193 m very sheared & veined, texturally destructive ser-chl-cal alter. 231-253 zone of more intense ser-chl-cal alteration. 264-269 zone of more intense ser-chl-clay alteration 274-275 zone of shearing and intense chl-ser alteration.

DRILL LOG

HOLE NO. MR-96-3

DRILLING CO.	LOCATION SKETCH		TESTS		DATE STARTED: JULY 14, 1996	PROJECT: MUNRO LAKE
		DEPTH	DIP ANGLE	AZIMUTH		
BEAUPRE DIAMOND DRILLING LTD.		COLLAR	-70°	180°	DATE COMPLETED: JULY 16, 1996	N.T.S.: 82E 12
					COLLAR ELEV.: 1635 m	LOCATION: Lat 49° 43'
					NORTHING: 9700N	Long 119° 55'
					EASTING: 3538W	SUMMERLAND AREA, B.C.
					AZIMUTH: 180°	
					DEPTH: 250.2 m	DATE LOGGED:
HOLE TYPE DIAMOND DRILL					CORE SIZE: NQ	LOGGED BY: H. L. KING

INTERVAL (METERS)		LITHOLOGY			ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
FROM	TO	ROCK TYPE	COLOUR	TEXTURE			
0	11.3	OVERBURDEN - TILL					
11.3	33.8	Bio Granodiorite	Lt gy	Granitic	chlor-sericite	Qtz-py veinlets	• @ 12.3 m, qtz veinlet w. disseminated py, tr cpy & tr bornite(?)
		Locally minor hornblende		equigranular	alt'n along margins	1mm to 2cm wide	@ 15.3 m to 16.3 m, qtz veinlets w. tr. molybdenite & minor py.
				Locally poorly	of veinlets; alt'n	specks moly with	vein freq.: 3/m.
				aligned mafic	extends to 3 cm	py in veinlets from	vein sets @ 0°-10° to C.A. (containing moly)
				minerals	from each side of	15.5-16.3 m.	other sets @ 30° and @ 40°-50°
					veinlet. Locally	@ 17.1 minor bornite(?)	Overall py content probably 2 to 3%, mainly
					some K-alt'n. Locally	with trace chalcopyrite	concentrated along qtz veinlets
					clay alteration along	@ 19.2 m, minor moly	Predom fract directions: 20° to 30°
					fractures	@ 20.9 m, minor bornite(?) v.f.g.	40° to 50° & 70°
						along margins of qtz veinlet.	Core is locally highly fractured.
						@ 24.5, 2cm vein let w. moly	
						along margins; Large	
						K-spars in some veinlets	
						Locally minor cpy	
33.8	42.2	MAJOR SHEAR ZONE		Primary	Intense chloritic	Qtz-py veining with	Small core fragments containing veinlets of qtz-
		IN Highly ALTered		textures	& Locally lt-green	minor cpy. Locally up	feldspar-pyrite. Locally minor chalcopyrite & molybdenite
		Bio Granodiorite		destroyed	f.g. sericitic alt'n.	To 10% py + 5% molybdenite	plus minor dk gy, metallic, brittle mineral - poss tetrahedrite(?)
							up to 50% Core loss from 35.4 to 37.5 m.
							A major mud seam from 35.8 to 36.1
							Qtz-moly-py veining @ 30° to C.A.
							Veins up to 7 cm wide.

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DRILL HOLE NO

DRILL LOG

HOLE NO. M-96-3

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS: DIP ANGLE	TESTS: AZIMUTH	DATE STARTED:	PROJECT:
		COLLAR			DATE COMPLETED:	N.T.S.:
					COLLAR ELEV.:	LOCATION:
					NORTHING:	
					EASTING:	
					AZIMUTH:	
					DEPTH:	DATE LOGGED:
HOLE TYPE					CORE SIZE:	LOGGED BY:

INTERVAL FROM	INTERVAL TO	LITHOLOGY ROCK TYPE	LITHOLOGY COLOUR	LITHOLOGY TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
42.2	44.2	Bio Granodiorite, Highly Alt'd & fractured	mottled gy-green	Replacement of orig granitic texture	Highly altered to pervasive chlorite-sericite rock.	veinlets of qtz-py up to 1cm wide. Minor cpy + moly. Overall py content 1% to 2%.	Highly fractured; veinlets @ 30° to 60° to C.A.
44.2	45.5	Major Shear Zone		mud to sand	clay (90%)		muddy fault gouge from 44.2 to 45.5 (1.3m) Shearing at 35° to CA
45.5	47.8	Bio Granodiorite, Highly altered & fractured		Primary Texture replaced up to 90% by chlor-ser	Locally clay-alt'd feldspars; early K-feldspar-qtz-py veinlets and later qtz-py veinlets in pervasively chloritized & sericitized rock.	1% py overall, mainly along quartz & qtz-K-Feldspar veinlets.	Highly alt'd granodiorite; brecciated sections Shearing at 40° to C.A. minor lost core (10% - 20%)
47.8	48.8	Major Shear Zone		muddy to highly brecciated	Highly clay-alt'd, & sericitic(?)		
48.8	117.3	Bio Granodiorite, Highly alt'd.	Pale grey-green	up to 90% primary Texture destroyed	Pervasive chlor-ser alteration; K-Feldspar in qtz veinlets. Sections highly alt'd to chlorite. Locally where textures preserved, feldspars alt'd to sericite (pale green) & locally to clay.	Qtz-K-Feldspar veinlets up to 3cm wide, 1% py. Trace moly to 50.5m. 1% moly from 50.5-51.0 sphalerite veinlet (1mm) @ 53.8m. @ 70° to C.A. Locally f.g. specs cpy py est. at 1 to 2% from 74m - with loc up to 5% py over up to 10cm widths.	Highly fract. core from 54.0 - 57.2 main fracturing @ 30° and 60° - 70° Qtz-K-spar veining @ 20°-30° to C.A. (main vein set) veinlets 1mm - 5mm; vein freq. 3 to 4 per m. * Dissem molybdenite (loc up to 1%) along Qtz-K-spar veinlets. From 54.8 - 111.4 m. - minor cpy @ 62.6m.

DRILL LOG

HOLE NO. M-96-3

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS: DIP ANGLE	TESTS: AZIMUTH	DATE STARTED:	PROJECT:
		COLLAR			DATE COMPLETED:	N.T.S.:
					COLLAR ELEV.:	LOCATION:
					NORTHING:	
					EASTING:	
					AZIMUTH:	
					DEPTH:	DATE LOGGED:
HOLE TYPE					CORE SIZE:	LOGGED BY:

INTERVAL FROM	INTERVAL TO	LITHOLOGY: ROCK TYPE	LITHOLOGY: COLOUR	LITHOLOGY: TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
					note: Pervasive chloritic and lesser sericitic alteration starts at 34m.	minor cpy w. py @ 62.6m	NOTE: qtz-py-t moly veinlets (10°-30° to CA) are early stage - without chlor-ser selvages. A second set of veinlets (py-qtz) at higher core angles, (60°-70°) are thinner (1mm - 4mm); later stage veins cut earlier set and have chloritic-ser selvages.
						Signif. moly min from 54.8 to 111.4m	
						c.g. sphalerite veinlet @ 74.8m; veinlet @ 50° to C.A.	
						note: @ 89.7, good example of early qtz-K spar-py vein cut by later qtz-py-cpy veinlet with wide chlor-ser selvage.	Vein freq of qtz-K-Spar-py (+- mo) From 54.8-64m: 2.5 to 3/m 64 - 73m: 1.5 to 2/m 73 - 86.2m: 1 to 1.5/m 86.2 - 93.9m: 2/m 95.9 - 106.9m: 1/m 106.4 - 117.3m: 2/m
						Major moly vein along core at 90.5m (2cm-wide veinlet).	Vein freq. of qtz-py set: From 54.8 - 64m: 1 to 1.5/m 64 - 73m: 2 to 3/m 73 - 86.2m: 1 to 2/m 86.2 - 95.9m: 2 to 3/m 95.9 - 106.4m: 4/m 106.4 - 117.3m: 2/m
						major chalcopyrite-rich 2cm vein @ 89.6m @ 50° C.A.	note: cpy mineralization appears to be assoc. with later stage qtz-py veining.
						*Noteable increase in moly min. from 91.8 - 95.6m; Locally up to 1 to 2% MoS_2.	Highly fractured core from 54.0 - 57.2m main fracturing @ 30° and @ 60°-70°.
						Locally higher grade moly from 106.3 to 107m, 108.2 to 108.8 & 110.8-111.4m. Also increase in py to 25% from 91.2 to 117.3m.	Shear zone: 63.5 - 63.8m; @ 30° to C.A.; 15cm T.W.
							Highly fractured core from 69.5 to 71.4m & 74.5 to 76.8m
							Lost Core: 75.8 to 76.8; 40% L.C. in 1m.
							main fracture sets @ 20°-30° and 50°-70°

DRILL LOG

HOLE NO. M-96-3

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS: DIP ANGLE	TESTS: AZIMUTH	DATE STARTED:	PROJECT:
		COLLAR			DATE COMPLETED:	N.T.S.:
					COLLAR ELEV.:	LOCATION:
					NORTHING:	
					EASTING:	
					AZIMUTH:	
					DEPTH:	DATE LOGGED:
HOLE TYPE					CORE SIZE:	LOGGED BY:

INTERVAL FROM	INTERVAL TO	LITHOLOGY: ROCK TYPE	LITHOLOGY: COLOUR	LITHOLOGY: TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
117.3	119.9	Qtz-Feldspar Porphyry dike;	med-gy to ltbrn	f-g feldspars & fgt qtz phenocrysts in aphanitic groundmass	Altered to carbonate+chlor +ser(?) cut by Iron carbonate stringers.	Trace pyrite	Sheared; soft; muddy clay shears up to 5cm wide at 60° contacts and throughout dike. Shearing @ 45° to C.A.
119.9	124.7	Qtz-Chlorite-Sericite rock.		spotty replacement Texture.	chlorite-sericite-quartz-pyrite	Dissem py 3-5%; Locally up to 10% py massive molybdenite blebs and stringers up to 2cm x 5cm from 122.0 to 122.3 m; Lost core from 122.3-123.7; From 123.7 to 124.7 massive strs molybdenite in qtz-rich host predom in white qtz vein trending @ 20° to CA. to along core. Similar mineralized vein on both sides of 1.4m section of Lost core.	Note: Lost core is in center of high grade moly min. Lost Core From 122.3 - 123.7 (1.4m) Min. Qtz vein is highly fract + broken from 119.9 to 124.3 Pyrite averages 2 to 3% with Locally up to 10% in vein; w. Blebs moly from 119.9 to 122.0 m; then strongly mineralized w. moly from 122.0-122.3 m. Core highly fract. from 120.7 to 126.5 m vein freq: qtz-py 2/m. qtz-K-spar, py, mo 2/m (1 large moly-rich vein from 122.3 to 124.7 with central portion missing; Lost core).
124.7	128.7	Breccia Zone Qtz-chlor-ser-py		Brecciated	chlorite, sericite	2 to 3% dissem py	No distinct veining - core highly fractured and sheared Shearing @ 30°, 45° and @ 70°

DRILL LOG

HOLE NO. M-96-3

DRILLING CO.	LOCATION SKETCH		TESTS		DATE STARTED:	PROJECT:
		DEPTH	DIP ANGLE	AZIMUTH		
		COLLAR			DATE COMPLETED:	N.T.S.:
					COLLAR ELEV.:	LOCATION:
					NORTHING:	
					EASTING:	
					AZIMUTH:	
					DEPTH:	DATE LOGGED:
HOLE TYPE					CORE SIZE:	LOGGED BY:

INTERVAL		LITHOLOGY			ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
FROM	TO	ROCK TYPE	COLOUR	TEXTURE			
128.7	138.7	Bio Granodiorite Highly Altered	Ltgy-grn	original granitic texture replaced by chlor-ser faint relict tex.	Chlorite-Sericite; minor carb veining	Dissem py, less than prev. section; about 1% py. Trace moly along qtz-K-spar veinlets @ 20° to core axis	vein density; qtz-py 2 to 3/m; veins @ 40° to 60° to C.A. qtz-K-spar 1/m; veins @ 30° Fractures @ 30°, 45° and 60°-70° much better quality core - pieces av. 20cm; loc up to 40cm
138.7	151.5	Bio Granodiorite	Ltgy	original texture 50% replaced by chlor-ser.	Chlor-ser altn Less intense some small patches of fresh-looking biotite possible hydrothermal	num qtz-py veinlets marked by distinct chlor-ser selveges py content 1% to 2% Tr moly along less abundant qtz-K-spar veinlets. High grade moly veining from 146.7-147.4 f.g. dissem moly from 148.0-149.4	vein density: qtz-py: 5/m; veins @ 40° to 70° to C.A. predom @ 50° From 145m vein density drops to 3/m. qtz-K-spar, py, mo: 1/m; veins @ 20°-30° to C.A.
151.5	156.1	Breccia Zone Highly Altd		Blotchy, Locally brecciated	Chlorite, sericite, cut by num qtz-py veinlets, locally some carbonate veining.	Py-cpy veinlets up to 3cm wide from 152.4 - 154.0 m moly-rich qtz-K-spar veining (up to 2cm) from 154.0 - 154.7 est @ 5% moss. Overall py @ 2 to 3%	qtz-Py-cpy veinlets @ 30° and 45°-70° to CA. moly-rich veining @ 20° - 40° to C.A. irreg veinlets Fracture sets @ 30°, 40°-50° and 60°-70°

DRILL LOG

HOLE NO. M-96-3

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS: DIP ANGLE	TESTS: AZIMUTH	DATE STARTED:	PROJECT:
		COLLAR			DATE COMPLETED:	N.T.S.:
					COLLAR ELEV.:	LOCATION:
					NORTHING:	
					EASTING:	
					AZIMUTH:	
					DEPTH:	DATE LOGGED:
HOLE TYPE					CORE SIZE:	LOGGED BY:

INTERVAL FROM	INTERVAL TO	LITHOLOGY: ROCK TYPE	LITHOLOGY: COLOUR	LITHOLOGY: TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
156.1	207.4	Bio Granodiorite	Ltgy	Granitic	Chlorite-sericite	Qtz-py veinlets predom.	Vein Frequency: Qtz-py ± cpy: 156-191m 3/m; generally 40° to 60° to C.A.
				over 50%	-50% of original	mimic qtz-K spar veining	191-207.4, 5/m.
				replaced by	textures destroyed	w. moly at 157.2 to	160.2m. Qtz-K spar, py ± mo: 1/m; generally 20° to 40° to C.A.; some @ 70° to along core.
				chlor-ser	Alternating sections up to 1m	High grade moly veinlet	overall py content est @ 1% to 2%; slightly less than prev. sec.
					in length of chlor-ser qtz rock	@ 167.0 in highly fract. core	
					assoc with qtz-py veining	Qtz-K spar-mo veinlets at	160.4 and Fractures: @ 30°, 40°-50° and 60°-70°
					Locally dk grn patches	163.4; High grade moly	Good quality core from 182m - 197.4m.
					epidote(?) assoc w. patches	in pink Qtz-K spar ± cpy	Several major shear zones @ 197.4 (2-4cm); muddy
					pale grn sericitic altn	veinlet @ 172.0 to 172.5	@ 205.4 to 205.5 (10cm) muddy @ 40°
					from 187.7 to 200.3	minor moly in veinlets	@ 206.6 to 207.4 (80cm) muddy (Pcore angle)
						@ 178.6, 180.4 to 180.6	
						and @ 182.5, and 189.6 to	190.0.
						and @ 197.6 to 197.8, @	
						198.3, 198.7 to 198.8, @	
						201.5 to 202.5 and @ 204.0	
						Sphalerite blebs @ 187.1	
						Cpy-rich veinlets (2cm)	
						@ 189.3 and 189.6 (Qtz-py veinlets).	
207.4	213.5	Breccia Zone		Cataclastic	Chlor-ser-qtz-	Disseminated py 1% to 2%	Major zone of faulting & brecciation
				brecciated	Albite(?) buff-brown	mainly in veinlets	muddy fault zones from 209.6 - 209.8 @ 35° to C.A.
				med-c. grained	mineral.		Sections of breccia interupted by unbrecciated sections of typical
				original textures			chlor-ser-qtz altd rock with qtz-py veining. Vein freq: 4/m.
				destroyed			No Qtz-K spar veining from 207.4m 213.5.

DRILL LOG

HOLE NO. M-96-3

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	TESTS AZIMUTH	DATE STARTED:	PROJECT:
		COLLAR			DATE COMPLETED:	N.T.S.:
					COLLAR ELEV.:	LOCATION:
					NORTHING:	
					EASTING:	
					AZIMUTH:	
					DEPTH:	DATE LOGGED:
HOLE TYPE					CORE SIZE:	LOGGED BY:

INTERVAL FROM	INTERVAL TO	LITHOLOGY ROCK TYPE	LITHOLOGY COLOUR	LITHOLOGY TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
213.7	230.4	Chlorite-Sericite-Qtz Rock	mottled med gy-grn	all orig textures destroyed	Chlorite-sericite	Qtz-py veinlets (2% py) minor Qtz-K spar veinlets; disem moly e 226.5m and e 220.1 to 228.0 along Qtz-K-spar veinlets. From 228.0 to 229.3 a Qtz-K spar, mo veinlet (2cm) runs along core, minor moly along margins. A later Qtz-py-cpy veinlet 30° to 40° to C.A. cuts earlier Qtz-K spar moly veinlet. * noticeable increase in pink K-spar-quartz veining increasing to 2/m. Also increase in moly: moly e 235.2-235.7, in fractures along veinlets. Significant moly in veinlets from 239.3-239.7 and 241.9 to 242.7 and @ 243.4, @ 246.2 and from 246.4 to 250.2 (end of hole).	Sections brecciated, highly fractured and sheared. Shearing @ 30° and @ 40°-50° vein Frequency: Qtz-py: 3 to 4/m; veining along core - 30; +40°-50° Qtz-K spar-py: 0.5/m (from 220.1m) veining 10°-30° Qtz-py-cpy veinlet (<1% cpy) from 223.7-229.7. Section from 220.1-223.5 is highly altd to clay, ser, chlor Good core from 228.0-230.4
230.4	250.2	Bio Granodiorite, Altered.			Altered to chlor-ser. alternating sections (about 50% of core) with original textures preserved.		Qtz-py veining: 3/m; Qtz-K spar, py ± mo: 2/m; along core to 20° to C.A. Good core from 230.4 to 250.2 Note: If hole drilled @ 90°, could expect much higher qtz-K-spar-py-mo vein density
@ 250.2	END OF HOLE						

PAGE OF

DRILL HOLE NO

DRILL LOG

HOLE NO. M-96-4

DRILLING CO.: Beaupre Diamond Drilling Ltd.	LOCATION SKETCH	TESTS: DEPTH / DIP ANGLE / AZIMUTH	DATE STARTED:	PROJECT: MUNRO LAKE
		COLLAR / -90 /	DATE COMPLETED:	N.T.S.: 82E12; 82E13
			COLLAR ELEV.: 1685 m	LOCATION: Lat 49°43' Long 119°55'
			NORTHING: 9480	
			EASTING: 2562 W	
			AZIMUTH: Vertical hole	
			DEPTH: 251 m	DATE LOGGED:
HOLE TYPE			CORE SIZE: NQ	LOGGED BY: M. J. Poliquin

INTERVAL (meters) FROM	TO	LITHOLOGY: ROCK TYPE	COLOUR	TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
0	3.7	overburden till	~~green~~	~~M.g. Equigranular~~			Casing
3.7	44	bio-granodiorite	green	M.g. Equigranular	texturally destructive ser-chl-calc alt.	1-3/m Qtz-kspar-mol veins ~0-30° to core 2-5/m Qtz-py ± cpy veins ~0-40° to core	Texturally destructive chlorite-Sericite-Calcite (green) alteration overprints the core and replaces biotite-feldspar. (Associated with increased shearing)
44	251m	bio-granodiorite	grey	M.g. Equigranular	texturally preserved (potassic) alt.	3-4 kspar-Qtz-mol vein/m 0-20° to core 3-5 Qtz-py-cpy veins/m -	Shredding biotite alteration + kspar flooding adjacent to Qtz-kspar veins. Zones of overprinting alt. 59-60.2 Sheared + chl-ser alt. 95-104 Sheared, chl-ser-cal alteration 97.5-100 brecciated core + intense chl-ser alt. 126-128 more intense ser-chl alteration 158-170 sheared core + texturally destructive ser-chl alt.

DRILL LOG

HOLE NO. M-96-5

DRILLING CO.	LOCATION SKETCH	DEPTH	DIP ANGLE	AZIMUTH		
BEAUPRE DIAMOND DRILLING LTD.		COLLAR	-70°	180°	DATE STARTED: JULY 23, 1996	PROJECT: MUNRO LAKE
		97.5 m	-66°	180°	DATE COMPLETED: JULY 27, 1996	N.T.S.: 82 E 12
		182.9 m	-66°	180°	COLLAR ELEV.: 1690 m	LOCATION: Lat 49°43'
		251.5 m	-67°	180°	NORTHING: 9600 N	Long 119°55'
					EASTING: 2440 W	
					AZIMUTH: 180°	
HOLE TYPE					DEPTH: 251.5 m	DATE LOGGED:
					CORE SIZE: NQ	LOGGED BY: H.L. KING

TESTS: DIP ANGLE / AZIMUTH

INTERVAL (METERS) FROM	TO	LITHOLOGY: ROCK TYPE	COLOUR	TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
0	7.9	CASING: GLACIAL TILL					
7.9	93.0	Bio Granodiorite	Lt gy	m.g. granitic, equigranular	Pervasive moderate, K-spar alteration qtz-py veinlets with very narrow chlor-ser selveges (up to 4 cm) minor qtz-K spar veinlets generally carry minor molybdenite.	overall py content is ≤ 1%. Qtz-py-sphalerite veinlet @ 19.3 m. Qtz-Kspar-mo veinlets @ 20.3-20.5, 22.3-22.8, 26.6-27.0, 31.8-32.0, 37.5-38.6, 43.2-43.5, 50.3-50.5.	Qtz-py veinlets frequency: 1/m; veining @ 20°-30° and @ 50° Qtz-Kspar, ±mo vein freq: <0.5/m to 0.5/m; veining @ along core to 20° (From 37.0-50.5) Qtz-py veining generally <1 mm wide Core quality generally good. Shearing & fracturing @ 40.5, 41.5, and 41.7 to 42.0 and from 79.7 to 80.2; core angles 20° to C.A., 20° to 30° and 40°-60°
93.0	124.8	Sericite-chlorite-quartz-carb rock	mottled pale green, bx section mottled med gy.	total replacement of original granitic texture	Predom sericitic alt'n w. lesser chlorite. Carbonate veining from 1mm to 10cm veins make up 5%.	minor dissem py along hairline fractures and dissem throughout rock (<1%). Hematite staining along margins of carbonate strs. Locally minor dissem sphal? within carbonate strs.	- Minor Qtz-py veining from 101 m to 117 m vein freq. is <1/m; veining @ 50°-70° to CA. Brecciated zone from 93.6 to 96.2 bounded by muddy shears @ 93.6 and @ 96.2 (5 cm muddy shears). Carbonate veining @ 60°-80° to along core. Major Shear Zone (crushed and muddy zone) from 120.5-121.9 m; shearing @ 35° to 40° to C.A.
124.8	150.2	Bio Granodiorite	Lt gy	Granitic	Pervasive, moderate K-feldspar alt'n. Intense chlor & ser alt'n from 134.0-139.2.	Qtz-K-spar veinlets up to 2 cm wide rolling along core from 126.4 to 127.2 and from 131.8 to 133.5 major Qtz-K spar-moly veinlet from 147.8 to 150.3 - veinlet rolling along core.	Indistinct Qtz-py veining (1 mm wide); freq: up to 1/m Qtz-K-spar-py ± moly veining is more distinct; Freq: <0.5/m to 1/m.

DRILL LOG

HOLE NO. M-96-5

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS: DIP ANGLE	TESTS: AZIMUTH	DATE STARTED:	PROJECT:
		COLLAR			DATE COMPLETED:	N.T.S.:
					COLLAR ELEV.:	LOCATION:
					NORTHING:	
					EASTING:	
					AZIMUTH:	
					DEPTH:	DATE LOGGED:
HOLE TYPE					CORE SIZE:	LOGGED BY:

INTERVAL FROM	INTERVAL TO	LITHOLOGY: ROCK TYPE	LITHOLOGY: COLOUR	LITHOLOGY: TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
150.2	173.2	Chlorite-Sericite-Qtz Rock.		Replacement texture, mottled, orig texture completely destroyed	Pervasive, intense Chlorite-Sericite	Overall py content increases to 1%-2% Several Large qtz-py veins; up to 4cm wide Locally py up to 5% in veins w. minor hematite	Qtz-py veining generally much thinner in M-96-5 Generally just hairline veinlets marked by chlor-ser alt'n along vein margins. Veinlets @ 10° to 35° to C.A. Also much less pyrite compared to holes M-1-96, M-2-96 & M-3-96. Qtz py veining freq. increases (from 150 to 173m) to 1.5/m. No Qtz-Kspar veinlets in this interval. Major Shear Zone from 160.6 to 165.5; shearing at 10° to 30° to C.A.
173.2	251.5	Bio Granodiorite		Granitic, m.g. equigranular	moderate, pervasive K alteration	Qtz-K spar-moly veinlets @ 173.3, 176.6, 181.2 + 81.5 Chalcopyrite-hematite qtz vein in shear zone from 208.9 to 209.1; up to 20% cpy locally Cpy-rich-hematite-qtz Carb vein from 210.5 to 211.3 (0.8m) Av. 30% cpy (10% cm) over 0.8m; vein @ 20° to C.A. Qtz-Kspar-moly vein (1cm) @ 214.7 to 215.0; vein runs along core. Qtz-K spar-moly veining noted @ 249 & @ 250 to 251.5m.	Qtz-py veinlets frequency Av. 1/m (locally up to 2/m) -veining at 30° & 40°-50° to C.A. Only a few Qtz-K spar veinlets; frequency < 0.5/m. -veining rolling along core to 20° Major Shear Zone; 207.5 to 209.3; shearing @ 30°-90°; highly fract & moldy zone. - -Vein has 20cm section of chalcopyrite w. one 10cm piece containing up to 20% cpy. This cpy-rich section has at least 30 cm of Lost Core. Qtz-Py vein freq decreases to 1/m From 230m to end of hole. - Veining generally at 30° with a few at 40° to 50°. Only 4 Qtz-K spar ± moly veinlets from 215m to 240m. with Increase from 240m to 251m to 0.5/m.
	251.5	END OF HOLE.					

DRILL HOLE NO.

DRILL LOG

HOLE NO. M-96-6

DRILLING CO.	LOCATION SKETCH	TESTS		DATE STARTED:	PROJECT:
		DEPTH	DIP ANGLE / AZIMUTH	JULY 28, 1996	MUNRO LAKE
BEAUPRE DIAMOND DRILLING LTD.		COLLAR	-70° / 180°	DATE COMPLETED: AUG 1, 1996	N.T.S.: 82 E/12
		91.4 m	-67° / 180°	COLLAR ELEV.: 1615 m	LOCATION: Lat 49°43'
		182.9 m	-67° / 180°	NORTHING: 8640 N	Long 119°55'
		259.1 m	-66° / 180°	EASTING: 2196 W	
				AZIMUTH: 180°	
				DEPTH: 259.1 m	DATE LOGGED:
HOLE TYPE				CORE SIZE: NQ	LOGGED BY: H.L. KING

INTERVAL (meters)		LITHOLOGY			ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
FROM	TO	ROCK TYPE	COLOUR	TEXTURE			
0	13.4	Casing					
13.4	259.1	Bio Granodiorite	Lt gy	Granitic, m-g. Porphyritic 5% large (2cm dia) Porphyroblasts of feldspar	Pref'm sericitic alt'n along qtz-chlor-py veinlets. Chloritic alt'n w. tr py along hairline fract @ 20° and 45°-50°. Weak pervasive K alt'n. Ser-chlor altered sect from 48.8 to 50.7; pervasive K alt'n increasing slightly from 58m onward. Zone of chlor-ser alt'n from 95.2 to 99m assoc w. shear zone, 30° to 40° Highly chloritic alt'd zone (bx zone) from 110.8 to 111.3m.	Trace py along qtz-chlor-py veinlets (hairline to 0.5cm). A few qtz-py veinlets. One vein @ 19.2m (1cm wide) w. up to 5% mos2 + tr py (Sample cut w. saw). Vein @ 30° to CA. moly also @ 22.5m; tr Chalcopyrite @ 38.0m in qtz-py-cpy veinlet (1cm wide). Minor py dissem and in selvages. Overall 1% py. Grey qtz vein (10cm) at 40.5m (at end of L.C. section). <1% py in vein. 5° to CA. Qtz-py-cpy veining from 48.8 to 49.5; 2 qtz veins contain up to 5% py & 2% cpy. veins up to 5cm wide. Moly-qtz vein (1cm wide) @ 86.3m, est 5% mos2 along margins of vein.	Qtz-py-chlor veinlets ± py; some along hairline fract with out alteration selvages, but larger veinlets (4cm-4cm) have chlor-ser selvages. Veins @ 20°, 30° and 45°-50° to CA. Good quality core; Fractures at 30°, 40° to 50° and 60° to 70°. Qtz-py vein frequency is 1/m to 53m; <0.5/m from 53 to 69m. <0.5-1/m from 69 to 121m. Qtz-K spar ± mo ± py vein freq. is <0.5/m to 80m. veining is @ 30° and 95° 1/m from 80m to 90m.
							LOST CORE: 39.5 to 40.5m.
							Highly fract. & Glt'd Section from 48.8 - 50.7m. Fracturing @ 30°, 45° & 70°.
							Shear zone from 95.2 to 99m, at 30° to 40° to CA
							Moly vein @ 35° to CA.

PAGE ... OF ...

DRILL HOLE NO.

DRILL LOG

HOLE NO. M-96-6

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS: DIP ANGLE	TESTS: AZIMUTH	DATE STARTED:	PROJECT:
		COLLAR			DATE COMPLETED:	N.T.S.:
					COLLAR ELEV.:	LOCATION:
					NORTHING:	
					EASTING:	
					AZIMUTH:	
					DEPTH:	DATE LOGGED:
HOLE TYPE					CORE SIZE:	LOGGED BY:

INTERVAL FROM	INTERVAL TO	LITHOLOGY: ROCK TYPE	LITHOLOGY: COLOUR	LITHOLOGY: TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
					Ser-chlor alt'd zone	Only trace pyrite	A few small (2 cm) aplite (pink) veins cut core
					from 119.0–121.0 assoc	from 90 m to 121 m.	from 106 m to 118 m; veining @ 45° and @ 70° to CA.
					w. 30° & 50° chloritic shear	Pyrite in veinlets	Qtz-chlor ± py veinlets: frequency 1/m from 121–162 m.
					zones.	increases from 121 m	0.5/m from 162–199 m.
					Noticeable increase	To 162 m but overall	≤0.5/m from 199–209 m.
					in amount of Kaolin	< 1% py.	-veining at 30°–35° and 80° to CA.
					(white) coating on fractures	Three molybdenite	Qtz-± py ± moly veins are rare from 121 to 209 m
					from 122 m to 220 m	veinlets: one at 122 m	bearing w. frequency ≤ 0.5/m.
					Increase in sericite-	(≤ 0.5 cm wide); two @	
					chlorite alt'n along	123 m; veinlets @ 45° & 50° to CA.	
					Qtz-py veining from	Qtz-py veins w. chlor-ser	
					225 m to 259.1 m	selvages are stronger (up to	Qtz-py-chlor-ser veining @ 20°–30° & 45° & 70° to CA from 225–259 m
					Also increase in	2 cm wide) from 140–199 m.	Noticeable increase in Qtz-py-chlor-ser veining to 1/m from 225–259 m.
					Kaolin from 225 m to	Also increase in py from	Also increase in Qtz-py-K spar ± moly veining to 1/m from 225–259 m
					end of hole.	151–225 m; overall py	veining @ along core to 20°–30° and 80°–90° to CA
						still < 1%.	from 225 m to 259 m.
						A set of late stage Qtz ± py	
						veinlets from 121–225 m a.e	
						clearly later than Qtz-py-chlo-ser veinlets	
						moly noted in veinlets	
						@ 226.0, 234.0, 235.7,	241.2 & 251.5
	259.1	END OF HOLE					

PAGE OF

DRILL HOLE NO

DRILL LOG

HOLE NO. M-96-7

DRILLING CO.	LOCATION SKETCH	TESTS		DATE STARTED: AUG 2, 1996	PROJECT: MUNRO LAKE
		DEPTH	DIP ANGLE / AZIMUTH		
BEAUPRE DIAMOND DRILLING LTD.		COLLAR	-60° / 180°	DATE COMPLETED: AUG 5, 1996	N.T.S.: 82 E 12
		91.5	-57° / 180°	COLLAR ELEV.: 1645 m	LOCATION: Lat: 49°43'
		182.9	-55° / 180°	NORTHING: 8935 N	Long: 119°55'
		237.7	-52° / 180°	EASTING: 3090 W	
				AZIMUTH: 180°	
				DEPTH: 239.3 m	DATE LOGGED: / /
HOLE TYPE				CORE SIZE: NQ	LOGGED BY: N. L. KING

INTERVAL meters		LITHOLOGY			ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
FROM	TO	ROCK TYPE	COLOUR	TEXTURE			
0	12.2	CASING - GLACIAL TILL					
12.2	32.8	Bio Granodiorite	ltgy	granitic, equigranular, m.g.	A few pink K-Spar - qtz veinlets with chlor-ser alt'n along selveges.	minor py along hair-line qtz-py veinlets with a few up to 1cm wide.	Quartz-Kspar veinlets generally < 1cm wide, with trace of py. Vein frequency about 1 per 6m. veinlets generally at 30° to CA. Quartz-py veinlets are very narrow, marked by chlor-ser alt'n along margins. Frequency: 1/m to 2/m. veining generally at 35°-90° to CA. Good quality core - Fractures @ 30° to 90° and at 60° to CA.
32.8	33.0	Mafic dike alt'd.	dkgy-grn	m.g. granitic texture	chlorite-sericite	1 to 2% py	
33.0	36.4	Biotite Granodiorite, highly Alt'd.	pale grn-gy	replacement texture	chlorite-sericite, over 90% of original granitic textures replaced by mottled chlor-sericite.	minor amounts of py. < 1% along qtz-py veinlets. Sphalerite-py veinlet @ 33.7, 1cm wide @ 90° to CA.	
36.4	39.4	Mafic feldspar porphyry dike	Dk grey-grn	Porphyritic, vfg ground mass	Chlorite-Sericite	Dissem py along hair line qtz-py veinlets. < 1% py; A 10cm wide qtz-py vein at 37.9-38.4 at 20° to CA; upto 10% py in vein.	
39.4	41.0	Bio Granodiorite	ltgy	granitic, m.g.	Chlorite-Sericite along qtz-py veinlet margins	qtz-py veinlets, < 1% py overall.	

PAGE OF

DRILL HOLE NO

DRILL LOG

HOLE NO. M-96-7

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS: DIP ANGLE	TESTS: AZIMUTH	DATE STARTED:	PROJECT:
		COLLAR			DATE COMPLETED:	N.T.S.:
					COLLAR ELEV.:	LOCATION:
					NORTHING:	
					EASTING:	
					AZIMUTH:	
					DEPTH:	DATE LOGGED:
HOLE TYPE					CORE SIZE:	LOGGED BY:

INTERVAL FROM	INTERVAL TO	LITHOLOGY ROCK TYPE	LITHOLOGY COLOUR	LITHOLOGY TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
41.0	45.1	Sericite-Chlorite-Quartz rock.	Pale gy-grn	original textures replaced by chlorite + sericite	Sericite-Chlorite	Quartz-py veinlets one Large (5 cm wide) qtz-py-sphalerite(?) vein at 20° to @ along core. Locally up to 20% c.g. pyrite from 43.5 to 44.3. <1% py overall excluding py in Large vein.	Quartz-pyrite veinlets: Frequency: 2/m; veining at 20° to 40° to CA. Core is highly fractured and sheared; predom shearing & fracture directions @ 30° to 45° to CA.
45.1	122.7	Bio Granodiorite	Lt gy	granitic, m-g.	Locally pervasive, strongly altd to chlor-ser from 47.7–50.5 chlor-ser altn along qtz-py veinlets Generally pervasive, but weak potassic alteration. There is a slight increase in K altn from 90m to 112m Generally only narrow chlor-ser selvages along qtz-py veinlets.	Small K-spar-Qtz veinlets (<1mm) at 45.0–45.5, 47.3, 52.8, 53.5, 54.6, 59.3, 59.9, 60.2, 60.4 and 60.6 minor moly and trace cpy noted in veinlets @ 52.8, 53.5, 59.3, 60.2, 60.4, 60.6, 76.7, 78.2, 79.6, 81.4, 88.8, and 89.8. Qtz-K spar veinlets are sharp, narrow (<1cm) Generally @ 40°–50° to CA. Overall py content is <1%	There is a noteable increase in Qtz-K spar veinlets from 57m to 90m. Frequency is about 1.5/m. Veining is @ 35° and 40°–50° to CA. (1 veinlet along core). Qtz-py veinlets frequency is 1 to 1.5/m Major Shear & Fracture Zone from 69.8 to 82.8 Muddy shears from 69.3 to 69.6 71.2 to 71.4 74.6 to 75.0 75.7 to 75.9 Shearing is @ 30° and @ 60° to CA.

PLOT ... OF

DRILL HOLE NO.

DRILL LOG

HOLE NO. M-96-7

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS: DIP ANGLE	TESTS: AZIMUTH	DATE STARTED:	PROJECT:
		COLLAR			DATE COMPLETED:	N.T.S.:
					COLLAR ELEV.:	LOCATION:
					NORTHING:	
					EASTING:	
					AZIMUTH:	
					DEPTH:	DATE LOGGED:
HOLE TYPE					CORE SIZE:	LOGGED BY:

INTERVAL FROM	INTERVAL TO	LITHOLOGY ROCK TYPE	LITHOLOGY COLOUR	LITHOLOGY TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
					Locally sericite (pale green) alt'n is found along veinlets upto 10 cm on each side. Generally rock appears less alt'd than prev. sections	Locally qtz-hematite-py veinlets, weak veining assoc. with ser-chlor alt'n along selveges. Tr cpy @ 110.4 assoc. w. Qtz-Kspar veinlet. moly in veinlets @ 108.3 & 110.9	Qtz-py veining frequency; 90m to 95m is <0.5/m 95 to 105m veining @ 20°, 40°-50° and @ 70° Qtz-K spar-py±moly veinlet frequency: 100-112m is <0.5 m to 2/m. veining @ 35° to 50° to CA one pink aplite (2cm) vein @ 102.6m; @ 30° to CA one 10cm aplite vein @ 113.9m - 114.2m; @ 30° to CA LOST CORE: 101.0 to 104.3
122.7	207.6	Bio Granodiorite Locally highly alt'd.			Highly altered & Chlor-ser from 140.3 to 141.5 and 142.3 & 193.3 Increase in pervasive K alt'n from 120m - 168m. noted in Qtz-Kspar veinlets @ 180.9 and 182.7. Only very minor py noted after 183m.	No molybdenite mineralization noted beyond 168 m. minor chalcopyrite.	Qtz-Kspar vein frequency: 168-188m; 1/m 188-192.5m; 2/m 192.5-202m, <0.5/m 202-207.9m, 1/6m veining @ 40°-50° to C.A.
					Locally carbonate veinlets along shears. K alt'n & chlor-ser alt'n decreases after 168m. Gradual increase in K alt'n from 196m - 207.6. Chlor-ser alt'n in zone of shearing from 197.7 to 201.4.		SHEAR ZONE: 197.7 to 201.4

PAGE OF

DRILL HOLE NO

DRILL LOG

HOLE NO. M-96-7

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS: DIP ANGLE	TESTS: AZIMUTH	DATE STARTED:	PROJECT:
		COLLAR			DATE COMPLETED:	N.T.S.:
					COLLAR ELEV.:	LOCATION:
					NORTHING:	
					EASTING:	
					AZIMUTH:	
					DEPTH:	DATE LOGGED:
HOLE TYPE					CORE SIZE:	LOGGED BY:

INTERVAL FROM	INTERVAL TO	LITHOLOGY: ROCK TYPE	LITHOLOGY: COLOUR	LITHOLOGY: TEXTURE	ALTERATION	MINERALIZATION	REMARKS (lithology, alteration, mineralization, structure, age relations, etc.)
207.6	207.9	mafic dike	dk gy-grn	f.g. massive a few rounded clasts of feldspar(?)		no mineralization	major shearing on both contacts, brecciated, alt'd pale green zone of sericite-chlorite 10 cm wide on one ct. ; 20 cm wide on lower ct. shearing @ 50° to CA.
207.9	227.4	Bio Granodiorite	lt gy	granitic, m.g.	moderate, pervasive K alt'n with major ser-chlor alt'n along shear zones and within crushed zones.	no mineralization - only minor K-Qtz veining (<0.5/m) no K spar-Qtz veining from 211.0m minor, thin sheared, Qtz-py-chlor-ser veining very minor pyrite.	Zone of CRUSHING & SHEARING from 207.9-212m Predom shearing directions are 50° to 80° Fracturing @ 45° and 70° from 207 to 227.4m. MAJOR SHEAR ZONE From 222.3 to 223.6 (1.3m) mud & sand from 223 to 223.6 (0.6m) with shearing @ 60°-70° to CA.
227.4	234.4	Feldspar Porphyry dike	lt-med brn	Porphyritic v.f.g. groundmass	Carbonate-Ankerite in lt brown patches and in veinlets	no mineralization	major Shear Zone from 234.0 to 234.4 on contact with Bio granodiorite. Shearing @ 40° to CA.
234.4	239.3	Bio Granodiorite	lt gy	granitic, m.g.	chlor-ser alt'n along veinlet margins at 237.2 to 237.4	2 Qtz-py (tr py) veinlets with chlor-ser alt'n along margins @ 237.2 to 237.4	Quartz-chlor-ser veinlets @ 30° to CA Quartz-Kspar veinlets @ 40° (almost 90° to 30° vein set.) LOST CORE: 238.5 to 239.3 MISCATCH - Ground core.
	239.3	END OF HOLE				NOTE: Qtz-Kspar veinlet w. no alt'n along margins cuts Qtz-py vein with chlor-ser selvage.	

PAGE OF DRILL HOLE NO

Appendix 2

Diamond Drill Hole Sections

9750.0 N
9700.0 N
9650.0 N
9600.0 N
9550.0 N

M-96-1

1600.0 m
1500.0 m
1400.0 m

-20 0 20 40 60
Scale 1:1000

40600.00
7600.00

5000.00
4000.00
3000.00
2000.00
1000.00

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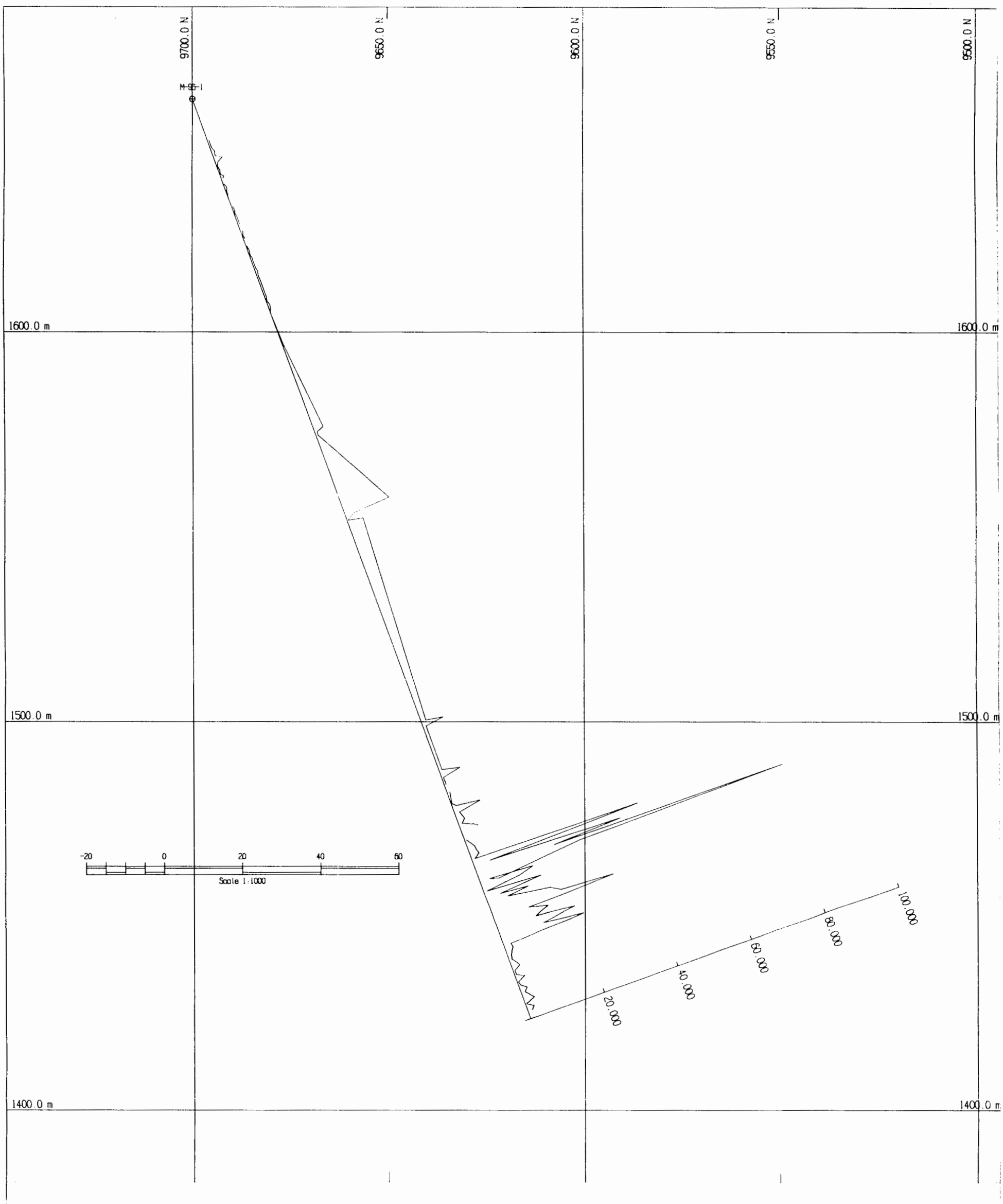
UNITS : METRES DATE: 97/02/10 TIME: 17:26:47

North-South Section, Looking East
Drillhole M-96-1, Section 3171 W
Cu Geochem Analysis

Software by GEMCOM Services Inc.



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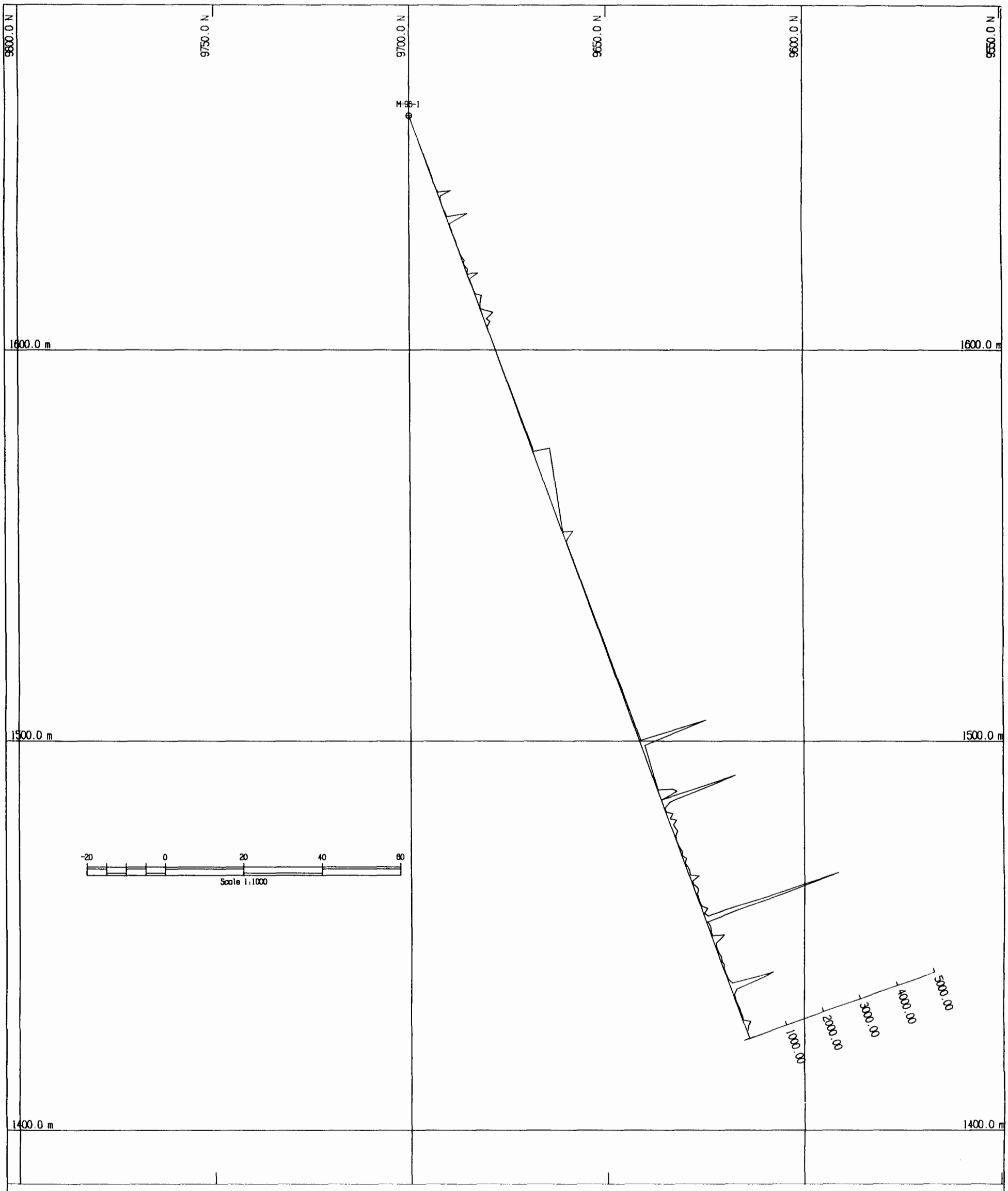
UNITS : METRES DATE: 97/02/10 TIME: 14:01:10

North-South Section, Looking East
Drillhole M-96-1, Section 3172 W
Ag Geochem Analysis

Software by GEMCOM Services Inc.



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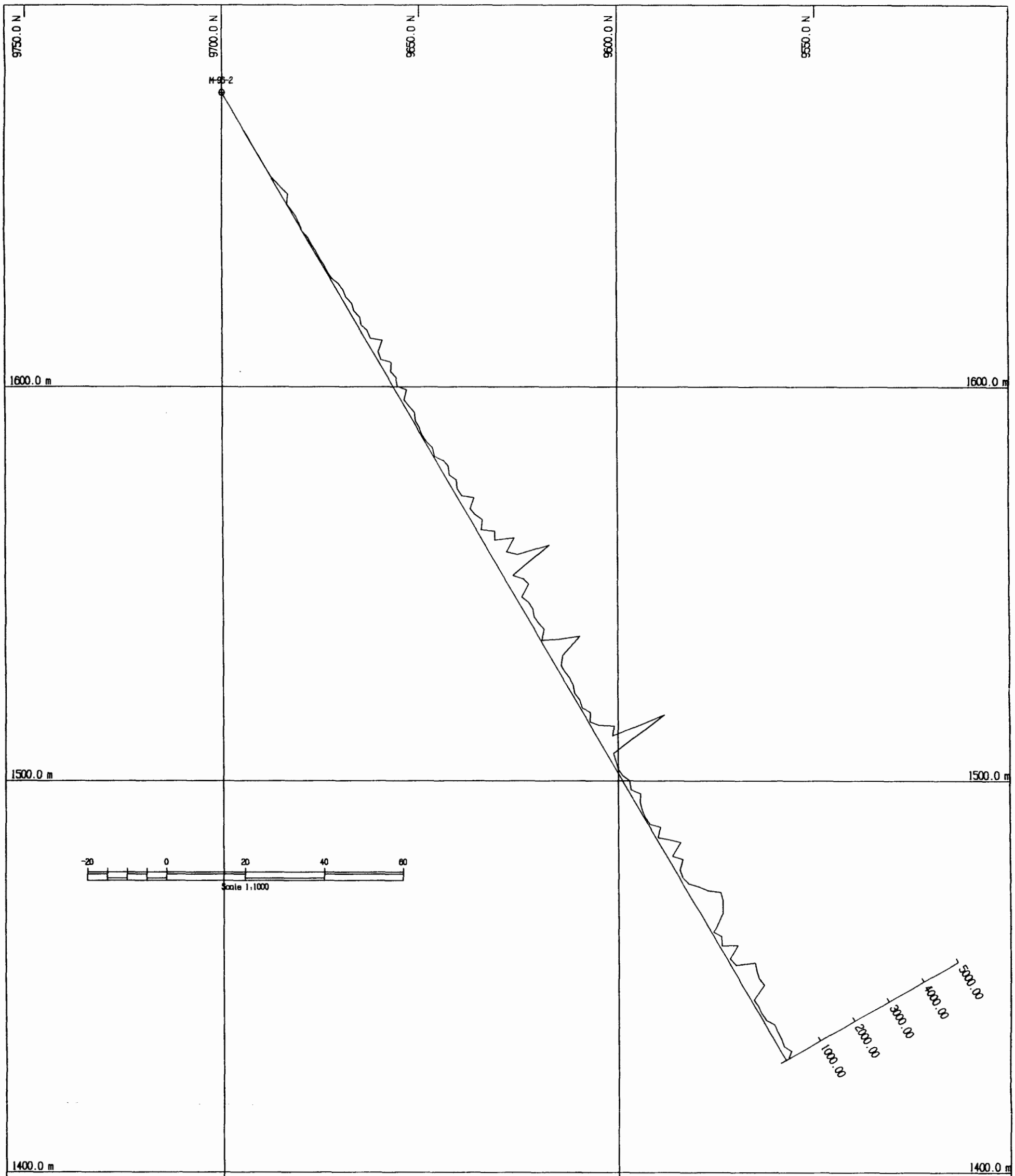
UNITS : METRES DATE: 97/02/10 TIME: 16:58:50

North-South Section, Looking East
Drillhole M-96-1, Section 3172 W
Mo Geochem Analysis

Software by GEMCOM Services Inc.



Almaden Resources Corp.
Vancouver Office
Vancouver, BC
689-7644

UNITS : METRES DATE: 97/02/10 TIME: 16:30:35

North-South Section, Looking East
Drillhole M-96-2, Section 3294 W
Cu Geochem Analysis

Software by GEMCOM Services Inc.

9700.0 N
9650.0 N
9600.0 N
9550.0 N
9500.0 N

M-96-2

1600.0 m
1500.0 m
1400.0 m

-20 0 20 40 80
Scale 1:1000

100.000
80.000
60.000
40.000
20.000

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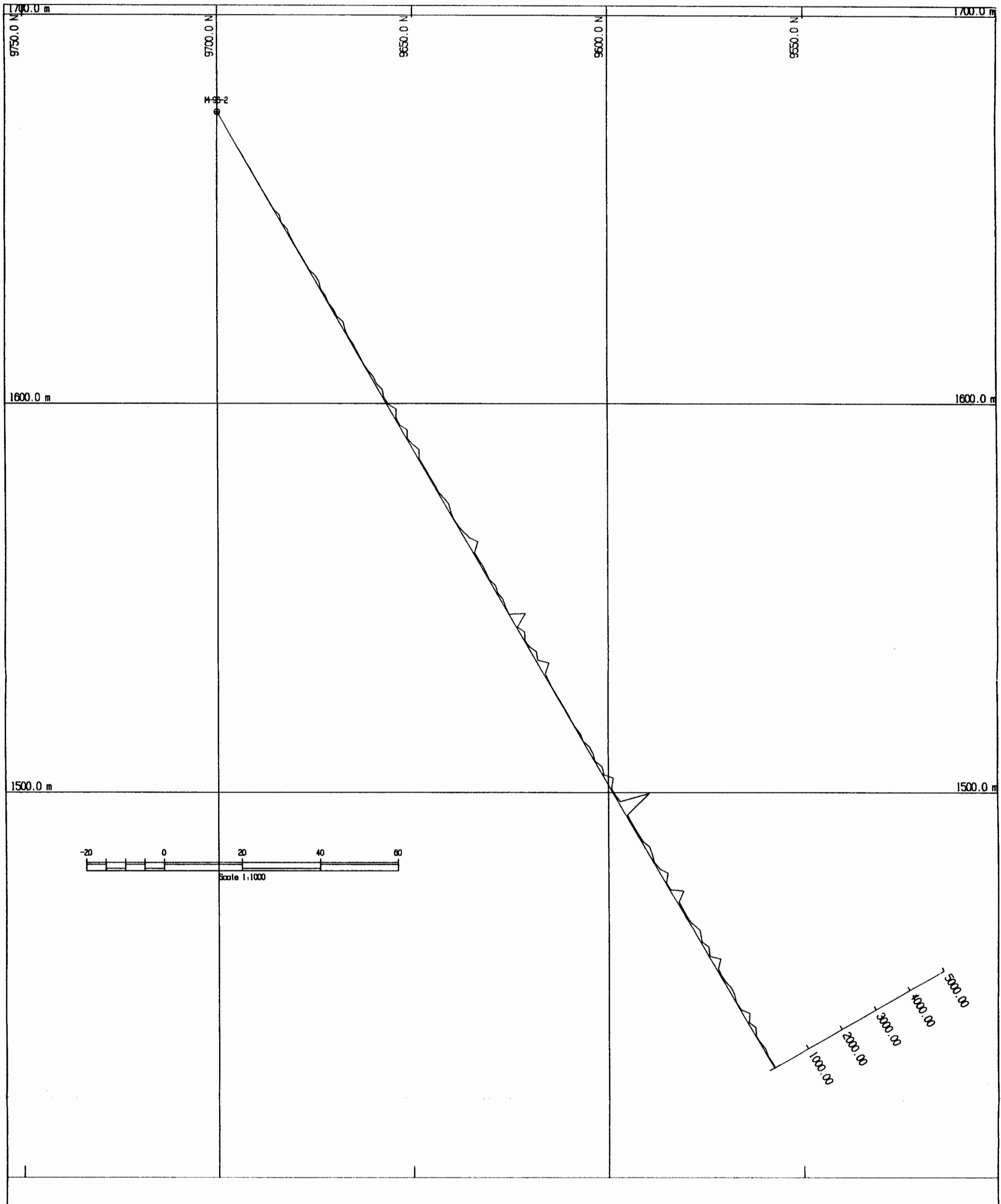
UNITS : METRES DATE: 97/02/10 TIME: 14:07:42

North-South Section, Looking East
Drillhole M-96-2, Section 3294 W
Ag Geochem Analysis

Software by GEMCOM Services Inc.



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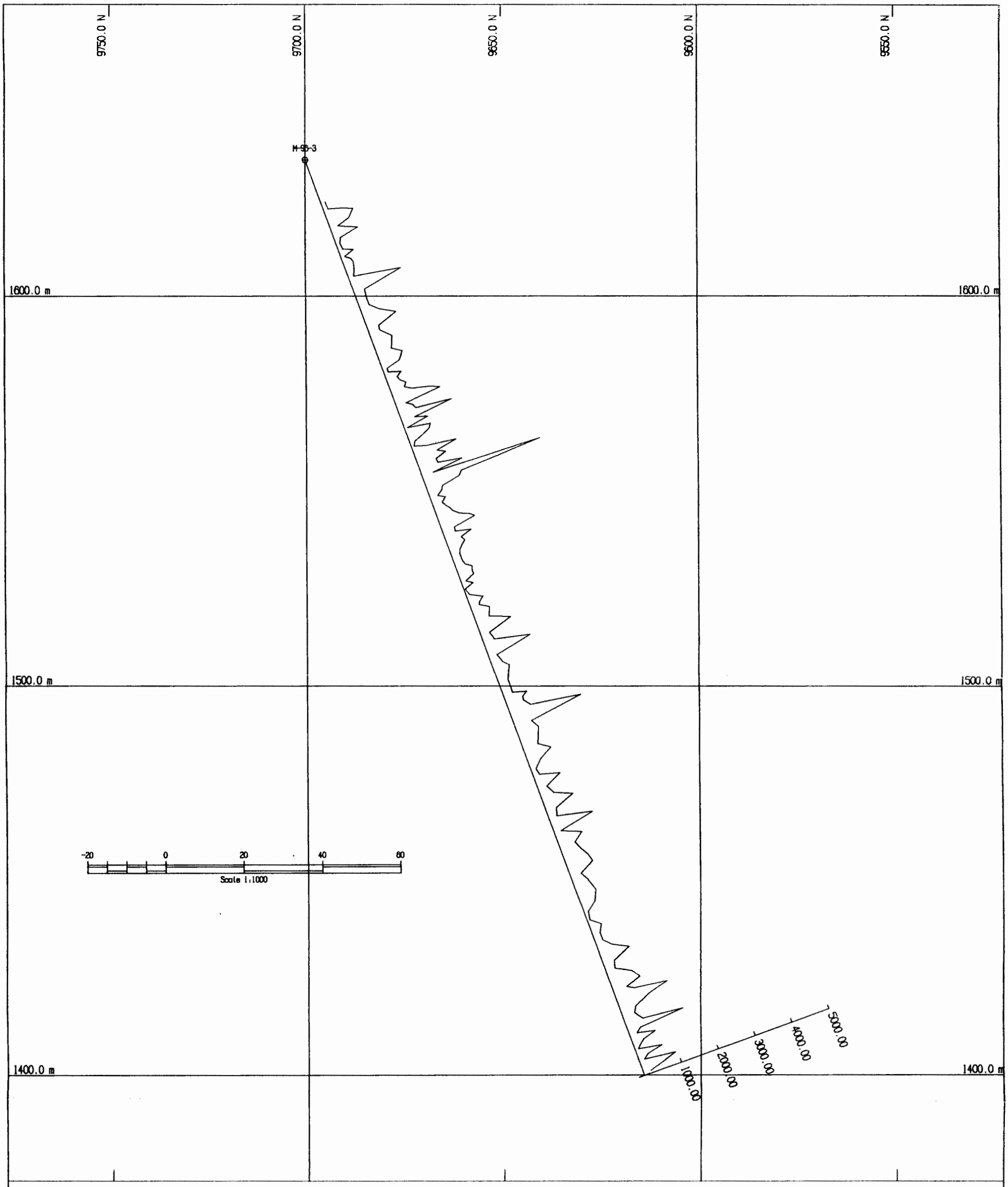
UNITS : METRES DATE: 97/02/10 TIME: 17:02:34

North-South Section, Looking East
Drillhole M-96-2, Section 3294 W
Mo Geochem Analysis



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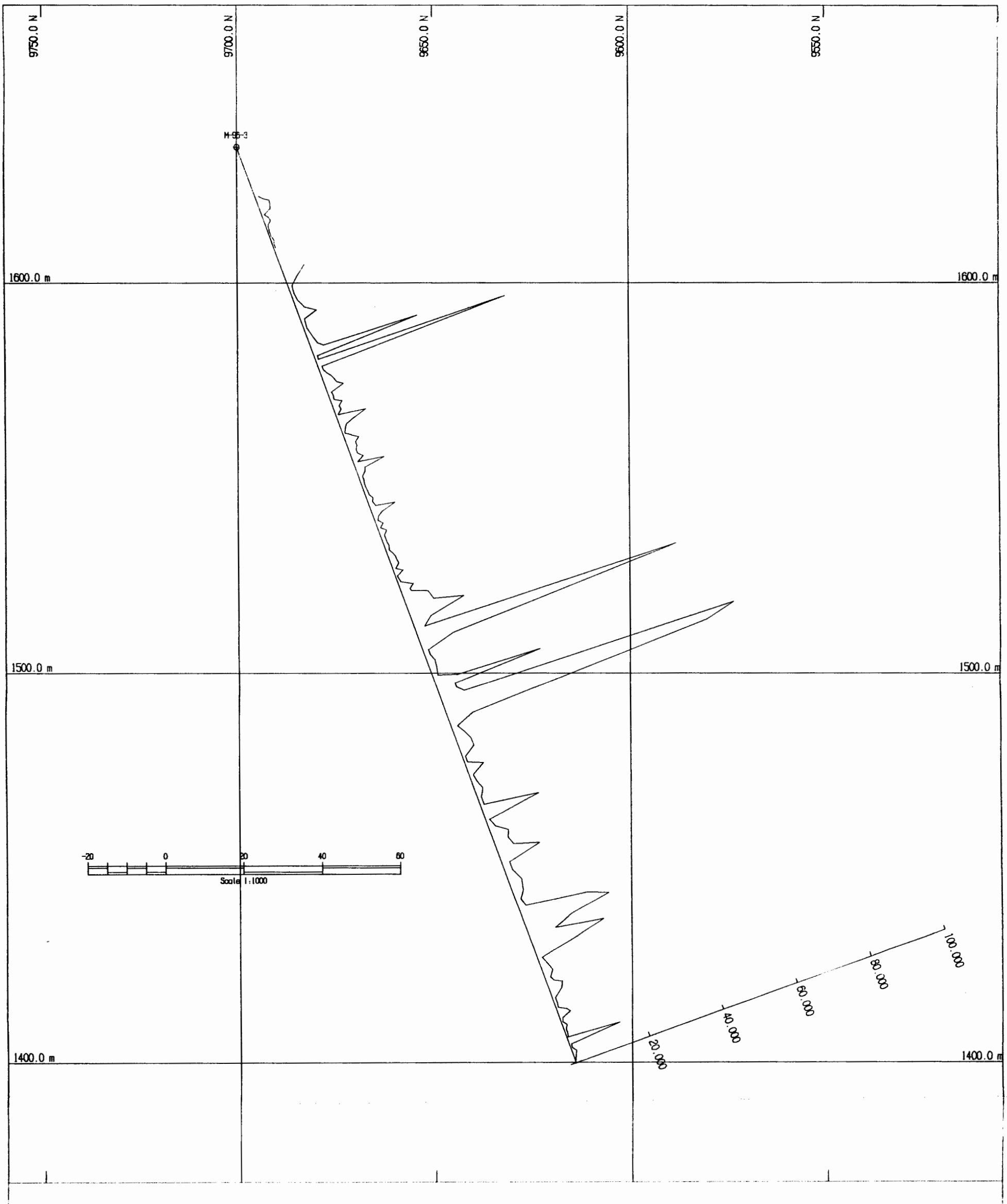
UNITS : METRES DATE: 97/02/10 TIME: 16:35:21

North-South Section, Looking East
Drillhole M-96-3, Section 3538 W
Cu Geochem Analysis

Software by GEMCOM Services Inc.



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Vancouver Office
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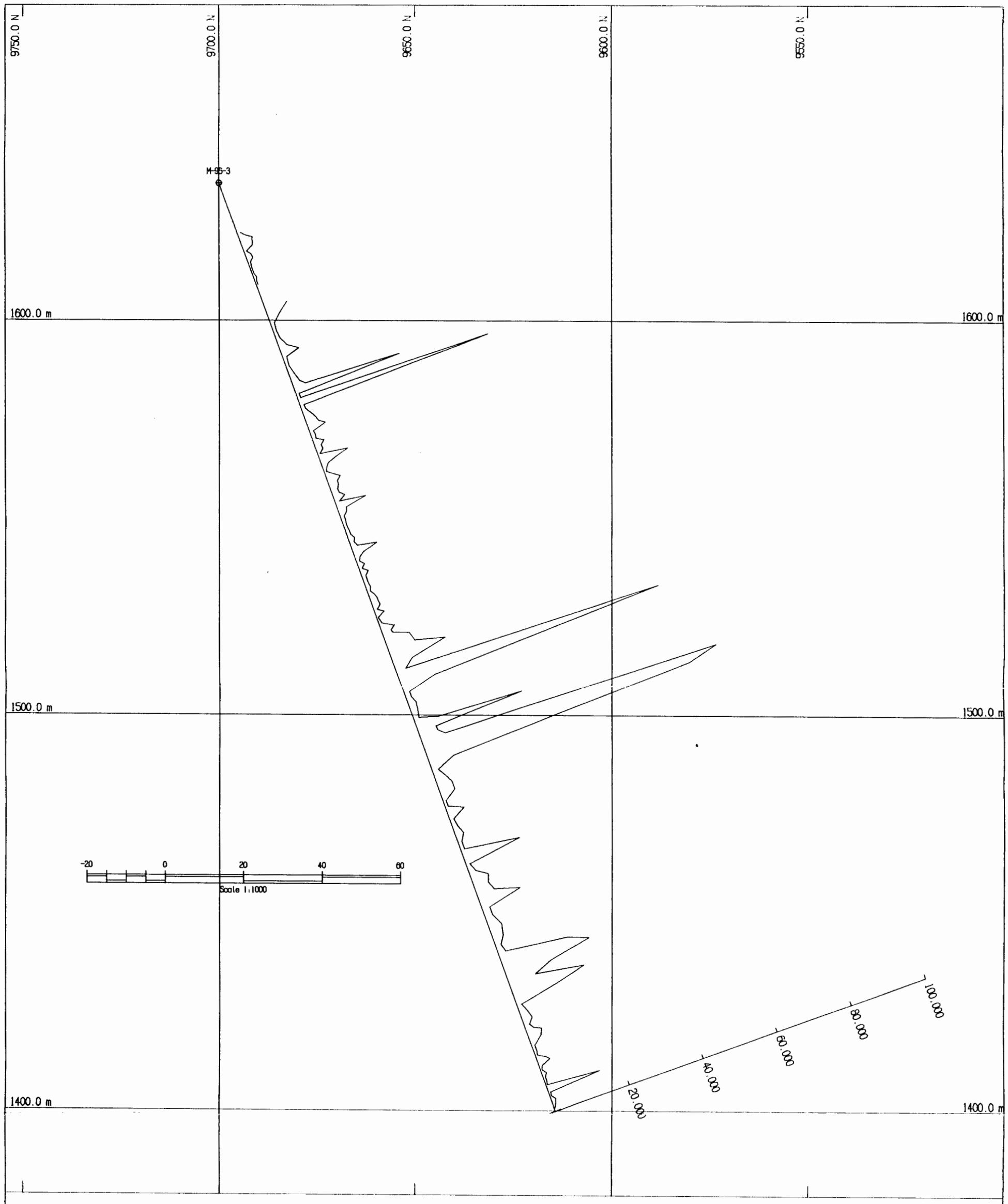
UNITS : METRES DATE: 97/02/10 TIME: 14:11:33

North-South Section, Looking East
Drillhole M-96-3, Section 3538 W
Ag Geochem Analysis

Software by GEMCOM Services Inc.



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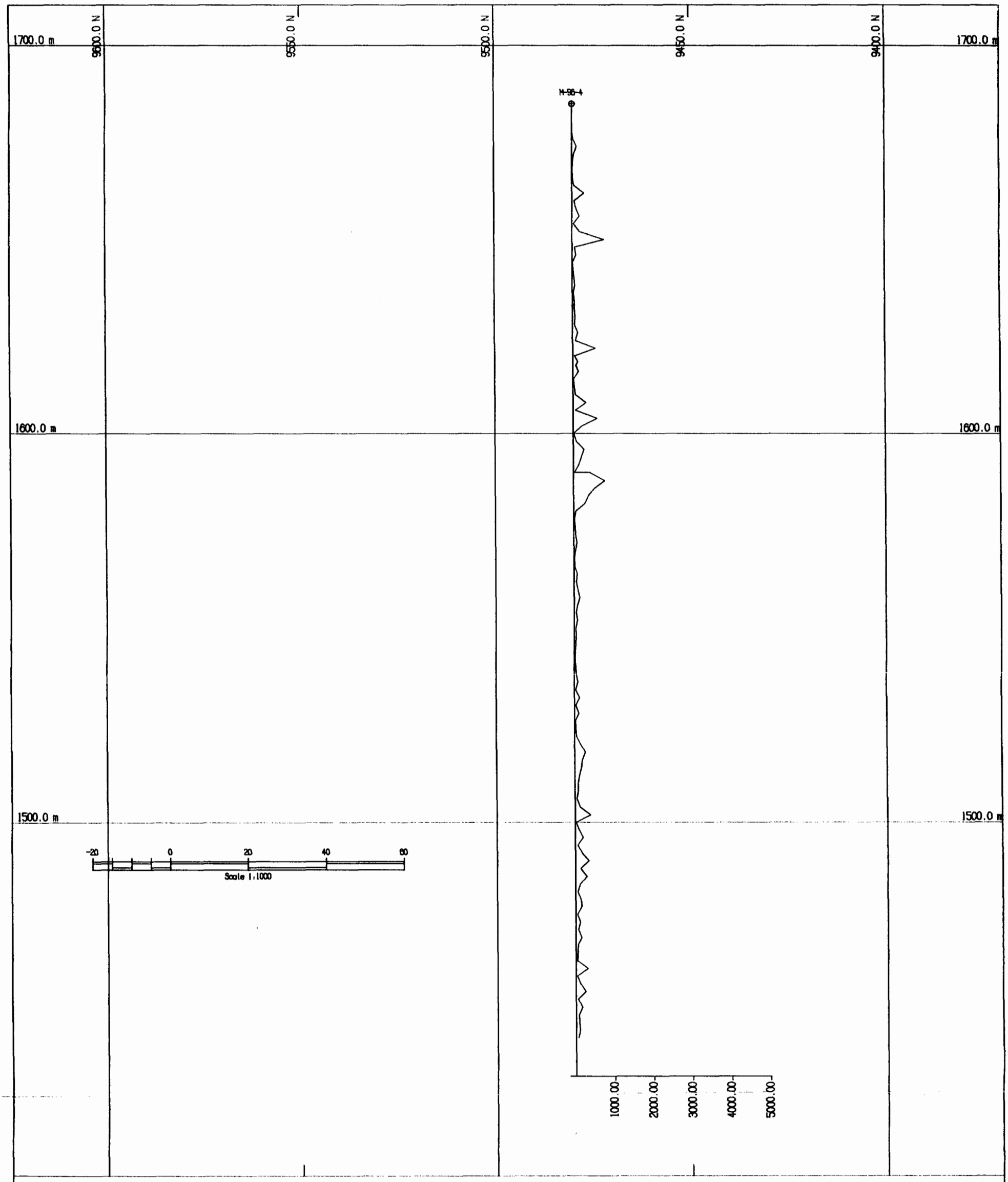
UNITS : METRES DATE: 97/02/10 TIME: 17:06:19

North-South Section, Looking East
Drillhole M-96-3, Section 3538 W
Mo Geochem Analysis

Software by GEMCOM Services Inc.



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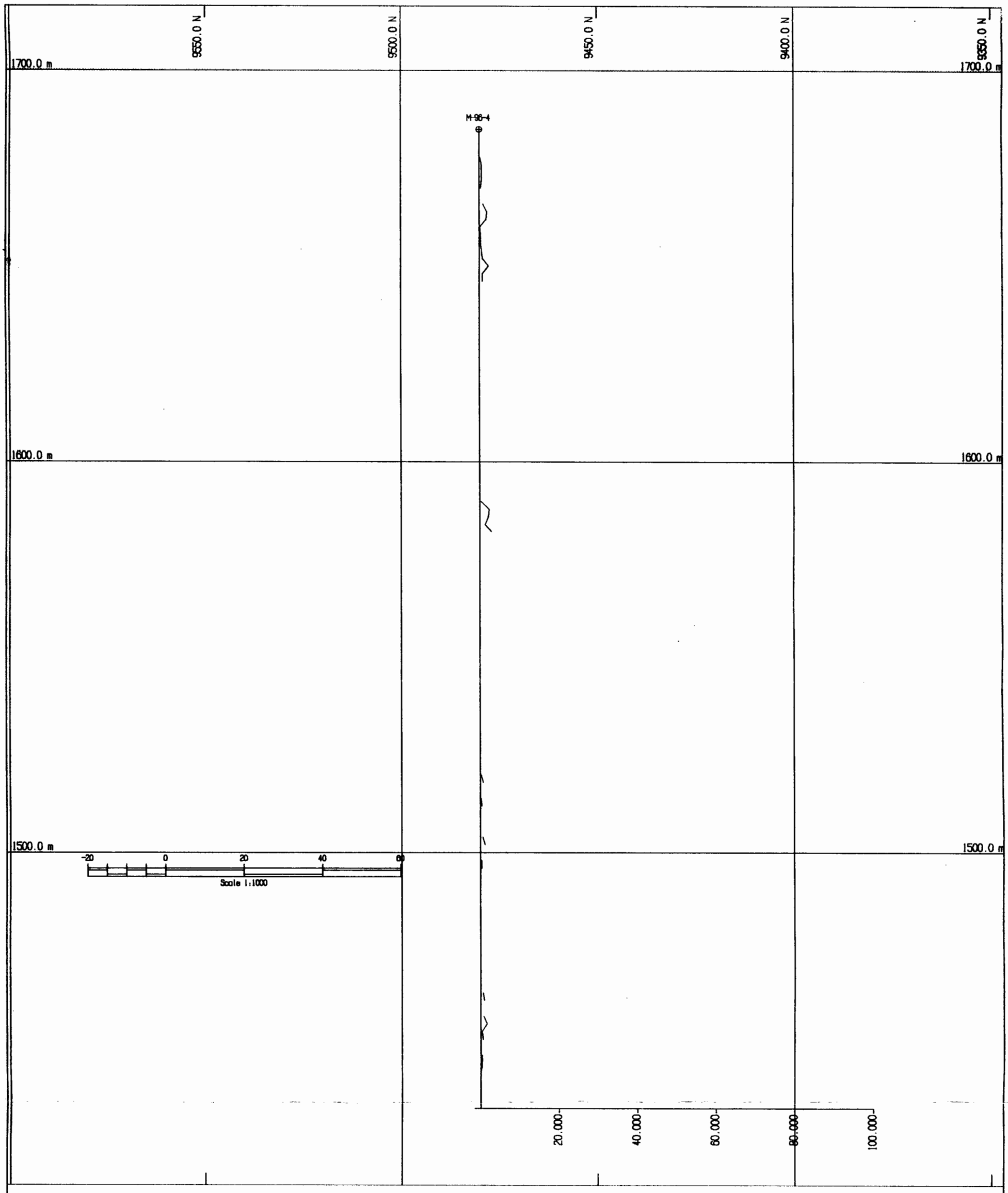
UNITS : METRES DATE: 97/02/10 TIME: 16:39:11

North-South Section, Looking East
Drillhole M-96-4, Section 2562 W
Cu Geochem Analysis



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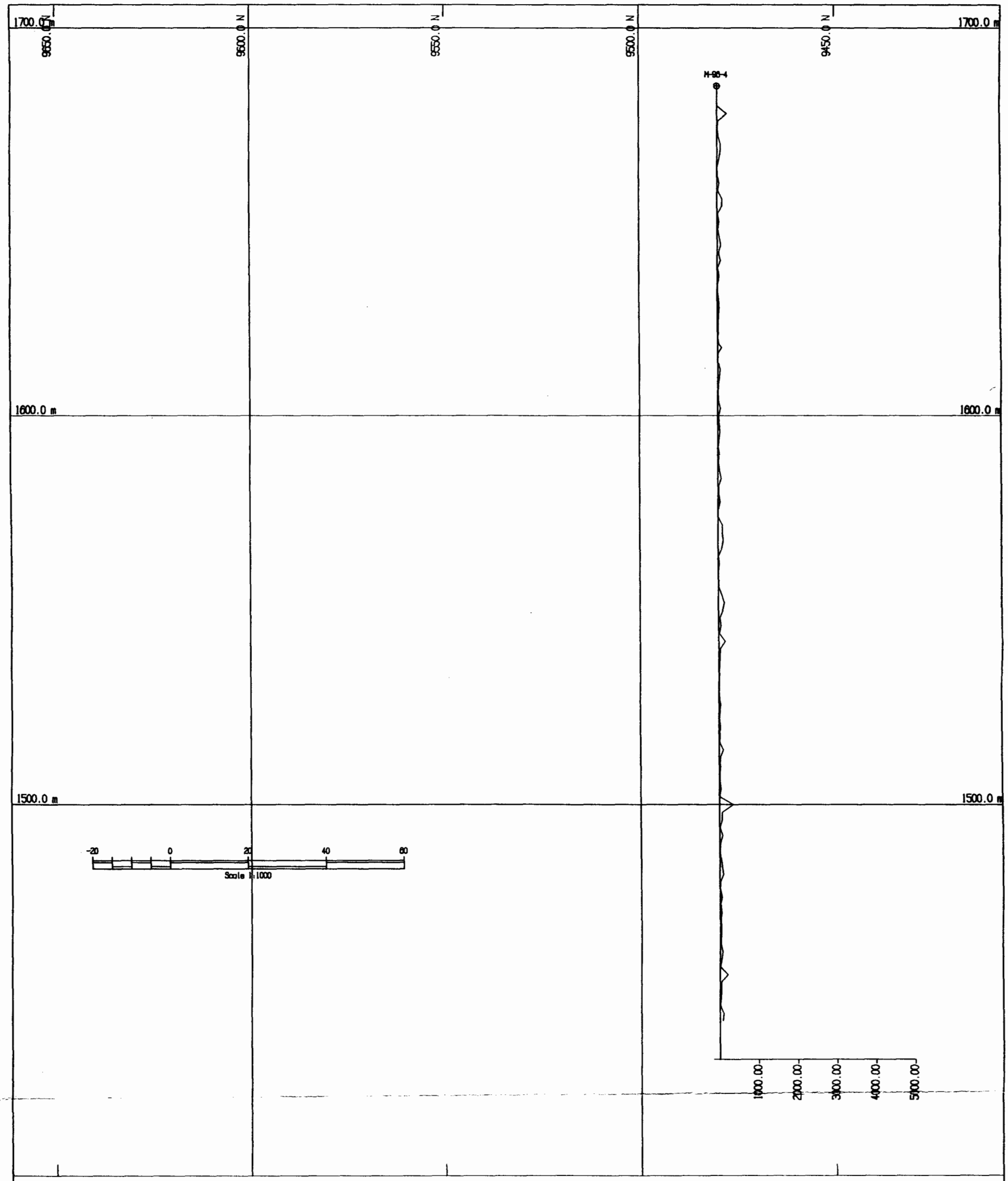
UNITS : METRES DATE: 97/02/10 TIME: 14:30:21

North-South Section, Looking East
Drillhole M-96-4, Section 2562 W
Ag Geochem Analysis

Software by GEMCOM Services Inc.



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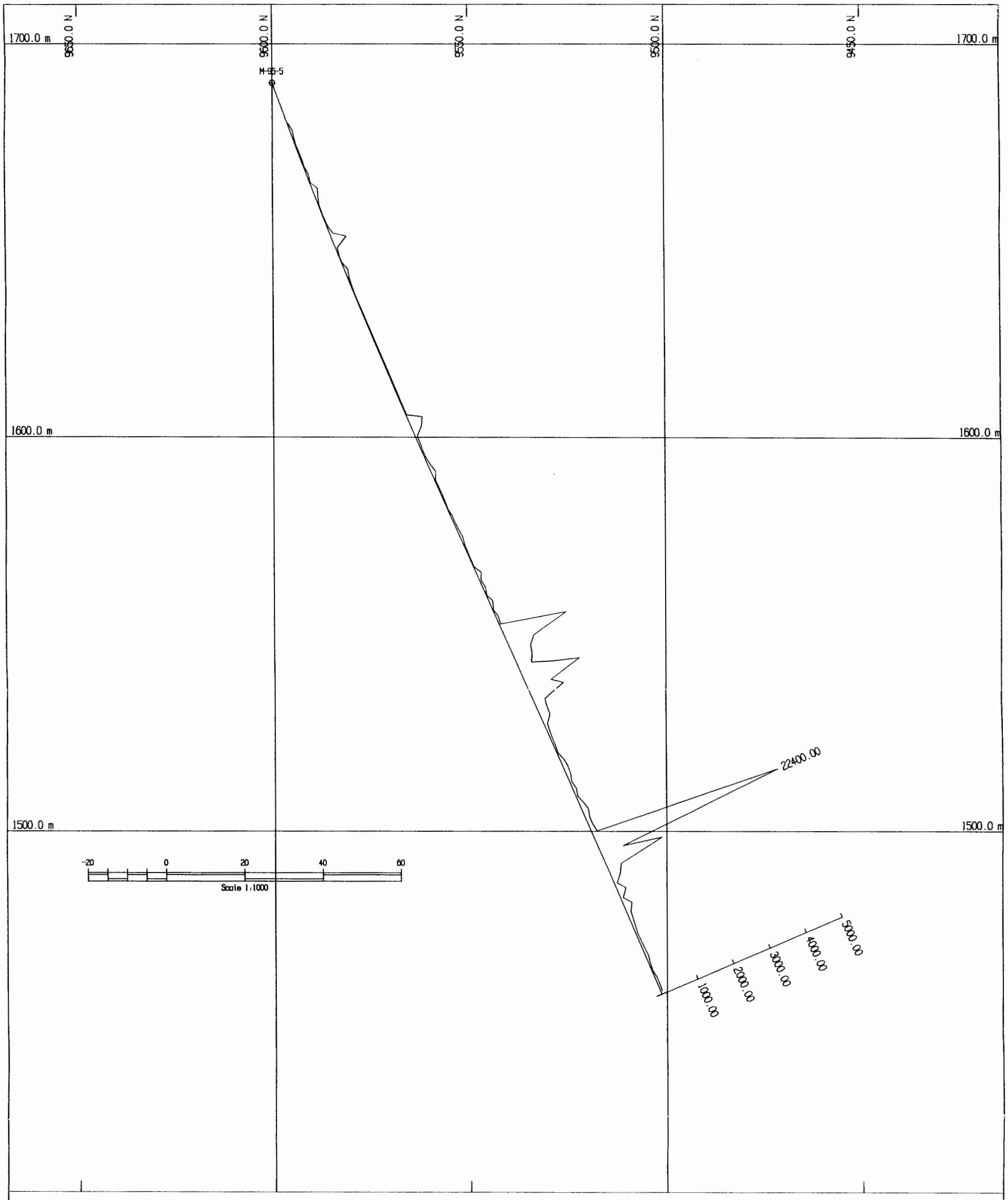
UNITS : METRES DATE: 97/02/10 TIME: 17:10:35

North-South Section, Looking East
Drillhole M-96-4, Section 2562 W
Mo Geochem Analysis

Software by GEOCOM Services Inc.



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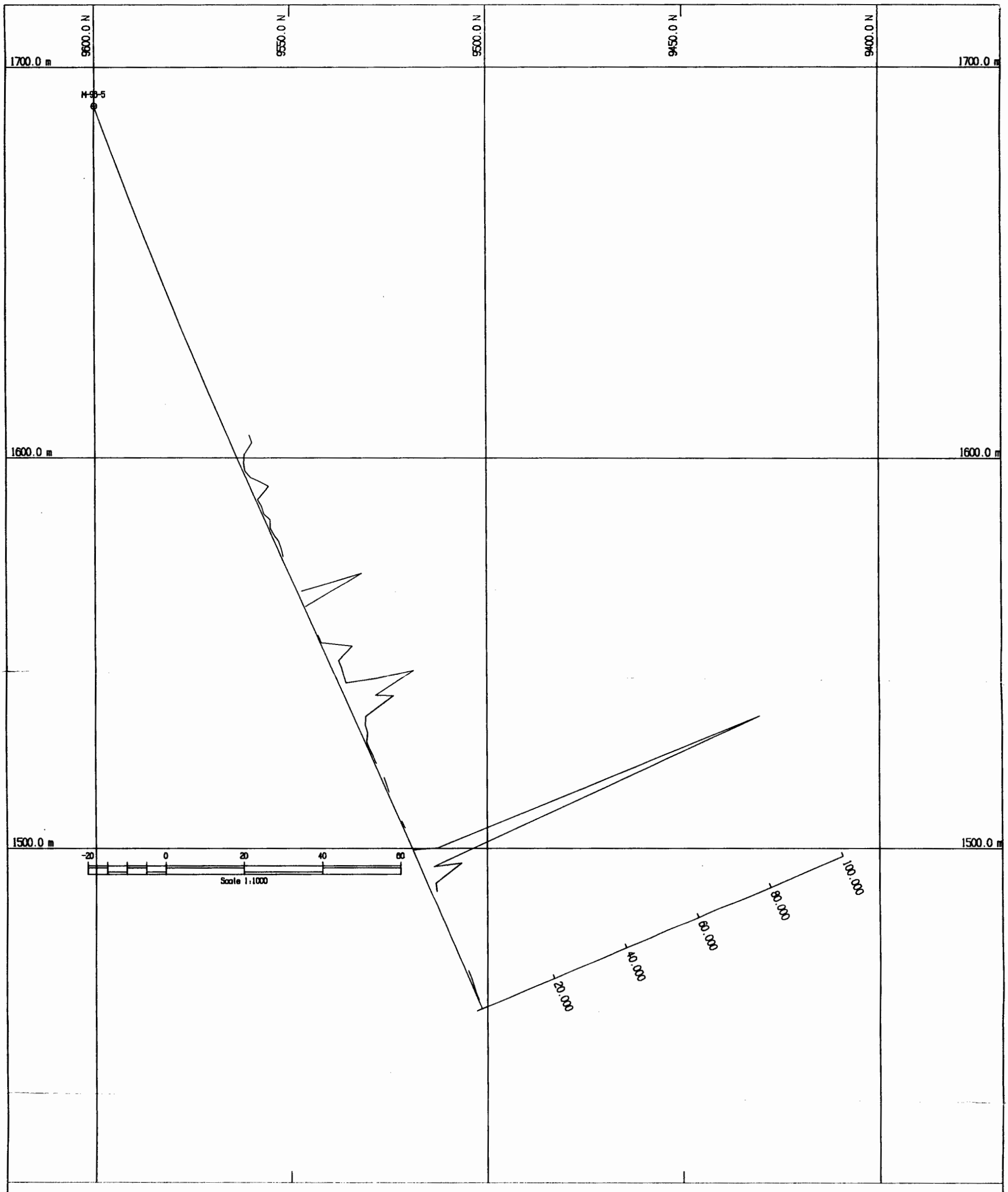
UNITS : METRES DATE: 97/02/10 TIME: 16:46:21

North-South Section, Looking East
Drillhole M-96-5, Section 2440 W
Cu Geochem Analysis

Software by GEMCOM Services Inc.



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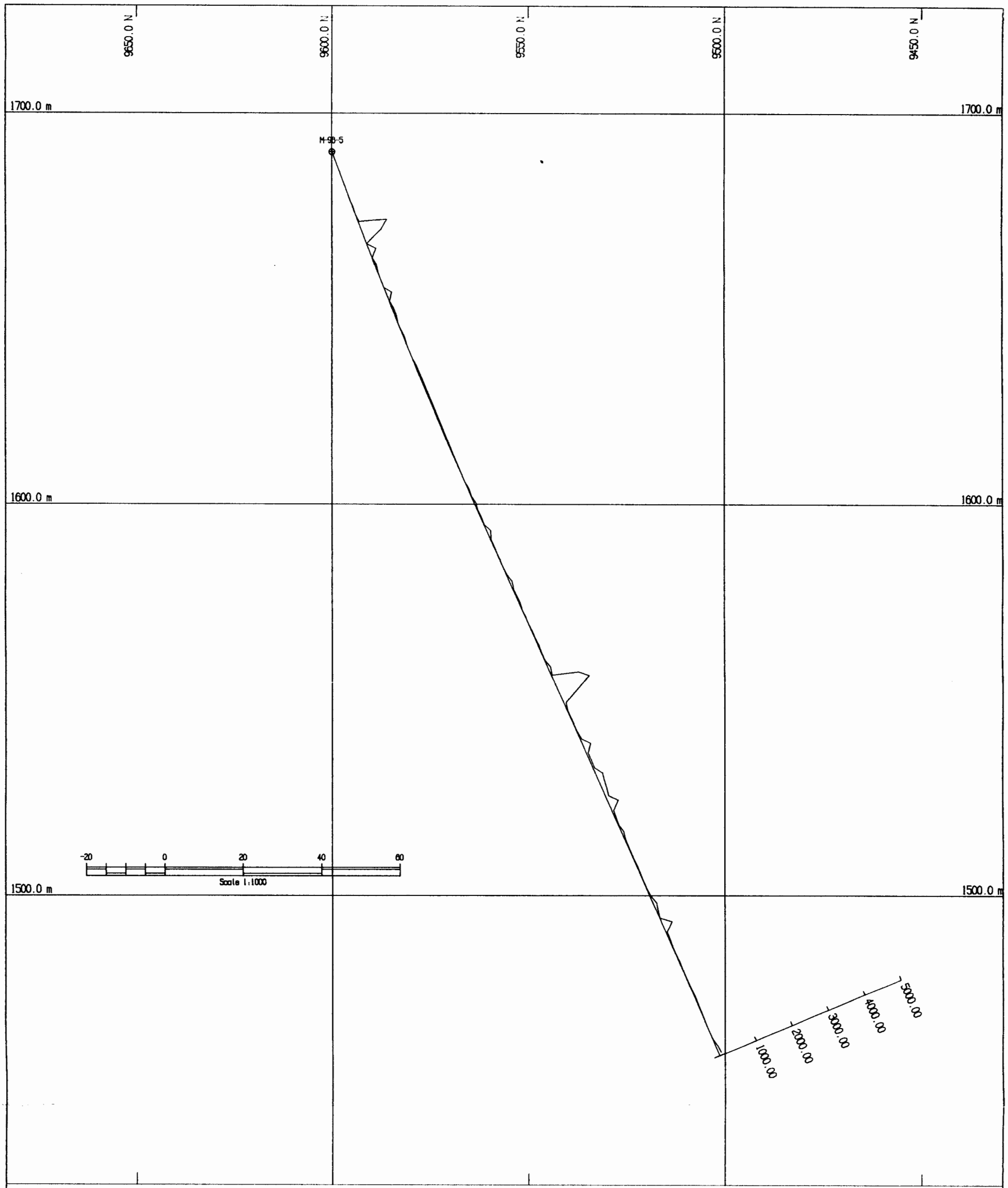
UNITS : METRES DATE: 97/02/10 TIME: 15:53:02

North-South Section, Looking East
Drillhole M-96-5, Section 2440 W
Ag Geochem Analysis

Software by GEMCOM Services Inc.



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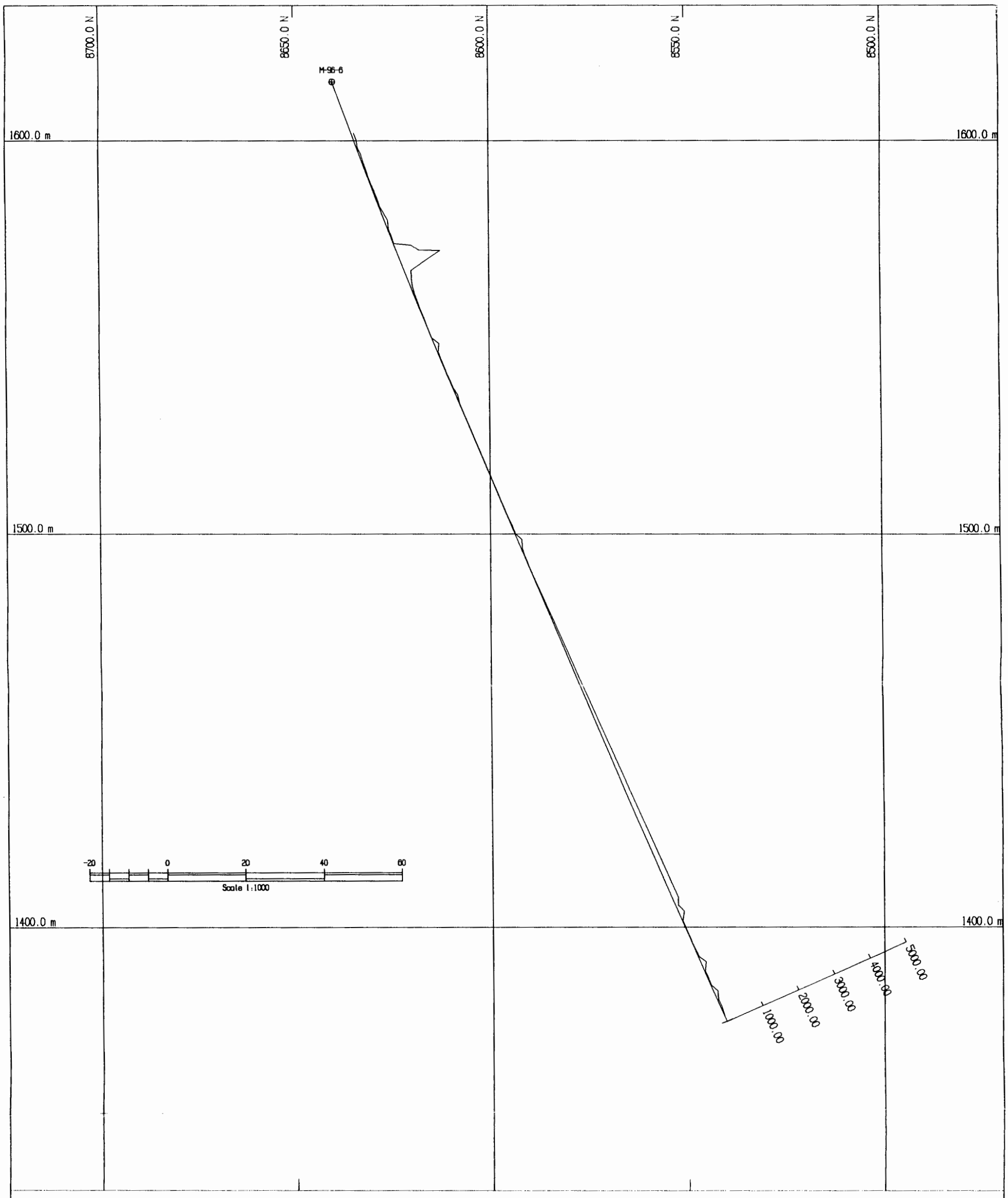
UNITS : METRES DATE: 97/02/10 TIME: 17:14:24

North-South Section, Looking East
Drillhole M-96-5, Section 2440 W
Mo Geochem Analysis

Software by GEMCOM Services Inc.



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UNITS : METRES DATE: 97/02/10 TIME: 16:50:05

North-South Section, Looking East
Drillhole M-96-6, Section 2196 W
Cu Geochem Analysis

Software by GEMCOM Services Inc.

8650.0 N
8600.0 N
8550.0 N
8500.0 N
8450.0 N

M-96-6

1600.0 m
1500.0 m
1400.0 m

-20 0 20 40 60
Scale 1:1000

20.000
40.000
60.000
80.000
100.000

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UNITS : METRES DATE: 97/02/10 TIME: 16:02:24

North-South Section, Looking East
Drillhole M-96-6, Section 2196 W
Ag Geochem Analysis

Software by GEMCOM Services Inc.

8700.0 N
8650.0 N
8600.0 N
8550.0 N
8500.0 N

1600.0 m
1500.0 m
1400.0 m

M-96-6

-20 0 20 40 60
Scale 1:1000

1000.00
2000.00
3000.00
4000.00
5000.00

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UNITS : METRES DATE: 97/02/10 TIME: 17:18:11

North-South Section, Looking East
Drillhole M-96-6, Section 2196 W
Mo Geochem Analysis

Software by GEMCOM Services Inc.

8950.0 N | 8900.0 N | 8850.0 N | 8800.0 N | 8750.0 N

1700.0 m | 1700.0 m

M-96-7

1600.0 m | 1600.0 m

1500.0 m | 1500.0 m

-20 0 20 40 60

Scale 1:1000

5000.00
4000.00
3000.00
2000.00
1000.00

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UNITS : METRES DATE: 97/02/10 TIME: 16:53:52

North-South Section, Looking East
Drillhole M-96-7, Section 3090 W
Cu Geochem Analysis

8950.0 N
8900.0 N
8850.0 N
8800.0 N
8750.0 N

M-96-7

1600.0 m
1500.0 m
1400.0 m

100.000
80.000
60.000
40.000
20.000

-20 0 20 40 60
Scale 1:1000

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UNITS : METRES DATE: 97/02/10 TIME: 16:06:08

North-South Section, Looking East
Drillhole M-96-7, Section 3090 W
Ag Geochem Analysis

8950.0 N

8900.0 N

8850.0 N

8800.0 N

8750.0 N

M-96-7

1600.0 m

1500.0 m

1400.0 m

-20 0 20 40 60

Scale 1:1000

5000.00

4000.00

3000.00

2000.00

1000.00

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UNITS : METRES DATE: 97/02/10 TIME: 17:23:02

North-South Section, Looking East
Drillhole M-96-7, Section 3090 W
Mo Geochem Analysis

Appendix 3

Diamond Drill Core Analyses
for
Silver, Copper, Molybdenum, Lead & Zinc

Diamond Drillhole M-96-1

From	To	Width	Sample #	Cu (ppm)	Mo (ppm)	Ag (ppm)	Pb (ppm)	Zn (ppm)
8.23	9.00	0.77	117767	18	1	-1.00	6	35
9.00	10.00	1.00	117768	18	-1	-1.00	6	36
10.00	11.00	1.00	117769	7	6	-1.00	8	42
11.00	12.00	1.00	117770	12	4	0.40	14	76
12.00	13.00	1.00	117771	26	7	0.40	12	55
13.00	14.00	1.00	117772	26	3	0.40	16	83
14.00	15.00	1.00	117773	50	17	0.80	14	277
15.00	16.40	1.40	117774	534	6	0.60	10	436
16.40	17.10	0.70	81851	800	20	2.20	0	0
17.10	18.00	0.90	117775	147	6	0.60	12	328
18.00	19.00	1.00	117776	14	1	0.20	8	135
19.00	20.20	1.20	117777	44	4	0.40	18	230
20.20	21.40	1.20	81852	100	20	0.20	0	0
21.40	21.60	0.20	81853	100	350	0.80	0	0
21.60	22.40	0.80	81854	100	50	0.50	0	0
22.40	23.00	0.60	117778	7	13	-1.00	8	105
23.00	24.00	1.00	117779	11	7	0.20	8	48
24.00	25.00	1.00	117780	17	6	0.60	10	94
25.00	26.00	1.00	117781	9	7	0.20	10	60
26.00	27.00	1.00	117782	34	18	0.20	8	69
27.00	28.00	1.00	117783	13	9	-1.00	10	50
28.00	29.00	1.00	117784	7	548	-1.00	10	64
29.00	30.00	1.00	117785	63	19	0.20	8	131
30.00	31.00	1.00	117786	22	7	0.40	8	65
31.00	32.00	1.00	117787	62	16	0.20	10	409
32.00	33.00	1.00	117788	23	2	0.40	10	126
33.00	34.00	1.00	117789	17	7	0.40	14	140
34.00	35.00	1.00	117790	18	9	0.40	14	211
35.00	36.00	1.00	117791	8	5	-1.00	8	90
36.00	37.00	1.00	117792	20	5	0.60	10	86
37.00	38.00	1.00	117793	32	10	0.20	8	317
38.00	39.00	1.00	117794	47	16	0.40	8	927
39.00	40.00	1.00	117795	69	52	-1.00	6	829
40.00	41.00	1.00	117796	15	3	0.20	6	42
41.00	42.70	1.70	117797	27	59	0.40	12	150
42.70	43.40	0.70	81855	100	10	0.20	0	0
43.40	44.00	0.60	117798	69	275	0.40	10	40
44.00	45.00	1.00	117799	26	17	0.40	14	56
45.00	46.00	1.00	117800	62	5	0.40	12	56
46.00	47.00	1.00	117801	75	6	0.40	10	70
47.00	48.00	1.00	117802	116	5	0.60	10	106
48.00	49.00	1.00	117803	28	9	0.40	10	115
49.00	50.00	1.00	117804	21	151	0.40	8	92
50.00	51.00	1.00	117805	60	82	0.40	14	427
51.00	52.00	1.00	117806	14	37	0.40	8	41
52.00	53.00	1.00	117807	141	2	0.40	8	50
53.00	54.00	1.00	117808	143	125	0.40	16	720
54.00	55.00	1.00	117809	22	280	0.40	8	39
55.00	56.00	1.00	117810	32	60	0.20	8	47
56.00	57.00	1.00	117811	141	127	0.60	10	171
57.00	58.00	1.00	117812	40	6	0.40	8	56
58.00	59.00	1.00	117813	55	4	0.00	10	44

66.90	67.70	0.80	81856	200	10	0.30	0	0
90.10	91.10	1.00	81857	400	30	2.50	0	0
91.10	91.60	0.50	81858	200	10	0.60	0	0
91.60	92.60	1.00	81859	200	440	0.50	0	0
112.80	113.80	1.00	81860	1300	20	12.20	0	0
113.00	114.80	1.80	81861	500	260	2.30	0	0
114.80	115.80	1.00	81862	200	70	0.30	0	0
115.80	116.20	0.40	81863	200	10	4.10	0	0
169.70	170.70	1.00	81864	200	40	1.30	0	0
170.70	171.20	0.50	81865	400	1790	5.80	0	0
171.20	172.20	1.00	81866	200	90	0.80	0	0
183.00	184.00	1.00	81867	300	10	0.80	0	0
184.00	185.00	1.00	81868	1400	340	5.40	0	0
185.00	186.00	1.00	81869	200	450	0.50	0	0
186.00	186.60	0.60	81870	200	10	0.40	0	0
186.60	187.00	0.40	81871	200	2000	0.60	0	0
187.00	188.00	1.00	81872	100	200	0.40	0	0
188.00	189.00	1.00	117751	92	15	-1.00	10	86
189.00	190.00	1.00	117752	286	7	0.80	10	86
190.00	191.00	1.00	117753	538	164	0.60	4	207
191.00	192.00	1.00	117754	111	40	0.40	10	72
192.00	193.00	1.00	117755	107	189	0.20	8	64
193.00	193.60	0.60	117756	176	76	1.00	32	68
193.60	194.60	1.00	81873	800	80	7.40	0	0
194.60	195.60	1.00	81874	600	110	1.30	0	0
195.60	196.60	1.00	81875	200	30	1.60	0	0
196.60	197.60	1.00	81876	700	0	2.00	0	0
197.60	198.60	1.00	81877	200	0	1.00	0	0
198.60	199.60	1.00	81878	1300	10	3.40	0	0
199.60	200.20	0.60	81879	1000	30	4.60	0	0
200.20	201.00	0.80	117757	46	50	-1.00	4	55
201.00	202.00	1.00	117758	31	6	-1.00	4	49
202.00	203.00	1.00	117759	99	87	0.40	6	88
203.00	204.20	1.20	117760	598	12	1.20	12	86
204.20	205.20	1.00	81880	500	40	1.90	0	0
205.20	206.20	1.00	81881	300	60	2.00	0	0
206.20	207.20	1.00	81882	200	30	2.30	0	0
207.20	208.20	1.00	81883	200	230	0.90	0	0
208.20	208.80	0.60	81884	40600	20	45.00	0	0
208.80	210.00	1.20	81885	1200	20	4.30	0	0
210.00	211.00	1.00	81886	7600	90	39.50	0	0
211.00	211.50	0.50	81887	3200	80	21.20	0	0
211.50	212.20	0.70	81888	1400	10	83.00	0	0
212.20	212.50	0.30	117761	515	31	27.80	144	25500
212.50	216.50	4.00	81889	300	10	4.80	0	0
213.50	214.00	0.50	117762	215	12	2.60	10	2483
214.00	215.00	1.00	117763	197	18	14.20	34	2992
215.00	216.00	1.00	117764	416	25	10.20	12	4904
216.00	217.00	1.00	117765	165	139	0.80	10	84
217.00	217.80	0.80	117766	342	18	15.40	0	0
217.80	218.80	1.00	81890	300	90	3.90	0	0
218.80	219.10	0.30	81891	900	3590	11.30	0	0
219.10	220.10	1.00	81892	700	30	5.40	0	0
220.10	222.10	2.00	81893	1800	60	16.40	0	0

222.10	223.10	1.00	81894	700	20	19.00	0	0
223.10	223.70	0.60	81895	3300	20	32.90	0	0
223.70	224.90	1.20	81896	2000	320	9.40	0	0
224.90	226.20	1.30	81897	1800	40	14.30	0	0
226.50	227.50	1.00	81898	1300	10	10.40	0	0
227.50	228.50	1.00	81899	1600	20	20.60	0	0
228.50	230.00	1.50	81900	700	50	11.70	0	0
230.00	231.00	1.00	81901	700	30	22.20	0	0
231.00	232.00	1.00	81902	200	50	1.90	0	0
232.00	233.00	1.00	81903	400	10	2.10	0	0
233.00	234.00	1.00	81904	200	10	1.40	0	0
234.00	235.00	1.00	81905	200	10	0.90	0	0
235.00	236.00	1.00	81906	200	20	0.80	0	0
236.00	237.00	1.00	81907	600	80	1.60	0	0
237.00	238.00	1.00	81908	300	1180	2.10	0	0
238.00	239.00	1.00	81909	300	140	0.40	0	0
239.00	240.00	1.00	81910	200	30	0.50	0	0
240.00	241.00	1.00	81911	100	20	2.40	0	0
241.00	242.00	1.00	81912	200	10	0.30	0	0
242.00	243.00	1.00	81913	300	20	0.60	0	0
243.00	244.00	1.00	81914	600	30	1.90	0	0
244.00	245.00	1.00	81915	400	20	1.00	0	0
245.00	246.00	1.00	81916	700	30	1.90	0	0
246.00	247.00	1.00	81917	100	10	2.80	0	0
247.00	248.00	1.00	81918	100	190	0.40	0	0
248.00	249.00	1.00	81919	100	70	2.00	0	0
249.00	250.00	1.00	81920	200	20	1.20	0	0

Diamond Drillhole M-96-2

From	*To*	*Width*	*Sample #*	*Cu (ppm)*	*Mo (ppm)*	*Ag (ppm)*	*Pb (ppm)*	*Zn (ppm)*
10.00	12.00	2.00	81922	2	4	0.20	12	44
12.00	14.00	2.00	81923	10	9	-1.00	12	101
14.00	16.00	2.00	81924	2	3	0.20	14	59
16.00	18.00	2.00	81925	2	8	0.20	14	87
18.00	20.00	2.00	81926	3	3	0.20	12	71
20.00	22.00	2.00	81927	3	8	0.40	22	141
22.00	24.00	2.00	81928	2	3	0.20	20	88
24.00	26.00	2.00	81929	2	7	-1.00	32	150
26.00	28.00	2.00	81930	59	10	1.00	34	289
28.00	30.00	2.00	81931	100	13	1.20	38	680
30.00	32.00	2.00	81932	153	63	10.40	136	1083
32.00	34.00	2.00	81933	4	8	0.20	24	220
34.00	36.00	2.00	81934	34	55	0.40	22	154
36.00	38.00	2.00	81935	46	28	0.80	14	169
38.00	40.00	2.00	81936	24	9	-1.00	14	284
40.00	42.00	2.00	81937	5	9	0.80	28	209
42.00	44.00	2.00	81938	43	18	0.20	6	67
44.00	46.00	2.00	81939	36	14	0.20	8	109
46.00	48.00	2.00	81940	46	8	0.20	4	74
48.00	50.00	2.00	81941	27	68	-1.00	4	66
50.00	52.00	2.00	81942	38	75	0.60	6	65
52.00	54.00	2.00	81943	24	15	-1.00	2	72
54.00	56.00	2.00	81944	29	39	0.20	4	76
56.00	58.00	2.00	81945	111	12	-1.00	4	140

58.00	60.00	2.00	81946	140	45	0.40	10	543
60.00	62.00	2.00	81947	107	28	0.20	-1	94
62.00	64.00	2.00	81948	160	97	0.20	2	186
64.00	66.00	2.00	81949	111	35	0.20	2	63
66.00	68.00	2.00	81950	157	10	0.40	20	209
68.00	70.00	2.00	81951	87	32	-1.00	6	210
70.00	72.00	2.00	81952	150	26	0.60	16	577
72.00	74.00	2.00	81953	124	11	0.20	10	329
74.00	76.00	2.00	81954	369	8	1.00	8	765
76.00	78.00	2.00	81955	122	22	0.60	14	288
78.00	80.00	2.00	81956	78	61	0.80	10	98
80.00	82.00	2.00	81957	272	42	1.00	6	306
82.00	84.00	2.00	81958	135	95	1.40	356	887
84.00	86.00	2.00	81959	181	24	1.20	16	232
86.00	88.00	2.00	81960	101	41	0.20	6	143
88.00	90.00	2.00	81961	264	159	1.00	10	173
90.00	92.00	2.00	81962	68	28	0.20	6	74
92.00	94.00	2.00	81963	104	28	1.20	8	106
94.00	96.00	2.00	81964	137	130	0.40	6	65
96.00	98.00	2.00	81965	55	12	0.40	4	63
98.00	100.00	2.00	81966	57	55	0.20	4	115
100.00	102.00	2.00	81967	29	134	0.20	6	137
102.00	104.00	2.00	81968	39	23	0.40	6	186
104.00	106.00	2.00	81969	88	23	0.20	4	61
106.00	108.00	2.00	81970	27	24	0.40	4	62
108.00	110.00	2.00	81971	167	23	1.40	10	540
110.00	112.00	2.00	81972	197	29	1.20	12	806
112.00	114.00	2.00	81973	116	19	0.60	8	195
114.00	116.00	2.00	81974	205	69	0.20	146	276
116.00	118.00	2.00	81975	105	92	0.40	8	251
118.00	120.00	2.00	81976	119	33	0.40	6	198
120.00	122.00	2.00	81977	362	12	0.60	14	336
122.00	124.00	2.00	81978	138	19	1.20	16	766
124.00	126.00	2.00	81979	168	55	1.20	14	436
126.00	128.00	2.00	81980	258	110	2.80	18	291
128.00	130.00	2.00	81981	112	254	0.40	10	127
130.00	132.00	2.00	81982	391	30	1.20	10	579
132.00	134.00	2.00	81983	283	32	1.60	12	438
134.00	136.00	2.00	81984	733	40	2.00	12	1666
136.00	138.00	2.00	81985	393	34	1.20	8	676
138.00	140.00	2.00	81986	600	18	1.20	10	166
140.00	142.00	2.00	81987	1425	72	2.40	26	1238
142.00	144.00	2.00	81988	228	32	0.80	6	214
144.00	146.00	2.00	81989	408	64	1.80	158	1185
146.00	148.00	2.00	81990	459	26	3.80	130	1901
148.00	150.00	2.00	81991	144	5	0.40	8	572
150.00	152.00	2.00	81992	224	382	1.00	10	378
152.00	154.00	2.00	81993	233	32	1.00	6	694
154.00	156.00	2.00	81994	158	127	0.60	8	710
156.00	158.00	2.00	81995	174	12	1.40	10	185
158.00	160.00	2.00	81996	219	37	0.80	18	105
160.00	162.00	2.00	81997	29	127	0.40	6	96
162.00	164.00	2.00	81998	414	52	1.40	6	202
164.00	166.00	2.00	81999	924	269	6.40	52	1485

166.00	168.00	2.00	82000	289	46	1.00	10	1036
168.00	170.00	2.00	82001	125	25	0.60	4	1370
170.00	172.00	2.00	82002	127	5	0.40	8	899
172.00	174.00	2.00	82003	159	12	0.60	32	268
174.00	176.00	2.00	82004	139	6	0.80	16	225
176.00	178.00	2.00	82005	66	10	0.40	4	193
178.00	180.00	2.00	82006	98	14	0.60	6	69
180.00	182.00	2.00	82007	52	11	0.80	4	91
182.00	184.00	2.00	82008	173	11	2.20	14	118
184.00	186.00	2.00	82009	46	39	-1.00	8	142
186.00	188.00	2.00	82010	206	6	0.40	12	451
188.00	190.00	2.00	82011	521	74	2.20	36	191
190.00	192.00	2.00	82012	361	66	2.40	48	134
192.00	194.00	2.00	82013	1764	10	12.60	264	1085
194.00	196.00	2.00	82014	148	94	-1.00	12	105
196.00	198.00	2.00	82015	106	32	0.40	20	304
198.00	200.00	2.00	82016	62	203	-1.00	8	110
200.00	202.00	2.00	82017	73	23	0.20	8	596
202.00	204.00	2.00	82018	156	26	0.60	14	400
204.00	206.00	2.00	82019	79	48	-1.00	8	1272
206.00	208.00	2.00	82020	243	808	0.40	8	186
208.00	210.00	2.00	82021	121	37	0.20	8	104
210.00	212.00	2.00	82022	59	28	-1.00	6	134
212.00	214.00	2.00	82023	31	26	-1.00	6	203
214.00	216.00	2.00	82024	46	24	-1.00	6	61
216.00	218.00	2.00	82025	238	36	0.60	8	807
218.00	220.00	2.00	82026	53	111	-1.00	8	64
220.00	222.00	2.00	82027	298	73	0.80	8	404
222.00	224.00	2.00	82028	493	18	1.40	8	256
224.00	226.00	2.00	82029	133	48	0.40	8	410
226.00	228.00	2.00	82030	318	183	0.80	8	714
228.00	230.00	2.00	82031	119	14	0.40	30	352
230.00	232.00	2.00	82032	78	21	0.60	30	233
232.00	234.00	2.00	82033	141	299	0.20	20	277
234.00	236.00	2.00	82034	325	42	1.40	54	216
236.00	238.00	2.00	82035	476	28	5.60	558	5263
238.00	240.00	2.00	82036	728	33	3.60	50	255
240.00	242.00	2.00	82037	671	38	2.80	126	1001
242.00	246.00	4.00	82038	497	132	1.00	12	70
246.00	248.00	2.00	82039	61	33	-1.00	12	99
248.00	250.00	2.00	82040	170	112	1.20	12	102
250.00	252.00	2.00	82041	69	18	-1.00	10	169
252.00	254.00	2.00	82042	423	226	1.00	12	166
254.00	256.00	2.00	82043	70	47	-1.00	6	648
256.00	258.00	2.00	82044	119	29	0.20	8	224
258.00	260.00	2.00	82045	572	39	1.60	16	227
260.00	262.00	2.00	82046	497	81	1.00	14	338
262.00	264.00	2.00	82047	446	58	17.80	192	5180
264.00	266.00	2.00	82048	486	6	1.20	12	176
266.00	268.00	2.00	82049	68	17	0.60	38	176
268.00	270.00	2.00	82050	90	169	0.20	22	121
270.00	272.00	2.00	82751	68	35	0.60	10	447
272.00	274.00	2.00	82752	77	109	-1.00	10	208
274.00	276.00	2.00	82753	210	8	0.60	12	130

276.00	278.00	2.00	82754	192	18	0.20	8	95
278.00	280.00	2.00	82755	177	47	1.00	10	141
280.00	282.00	2.00	82756	146	16	0.60	10	210
282.00	284.00	2.00	82757	246	28	0.60	10	450
284.00	284.40	0.40	82758	91	9	0.40	8	283

Diamond Drillhole M-96-3

From	*To*	*Width*	*Sample #*	*Cu (ppm)*	*Mo (ppm)*	*Ag (ppm)*	*Pb (ppm)*	*Zn (ppm)*
11.30	12.30	1.00	64001	107	72	-1.00	10	212
13.30	14.30	1.00	64002	116	17	0.80	14	174
14.30	15.30	1.00	64003	475	44	1.80	12	231
15.30	16.30	1.00	64004	723	151	3.20	24	393
17.30	18.30	1.00	64006	529	64	2.60	28	373
18.30	19.30	1.00	64007	207	197	0.60	12	143
19.30	20.30	1.00	64008	425	170	1.40	24	179
20.30	21.30	1.00	64009	675	101	1.60	24	138
21.30	22.30	1.00	64010	163	122	0.60	14	112
22.30	24.30	2.00	64011	97	189	0.40	12	150
24.30	25.30	1.00	64012	119	579	0.40	16	106
25.30	26.30	1.00	64013	372	53	0.80	16	313
26.30	27.30	1.00	64014	99	92	0.40	14	351
27.30	28.30	1.00	64015	228	689	0.40	12	79
28.30	29.30	1.00	64016	260	1013	-1.00	10	75
29.30	31.30	2.00	64017	216	84	0.40	10	102
31.30	33.30	2.00	64018	135	25	-1.00	8	61
33.30	35.30	2.00	64019	1345	387	5.80	50	2051
35.30	37.30	2.00	64020	279	438	3.20	82	2590
37.30	39.30	2.00	64021	254	612	1.00	26	225
39.30	41.30	2.00	64022	248	180	0.80	28	222
41.30	43.30	2.00	64023	459	61	1.00	34	154
43.30	45.50	2.20	64024	843	79	2.00	70	436
45.50	47.00	1.50	64025	299	50	4.80	104	1335
47.00	47.80	0.80	64026	281	186	1.00	18	159
47.80	51.80	4.00	64027	526	184	0.80	20	115
51.80	53.80	2.00	64028	405	192	1.60	22	645
53.80	54.80	1.00	64029	634	180	2.00	14	411
54.80	55.80	1.00	64030	570	50	3.20	46	639
55.80	56.80	1.00	64031	488	499	28.40	24	206
56.80	57.80	1.00	64032	123	1058	0.80	10	56
57.80	58.80	1.00	64033	110	328	0.80	12	59
58.80	59.80	1.00	64034	431	127	51.30	30	185
59.80	60.80	1.00	64035	283	222	1.00	12	142
60.80	61.80	1.00	64036	325	159	1.00	10	85
61.80	62.80	1.00	64037	447	242	1.60	10	73
62.80	63.80	1.00	64038	367	12	2.40	28	224
63.80	64.80	1.00	64039	542	124	2.80	88	362
64.80	65.80	1.00	64040	977	10	3.20	32	277
65.80	66.80	1.00	64041	1234	226	4.60	20	271
66.80	67.80	1.00	64042	264	53	1.00	16	115
67.80	68.80	1.00	64043	407	19	1.20	22	164
68.80	69.80	1.00	64044	453	90	1.00	12	84
69.80	70.80	1.00	64045	1396	28	2.80	26	92
70.80	71.80	1.00	64046	347	14	1.60	24	162
71.80	72.80	1.00	64047	675	100	1.80	14	99

72.80	73.80	1.00	64048	83	26	0.60	12	127
73.80	74.80	1.00	64049	666	333	7.80	142	22000
74.80	75.80	1.00	64050	598	82	4.40	88	2930
75.80	76.80	1.00	64051	396	51	1.80	74	178
76.80	77.80	1.00	64052	133	114	1.00	12	55
77.80	78.80	1.00	64053	75	103	0.60	10	321
78.80	79.80	1.00	64054	383	71	2.00	16	185
79.80	80.80	1.00	64055	1152	62	3.60	26	192
80.80	81.80	1.00	64056	593	37	2.40	62	386
81.80	82.80	1.00	64057	801	8	2.40	14	224
82.80	83.80	1.00	64058	488	10	1.80	10	299
83.80	84.80	1.00	64059	502	52	1.80	8	204
84.80	85.80	1.00	64060	1126	145	3.00	10	232
85.80	86.80	1.00	64061	303	69	1.20	8	80
86.80	87.80	1.00	64062	3171	27	8.00	12	199
87.80	88.80	1.00	64063	993	281	2.40	10	47
88.80	89.80	1.00	64064	906	91	2.00	8	65
89.80	90.80	1.00	64065	408	1386	1.00	10	51
90.80	91.80	1.00	64066	356	99	1.00	8	61
91.80	92.80	1.00	64067	210	230	0.80	8	69
92.80	93.80	1.00	64068	383	1146	0.80	54	164
93.80	94.80	1.00	64069	253	1004	1.00	220	634
94.80	95.80	1.00	64070	310	452	1.00	52	182
95.80	96.80	1.00	64071	389	106	1.60	46	173
96.80	97.80	1.00	64072	431	10	1.20	14	134
97.80	98.80	1.00	64073	547	155	1.60	16	169
98.80	99.80	1.00	64074	788	401	6.60	208	493
99.80	100.80	1.00	64075	903	50	2.80	14	168
100.80	101.80	1.00	64076	332	135	1.20	18	104
101.80	102.80	1.00	64077	309	11	0.80	18	159
102.80	103.80	1.00	64078	716	283	1.80	16	283
103.80	104.80	1.00	64079	398	81	0.80	14	113
104.80	105.80	1.00	64080	460	34	2.00	18	343
105.80	106.80	1.00	64081	342	72	1.00	10	143
106.80	107.80	1.00	64082	254	237	1.00	10	189
107.80	108.80	1.00	64083	222	459	1.00	16	50
108.80	109.80	1.00	64084	218	56	1.20	16	112
109.80	110.80	1.00	64085	226	45	0.80	8	459
110.80	111.80	1.00	64086	258	226	1.40	10	452
111.80	112.80	1.00	64087	408	37	1.80	28	1001
112.80	113.80	1.00	64088	370	38	1.80	12	715
113.80	114.80	1.00	64089	373	90	2.00	12	883
114.80	115.80	1.00	64090	129	93	0.80	12	135
115.80	116.80	1.00	64091	289	54	2.40	292	2040
116.80	117.80	1.00	64092	25	2	0.40	22	35
117.80	119.90	2.10	64093	88	116	0.80	22	111
119.90	121.00	1.10	64094	402	284	3.60	68	509
121.00	121.80	0.80	64095	276	362	2.40	34	392
121.80	122.30	0.50	64096	230	10000	2.60	62	2230
122.30	124.70	2.40	64097	465	2980	6.60	60	3613
124.70	126.70	2.00	64098	372	362	7.20	38	2839
126.70	128.70	2.00	64099	895	177	14.80	44	5562
128.70	130.70	2.00	64100	234	56	5.00	14	293
130.70	132.70	2.00	64101	291	72	2.60	34	577

132.70	134.70	2.00	64102	1197	38	70.40	74	5704
134.70	136.70	2.00	64103	218	49	9.00	20	721
136.70	138.70	2.00	64104	285	12	1.40	16	351
138.70	139.70	1.00	64105	427	34	1.40	178	588
139.70	141.70	2.00	64106	351	121	2.00	146	660
141.70	143.70	2.00	64107	256	35	1.80	184	794
143.70	145.70	2.00	64108	256	34	1.40	186	791
145.70	146.70	1.00	64109	246	110	6.20	90	1071
146.70	147.70	1.00	64110	598	135	28.40	92	371
147.70	148.70	1.00	64111	453	248	4.80	68	442
148.70	149.70	1.00	64112	446	75	4.80	78	611
149.70	151.70	2.00	64113	570	30	6.40	108	2396
151.70	153.70	2.00	64114	1878	246	79.00	166	7794
153.70	155.70	2.00	64115	448	680	71.00	88	5679
155.70	157.70	2.00	64116	566	116	6.60	170	1439
157.70	159.70	2.00	64117	483	13	1.60	14	509
159.70	161.70	2.00	64118	405	85	2.80	76	1247
161.70	163.70	2.00	64119	689	62	3.80	242	1446
163.70	165.70	2.00	64120	320	85	3.80	594	2903
165.70	167.70	2.00	64121	126	130	0.80	152	820
167.70	168.70	1.00	64122	162	368	0.80	86	296
168.70	170.70	2.00	64123	678	18	4.60	288	1380
170.70	172.70	2.00	64124	240	86	1.00	14	390
172.70	174.70	2.00	64125	342	51	1.40	16	1035
174.70	176.70	2.00	64126	803	20	2.20	48	364
176.70	178.70	2.00	64127	277	39	1.00	14	312
178.70	180.70	2.00	64128	220	37	1.00	16	974
180.70	182.70	2.00	64129	1120	143	15.20	312	880
182.70	184.70	2.00	64130	175	47	1.00	16	411
184.70	186.70	2.00	64131	672	13	1.80	22	285
186.70	188.70	2.00	64132	410	37	4.60	108	979
188.70	190.70	2.00	64133	501	31	3.80	58	1821
190.70	192.70	2.00	64134	616	21	4.60	194	995
192.70	194.70	2.00	64135	668	29	11.00	194	2335
194.70	196.70	2.00	64136	283	17	2.00	12	427
196.70	198.70	2.00	64137	402	15	2.00	120	582
198.70	202.70	4.00	64138	501	46	3.40	266	1320
202.70	204.70	2.00	64139	363	36	2.80	108	719
204.70	206.70	2.00	64140	104	6	1.40	224	962
206.70	208.70	2.00	64141	78	45	2.00	816	1739
208.70	210.70	2.00	64142	314	21	18.00	306	21000
210.70	212.70	2.00	64143	205	96	23.20	28	16600
212.70	214.70	2.00	64144	201	911	12.20	42	3182
214.70	216.70	2.00	64145	393	36	7.20	16	2158
216.70	218.70	2.00	64146	785	61	19.60	40	4046
218.70	220.70	2.00	64147	304	22	11.60	40	5642
220.70	222.70	2.00	64148	243	13	1.20	22	168
222.70	224.70	2.00	64149	633	35	2.00	28	518
224.70	226.70	2.00	64150	789	142	2.60	20	534
226.70	227.70	1.00	64351	371	16	1.40	12	207
227.70	228.70	1.00	64352	538	7	2.00	8	1153
228.70	229.70	1.00	64353	1395	84	4.00	8	421
229.70	231.70	2.00	64354	842	14	3.20	6	171
231.70	233.70	2.00	64355	402	6	0.80	2	63

233.70	234.70	1.00	64356	319	26	0.80	4	375
234.70	235.70	1.00	64357	388	130	0.60	2	150
235.70	236.70	1.00	64358	461	80	2.40	18	216
236.70	237.70	1.00	64359	1526	7	3.20	14	455
237.70	238.70	1.00	64360	342	8	0.80	6	163
238.70	239.70	1.00	64361	205	1347	0.40	6	42
239.70	240.70	1.00	64362	659	171	1.20	4	649
240.70	241.70	1.00	64363	311	8	0.60	6	734
241.70	242.70	1.00	64364	198	193	0.60	-1	117
242.70	243.70	1.00	64365	93	38	0.40	-1	43
243.70	244.70	1.00	64366	695	10	14.20	10	128
244.70	245.70	1.00	64367	287	6	0.60	-1	74
245.70	246.70	1.00	64368	151	36	0.40	4	35
246.70	247.70	1.00	64369	957	52	1.20	4	52
247.70	248.70	1.00	64370	644	44	0.80	2	39
248.70	250.20	1.50	64371	212	35	0.20	2	57

Diamond Drillhole M-96-4

From	*To*	*Width*	*Sample #*	*Cu (ppm)*	*Mo (ppm)*	*Ag (ppm)*	*Pb (ppm)*	*Zn (ppm)*
4.00	6.00	2.00	64151	10	5	-1.00	18	251
6.00	8.00	2.00	64152	13	254	0.20	58	578
8.00	10.00	2.00	64153	38	19	0.60	22	983
10.00	12.00	2.00	64154	120	9	0.60	24	512
12.00	14.00	2.00	64155	46	33	0.60	40	447
14.00	16.00	2.00	64156	20	94	0.40	8	88
16.00	18.00	2.00	64157	13	75	-1.00	10	53
18.00	20.00	2.00	64158	16	44	1.00	54	922
20.00	22.00	2.00	64159	49	4	2.00	128	1378
22.00	24.00	2.00	64160	314	12	1.80	28	2041
24.00	26.00	2.00	64161	51	54	0.20	10	244
26.00	28.00	2.00	64162	99	17	0.40	10	289
28.00	30.00	2.00	64163	184	127	0.40	18	176
30.00	32.00	2.00	64164	45	127	0.60	22	246
32.00	34.00	2.00	64165	197	6	0.80	26	1040
34.00	36.00	2.00	64166	819	43	2.40	58	2550
36.00	38.00	2.00	64167	58	18	0.80	0	0
38.00	40.00	2.00	64168	92	65	0.80	18	242
40.00	42.00	2.00	64169	9	88	-1.00	8	58
42.00	44.00	2.00	64170	26	37	0.40	10	151
44.00	46.00	2.00	64171	56	84	-1.00	8	83
46.00	48.00	2.00	64172	68	9	-1.00	8	559
48.00	50.00	2.00	64173	26	43	-1.00	-1	375
50.00	52.00	2.00	64174	49	7	-1.00	-1	823
52.00	54.00	2.00	64175	51	15	-1.00	-1	1043
54.00	56.00	2.00	64176	68	33	-1.00	2	503
56.00	58.00	2.00	64177	49	42	-1.00	-1	117
58.00	60.00	2.00	64178	136	23	0.20	4	311
60.00	62.00	2.00	64179	79	22	-1.00	2	824
62.00	64.00	2.00	64180	588	21	1.00	6	1422
64.00	66.00	2.00	64181	44	6	-1.00	2	51
66.00	67.00	1.00	64182	128	29	-1.00	2	594
67.00	68.00	1.00	64183	76	107	-1.00	4	367
68.00	70.00	2.00	64184	146	9	-1.00	10	189
70.00	72.00	2.00	64185	19	5	-1.00	-1	134

72.00	74.00	2.00	64186	39	60	-1.00	6	110
74.00	76.00	2.00	64187	58	43	-1.00	2	198
76.00	78.00	2.00	64188	331	19	0.40	8	2136
78.00	80.00	2.00	64189	61	13	-1.00	4	178
80.00	82.00	2.00	64190	621	20	0.80	12	1174
82.00	84.00	2.00	64191	220	67	-1.00	8	562
84.00	86.00	2.00	64192	16	30	-1.00	2	54
86.00	88.00	2.00	64193	89	40	-1.00	2	157
88.00	90.00	2.00	64194	273	55	0.40	4	424
92.00	94.00	2.00	64195	135	6	-1.00	2	129
94.00	96.00	2.00	64196	30	45	-1.00	4	127
94.00	96.00	2.00	64197	434	17	0.40	6	2156
96.00	98.00	2.00	64198	818	11	2.40	24	2863
98.00	100.00	2.00	64199	547	44	2.20	18	278
100.00	102.00	2.00	64200	374	85	1.40	10	1248
102.00	104.00	2.00	64201	281	16	3.20	22	1466
104.00	106.00	2.00	64202	51	21	-1.00	4	146
106.00	108.00	2.00	64203	20	54	-1.00	4	51
108.00	110.00	2.00	64204	41	11	-1.00	2	186
110.00	112.00	2.00	64205	55	8	-1.00	4	304
112.00	114.00	2.00	64206	88	114	-1.00	4	110
114.00	116.00	2.00	64207	32	111	-1.00	4	121
116.00	118.00	2.00	64208	13	137	-1.00	2	38
118.00	120.00	2.00	64209	18	95	-1.00	-1	40
120.00	122.00	2.00	64210	83	9	-1.00	4	383
122.00	124.00	2.00	64211	59	30	-1.00	2	262
124.00	126.00	2.00	64212	102	7	-1.00	6	633
126.00	128.00	2.00	64213	145	7	0.40	8	1170
128.00	130.00	2.00	64214	85	15	-1.00	6	747
130.00	132.00	2.00	64215	56	84	-1.00	6	339
132.00	134.00	2.00	64216	91	153	-1.00	6	393
134.00	136.00	2.00	64217	41	115	0.20	4	140
136.00	138.00	2.00	64218	52	40	-1.00	4	112
138.00	140.00	2.00	64219	39	62	-1.00	6	82
140.00	142.00	2.00	64220	31	18	-1.00	6	64
142.00	144.00	2.00	64221	20	161	-1.00	6	60
144.00	146.00	2.00	64222	42	33	-1.00	4	162
146.00	148.00	2.00	64223	51	32	-1.00	4	56
148.00	150.00	2.00	64224	98	18	-1.00	4	325
150.00	152.00	2.00	64225	38	13	-1.00	4	78
152.00	154.00	2.00	64226	135	8	-1.00	6	606
154.00	156.00	2.00	64227	35	9	-1.00	8	184
156.00	158.00	2.00	64228	114	12	-1.00	10	428
158.00	160.00	2.00	64229	28	35	-1.00	10	190
160.00	162.00	2.00	64230	38	30	-1.00	10	143
162.00	164.00	2.00	64231	49	8	-1.00	10	164
164.00	166.00	2.00	64232	150	37	0.20	12	658
166.00	168.00	2.00	64233	274	30	0.80	14	549
168.00	170.00	2.00	64234	199	11	-1.00	10	457
170.00	172.00	2.00	64235	171	110	0.20	12	516
172.00	174.00	2.00	64236	117	38	0.40	14	816
174.00	176.00	2.00	64237	90	29	-1.00	4	488
176.00	178.00	2.00	64238	83	8	-1.00	6	131
178.00	180.00	2.00	64239	51	17	-1.00	8	55

180.00	182.00	2.00	64240	125	44	0.60	20	103
182.00	184.00	2.00	64241	401	14	1.20	14	787
184.00	186.00	2.00	64242	30	355	-1.00	8	68
186.00	188.00	2.00	64243	102	67	0.40	8	90
188.00	190.00	2.00	64244	202	66	0.40	10	461
190.00	192.00	2.00	64245	67	13	-1.00	10	180
192.00	194.00	2.00	64246	177	74	-1.00	8	94
194.00	196.00	2.00	64247	344	16	0.60	20	167
196.00	198.00	2.00	64248	137	10	-1.00	10	124
198.00	200.00	2.00	64249	298	33	0.60	18	127
200.00	202.00	2.00	64250	118	60	-1.00	12	158
202.00	204.00	2.00	64251	66	100	-1.00	10	110
204.00	206.00	2.00	64252	134	17	-1.00	8	743
206.00	208.00	2.00	64253	158	8	-1.00	8	95
208.00	210.00	2.00	64254	45	54	-1.00	10	67
210.00	212.00	2.00	64255	122	12	-1.00	8	71
212.00	214.00	2.00	64256	73	46	-1.00	10	74
214.00	216.00	2.00	64257	155	16	-1.00	10	103
216.00	218.00	2.00	64258	61	30	-1.00	10	128
220.00	222.00	2.00	64260	38	20	0.60	6	203
222.00	224.00	2.00	64261	318	67	1.00	10	441
224.00	226.00	2.00	64262	37	41	-1.00	8	157
226.00	228.00	2.00	64263	123	9	0.80	14	104
228.00	230.00	2.00	64264	257	215	1.60	20	150
230.00	232.00	2.00	64265	60	35	0.40	8	91
232.00	234.00	2.00	64266	159	40	0.60	10	354
234.00	236.00	2.00	64267	80	31	-1.00	8	82
236.00	238.00	2.00	64268	88	15	0.40	8	66
238.00	240.00	2.00	64269	105	100	0.40	8	49
240.00	242.00	2.00	64270	64	73	0.20	10	85

Diamond Drillhole M-96-5

From	*To*	*Width*	*Sample #*	*Cu (ppm)*	*Mo (ppm)*	*Ag (ppm)*	*Pb (ppm)*	*Zn (ppm)*
10.00	12.00	2.00	64301	15	2	-1.00	-1	374
12.00	14.00	2.00	64302	61	3	-1.00	-1	148
14.00	16.00	2.00	64303	33	14	-1.00	-1	391
16.00	18.00	2.00	64304	15	4	-1.00	-1	248
18.00	20.00	2.00	64305	24	16	-1.00	-1	416
20.00	22.00	2.00	64306	31	702	0.20	6	236
22.00	24.00	2.00	64307	16	467	-1.00	4	186
24.00	26.00	2.00	64308	49	7	-1.00	-1	1014
26.00	28.00	2.00	64309	15	176	-1.00	-1	61
28.00	30.00	2.00	64310	140	4	-1.00	-1	936
30.00	32.00	2.00	64311	72	38	-1.00	-1	565
32.00	34.00	2.00	64312	20	10	-1.00	2	170
34.00	36.00	2.00	64313	17	4	-1.00	2	104
36.00	38.00	2.00	64314	14	3	-1.00	2	114
38.00	40.00	2.00	64315	22	146	-1.00	4	52
40.00	42.00	2.00	64316	80	4	-1.00	4	1005
42.00	44.00	2.00	64317	380	44	3.40	18	3172
44.00	46.00	2.00	64318	43	35	-1.00	4	399
46.00	48.00	2.00	64319	13	2	-1.00	2	44
48.00	50.00	2.00	64320	15	4	-1.00	-1	142
50.00	52.00	2.00	64321	90	24	0.20	4	65

52.00	54.00	2.00	64322	44	3	-1.00	6	975
54.00	56.00	2.00	64323	28	6	-1.00	4	755
56.00	58.00	2.00	64324	14	2	-1.00	4	109
58.00	60.00	2.00	64325	15	27	-1.00	4	162
90.00	92.00	2.00	64326	15	4	-1.00	4	60
92.00	94.00	2.00	64327	362	29	5.20	48	1158
94.00	96.00	2.00	64328	254	9	5.00	44	4092
96.00	98.00	2.00	64329	48	45	2.00	20	353
98.00	100.00	2.00	64330	39	6	1.00	10	157
100.00	102.00	2.00	64331	27	19	0.40	4	135
102.00	104.00	2.00	64332	31	7	1.00	8	1182
104.00	106.00	2.00	64333	60	89	2.80	12	2557
106.00	108.00	2.00	64334	112	16	4.40	18	6273
108.00	110.00	2.00	64335	11	15	0.40	6	89
110.00	112.00	2.00	64336	23	7	0.60	6	143
112.00	114.00	2.00	64337	28	4	0.40	6	154
114.00	116.00	2.00	64338	22	4	1.20	12	382
116.00	118.00	2.00	64339	12	6	0.40	6	469
118.00	120.00	2.00	64340	43	60	0.60	6	153
120.00	122.00	2.00	64341	34	18	1.00	8	493
122.00	124.00	2.00	64342	49	21	0.80	8	449
124.00	126.00	2.00	64343	64	29	0.40	4	46
126.00	128.00	2.00	64344	29	5	-1.00	-1	37
128.00	130.00	2.00	64345	22	7	-1.00	2	42
130.00	132.00	2.00	64346	19	4	0.20	4	68
132.00	134.00	2.00	64347	10	11	-1.00	4	46
134.00	136.00	2.00	64348	123	6	1.00	12	670
136.00	138.00	2.00	64349	37	26	17.00	8	413
138.00	140.00	2.00	64350	66	10	0.40	4	62
140.00	142.00	2.00	64451	16	5	-1.00	-1	55
142.00	144.00	2.00	64452	96	69	0.60	6	661
144.00	146.00	2.00	64453	13	15	-1.00	4	48
146.00	148.00	2.00	64454	64	684	0.20	4	80
148.00	150.00	2.00	64455	44	886	0.20	4	47
152.00	154.00	2.00	64457	1694	48	7.20	24	2905
154.00	156.00	2.00	64458	700	13	2.40	14	514
156.00	158.00	2.00	64459	521	10	2.40	16	933
158.00	160.00	2.00	64460	467	9	2.00	16	378
160.00	162.00	2.00	64461	362	8	1.80	14	238
162.00	164.00	2.00	64462	872	30	9.00	44	214
164.00	166.00	2.00	64463	1531	203	19.00	70	213
166.00	168.00	2.00	64464	650	42	7.40	26	116
168.00	170.00	2.00	64465	910	41	11.60	38	104
170.00	172.00	2.00	64466	292	39	2.80	14	95
172.00	174.00	2.00	64467	256	173	1.80	14	95
174.00	176.00	2.00	64468	251	134	1.60	10	99
176.00	178.00	2.00	64469	88	112	0.40	8	70
178.00	180.00	2.00	64470	64	79	0.40	6	83
180.00	182.00	2.00	64471	49	262	0.40	8	86
182.00	184.00	2.00	64472	45	38	0.40	8	84
184.00	186.00	2.00	64473	29	24	-1.00	6	72
186.00	188.00	2.00	64474	100	11	0.80	8	69
188.00	190.00	2.00	64475	126	52	0.60	12	254
190.00	192.00	2.00	64476	111	23	0.40	10	92

192.00	194.00	2.00	64477	46	9	-1.00	10	80
194.00	196.00	2.00	64478	85	13	0.40	8	93
196.00	198.00	2.00	64479	41	12	-1.00	10	77
198.00	200.00	2.00	64480	102	19	0.40	12	142
200.00	202.00	2.00	64481	158	11	0.40	10	165
202.00	204.00	2.00	64482	106	9	-1.00	8	172
204.00	206.00	2.00	64483	104	6	-1.00	10	255
206.00	208.00	2.00	64484	133	26	0.40	10	390
208.00	210.00	2.00	64485	2568	91	6.00	78	2287
210.00	212.00	2.00	64486	22400	32	94.90	972	67300
212.00	214.00	2.00	64487	589	9	3.20	58	2360
214.00	216.00	2.00	64488	1596	250	10.20	136	3231
216.00	218.00	2.00	64489	360	28	2.00	38	957
218.00	220.00	2.00	64490	255	23	1.40	26	823
220.00	222.00	2.00	64491	77	6	-1.00	4	159
222.00	224.00	2.00	64492	226	5	0.40	12	169
224.00	226.00	2.00	64493	67	16	-1.00	8	191
226.00	228.00	2.00	64494	220	5	0.80	6	463
228.00	230.00	2.00	64495	112	8	-1.00	2	182
230.00	230.00	0.00	64496	33	15	-1.00	4	138
232.00	232.00	0.00	64497	42	11	-1.00	4	64
234.00	234.00	0.00	64498	20	13	-1.00	4	61
234.00	236.00	2.00	64499	41	19	-1.00	2	56
240.00	242.00	2.00	64401	70	9	0.60	10	93
242.00	244.00	2.00	64402	38	5	0.60	6	61
244.00	246.00	2.00	64403	19	3	0.40	8	67
246.00	248.00	2.00	64404	52	4	0.20	4	58
248.00	250.00	2.00	64405	57	50	0.20	8	84
250.00	251.50	1.50	64406	39	65	-1.00	6	89

Diamond Drillhole M-96-6

From	*To*	*Width*	*Sample #*	*Cu (ppm)*	*Mo (ppm)*	*Ag (ppm)*	*Pb (ppm)*	*Zn (ppm)*
13.40	15.00	1.60	64407	65	13	0.40	6	77
15.00	17.00	2.00	64408	65	13	0.40	8	114
17.00	19.00	2.00	64409	30	12	0.20	6	89
19.00	21.00	2.00	64410	45	48	0.40	10	523
21.00	23.00	2.00	64411	34	10	-1.00	6	868
23.00	25.00	2.00	64412	26	8	0.40	12	923
25.00	27.00	2.00	64413	18	13	0.60	8	427
27.00	29.00	2.00	64414	17	7	-1.00	4	224
29.00	31.00	2.00	64415	28	9	0.20	8	366
31.00	33.00	2.00	64416	26	7	-1.00	16	645
33.00	35.00	2.00	64417	13	11	-1.00	4	176
35.00	37.00	2.00	64418	52	8	-1.00	6	268
37.00	39.00	2.00	64419	83	59	0.60	14	222
39.00	41.00	2.00	64420	22	28	0.20	6	100
41.00	43.00	2.00	64421	21	14	-1.00	6	85
43.00	45.00	2.00	64422	13	9	-1.00	4	71
45.00	47.00	2.00	64423	399	7	1.00	18	325
47.00	49.00	2.00	64424	553	7	2.40	110	916
49.00	51.00	2.00	64425	1042	7	4.40	48	625
51.00	53.00	2.00	64426	165	13	0.40	16	180
53.00	55.00	2.00	64427	95	6	-1.00	10	123
55.00	57.00	2.00	64428	44	10	-1.00	6	86

57.00	59.00	2.00	64429	28	8	-1.00	6	87
59.00	61.00	2.00	64430	18	7	-1.00	6	78
61.00	63.00	2.00	64431	14	5	-1.00	6	63
63.00	65.00	2.00	64432	10	13	-1.00	4	61
65.00	67.00	2.00	64433	6	5	-1.00	8	68
67.00	69.00	2.00	64434	8	9	-1.00	6	70
69.00	71.00	2.00	64435	4	6	-1.00	4	66
71.00	73.00	2.00	64436	120	20	0.80	10	59
73.00	75.00	2.00	64437	13	4	-1.00	8	39
79.00	81.00	2.00	64438	8	4	-1.00	4	41
81.00	83.00	2.00	64439	9	25	-1.00	2	39
83.00	85.00	2.00	64440	9	8	-1.00	-1	39
85.00	87.00	2.00	64441	46	5	-1.00	2	48
87.00	89.00	2.00	64442	7	13	-1.00	-1	38
89.00	91.00	2.00	64443	9	27	-1.00	4	33
119.00	121.00	2.00	64444	17	4	-1.00	4	121
121.00	123.00	2.00	64445	21	7	-1.00	-1	105
123.00	125.00	2.00	64446	19	8	-1.00	4	40
125.00	127.00	2.00	64447	102	6	0.80	14	52
127.00	129.00	2.00	64448	26	7	-1.00	6	54
129.00	131.00	2.00	64449	13	55	-1.00	4	42
131.00	133.00	2.00	64450	12	2	-1.00	2	43
133.00	135.00	2.00	117651	7	5	-1.00	2	41
224.00	226.00	2.00	117652	149	2	-1.00	4	76
226.00	228.00	2.00	117653	67	9	-1.00	4	53
228.00	230.00	2.00	117654	143	4	2.40	38	275
230.00	232.00	2.00	117655	13	7	-1.00	6	146
232.00	234.00	2.00	117656	15	24	-1.00	2	178
234.00	236.00	2.00	117657	12	9	-1.00	6	118
236.00	238.00	2.00	117658	9	2	-1.00	-1	39
238.00	240.00	2.00	117659	8	5	-1.00	2	46
240.00	242.00	2.00	117660	30	34	0.40	8	1145
242.00	244.00	2.00	117661	135	2	1.40	10	1958
244.00	246.00	2.00	117662	15	6	0.80	14	620
246.00	248.00	2.00	117663	16	2	-1.00	6	100
248.00	250.00	2.00	117664	13	5	-1.00	4	53
250.00	252.00	2.00	117665	101	3	1.20	14	108
252.00	254.00	2.00	117666	35	6	0.20	4	118
254.00	256.00	2.00	117667	39	2	0.20	6	304
256.00	259.10	3.10	117668	5	5	-1.00	4	42

Diamond Drillhole M-96-7

From	*To*	*Width*	*Sample #*	*Cu (ppm)*	*Mo (ppm)*	*Ag (ppm)*	*Pb (ppm)*	*Zn (ppm)*
12.00	14.00	2.00	117701	11	18	-1.00	6	73
14.00	16.00	2.00	117702	14	9	-1.00	2	125
16.00	18.00	2.00	117703	15	30	-1.00	8	145
18.00	20.00	2.00	117704	17	32	-1.00	6	270
20.00	22.00	2.00	117705	16	13	-1.00	4	61
22.00	24.00	2.00	117706	18	15	-1.00	2	53
40.50	42.50	2.00	117707	287	13	1.00	18	3099
42.50	44.50	2.00	117708	471	30	17.60	122	6653
44.50	45.50	1.00	117709	89	9	2.20	14	606
45.50	47.00	1.50	117710	22	8	-1.00	2	200
47.00	49.00	2.00	117711	87	12	-1.00	6	3692

49.00	51.00	2.00	117712	17	21	0.20	6	358
51.00	53.00	2.00	117713	21	12	-1.00	6	106
53.00	55.00	2.00	117714	11	45	-1.00	10	101
55.00	57.00	2.00	117715	30	11	-1.00	4	55
57.00	59.00	2.00	117716	44	50	-1.00	6	71
59.00	61.00	2.00	117717	32	16	-1.00	-1	47
61.00	63.00	2.00	117718	17	13	-1.00	4	59
63.00	65.00	2.00	117719	13	8	-1.00	4	49
65.00	67.00	2.00	117720	24	4	-1.00	6	343
67.00	69.00	2.00	117721	15	12	-1.00	6	56
69.00	71.00	2.00	117722	21	20	-1.00	4	71
71.00	73.00	2.00	117723	18	15	-1.00	2	53
73.00	75.00	2.00	117724	17	10	-1.00	-1	54
75.00	77.00	2.00	117725	15	7	-1.00	4	59
77.00	79.00	2.00	117726	12	28	-1.00	14	120
79.00	81.00	2.00	117727	13	63	-1.00	10	86
81.00	83.00	2.00	117728	31	20	0.40	18	199
83.00	85.00	2.00	117729	17	10	0.60	40	814
85.00	87.00	2.00	117730	16	18	-1.00	4	46
87.00	89.00	2.00	117731	18	16	-1.00	6	56
89.00	91.00	2.00	117732	20	21	-1.00	6	51
91.00	93.00	2.00	117733	15	12	-1.00	6	55
93.00	95.00	2.00	117734	13	15	-1.00	6	72
95.00	97.00	2.00	117735	14	20	-1.00	4	49
97.00	99.00	2.00	117736	16	19	-1.00	6	49
99.00	101.00	2.00	117737	26	15	-1.00	6	68
104.30	105.00	0.70	117738	83	5	1.80	58	946
105.00	107.00	2.00	117739	18	11	-1.00	16	120
107.00	109.00	2.00	117740	17	13	-1.00	4	47
109.00	111.00	2.00	117741	15	35	-1.00	2	44
111.00	113.00	2.00	117742	14	24	-1.00	6	48
113.00	115.00	2.00	117743	22	10	-1.00	4	40
115.00	117.00	2.00	117744	20	8	-1.00	4	45
117.00	119.00	2.00	117745	13	10	-1.00	10	204
119.00	121.00	2.00	117746	11	6	-1.00	6	54
121.00	123.00	2.00	117747	12	8	-1.00	2	88
123.00	125.00	2.00	117748	18	29	-1.00	4	42
125.00	127.00	2.00	117749	20	18	-1.00	4	42
127.00	129.00	2.00	117750	13	38	-1.00	4	40
129.00	131.00	2.00	117951	10	8	-1.00	4	40
131.00	133.00	2.00	117952	9	13	-1.00	10	414
133.00	135.00	2.00	117953	30	37	-1.00	24	473
135.00	137.00	2.00	117954	39	28	0.20	10	46
137.00	139.00	2.00	117955	10	20	-1.00	16	39
139.00	141.00	2.00	117956	33	21	0.40	12	334
141.00	143.00	2.00	117957	419	28	2.60	84	2051
147.00	149.00	2.00	117958	24	7	0.60	48	577
149.00	151.00	2.00	117959	27	43	0.40	56	1438
151.00	153.00	2.00	117960	19	12	-1.00	12	127
159.00	161.00	2.00	117961	13	27	-1.00	10	43
165.00	167.00	2.00	117962	18	12	-1.00	6	42
167.00	169.00	2.00	117963	16	7	-1.00	8	55
169.00	171.00	2.00	117964	77	10	1.20	18	356
171.00	173.00	2.00	117965	13	4	0.20	10	61

173.00	175.00	2.00	117966	12	21	0.40	10	86
175.00	177.00	2.00	117967	37	15	0.20	18	467
177.00	179.00	2.00	117968	13	12	-1.00	8	38

Appendix 4

Certificates of Analyses

27-Sep-96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax : 604-573-4557

ICP CERTIFICATE OF ANALYSIS AK 96-1118

ALMADEN RESOURCES
2020-1055 WEST HASTINGS STREET
VANCOUVER,B.C.
V6E 2E9

ATTENTION: DWAYNE POLIQUIN

No. of samples received: 16
Sample type: CORE
PROJECT: # NOT GIVEN
SHIPMENT: # NOT GIVEN
Samples submitted by: NOT GIVEN

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Tl %	U	V	W	Y	Zn
1	117751	<0.2	0.80	<5	110	<5	0.56	<1	5	105	92	2.31	<10	0.38	400	15	0.03	3	470	10	<5	<20	108	0.06	<10	25	<10	2	86
2	117752	0.8	0.75	<5	80	<5	1.03	<1	4	101	286	2.45	<10	0.31	474	7	0.02	3	520	10	<5	<20	110	0.04	<10	18	<10	2	88
3	117753	0.6	0.79	<5	65	<5	0.62	<1	4	104	538	2.45	<10	0.29	353	164	0.02	4	470	4	<5	<20	105	0.03	<10	18	<10	<1	207
4	117754	0.4	0.82	<5	65	20	0.73	1	5	90	111	2.68	<10	0.34	458	40	0.02	4	520	10	<5	<20	92	0.05	<10	20	<10	1	72
5	117755	0.2	0.87	<5	50	<5	0.72	<1	4	118	107	2.76	<10	0.30	434	189	0.02	3	490	8	<5	<20	171	0.03	<10	17	<10	<1	64
6	117756	1.0	0.40	<5	35	25	0.36	<1	6	119	176	5.71	<10	0.08	202	76	<0.01	4	240	32	<5	<20	40	<0.01	<10	4	<10	<1	68
7	117757	<0.2	0.71	<5	100	<5	0.80	<1	4	110	46	1.95	<10	0.34	493	50	0.03	4	460	4	<5	<20	113	0.05	<10	21	<10	2	55
8	117758	<0.2	0.72	<5	60	<5	1.02	<1	4	80	31	1.83	<10	0.31	486	6	0.02	3	460	4	<5	<20	182	0.02	<10	17	<10	1	49
9	117759	0.4	0.75	<5	55	<5	3.07	1	4	88	99	1.95	<10	0.32	1538	87	0.02	3	440	6	<5	<20	303	0.02	<10	12	<10	4	88
10	117760	1.2	0.73	<5	50	<5	0.93	<1	4	100	598	2.37	<10	0.25	558	12	0.02	3	410	12	<5	<20	191	0.02	<10	13	<10	<1	86
11	117761	27.8	0.39	<5	35	140	0.52	41	4	100	515	4.47	<10	0.12	>10000	31	<0.01	3	160	144	<5	<20	18	0.03	<10	2	<10	<1	>10000
12	117762	2.6	0.41	<5	30	<5	0.35	5	2	130	215	1.55	<10	0.06	4973	12	<0.01	2	300	10	<5	<20	68	0.01	<10	2	<10	<1	2483
13	117763	14.2	0.37	<5	35	<5	0.57	6	3	110	197	2.89	<10	0.07	7343	18	<0.01	4	330	34	<5	<20	41	0.02	<10	2	<10	<1	2992
14	117764	10.2	0.47	<5	40	<5	1.03	9	3	94	416	3.98	<10	0.16	>10000	25	<0.01	4	300	12	<5	<20	56	0.04	<10	3	<10	<1	4904
15	117765	0.8	0.36	<5	25	<5	2.15	<1	2	118	165	1.14	<10	0.14	1879	139	<0.01	2	290	10	<5	<20	137	<0.01	<10	1	<10	3	84
16	117766	15.4	0.50	<5	35	25	1.00	6	5	104	342	4.18	<10	0.15	4858	18	<0.01	2	340	26	<5	<20	61	0.01	<10	3	<10	<1	3171

m-96-1

m-95-1

ALMADEN RESOURCES — ICP CERTIFICATE OF ANALYSIS AK 96-1118 — ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Tl %	U	V	W	Y	Zn
QC DATA:																													
Resplit:																													
1	117751	<0.2	0.80	<5	120	<5	0.59	<1	5	118	81	2.40	<10	0.38	429	15	0.03	5	480	4	<5	<20	95	0.06	<10	26	<10	1	98
Repeat:																													
1	11751	<0.2	0.80	<5	125	<5	0.60	<1	5	113	92	2.41	<10	0.37	425	16	0.03	3	500	6	<5	<20	95	0.06	<10	25	<10	2	93
Standard:																													
GEO'96		1.4	1.72	85	130	<5	1.69	<1	19	67	77	3.97	<10	0.88	683	<1	0.01	22	830	18	<5	<20	54	0.11	<10	74	<10	1	69

df/1166
XLS/96Kmlc#8

ECO-TECH LABORATORIES LTD.
per Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

2-Oct-96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax : 604-573-4557

ICP CERTIFICATE OF ANALYSIS AK 96-1142

ALMADEN RESOURCES
2020-1055 WEST HASTINGS STREET
VANCOUVER,B.C.
V6E 2E9

ATTENTION: MORGAN POLIQUIN

No. of samples received: 55
Sample type: CORE
PROJECT: # NONE GIVEN
SHIPMENT: # NONE GIVEN
Samples submitted by: MORGAN POLIQUIN

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	117767	<0.2	0.72	<5	145	<5	0.54	<1	5	118	18	1.64	<10	0.44	423	1	0.05	3	470	6	<5	<20	31	0.08	<10	28	<10	3	35
2	117768	<0.2	0.73	<5	135	<5	0.60	<1	5	101	18	1.64	<10	0.43	420	<1	0.04	3	470	6	<5	<20	27	0.08	<10	28	<10	3	36
3	117769	<0.2	0.70	<5	110	10	0.83	<1	4	127	7	1.66	<10	0.39	452	6	0.04	4	460	8	<5	<20	29	0.06	<10	25	<10	3	42
4	117770	0.4	0.80	<5	135	<5	0.87	<1	4	98	12	1.74	<10	0.39	506	4	0.03	3	500	14	<5	<20	33	0.05	<10	24	<10	3	76
5	117771	0.4	0.79	<5	175	5	0.94	<1	4	121	26	1.82	<10	0.41	506	7	0.03	4	510	12	<5	<20	42	0.05	<10	25	<10	3	55
6	117772	0.4	0.77	<5	100	<5	1.31	<1	4	117	26	1.82	<10	0.32	832	3	0.03	3	470	16	<5	<20	51	0.03	<10	19	<10	3	83
7	117773	0.8	0.78	<5	80	<5	1.26	<1	4	114	50	1.92	<10	0.27	659	17	0.02	4	470	14	<5	<20	52	0.02	10	16	<10	2	277
8	117774	0.6	0.74	<5	95	<5	1.21	<1	4	102	534	1.82	<10	0.32	611	8	0.02	4	510	10	<5	<20	41	0.03	<10	20	<10	3	436
9	117775	0.8	0.78	<5	95	<5	1.19	<1	4	115	147	1.70	<10	0.31	646	6	0.02	4	480	12	<5	<20	49	0.03	<10	19	<10	3	328
10	117776	0.2	0.79	<5	145	<5	0.84	<1	5	106	14	1.83	<10	0.40	540	1	0.03	4	510	8	<5	<20	44	0.06	<10	27	<10	3	135
11	117777	0.4	0.78	<5	80	<5	1.02	<1	5	112	44	2.44	<10	0.39	544	4	0.03	4	470	18	<5	<20	50	0.05	<10	25	<10	3	230
12	117778	<0.2	0.75	<5	95	5	1.09	<1	5	94	7	2.21	<10	0.36	598	13	0.03	3	510	8	<5	<20	50	0.06	<10	25	<10	3	105
13	117779	0.2	0.75	<5	65	<5	1.06	<1	7	113	11	2.78	<10	0.35	622	7	0.03	5	500	8	<5	<20	61	0.05	<10	23	<10	2	48
14	117780	0.6	0.66	<5	55	5	1.44	<1	5	85	17	2.59	<10	0.21	671	6	0.02	3	450	10	<5	<20	86	0.02	<10	14	<10	2	94
15	117781	0.2	0.65	<5	50	<5	1.44	<1	4	101	9	2.52	<10	0.23	689	7	0.02	3	430	10	<5	<20	63	0.01	<10	15	<10	1	60
16	117782	0.2	0.81	<5	90	<5	1.18	<1	4	94	34	2.09	<10	0.33	811	18	0.02	3	520	8	<5	<20	78	0.04	<10	21	<10	2	69
17	117783	<0.2	0.79	<5	115	<5	1.02	<1	4	111	13	2.01	<10	0.35	523	9	0.02	4	490	10	<5	<20	81	0.04	<10	22	<10	3	50
18	117784	<0.2	0.74	<5	85	<5	1.19	<1	4	97	7	1.93	<10	0.31	631	548	0.02	3	510	10	<5	<20	69	0.03	<10	20	<10	3	64
19	117785	0.2	0.79	<5	120	<5	0.88	<1	4	123	63	2.06	<10	0.37	503	19	0.03	5	490	8	<5	<20	76	0.05	<10	25	<10	2	131
20	117786	0.4	0.73	<5	70	<5	0.93	<1	5	94	22	2.55	<10	0.38	518	7	0.03	4	480	8	<5	<20	81	0.05	<10	23	<10	2	85
21	117787	0.2	0.80	<5	125	<5	0.87	<1	5	92	62	1.79	<10	0.43	525	16	0.03	5	530	10	<5	<20	92	0.06	<10	26	<10	3	409
22	117788	0.4	0.82	<5	105	<5	1.04	<1	4	93	23	1.93	<10	0.38	550	2	0.03	3	520	10	<5	<20	90	0.04	<10	24	<10	3	126
23	117789	0.4	0.80	<5	80	5	1.28	<1	5	98	17	2.09	<10	0.36	605	7	0.02	4	480	14	<5	<20	135	0.04	<10	21	<10	3	140
24	117790	0.4	0.69	<5	55	<5	1.73	<1	5	82	18	2.39	<10	0.24	781	9	0.02	3	500	14	<5	<20	89	0.02	<10	14	<10	3	211
25	117791	<0.2	0.82	<5	115	5	1.05	<1	4	112	8	1.89	<10	0.37	586	5	0.03	4	520	8	<5	<20	75	0.05	<10	24	<10	2	90

M-96-1

ALMADEN RESOURCES — ICP CERTIFICATE OF ANALYSIS AK 96-1142 — **ECO-TECH LABORATORIES LTD.**

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
QC DATA:																													
Resplit:																													
R/S 1	117767	<0.2	0.70	<5	140	<5	0.51	<1	5	138	15	1.56	<10	0.40	392	4	0.05	5	440	8	<5	<20	28	0.08	<10	26	<10	3	33
R/S 36	117802	0.6	0.70	<5	70	<5	1.08	<1	4	76	110	2.13	<10	0.27	639	8	0.01	3	520	8	<5	<20	85	0.02	<10	16	<10	2	105
Repeat:																													
1	117767	0.2	0.74	<5	145	5	0.55	<1	5	121	18	1.67	<10	0.44	431	<1	0.05	3	470	8	<5	<20	29	0.09	<10	29	<10	3	36
10	117776	<0.2	0.80	<5	135	5	0.65	<1	5	107	14	1.84	<10	0.40	540	3	0.03	3	510	8	<5	<20	41	0.06	<10	27	<10	3	137
19	117785	0.2	0.79	<5	100	<5	0.87	<1	5	121	61	2.04	<10	0.37	501	18	0.03	4	510	10	<5	<20	73	0.05	<10	25	<10	2	133
36	117802	0.6	0.70	<5	70	<5	1.07	<1	4	78	111	2.20	<10	0.27	647	5	0.02	3	500	10	<5	<20	87	0.02	<10	16	<10	2	108
45	117811	0.8	0.77	<5	90	<5	1.29	<1	4	111	146	1.81	<10	0.31	610	129	0.02	3	490	10	<5	<20	109	0.03	<10	19	<10	2	167
Standard:																													
GEO'96		1.2	1.89	60	150	<5	1.65	<1	17	57	76	3.75	<10	0.91	695	<1	0.02	21	670	22	<5	<20	50	0.12	<10	74	<10	3	70
GEO'96		1.4	1.87	60	155	<5	1.81	<1	17	57	74	3.68	<10	0.90	686	<1	0.02	21	660	22	<5	<20	52	0.11	<10	73	<10	3	68

d/1142
XLS/96Kmisc#8
Fax @:604-689-7645/M.Poliquin

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

ALMADEN RESOURCES — **ICP CERTIFICATE OF ANALYSIS AK 96-1142** — **ECO-TECH LABORATORIES LTD.**

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
26	117792	0.6	0.67	<5	80	<5	1.06	<1	4	79	20	2.11	<10	0.29	558	5	0.02	3	470	10	<5	<20	80	0.04	20	19	<10	2	86
27	117793	0.2	0.69	<5	50	<5	1.21	1	5	100	32	2.86	<10	0.24	583	10	0.02	4	480	8	<5	<20	67	0.02	<10	16	<10	1	317
28	117794	0.4	0.60	<5	60	<5	1.20	2	4	85	47	2.41	<10	0.21	561	16	0.01	2	440	8	<5	<20	69	0.02	<10	14	<10	1	927
29	117795	<0.2	0.76	<5	65	<5	1.46	2	5	91	69	2.49	<10	0.32	664	52	0.02	4	490	8	<5	<20	113	0.04	<10	21	<10	2	829
30	117796	0.2	0.69	<5	105	<5	0.99	<1	4	80	15	1.95	<10	0.35	525	3	0.02	3	500	6	<5	<20	74	0.05	<10	23	<10	2	42
31	117797	0.4	0.69	<5	45	<5	1.00	<1	6	96	27	2.96	<10	0.30	570	59	0.02	3	470	12	<5	<20	75	0.04	<10	20	<10	<1	150
32	117798	0.4	0.72	<5	95	<5	0.79	<1	5	80	69	1.89	<10	0.41	478	275	0.03	3	530	10	<5	<20	84	0.06	<10	27	<10	3	40
33	117799	0.4	0.70	<5	70	<5	0.86	<1	5	86	28	2.13	<10	0.31	470	17	0.02	4	490	14	<5	<20	79	0.04	10	19	<10	1	56
34	117800	0.4	0.71	<5	75	<5	1.40	<1	4	89	62	1.86	<10	0.31	693	5	0.02	3	500	12	<5	<20	115	0.03	<10	18	<10	3	56
35	117801	0.4	0.62	<5	60	10	1.33	<1	3	85	75	1.84	<10	0.23	604	6	0.02	3	480	10	<5	<20	74	0.02	<10	15	<10	2	70
36	117802	0.6	0.74	<5	60	<5	1.10	<1	4	80	116	2.26	<10	0.28	661	5	0.02	2	500	10	<5	<20	88	0.02	<10	16	<10	2	106
37	117803	0.4	0.74	<5	75	<5	1.11	<1	4	75	28	2.00	<10	0.32	600	9	0.02	3	480	10	<5	<20	100	0.04	<10	19	<10	2	115
38	117804	0.4	0.76	<5	80	<5	1.05	<1	4	99	21	1.98	<10	0.35	580	151	0.02	3	490	8	<5	<20	105	0.04	10	23	<10	2	92
39	117805	0.4	0.76	<5	65	<5	1.06	<1	4	93	60	1.92	<10	0.27	551	82	0.02	3	450	14	<5	<20	74	0.02	<10	17	<10	2	427
40	117806	0.4	0.70	<5	95	<5	1.02	<1	4	87	14	1.81	<10	0.37	515	37	0.02	3	480	8	<5	<20	92	0.05	<10	23	<10	2	41
41	117807	0.4	0.74	<5	105	<5	1.19	<1	4	92	141	1.71	<10	0.34	582	2	0.02	3	470	8	<5	<20	111	0.05	<10	22	<10	2	50
42	117808	0.4	0.72	<5	95	5	1.00	2	5	105	143	1.88	<10	0.35	502	125	0.02	4	490	16	<5	<20	84	0.05	<10	22	<10	2	720
43	117809	0.4	0.70	<5	120	<5	0.98	<1	5	85	22	1.73	<10	0.41	467	280	0.03	3	490	8	<5	<20	92	0.07	<10	25	<10	2	39
44	117810	0.2	0.73	<5	105	<5	1.49	<1	4	95	32	1.74	<10	0.36	615	60	0.02	4	500	8	<5	<20	132	0.05	<10	22	<10	3	47
45	117811	0.6	0.78	<5	85	<5	1.30	<1	4	112	141	1.84	<10	0.31	616	127	0.02	3	490	10	<5	<20	108	0.03	<10	19	<10	3	171
46	117812	0.4	0.69	<5	105	<5	0.93	<1	3	108	40	1.74	<10	0.29	424	8	0.02	3	450	8	<5	<20	95	0.03	20	19	<10	2	56
47	117813	0.4	0.77	<5	130	<5	0.95	<1	4	91	55	1.76	<10	0.39	525	4	0.02	3	520	10	<5	<20	114	0.05	<10	24	<10	2	44
48	117962	<0.2	0.66	<5	95	<5	0.71	<1	4	104	18	1.61	<10	0.40	493	12	0.04	4	490	6	<5	<20	61	0.05	<10	24	<10	2	42
49	117963	<0.2	0.68	<5	85	<5	0.66	<1	5	103	16	1.64	<10	0.43	450	7	0.04	3	490	8	<5	<20	54	0.06	<10	25	<10	2	55
50	117964	1.2	0.66	<5	45	10	1.38	<1	3	111	77	1.52	<10	0.32	719	10	0.03	3	460	18	<5	<20	90	0.01	<10	15	<10	2	356
51	117965	0.2	0.76	<5	115	<5	0.74	<1	5	101	13	1.73	<10	0.43	504	4	0.04	3	490	10	<5	<20	82	0.05	<10	25	<10	2	61
52	117966	0.4	0.70	<5	110	<5	0.88	<1	4	105	12	1.52	<10	0.38	542	21	0.03	3	490	10	<5	<20	88	0.03	<10	21	<10	2	86
53	117967	0.2	0.71	<5	55	<5	1.01	1	4	89	37	1.58	<10	0.37	632	15	0.03	3	490	18	<5	<20	93	0.02	<10	20	<10	2	467
54	117968	<0.2	0.74	<5	150	<5	0.59	<1	4	116	13	1.63	<10	0.44	450	12	0.04	4	480	8	<5	<20	65	0.06	<10	27	<10	2	38
55	117969	0.4	0.74	<5	345	<5	0.60	<1	4	103	22	1.67	<10	0.45	474	15	0.04	4	520	8	<5	<20	64	0.08	10	29	<10	3	38

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GEOCHEMISTRY
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ENVIRONMENTAL TESTING

Eco-Tech LABORATORIES LTD.

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4 Phone (604) 573-5700
Fax (604) 573-4557

CERTIFICATE OF ASSAY AK 96-1118

ALMADEN RESOURCES
2020-1055 WEST HASTINGS STREET
VANCOUVER,B.C.
V6E 2E9

27-Sep-96

M-95-1

ATTENTION: DWAYNE POLIQUIN

No. of samples received: 16
Sample type: CORE
PROJECT: # NOT GIVEN
SHIPMENT: # NOT GIVEN
Samples submitted by: NOT GIVEN

ET #.	Tag #	Zn (%)
11	117761	2.55

QC/DATA:
Standard:
Mp1a 19.02

ECO-TECH LABORATORIES LTD.
per Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/96Kmisc#8

Eco-Tech LABORATORIES LTD.

ASSAYING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ENVIRONMENTAL TESTING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4 Phone (604) 573-5700
Fax (604) 573-4557

CERTIFICATE OF ASSAY AK 96-762

ALMADEN RESOURCES CORPORATION
c/o ROSEDALE MOTEL
SUMMERLAND, BC
POSTAL CODE

1-Aug-96

ATTENTION: Y. LATOUCHE

No. of samples received: 70
PROJECT #: None given
SHIPMENT # None given
Samples submitted by: Y. Latouche

Post-it™ Fax Note 7671E	Date Aug 3	# of pages ▸ 3
To Duane	From	
Co./Dept.	Co.	
Phone #	Phone #	
Fax # 222-8734	Fax #	

DDH-M-96-1

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)	Cu (%)	Mo (%)
1	81851	<.03	<.001	2.2	0.06	0.08	0.002
2	81852	0.27	0.008	0.2	0.01	0.01	0.002
3	81853	<.03	<.001	0.8	0.02	0.01	0.035
4	81854	<.03	<.001	0.5	0.02	0.01	0.005
5	81855	<.03	<.001	0.2	0.01	0.01	0.001
6	81856	<.03	<.001	0.3	0.01	0.02	0.001
7	81857	<.03	<.001	2.5	0.07	0.04	0.003
8	81858	<.03	<.001	0.6	0.02	0.02	0.001
9	81859	<.03	<.001	0.5	0.02	0.02	0.044
10	81860	<.03	<.001	12.2	0.36	0.13	0.002
11	81861	0.27	0.008	2.3	0.07	0.05	0.026
12	81862	<.03	<.001	0.3	0.01	0.02	0.007
13	81863	<.03	<.001	4.1	0.12	0.02	0.001
14	81864	<.03	<.001	1.3	0.04	0.02	0.004
15	81865	<.03	<.001	5.8	0.17	0.04	0.179
16	81866	<.03	<.001	0.8	0.02	0.02	0.009
17	81867	<.03	<.001	0.8	0.02	0.03	0.001
18	81868	<.03	<.001	5.4	0.16	0.14	0.034
19	81869	<.03	<.001	0.5	0.02	0.02	0.045
20	81870	<.03	<.001	0.4	0.01	0.02	0.001

ECO-TECH LABORATORIES LTD.
per Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

ALMADEN RESOURCES CORPORATION AK 96-762 1-Aug-96

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)	Cu (%)	Mo (%)
21	81871	<.03	<.001	0.6	0.02	0.02	0.200
22	81872	<.03	<.001	0.4	0.01	0.01	0.020
23	81873	0.05	0.001	7.4	0.22	0.08	0.008
24	81874	<.03	<.001	1.3	0.04	0.06	0.011
25	81875	<.03	<.001	1.6	0.05	0.02	0.003
26	81876	<.03	<.001	2.0	0.06	0.07	<.001
27	81877	<.03	<.001	1.0	0.03	0.02	<.001
28	81878	<.03	<.001	3.4	0.10	0.13	0.001
29	81879	<.03	<.001	4.6	0.13	0.10	0.003
30	81880	0.22	0.006	1.9	0.06	0.05	0.004
31	81881	<.03	<.001	2.0	0.06	0.03	0.006
32	81882	<.03	<.001	2.3	0.07	0.02	0.003
33	81883	<.03	<.001	0.9	0.03	0.02	0.023
34	81884	<.03	<.001	45.0	1.31	4.06	0.002
35	81885	<.03	<.001	4.3	0.13	0.12	0.002
36	81886	<.03	<.001	39.5	1.15	0.76	0.009
37	81887	<.03	<.001	21.2	0.62	0.32	0.008
38	81888	<.03	<.001	83.0	2.42	0.14	0.001
39	81889	<.03	<.001	4.8	0.14	0.03	0.001
40	81890	<.03	<.001	3.9	0.11	0.03	0.009
41	81891	<.03	<.001	11.3	0.33	0.09	0.359
42	81892	<.03	<.001	5.4	0.16	0.07	0.003
43	81893	<.03	<.001	16.4	0.48	0.18	0.006
44	81894	<.03	<.001	19.0	0.55	0.07	0.002
45	81895	<.03	<.001	32.9	0.96	0.33	0.002
46	81896	<.03	<.001	9.4	0.27	0.20	0.032
47	81897	<.03	<.001	14.3	0.42	0.18	0.004
48	81898	<.03	<.001	10.4	0.30	0.13	0.001
49	81899	<.03	<.001	20.6	0.60	0.16	0.002
50	81900	<.03	<.001	11.7	0.34	0.07	0.005
51	81901	0.03	0.001	22.2	0.65	0.07	0.003
52	81902	0.03	0.001	1.9	0.06	0.02	0.005
53	81903	<.03	<.001	2.1	0.06	0.04	0.001
54	81904	<.03	<.001	1.4	0.04	0.02	0.001
55	81905	<.03	<.001	0.9	0.03	0.02	0.001
56	81906	<.03	<.001	0.8	0.02	0.02	0.002
57	81907	0.03	0.001	1.6	0.05	0.06	0.008
58	81908	<.03	<.001	2.1	0.06	0.03	0.118
59	81909	<.03	<.001	0.4	0.01	0.03	0.014
60	81910	<.03	<.001	0.5	0.02	0.02	0.003
61	81911	0.03	0.001	2.4	0.07	0.01	0.002

ECO-TECH LABORATORIES LTD.
per Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

ALMADEN RESOURCES CORPORATION AK 96-762

1-Aug-96

m-96-1

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)	Cu (%)	Mo (%)
62	81912	<.03	<.001	0.3	0.01	0.02	0.001
63	81913	<.03	<.001	0.6	0.02	0.03	0.002
64	81914	<.03	<.001	1.9	0.06	0.06	0.003
65	81915	<.03	<.001	1.0	0.03	0.04	0.002
66	81916	<.03	<.001	1.9	0.06	0.07	0.003
67	81917	<.03	<.001	2.8	0.08	0.01	0.001
68	81918	<.03	<.001	0.4	0.01	0.01	0.019
69	81919	0.18	0.005	2.0	0.06	0.01	0.007
70	81920	<.03	<.001	1.2	0.04	0.02	0.002
QC DATA:							
Resplit:							
R/S 1	81851	<.03	<.001	2.7	0.08	0.09	0.002
R/S 36	81886	<.03	<.001	38.4	1.12	0.72	0.008
Repeat:							
1	81851	<.03	<.001	-	-	0.09	0.002
10	81860	<.03	<.001	-	-	-	-
19	81869	<.03	<.001	-	-	-	-
36	81886	<.03	<.001	-	-	-	-
38	81888	-	-	-	-	0.15	0.001
45	81895	<.03	<.001	-	-	-	-
Standard:							
Std-M		3.21	0.094	-	-	1.46	-
Std-M		3.30	0.096	-	-	-	-
CPb-1		-	-	630.0	18.37	-	-
PR-1		-	-	-	-	-	0.059

XLS/96Kmisc#5

per

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

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10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4 Phone (604) 573-5700
Fax (604) 573-4557

CERTIFICATE OF ASSAY AK 96-1118

ALMADEN RESOURCES
2020-1055 WEST HASTINGS STREET
VANCOUVER,B.C.
V6E 2E9

27-Sep-96

m-95-1

ATTENTION: DWAYNE POLIQUIN

No. of samples received: 16
Sample type: CORE
PROJECT: # NOT GIVEN
SHIPMENT: # NOT GIVEN
***Samples submitted by:** NOT GIVEN*

ET #.	Tag #	Zn (%)
11	117761	2.55

QC/DATA:
Standard:
Mp1a 19.02

ECO-TECH LABORATORIES LTD.
Per Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/96Kmisc#8

Eco-Tech
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ANALYTICAL CHEMISTRY
ENVIRONMENTAL TESTING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4 Phone (604) 573-5700
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CERTIFICATE OF ASSAY AK 96-817

ALMADEN RESOURCES
2020-1055 WEST HASTINGS STREET
VANCOUVER,B.C.
V6E 2E9

9-Aug-96

ATTENTION: DWAYNE POLIQUIN

No. of samples received: 89
Sample type: CORE
PROJECT: # NONE GIVEN
SHIPMENT: # NONE GIVEN
Samples submitted by: NOT INDICATED

m-96-2

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)	Cu (%)	Mo (%)
1	81921	<.03	<.001	2.4	0.07	0.01	<.001
2	81922	<.03	<.001	0.2	0.01	0.01	<.001
3	81923	<.03	<.001	0.1	<.001	0.02	<.001
4	81924	<.03	<.001	0.2	0.01	0.02	<.001
5	81925	<.03	<.001	0.2	0.01	0.02	<.001
6	81926	<.03	<.001	0.2	0.01	0.02	<.001
7	81927	<.03	<.001	0.3	0.01	0.02	<.001
8	81928	<.03	<.001	0.1	<.001	0.02	<.001
9	81929	<.03	<.001	0.1	<.001	0.02	<.001
10	81930	<.03	<.001	1.1	0.03	0.02	<.001
11	81931	<.03	<.001	1.2	0.04	0.02	0.001
12	81932	<.03	<.001	10.5	0.31	0.02	0.004
13	81933	<.03	<.001	0.2	0.01	0.01	<.001
14	81934	<.03	<.001	0.5	0.02	0.01	0.003
15	81935	<.03	<.001	0.8	0.02	0.01	0.002
16	81936	<.03	<.001	0.1	<.001	0.01	0.001
17	81937	<.03	<.001	0.9	0.03	0.01	0.001
18	81938	<.03	<.001	0.2	0.01	0.01	0.001
19	81939	<.03	<.001	0.2	0.01	0.01	0.001
20	81940	<.03	<.001	0.3	0.01	0.01	<.001

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B.C. Certified Assayer

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ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)	Cu (%)	Mo (%)
21	81941	<.03	<.001	0.1	<.001	0.01	0.005
22	81942	<.03	<.001	0.6	0.02	0.01	0.006
23	81943	<.03	<.001	0.1	<.001	0.01	0.002
24	81944	<.03	<.001	0.3	0.01	0.01	0.003
25	81945	<.03	<.001	0.1	<.001	0.02	0.001
26	81946	<.03	<.001	0.4	0.01	0.02	0.003
27	81947	<.03	<.001	0.2	0.01	0.02	0.002
28	81948	<.03	<.001	0.2	0.01	0.02	0.007
29	81949	<.03	<.001	0.2	0.01	0.02	0.003
30	81950	<.03	<.001	0.4	0.01	0.02	0.001
31	81951	<.03	<.001	0.1	<.001	0.02	0.003
32	81952	<.03	<.001	0.7	0.02	0.02	0.001
33	81953	<.03	<.001	0.3	0.01	0.02	<.001
34	81954	<.03	<.001	1.1	0.03	0.04	<.001
35	81955	<.03	<.001	0.7	0.02	0.02	0.001
36	81956	<.03	<.001	0.8	0.02	0.02	0.004
37	81957	<.03	<.001	1.0	0.03	0.03	0.003
38	81958	<.03	<.001	1.4	0.04	0.02	0.008
39	81959	<.03	<.001	1.3	0.04	0.02	0.002
40	81960	<.03	<.001	0.3	0.01	0.02	0.001
41	81961	<.03	<.001	1.1	0.03	0.03	0.007
42	81962	<.03	<.001	0.3	0.01	0.02	0.001
43	81963	<.03	<.001	1.3	0.04	0.02	0.001
44	81964	<.03	<.001	0.4	0.01	0.02	0.010
45	81965	<.03	<.001	0.4	0.01	0.01	<.001
46	81966	<.03	<.001	0.3	0.01	0.01	0.003
47	81967	<.03	<.001	0.3	0.01	0.01	0.007
48	81968	<.03	<.001	0.5	0.02	0.01	0.001
49	81969	<.03	<.001	0.3	0.01	0.02	0.001
50	81970	<.03	<.001	0.5	0.02	0.01	0.001
51	81971	<.03	<.001	1.4	0.04	0.02	0.001
52	81972	<.03	<.001	1.2	0.04	0.02	0.002
53	81973	<.03	<.001	0.6	0.02	0.02	0.001
54	81974	<.03	<.001	0.3	0.01	0.02	0.006
55	81975	<.03	<.001	0.5	0.02	0.01	0.007
56	81976	<.03	<.001	0.4	0.01	0.02	0.003
57	81977	<.03	<.001	0.7	0.02	0.04	0.001
58	81978	<.03	<.001	1.3	0.04	0.02	0.002
59	81979	<.03	<.001	1.2	0.04	0.02	0.004
60	81980	<.03	<.001	2.9	0.09	0.03	0.008
61	81981	<.03	<.001	0.5	0.02	0.02	0.022

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ALMADEN RESOURCES AK 96-817

9-Aug-96

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)	Cu (%)	Mo (%)
62	81982	<.03	<.001	1.3	0.04	0.04	0.002
63	81983	<.03	<.001	1.6	0.05	0.03	0.002
64	81984	<.03	<.001	2.0	0.06	0.07	0.003
65	81985	<.03	<.001	1.2	0.04	0.04	0.002
66	81986	<.03	<.001	1.2	0.04	0.06	0.001
67	81987	<.03	<.001	2.5	0.07	0.14	0.005
68	81988	<.03	<.001	0.8	0.02	0.02	0.002
69	81989	<.03	<.001	1.8	0.05	0.04	0.004
70	81990	<.03	<.001	3.9	0.11	0.05	0.002
71	81991	<.03	<.001	0.5	0.02	0.02	<.001
72	81992	<.03	<.001	1.0	0.03	0.02	0.030
73	81993	<.03	<.001	1.1	0.03	0.03	0.003
74	81994	<.03	<.001	0.6	0.02	0.02	0.011
75	81995	<.03	<.001	1.5	0.04	0.03	0.001
76	81996	<.03	<.001	0.9	0.03	0.03	0.002
77	81997	<.03	<.001	0.5	0.02	0.02	0.009
78	81998	<.03	<.001	1.4	0.04	0.05	0.004
79	81999	<.03	<.001	6.5	0.19	0.09	0.022
80	82000	<.03	<.001	1.1	0.03	0.04	0.003
81	82001	<.03	<.001	0.7	0.02	0.02	0.002
82	82002	<.03	<.001	0.5	0.02	0.02	0.001
83	82003	<.03	<.001	0.7	0.02	0.02	0.001
84	82004	<.03	<.001	0.8	0.02	0.02	<.001
85	82005	<.03	<.001	0.4	0.01	0.01	0.001
86	82006	<.03	<.001	0.7	0.02	0.02	0.001
87	82007	<.03	<.001	0.9	0.03	0.01	0.001
88	64005	<.03	<.001	0.8	0.02	0.02	0.022
89	NO#	<.03	<.001	1.5	0.04	0.03	0.002

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per

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ALMADEN RESOURCES AK 96-817 9-Aug-96

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)	Cu (%)	Mo (%)
QC/DATA:							
Resplit:							
1	81921	<.03	<.001	2.6	0.08	0.01	0.001
36	81956	<.03	<.001	0.7	0.02	0.02	0.004
71	81991	<.03	<.001	0.4	0.01	0.02	0.001
Repeat:							
1	81921	<.03	<.001	2.3	0.07	0.01	<.001
10	81930	<.03	<.001	1.1	0.03	-	-
19	81939	<.03	<.001	0.3	0.01	-	-
36	81956	<.03	<.001	0.6	0.02	-	-
38	81958	<.03	<.001	-	-	0.02	0.007
45	81965	<.03	<.001	0.4	0.01	-	-
54	81974	<.03	<.001	0.4	0.01	-	-
71	81991	<.03	<.001	0.6	0.02	-	-
75	81995	-	-	-	-	-	0.001
80	82000	<.03	<.001	1.2	0.04	-	-
Standard:							
Mp-IA		-	-	-	-	1.46	-
Mp-IA		-	-	-	-	1.45	-
Mp-IA		-	-	-	-	1.44	-
PR-I		-	-	-	-	-	0.590
STD-M		3.26	0.095	1.4	0.04	-	-
STD-M		3.29	0.096	1.5	0.04	-	-
STD-M		3.28	0.096	1.3	0.04	-	-

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per

ECO-TECH LABORATORIES LTD.
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B.C. Certified Assayer

XLS/96KMISC#5

M-96-2

ALMADEN RESOURCES — ICP CERTIFICATE OF ANALYSIS AK 96-888 — ECO-TECH LABORATORIES LTD.

El #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
26	84027	5	0.8	0.90	<5	50	<5	0.43	<1	4	120	526	3.16	<10	0.18	238	184	0.01	5	480	20	<5	<20	94	0.01	<10	10	<10	<1	115
27	82008	5	2.2	0.76	<5	80	<5	0.65	<1	6	115	173	2.45	<10	0.40	447	11	0.04	4	580	14	<5	<20	324	0.09	<10	27	<10	<1	118
28	82009	5	<0.2	0.83	<5	130	<5	0.54	<1	5	110	46	2.20	<10	0.45	448	39	0.05	4	590	8	<5	<20	376	0.11	<10	31	<10	<1	142
29	82010	5	0.4	0.84	<5	100	<5	0.64	1	5	108	206	2.61	<10	0.38	407	6	0.03	3	610	12	<5	<20	194	0.06	<10	26	<10	1	451
30	82011	5	2.2	0.66	<5	45	<5	0.48	<1	5	94	521	2.76	<10	0.21	292	74	0.02	3	520	36	<5	<20	67	0.02	<10	13	<10	<1	191
31	82012	5	2.4	0.84	<5	45	<5	3.43	<1	4	137	361	2.86	<10	0.30	1444	66	<0.01	4	580	48	<5	<20	207	<0.01	<10	7	<10	3	134
32	82013	5	12.6	0.66	<5	40	<5	1.65	3	5	68	1764	3.92	<10	0.17	746	10	<0.01	4	600	264	<5	<20	98	<0.01	<10	5	<10	<1	1085
33	82014	5	<0.2	0.86	<5	80	<5	0.73	<1	5	108	148	2.80	<10	0.38	413	94	0.02	3	650	12	<5	<20	142	0.05	<10	23	<10	1	105
34	82015	5	0.4	0.78	<5	70	<5	0.91	<1	5	97	106	2.67	<10	0.33	426	32	0.03	3	560	20	<5	<20	121	0.04	<10	20	<10	2	304
35	82016	5	<0.2	0.81	<5	120	<5	0.68	<1	5	120	62	2.30	<10	0.43	424	203	0.04	3	600	8	<5	<20	85	0.09	<10	28	<10	1	110
36	82017	5	0.2	0.87	<5	120	<5	0.73	1	6	101	73	2.84	<10	0.42	453	23	0.04	4	640	8	<5	<20	81	0.08	<10	28	<10	<1	596
37	82018	5	0.6	0.88	<5	105	<5	0.67	1	5	117	156	2.61	<10	0.39	427	26	0.04	4	570	14	<5	<20	168	0.06	<10	26	<10	2	400
38	82019	5	<0.2	0.84	<5	75	<5	0.82	3	6	114	79	2.60	<10	0.39	458	48	0.03	4	570	8	<5	<20	213	0.05	<10	25	<10	1	1272
39	82020	5	0.4	0.81	<5	100	<5	1.07	<1	5	113	243	2.29	<10	0.33	441	808	0.03	4	520	8	<5	<20	196	0.04	<10	21	<10	2	186
40	82021	5	0.2	0.81	<5	110	<5	0.91	<1	4	132	121	2.36	<10	0.37	427	37	0.03	4	560	8	<5	<20	132	0.05	<10	24	<10	2	104
41	82022	5	<0.2	0.82	<5	120	5	0.88	<1	5	101	59	2.49	<10	0.39	391	28	0.04	4	560	6	<5	<20	91	0.07	<10	23	<10	1	134
42	82023	5	<0.2	0.75	<5	115	<5	0.72	<1	6	94	31	2.36	<10	0.42	423	26	0.03	4	570	6	<5	<20	116	0.09	<10	28	<10	<1	203
43	82024	5	<0.2	0.77	<5	140	<5	0.61	<1	5	99	48	1.98	<10	0.44	423	24	0.05	4	560	6	<5	<20	107	0.10	<10	29	<10	<1	81
44	82025	5	0.6	0.80	<5	95	<5	0.85	2	5	129	238	2.51	<10	0.35	346	36	0.03	4	560	8	<5	<20	134	0.06	<10	22	<10	<1	807
45	82026	5	<0.2	0.83	<5	150	<5	0.61	<1	6	108	53	2.12	<10	0.46	418	111	0.05	4	570	8	<5	<20	127	0.10	<10	30	<10	1	64
46	82027	5	0.8	1.02	<5	105	<5	1.04	1	5	134	298	2.53	<10	0.44	450	73	0.03	5	640	8	<5	<20	313	0.06	<10	28	<10	3	404
47	82028	5	1.4	0.85	<5	90	<5	0.58	<1	5	105	493	2.86	<10	0.39	400	18	0.03	4	580	8	<5	<20	126	0.06	<10	25	<10	1	256
48	82029	5	0.4	0.89	<5	110	<5	0.86	1	5	101	133	2.37	<10	0.40	412	46	0.02	4	570	8	<5	<20	239	0.06	<10	26	<10	2	410
49	82030	5	0.8	0.80	<5	75	<5	0.57	2	5	79	318	2.81	<10	0.37	380	183	0.02	3	570	8	<5	<20	89	0.05	<10	23	<10	<1	714
50	82031	5	0.4	0.81	<5	80	<5	0.92	1	5	121	119	2.61	<10	0.35	457	14	0.03	4	620	30	<5	<20	118	0.08	<10	24	<10	2	352
51	82032	5	0.6	0.70	<5	150	10	1.49	1	4	95	78	2.01	<10	0.38	517	21	0.03	4	550	30	<5	<20	173	0.04	<10	20	<10	2	233
52	82033	5	0.2	0.77	<5	75	<5	0.68	<1	5	104	141	2.62	<10	0.36	445	299	0.03	4	570	20	<5	<20	119	0.06	<10	22	<10	1	277
53	82034	5	1.4	0.76	<5	50	<5	0.63	<1	4	82	325	3.19	<10	0.20	320	42	0.01	4	610	54	<5	<20	98	0.02	<10	10	<10	1	218
54	82035	5	5.6	0.63	<5	35	<5	1.08	12	5	97	476	4.19	<10	0.12	654	28	<0.01	3	600	558	<5	<20	76	<0.01	<10	4	<10	<1	5263
55	82036	5	3.6	0.82	<5	50	<5	0.64	<1	5	87	728	3.19	<10	0.16	359	33	0.01	4	570	50	<5	<20	110	<0.01	<10	6	<10	<1	255
56	82037	5	2.8	0.62	<5	40	<5	0.47	2	5	112	671	3.53	<10	0.11	218	38	<0.01	5	620	128	<5	<20	76	<0.01	<10	5	<10	<1	1001
57	82038	5	1.0	0.73	<5	50	<5	0.88	<1	5	82	497	3.06	<10	0.28	355	132	0.02	4	620	12	<5	<20	185	0.04	<10	17	<10	1	70
58	82039	5	<0.2	0.84	<5	70	<5	0.86	<1	5	142	61	2.59	<10	0.35	353	33	0.03	5	580	12	<5	<20	217	0.04	<10	21	<10	1	99
59	82040	5	1.2	0.77	<5	65	<5	7.47	<1	3	86	170	2.25	<10	0.28	2295	112	0.01	4	420	12	<5	<20	486	0.02	<10	12	<10	6	102
60	82041	5	<0.2	0.98	<5	85	<5	0.90	<1	5	138	69	2.68	<10	0.42	441	18	0.03	6	510	10	<5	<20	328	0.06	<10	25	<10	<1	169

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ALMADEN RESOURCES — ICP CERTIFICATE OF ANALYSIS AK 96-888 — ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
61	82042	5	1.0	1.05	<5	70	<5	0.82	<1	6	106	423	3.26	<10	0.44	415	226	0.02	6	550	12	<5	<20	229	0.04	<10	24	<10	1	166
62	82043	5	<0.2	0.84	<5	105	<5	0.83	2	6	112	70	2.72	<10	0.36	339	47	0.03	4	530	6	<5	<20	82	0.05	<10	21	<10	<1	648
63	82044	5	0.2	0.81	<5	55	<5	0.58	<1	6	105	119	2.94	<10	0.37	364	29	0.03	4	570	8	<5	<20	80	0.06	<10	23	<10	<1	224
64	82045	5	1.6	1.02	<5	80	<5	0.61	<1	5	128	572	3.27	<10	0.36	357	39	0.03	4	670	16	<5	<20	176	0.03	<10	23	<10	<1	227
65	82046	5	1.0	0.86	<5	65	<5	0.67	<1	5	93	497	3.21	<10	0.31	377	91	0.02	3	670	14	<5	<20	115	0.04	<10	20	<10	2	338
66	82047	5	17.8	0.74	<5	30	<5	0.59	12	7	125	446	4.74	<10	0.21	463	58	0.01	4	470	192	<5	<20	98	0.02	<10	12	<10	<1	5180
67	82048	5	1.2	0.81	<5	50	<5	0.67	<1	6	102	486	3.22	<10	0.28	400	6	0.02	4	530	12	<5	<20	173	0.02	<10	14	<10	1	176
68	82049	5	0.6	0.93	<5	60	<5	1.43	<1	5	149	88	2.91	<10	0.32	759	17	0.02	5	470	38	<5	<20	389	0.02	<10	17	<10	3	176
69	82050	5	0.2	0.85	<5	65	<5	0.79	<1	5	82	90	2.99	<10	0.34	380	169	0.02	4	470	22	<5	<20	207	0.03	<10	16	<10	2	121
70	82751	5	0.8	0.82	<5	100	<5	0.64	1	5	119	66	2.62	<10	0.31	442	35	0.03	4	500	10	<5	<20	124	0.04	<10	18	<10	2	447
71	82752	5	<0.2	0.86	<5	105	<5	0.77	<1	5	122	77	2.26	<10	0.35	418	109	0.02	4	510	10	<5	<20	196	0.05	<10	20	<10	1	208
72	82753	5	0.6	0.81	<5	75	<5	0.79	<1	6	91	210	3.14	<10	0.30	384	6	0.01	4	540	12	<5	<20	148	0.04	<10	18	<10	<1	130
73	82754	5	0.2	0.94	<5	105	<5	0.65	<1	6	144	192	2.88	<10	0.42	420	18	0.03	6	580	8	<5	<20	131	0.06	<10	28	<10	<1	95
74	82755	5	1.0	0.83	<5	85	<5	0.44	<1	5	92	177	3.28	<10	0.29	490	47	0.01	4	520	10	<5	<20	75	0.03	<10	16	<10	<1	141
75	82756	5	0.6	0.76	<5	55	<5	0.40	<1	3	132	146	3.18	<10	0.21	282	16	0.02	4	460	10	<5	<20	78	0.02	<10	13	<10	<1	210
76	82757	5	0.6	0.81	<5	60	<5	0.44	<1	4	94	246	3.48	<10	0.25	293	28	0.02	4	500	10	<5	<20	73	0.02	<10	14	<10	<1	450
77	82758	5	0.4	0.85	<5	95	5	0.53	<1	4	148	91	3.05	<10	0.34	325	9	0.03	4	510	8	<5	<20	100	0.04	<10	21	<10	<1	283
78	84151	5	<0.2	0.93	<5	175	<5	0.71	<1	5	136	10	1.97	<10	0.48	585	5	0.03	4	540	18	<5	<20	38	0.05	<10	28	<10	1	251
79	84152	5	0.2	0.80	<5	135	<5	1.23	1	3	112	13	2.34	<10	0.29	1162	254	<0.01	4	510	58	<5	<20	76	<0.01	<10	9	<10	2	578
80	84153	5	0.6	0.74	<5	65	<5	1.83	2	3	135	38	1.69	<10	0.28	1322	19	0.01	4	460	22	<5	<20	86	<0.01	<10	11	<10	2	983
81	84154	10	0.8	0.77	<5	105	<5	1.16	1	4	137	120	1.73	<10	0.35	805	9	0.02	4	500	24	<5	<20	70	0.03	<10	18	<10	2	512
82	84155	5	0.6	0.83	<5	90	<5	1.29	1	5	106	46	1.96	<10	0.36	1222	33	0.02	4	490	40	<5	<20	63	0.03	<10	16	<10	2	447
83	84156	5	0.4	0.73	<5	105	<5	1.12	<1	4	154	20	1.62	<10	0.36	665	94	0.03	4	460	8	<5	<20	93	0.03	<10	19	<10	2	88
84	84157	5	<0.2	0.79	<5	100	<5	0.99	<1	4	90	13	1.83	<10	0.42	666	75	0.02	3	510	10	<5	<20	146	0.04	<10	20	<10	2	53
85	84158	5	1.0	0.81	<5	80	<5	0.81	2	4	131	16	3.37	<10	0.38	6270	44	<0.01	4	460	54	<5	<20	70	0.02	<10	11	<10	<1	922
86	84159	5	2.0	0.88	<5	125	<5	0.42	3	4	111	49	3.07	<10	0.39	3340	4	<0.01	4	480	128	<5	<20	64	<0.01	<10	9	<10	<1	1378
87	84160	5	1.8	0.89	<5	75	10	1.11	4	4	150	314	2.27	<10	0.34	796	12	0.02	6	470	28	<5	<20	96	0.02	<10	18	<10	1	2041
88	84161	5	0.2	0.86	<5	130	15	1.04	<1	5	91	51	1.78	<10	0.43	692	54	0.02	5	510	10	<5	<20	145	0.05	<10	24	<10	3	244
89	84162	5	0.4	0.80	<5	85	<5	1.54	<1	5	110	99	1.76	<10	0.32	769	17	0.01	4	480	10	<5	<20	166	0.02	<10	17	<10	3	289
90	84163	5	0.4	0.94	<5	80	<5	2.37	<1	4	105	184	1.66	<10	0.39	799	127	0.01	4	440	18	<5	<20	253	0.02	<10	16	<10	3	176
91	84164	5	0.6	0.66	<5	45	<5	3.02	<1	4	100	45	2.21	<10	0.24	1088	127	0.01	3	480	22	<5	<20	158	<0.01	<10	7	<10	3	248
92	84165	5	0.8	0.73	<5	80	<5	1.81	2	4	115	197	1.88	<10	0.20	688	6	0.01	4	480	26	<5	<20	120	<0.01	<10	8	<10	2	1040
93	84166	5	2.4	0.97	<5	85	<5	2.13	5	4	141	819	2.16	<10	0.33	954	43	0.01	4	490	58	<5	<20	187	<0.01	<10	12	<10	1	2550
94	84167	5	0.8	0.74	<5	75	<5	1.60	1	5	105	69	1.97	<10	0.28	774	18	0.02	4	530	18	<5	<20	96	0.02	<10	14	<10	2	585
95	No Identification	5	1.6	0.90	<5	55	<5	0.47	3	4	124	604	3.40	<10	0.15	264	447	<0.01	3	640	14	<5	<20	38	<0.01	<10	9	<10	<1	1158

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9-Aug-96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax : 604-573-4557

ICP CERTIFICATE OF ANALYSIS AK 96-817

m-96-2

ALMADEN RESOURCES
2020-1055 WEST HASTINGS STREET
VANCOUVER,B.C.
V6E 2E9

ATTENTION: DWAYNE POLIQUIN

No. of samples received: 89
Sample type: CORE
PROJECT #: NONE GIVEN
SHIPMENT #: NONE GIVEN
Samples submitted by: NOT INDICATED

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	81921	2.4	0.62	<5	75	<5	1.86	<1	2	141	12	0.98	40	0.14	730	4	0.02	2	750	38	<5	<20	89	<0.01	<10	8	<10	5	96
2	81922	0.2	0.56	<5	55	<5	1.65	<1	2	126	2	0.95	40	0.18	431	4	0.03	2	770	12	<5	<20	90	0.01	<10	11	<10	5	44
3	81923	<0.2	0.59	<5	50	<5	1.75	<1	2	180	10	1.03	40	0.18	377	9	0.03	2	750	12	<5	<20	97	0.01	<10	12	<10	5	101
4	81924	0.2	0.57	<5	860	<5	2.07	<1	<1	102	2	0.81	40	0.15	528	3	0.02	1	750	14	<5	<20	130	<0.01	<10	8	<10	6	59
5	81925	0.2	0.55	<5	50	<5	1.80	<1	2	163	2	0.88	50	0.17	388	8	0.03	2	760	14	<5	<20	94	<0.01	<10	10	<10	6	87
6	81926	0.2	0.58	<5	50	<5	1.70	<1	2	120	3	0.88	60	0.18	416	3	0.02	2	740	12	<5	<20	91	<0.01	<10	9	<10	6	71
7	81927	0.4	0.52	<5	55	<5	1.82	<1	2	160	3	0.81	40	0.09	577	8	0.02	3	750	22	<5	<20	106	<0.01	<10	5	<10	6	141
8	81928	0.2	0.50	<5	55	<5	1.97	<1	1	136	2	0.76	40	0.10	555	3	0.03	2	720	20	<5	<20	135	<0.01	<10	5	<10	6	88
9	81929	<0.2	0.42	<5	40	<5	1.88	<1	1	129	2	0.63	30	0.06	676	7	0.02	2	620	32	<5	<20	93	<0.01	<10	4	<10	7	150
10	81930	1.0	0.83	<5	120	<5	2.28	<1	3	118	59	1.71	20	0.24	1170	10	0.02	3	1050	34	<5	<20	189	0.01	<10	13	<10	6	289
11	81931	1.2	0.71	<5	65	30	2.17	2	4	141	100	1.85	<10	0.19	1922	13	<0.01	3	570	38	<5	<20	131	<0.01	<10	7	<10	4	680
12	81932	10.4	0.85	<5	40	10	4.61	3	4	117	153	2.24	20	0.27	4641	63	<0.01	4	940	136	<5	<20	276	0.01	<10	7	<10	5	1083
13	81933	0.2	1.00	<5	120	<5	4.07	<1	3	78	4	1.42	60	0.27	2607	8	<0.01	<1	2080	24	<5	<20	234	0.01	<10	12	<10	9	220
14	81934	0.4	0.88	<5	80	<5	2.52	<1	4	95	34	1.82	30	0.26	1941	55	0.01	3	1350	22	<5	<20	166	0.02	<10	13	<10	5	154
15	81935	0.8	0.80	<5	75	<5	1.52	<1	5	133	46	1.93	10	0.23	1121	28	0.02	3	630	14	<5	<20	85	0.02	<10	14	<10	3	169
16	81936	<0.2	0.70	<5	40	<5	2.22	1	3	99	24	1.10	30	0.16	1159	9	0.03	3	1160	14	<5	<20	118	0.01	<10	11	<10	10	284
17	81937	0.8	0.62	<5	35	10	2.41	1	2	116	5	0.92	20	0.12	1652	9	0.02	2	870	28	<5	<20	102	<0.01	<10	6	<10	10	209
18	81938	0.2	0.95	<5	190	<5	1.24	<1	5	125	43	2.12	<10	0.46	695	18	0.03	4	590	6	<5	<20	95	0.05	<10	29	<10	3	67
19	81939	0.2	0.94	<5	120	<5	1.17	<1	6	162	36	2.36	<10	0.41	723	14	0.04	6	600	8	<5	<20	79	0.04	<10	27	<10	3	109
20	81940	0.2	0.89	<5	155	<5	1.00	<1	5	119	46	2.14	<10	0.46	659	8	0.03	4	580	4	<5	<20	93	0.06	<10	29	<10	3	74
21	81941	<0.2	0.88	<5	60	<5	1.40	<1	7	143	27	2.74	<10	0.40	793	68	0.03	5	550	4	<5	<20	115	0.04	<10	24	<10	3	66
22	81942	0.6	0.81	<5	70	20	1.36	<1	7	153	38	2.70	<10	0.36	754	75	0.04	5	540	6	<5	<20	78	0.04	<10	22	<10	3	65
23	81943	<0.2	0.98	<5	165	<5	1.17	<1	5	198	24	2.19	<10	0.44	650	15	0.05	5	550	2	<5	<20	100	0.06	<10	28	<10	4	72
24	81944	0.2	0.93	<5	115	<5	1.28	<1	5	126	29	2.16	<10	0.43	633	39	0.03	5	570	4	<5	<20	122	0.04	<10	25	<10	3	76
25	81945	<0.2	0.96	<5	95	<5	1.53	<1	5	182	111	2.40	<10	0.38	727	12	0.04	5	540	4	<5	<20	129	0.02	<10	22	<10	3	140

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m-96-2

ALMADEN RESOURCES

ICP CERTIFICATE OF ANALYSIS AK 96-817

ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Tl %	U	V	W	Y	Zn
26	81946	0.4	1.06	<5	110	<5	2.16	1	5	125	140	2.30	10	0.47	837	45	0.03	4	910	10	<5	<20	232	0.03	<10	28	<10	4	543
27	81947	0.2	1.06	<5	145	<5	1.55	<1	5	152	107	2.10	<10	0.50	640	28	0.03	4	560	<2	<5	<20	207	0.06	<10	31	<10	4	94
28	81948	0.2	0.94	<5	120	<5	1.31	1	6	119	160	2.42	<10	0.44	636	97	0.03	4	570	2	<5	<20	130	0.06	<10	29	<10	3	186
29	81949	0.2	0.92	<5	140	5	1.20	<1	6	153	111	2.31	<10	0.45	622	35	0.03	5	550	2	<5	<20	121	0.06	<10	29	<10	4	63
30	81950	0.4	1.05	<5	125	<5	1.10	1	6	160	157	2.60	<10	0.44	619	10	0.03	5	520	20	<5	<20	129	0.06	<10	29	<10	3	209
31	81951	<0.2	0.96	<5	145	<5	1.40	<1	5	151	87	2.06	<10	0.41	606	32	0.03	6	520	6	<5	<20	190	0.04	<10	24	<10	3	210
32	81952	0.6	1.29	<5	75	<5	2.73	2	5	85	150	2.19	<10	0.35	900	26	0.01	3	510	16	<5	<20	455	<0.01	<10	16	<10	4	577
33	81953	0.2	1.03	<5	75	<5	2.04	1	5	111	124	2.27	<10	0.39	749	11	0.02	3	520	10	<5	<20	318	0.02	<10	19	<10	3	329
34	81954	1.0	1.08	<5	70	<5	1.85	2	5	124	369	2.56	<10	0.37	648	8	0.02	3	530	8	<5	<20	225	0.02	<10	17	<10	2	765
35	81955	0.6	0.88	<5	80	<5	2.25	<1	4	163	122	2.13	<10	0.27	810	22	0.02	3	520	14	<5	<20	202	0.02	<10	15	<10	3	288
36	81956	0.8	0.75	<5	70	<5	1.77	<1	4	121	78	1.90	<10	0.21	892	61	0.02	4	530	10	<5	<20	153	0.01	<10	12	<10	3	98
37	81957	1.0	0.83	<5	70	<5	1.71	<1	4	127	272	2.26	<10	0.20	1002	42	0.02	3	550	6	<5	<20	109	<0.01	<10	8	<10	4	306
38	81958	1.4	0.88	<5	75	<5	4.31	5	5	130	135	2.67	<10	0.29	1821	95	0.02	4	530	356	<5	<20	154	0.02	<10	11	<10	3	887
39	81959	1.2	0.81	<5	60	<5	1.03	<1	6	159	181	2.83	<10	0.17	681	24	0.02	4	520	16	<5	<20	61	<0.01	<10	8	<10	2	232
40	81960	0.2	1.05	<5	95	<5	1.33	<1	5	189	101	2.77	<10	0.29	806	41	0.03	4	550	6	<5	<20	84	0.02	<10	16	<10	3	143
41	81961	1.0	0.93	<5	80	<5	1.10	<1	5	123	264	2.92	<10	0.26	675	159	0.01	3	500	10	<5	<20	57	0.02	<10	13	<10	2	173
42	81962	0.2	0.78	<5	85	<5	1.31	<1	5	143	68	2.37	<10	0.32	937	28	0.03	4	520	6	<5	<20	65	0.02	<10	12	<10	3	74
43	81963	1.2	0.90	<5	90	<5	1.57	<1	5	165	104	2.77	<10	0.30	1132	28	0.02	5	500	8	<5	<20	91	0.02	<10	14	<10	3	106
44	81964	0.4	0.79	<5	85	<5	2.05	<1	5	138	137	2.38	<10	0.25	1568	130	0.02	4	440	6	<5	<20	128	0.01	<10	11	<10	4	65
45	81965	0.4	0.88	<5	180	<5	0.94	<1	5	140	55	2.27	<10	0.44	661	12	0.03	5	530	4	<5	<20	79	0.07	<10	28	<10	3	63
46	81966	0.2	0.80	<5	110	<5	1.39	<1	5	145	57	2.22	<10	0.35	760	55	0.03	4	530	4	<5	<20	110	0.03	<10	21	<10	4	115
47	81967	0.2	0.74	<5	75	<5	1.54	<1	5	124	29	2.29	<10	0.29	1080	134	0.02	4	540	6	<5	<20	113	0.01	<10	11	<10	3	137
48	81968	0.4	0.81	<5	110	<5	1.67	<1	5	122	39	2.12	<10	0.31	1229	23	0.02	4	540	6	<5	<20	130	0.03	<10	15	<10	4	186
49	81969	0.2	0.78	<5	70	<5	1.16	<1	6	139	88	2.50	<10	0.33	749	23	0.02	5	490	4	<5	<20	102	0.04	<10	20	<10	3	61
50	81970	0.4	0.80	<5	70	<5	1.55	<1	5	160	27	2.69	<10	0.31	829	24	0.02	4	540	4	<5	<20	138	0.03	<10	18	<10	3	62
51	81971	1.4	0.90	<5	55	<5	0.84	2	5	146	167	3.42	<10	0.21	550	23	<0.01	4	490	10	<5	<20	82	<0.01	<10	8	<10	1	540
52	81972	1.2	0.95	<5	65	<5	1.52	2	6	189	197	3.08	<10	0.21	950	29	0.02	5	510	12	<5	<20	130	<0.01	<10	10	<10	2	806
53	81973	0.6	0.73	<5	150	<5	1.58	<1	4	156	116	2.19	<10	0.30	643	19	0.02	4	550	8	<5	<20	120	0.02	<10	13	<10	3	195
54	81974	0.2	1.09	<5	65	<5	0.87	<1	6	190	205	3.51	<10	0.32	558	69	0.26	4	520	146	<5	<20	109	0.01	<10	15	<10	2	276
55	81975	0.4	0.98	<5	95	<5	1.08	<1	5	154	105	2.89	<10	0.33	638	92	0.02	4	520	8	<5	<20	97	0.02	<10	18	<10	3	251
56	81976	0.4	1.04	<5	100	<5	1.36	<1	5	170	119	2.84	<10	0.34	686	33	0.02	5	520	6	<5	<20	115	0.03	<10	20	<10	3	198
57	81977	0.6	0.96	<5	55	<5	2.77	1	7	172	362	4.36	<10	0.31	2343	12	0.02	5	480	14	<5	<20	165	0.01	<10	10	<10	4	336
58	81978	1.2	0.91	<5	80	<5	1.17	2	4	162	138	2.77	<10	0.28	949	19	0.02	3	420	16	<5	<20	82	0.01	<10	9	<10	2	766
59	81979	1.2	0.91	<5	95	<5	1.10	1	5	143	168	2.81	<10	0.32	817	55	0.02	5	450	14	<5	<20	87	0.03	<10	17	<10	3	436
60	81980	2.8	1.07	<5	105	<5	1.36	1	5	156	258	2.93	<10	0.42	988	110	0.02	5	540	18	<5	<20	152	0.04	<10	20	<10	4	291

m-96-2

ALMADEN RESOURCES | ICP CERTIFICATE OF ANALYSIS AK 96-817 | ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
61	81981	0.4	1.01	<5	80	<5	1.84	<1	5	118	112	2.88	<10	0.39	1126	254	0.02	4	520	10	<5	<20	203	0.03	<10	17	<10	3	127
62	81982	1.2	0.94	<5	55	<5	1.56	2	5	195	391	3.72	<10	0.23	1057	30	0.01	5	470	10	<5	<20	132	0.01	<10	10	<10	2	579
63	81983	1.6	1.04	<5	95	<5	1.73	1	5	145	283	2.46	<10	0.37	897	32	0.02	5	510	12	<5	<20	224	0.03	<10	19	<10	3	438
64	81984	2.0	0.84	<5	60	<5	0.61	3	5	194	733	2.95	<10	0.21	407	40	0.02	5	470	12	<5	<20	70	0.02	<10	14	<10	<1	1666
65	81985	1.2	0.90	<5	70	<5	1.18	2	5	145	393	3.09	<10	0.27	858	34	0.01	5	550	8	<5	<20	146	0.02	<10	13	<10	2	676
66	81986	1.2	0.92	<5	75	<5	1.51	1	6	167	600	3.14	<10	0.31	980	18	0.02	4	530	10	<5	<20	171	0.03	<10	18	<10	2	166
67	81987	2.4	0.94	<5	75	<5	5.34	3	5	138	1425	2.58	<10	0.33	3595	72	0.02	5	490	26	<5	<20	337	0.03	<10	16	<10	3	1238
68	81988	0.8	1.21	<5	90	<5	1.33	<1	5	173	228	3.26	<10	0.41	1138	32	0.02	5	540	6	<5	<20	240	0.02	<10	18	<10	2	214
69	81989	1.8	1.04	<5	60	<5	1.47	4	6	131	408	3.99	<10	0.34	1343	64	<0.01	4	510	158	<5	<20	185	0.01	<10	12	<10	1	1185
70	81990	3.8	0.98	<5	60	<5	0.68	4	5	153	459	3.81	<10	0.21	867	26	<0.01	4	570	130	<5	<20	61	<0.01	<10	7	<10	<1	1901
71	81991	0.4	1.00	<5	65	<5	1.63	2	5	148	144	3.02	<10	0.23	872	5	<0.01	4	590	8	<5	<20	181	0.02	<10	12	<10	3	572
72	81992	1.0	0.98	<5	65	<5	1.49	2	5	155	224	3.12	<10	0.32	987	382	0.02	4	660	10	<5	<20	171	0.03	<10	19	<10	3	378
73	81993	1.0	0.94	<5	90	<5	1.62	2	5	158	233	2.82	<10	0.31	976	32	0.02	4	630	6	<5	<20	197	0.03	<10	20	<10	3	694
74	81994	0.6	1.01	<5	105	<5	0.87	2	6	157	158	2.91	<10	0.44	546	127	0.03	5	580	8	<5	<20	149	0.07	<10	30	<10	3	710
75	81995	1.4	0.94	<5	70	<5	1.19	1	6	171	174	3.36	<10	0.37	550	12	0.02	4	610	10	<5	<20	153	0.04	<10	26	<10	3	185
76	81996	0.8	0.88	<5	45	10	0.86	<1	7	182	219	4.19	<10	0.38	493	37	0.03	6	540	18	<5	<20	124	0.06	<10	27	<10	2	105
77	81997	0.4	0.90	<5	215	<5	1.32	<1	6	159	29	2.50	<10	0.48	610	127	0.04	6	650	6	<5	<20	121	0.08	<10	31	<10	4	96
78	81998	1.4	0.90	<5	65	<5	1.39	<1	5	167	414	3.43	<10	0.25	624	52	0.02	5	610	6	<5	<20	133	0.03	<10	19	<10	3	202
79	81999	6.4	0.98	<5	45	<5	0.72	3	7	202	924	5.14	<10	0.13	362	269	<0.01	5	570	52	<5	<20	71	0.01	<10	11	<10	<1	1485
80	82000	1.0	0.90	<5	45	<5	0.47	3	6	112	289	4.33	<10	0.21	307	46	<0.01	4	660	10	<5	<20	50	0.02	<10	16	<10	<1	1036
81	82001	0.6	0.84	<5	120	<5	0.92	3	6	161	125	2.60	<10	0.39	483	25	0.04	4	600	4	<5	<20	65	0.10	<10	30	<10	3	1370
82	82002	0.4	0.96	<5	100	10	0.93	2	6	130	127	3.18	<10	0.40	508	5	0.03	3	690	8	<5	<20	85	0.07	<10	29	<10	2	899
83	82003	0.6	1.04	<5	60	<5	1.04	1	7	188	159	3.93	<10	0.42	512	12	0.03	5	660	32	<5	<20	180	0.07	<10	30	<10	2	268
84	82004	0.8	0.95	<5	80	<5	0.82	1	7	120	139	3.53	<10	0.45	519	6	0.03	5	720	16	<5	<20	99	0.09	<10	32	<10	2	225
85	82005	0.4	0.88	<5	130	<5	0.65	<1	7	172	66	2.94	<10	0.47	547	10	0.05	4	690	4	<5	<20	62	0.12	<10	36	<10	3	193
86	82006	0.6	0.80	<5	145	<5	0.67	<1	7	125	98	2.59	<10	0.47	529	14	0.04	5	670	6	<5	<20	214	0.11	<10	34	<10	3	69
87	82007	0.8	0.82	<5	150	<5	0.58	<1	7	149	52	2.50	<10	0.46	546	11	0.05	4	650	4	<5	<20	270	0.12	<10	35	<10	3	91
88	64005	0.8	0.92	<5	115	<5	1.26	1	5	142	118	2.83	<10	0.32	751	310	0.02	5	540	8	<5	<20	39	0.03	<10	20	<10	2	359
89	NO # 81995A	1.4	1.08	<5	50	<5	0.73	<1	7	182	283	4.56	<10	0.30	446	18	0.02	5	650	6	<5	<20	80	0.03	<10	22	<10	<1	213

ALMADEN RESOURCES

ICP CERTIFICATE OF ANALYSIS AK 96-817

ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Tl %	U	V	W	Y	Zn
QC DATA:																													
Resplit:																													
R/S 1	81921	2.6	0.64	<5	85	<5	1.92	<1	3	153	14	1.03	40	0.14	741	9	0.02	2	790	44	<5	<20	88	<0.01	<10	8	<10	5	120
R/S 36	81956	0.6	0.77	<5	70	<5	1.77	<1	4	143	93	2.02	<10	0.21	894	63	0.02	4	570	10	<5	<20	147	0.01	<10	12	<10	3	107
R/S 71	81991	0.4	0.98	<5	70	<5	1.66	2	6	156	135	3.32	<10	0.22	893	11	<0.01	5	600	10	<5	<20	178	0.02	<10	12	<10	3	616
Repeat:																													
1	81921	2.4	0.61	<5	80	<5	1.87	<1	2	141	10	0.96	40	0.13	730	4	0.02	3	740	36	<5	<20	88	<0.01	<10	7	<10	5	96
10	81930	1.2	0.82	<5	120	<5	2.26	1	3	117	58	1.71	20	0.25	1166	9	0.02	3	1060	32	<5	<20	186	0.01	<10	13	<10	6	287
19	81939	0.2	0.94	<5	115	<5	1.19	<1	6	163	37	2.39	<10	0.42	723	15	0.04	6	600	6	<5	<20	80	0.04	<10	27	<10	3	111
36	81956	0.6	0.75	<5	65	<5	1.76	<1	4	121	82	1.89	<10	0.21	891	61	0.02	4	520	6	<5	<20	147	0.01	<10	12	<10	3	101
45	81965	0.4	0.86	<5	200	<5	0.93	<1	5	141	57	2.25	<10	0.44	649	11	0.03	4	520	6	<5	<20	79	0.07	<10	28	<10	3	68
54	81974	0.4	1.10	<5	55	<5	0.89	<1	6	185	210	3.58	<10	0.32	570	70	0.01	4	510	130	<5	<20	110	0.01	<10	15	<10	1	287
71	81991	0.6	1.02	<5	75	<5	1.65	1	5	150	149	3.04	<10	0.23	874	7	<0.01	5	610	8	<5	<20	181	0.02	<10	12	<10	3	580
80	82000	1.2	0.91	<5	55	<5	0.48	3	6	113	291	4.42	<10	0.21	310	47	<0.01	4	690	12	<5	<20	50	0.02	<10	16	<10	<1	1068
Standard:																													
GEO'96		1.4	1.87	65	175	<5	2.01	<1	21	70	89	4.02	<10	1.02	710	<1	0.02	22	760	20	<5	<20	64	0.13	<10	86	<10	5	79
GEO'96		1.4	1.83	70	170	<5	2.05	<1	21	71	89	4.01	<10	1.01	720	<1	0.02	20	790	20	<5	<20	59	0.14	<10	87	<10	5	84
GEO'96		1.2	1.82	70	175	<5	2.15	<1	22	74	85	4.06	<10	1.00	720	<1	0.02	22	820	24	<5	<20	60	0.14	<10	87	<10	5	74

df/817R
XLS/96KMISC#5

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

6-Sep-96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax : 604-573-4557

ICP CERTIFICATE OF ANALYSIS AK 96-967

ALMADEN RESOURCES CORPORATION
2020-1055 WEST HASTINGS STREET
VANCOUVER,B.C.
V6E 2E9

ATTENTION: DWAYNE POLIQUIN

No. of samples received: 115
Sample type: Core
PROJECT: # Munro
SHIPMENT: # None Given
Samples submitted by: H.Leo King

m-96-3

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	64028	1.6	0.92	<5	60	15	0.65	<1	5	97	405	3.16	<10	0.19	363	192	0.01	4	490	22	<5	<20	39	0.01	10	10	<10	<1	645
2	64029	2.0	1.21	<5	55	<5	0.61	<1	5	119	634	3.80	<10	0.24	438	180	<0.01	3	490	14	<5	<20	49	<0.01	<10	11	<10	<1	411
3	64030	3.2	1.03	<5	45	<5	0.97	<1	5	120	570	3.89	<10	0.18	652	50	<0.01	4	490	46	<5	<20	53	<0.01	<10	6	<10	<1	639
4	64031	28.4	1.05	<5	50	<5	0.73	<1	6	109	488	3.77	<10	0.22	629	499	0.01	3	470	24	<5	<20	60	<0.01	<10	7	<10	<1	206
5	64032	0.8	1.08	<5	50	<5	0.87	<1	5	115	123	3.63	<10	0.34	654	1058	0.01	2	440	10	<5	<20	146	0.02	<10	14	<10	<1	56
6	64033	0.8	1.12	<5	60	<5	1.01	<1	5	136	110	3.25	<10	0.28	604	328	0.02	4	500	12	<5	<20	112	0.01	<10	14	<10	<1	59
7	64034	>30	1.15	<5	45	<5	0.43	<1	4	124	431	3.84	<10	0.25	377	127	<0.01	4	520	30	<5	<20	90	<0.01	<10	12	<10	<1	185
8	64035	1.0	1.08	<5	60	<5	0.76	<1	5	103	283	3.30	<10	0.27	476	222	0.02	3	460	12	<5	<20	83	0.02	<10	16	<10	<1	142
9	64036	1.0	1.08	<5	65	<5	0.70	<1	5	120	325	2.95	<10	0.35	381	159	0.02	4	500	10	<5	<20	147	0.03	<10	19	<10	<1	85
10	64037	1.6	1.12	<5	65	<5	1.03	<1	5	113	447	2.62	<10	0.40	467	242	0.02	3	470	10	<5	<20	292	0.04	<10	22	<10	2	73
11	64038	2.4	1.13	<5	65	5	2.66	<1	6	93	367	2.95	<10	0.37	747	12	0.01	4	480	28	<5	<20	280	0.03	<10	20	<10	3	224
12	64039	2.8	1.18	<5	45	<5	0.58	<1	5	112	542	4.77	<10	0.23	318	124	<0.01	2	480	88	<5	<20	139	<0.01	20	9	<10	<1	362
13	64040	3.2	1.07	<5	45	<5	0.33	<1	4	123	977	4.03	<10	0.18	207	10	<0.01	5	520	32	<5	<20	64	<0.01	<10	9	<10	<1	277
14	64041	4.6	0.93	<5	55	<5	0.98	<1	4	140	1234	3.07	<10	0.21	359	226	0.01	3	470	20	<5	<20	112	0.01	<10	11	<10	<1	271
15	64042	1.0	1.11	<5	55	<5	0.79	<1	5	119	264	3.54	<10	0.26	416	53	0.02	4	520	16	<5	<20	75	0.02	<10	15	<10	<1	115
16	64043	1.2	1.24	<5	70	<5	0.96	<1	4	111	407	3.07	<10	0.34	463	19	0.02	4	560	22	<5	<20	143	0.02	<10	20	<10	<1	164
17	64044	1.0	1.06	<5	60	<5	1.28	<1	5	120	453	3.11	<10	0.27	783	90	0.02	4	510	12	<5	<20	104	0.02	<10	14	<10	1	84
18	64045	2.8	1.39	<5	55	<5	1.64	<1	5	116	1396	4.48	<10	0.37	604	28	0.01	3	490	26	<5	<20	149	0.01	<10	14	<10	<1	92
19	64046	1.6	1.20	10	50	<5	0.54	<1	5	129	347	3.85	<10	0.21	353	14	<0.01	5	510	24	<5	<20	68	<0.01	<10	11	<10	<1	162
20	64047	1.8	1.12	<5	70	<5	1.04	<1	6	94	675	3.59	<10	0.34	688	100	0.02	4	550	14	<5	<20	111	0.03	<10	18	<10	<1	99
21	64048	0.6	1.10	<5	50	10	1.02	<1	5	103	83	3.80	<10	0.23	627	26	0.01	4	510	12	<5	<20	59	<0.01	<10	9	<10	<1	127
22	64049	7.8	0.82	<5	45	<5	0.87	29	6	130	666	4.11	<10	0.11	465	333	<0.01	4	370	142	<5	<20	42	<0.01	20	5	<10	<1	>10000
23	64050	4.4	0.91	<5	45	<5	0.16	5	6	120	598	4.38	<10	0.11	222	82	<0.01	5	460	88	<5	<20	37	<0.01	<10	6	<10	<1	2930
24	64051	1.8	0.99	<5	50	<5	0.16	<1	4	113	396	3.29	<10	0.11	201	51	<0.01	3	540	74	<5	<20	32	<0.01	10	7	<10	<1	178
25	64052	1.0	0.86	<5	65	<5	0.64	<1	5	164	133	2.67	<10	0.26	348	114	0.02	4	430	12	<5	<20	114	0.02	<10	16	<10	<1	55

m-96-33

ALMADEN RESOURCES CORPORATION

ICP CERTIFICATE OF ANALYSIS AK 96-967

ECO-TECH LABORATORIES LTD.

m-96-3

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
26	64053	0.6	1.37	<5	80	<5	0.86	<1	4	96	75	3.71	<10	0.38	598	103	0.02	4	500	10	<5	<20	156	0.03	<10	20	<10	<1	321
27	64054	2.0	1.04	<5	50	<5	0.16	<1	6	119	383	4.33	<10	0.14	247	71	<0.01	4	490	16	<5	<20	26	<0.01	20	8	<10	<1	185
28	64055	3.6	1.03	<5	50	<5	0.17	<1	5	129	1152	4.20	<10	0.14	237	62	<0.01	4	460	26	<5	<20	33	<0.01	20	7	<10	<1	192
29	64056	2.4	0.95	<5	50	<5	0.19	<1	4	130	593	3.45	<10	0.11	205	37	<0.01	3	510	62	<5	<20	24	<0.01	<10	6	<10	<1	386
30	64057	2.4	1.02	<5	45	<5	0.40	<1	4	101	801	3.71	<10	0.13	258	8	<0.01	4	530	14	<5	<20	30	<0.01	<10	8	<10	<1	224
31	64058	1.8	1.08	<5	55	<5	0.16	<1	4	115	488	3.75	<10	0.13	178	10	<0.01	3	510	10	<5	<20	15	<0.01	10	7	<10	<1	299
32	64059	1.8	1.23	<5	65	<5	0.50	<1	4	112	502	3.66	<10	0.24	367	52	0.01	4	460	8	<5	<20	42	0.01	10	13	<10	<1	204
33	64060	3.0	0.79	5	45	<5	0.18	<1	6	149	1126	4.76	<10	0.08	161	145	<0.01	4	370	10	<5	<20	18	<0.01	20	6	<10	<1	232
34	64061	1.2	1.08	<5	60	<5	0.68	<1	5	92	303	3.90	<10	0.23	460	69	0.01	3	460	8	<5	<20	43	0.02	10	14	<10	<1	80
35	64062	8.0	1.08	<5	50	<5	0.15	<1	6	119	3171	5.25	<10	0.14	168	27	<0.01	4	510	12	<5	60	25	<0.01	30	10	<10	<1	199
36	64063	2.4	1.08	<5	50	<5	0.54	<1	8	93	993	7.03	<10	0.14	303	281	<0.01	3	540	10	<5	60	27	<0.01	20	8	<10	<1	47
37	64064	2.0	0.95	<5	45	<5	0.63	<1	7	96	906	4.89	<10	0.15	291	91	0.01	3	450	8	<5	40	30	<0.01	<10	10	<10	<1	65
38	64065	1.0	1.04	<5	55	<5	0.93	<1	6	136	408	3.61	<10	0.26	464	1386	0.02	3	460	10	<5	<20	70	0.02	<10	15	<10	<1	51
39	64066	1.0	1.05	<5	55	<5	0.78	<1	5	71	356	3.87	<10	0.20	333	99	0.01	3	500	8	<5	20	85	0.01	10	11	<10	<1	61
40	64067	0.8	1.03	<5	50	<5	0.71	<1	5	105	210	3.60	<10	0.17	336	230	0.01	3	420	8	<5	<20	51	<0.01	<10	9	<10	<1	69
41	64068	0.8	1.00	60	40	<5	0.16	<1	6	75	383	4.68	<10	0.13	212	1146	<0.01	3	430	54	<5	<20	27	<0.01	<10	5	<10	<1	164
42	64069	1.0	0.87	<5	45	<5	1.46	1	6	82	253	3.99	<10	0.11	900	1004	<0.01	3	410	220	<5	<20	46	<0.01	<10	5	<10	<1	634
43	64070	1.0	0.87	<5	45	<5	0.23	<1	5	103	310	3.72	<10	0.10	216	452	<0.01	3	370	52	<5	<20	18	<0.01	20	6	<10	<1	182
44	64071	1.6	1.09	<5	55	35	0.73	<1	5	103	389	3.65	<10	0.19	422	106	0.01	4	480	46	<5	<20	31	<0.01	<10	11	<10	<1	173
45	64072	1.2	1.18	<5	55	<5	0.47	<1	5	68	431	4.19	<10	0.21	398	10	0.01	3	520	14	<5	40	31	0.01	10	12	<10	<1	134
46	64073	1.6	0.91	<5	40	<5	0.30	<1	6	119	547	4.77	<10	0.12	247	155	<0.01	3	390	16	<5	20	24	<0.01	20	7	<10	<1	169
47	64074	6.6	0.91	35	40	<5	0.16	<1	6	95	788	4.91	<10	0.08	172	401	<0.01	4	510	208	<5	<20	21	<0.01	20	5	<10	<1	493
48	64075	2.8	1.15	<5	50	<5	0.23	<1	5	127	903	4.30	<10	0.16	239	50	<0.01	4	530	14	<5	<20	33	<0.01	<10	9	<10	<1	168
49	64076	1.2	1.20	<5	60	10	0.46	<1	6	97	332	4.20	<10	0.24	382	135	0.01	3	530	18	<5	20	43	0.02	10	14	<10	<1	104
50	64077	0.8	1.24	<5	65	<5	0.56	<1	5	118	309	3.58	<10	0.28	373	11	0.01	3	550	18	<5	<20	70	0.02	<10	16	<10	<1	159
51	64078	1.8	1.12	<5	60	<5	0.52	<1	5	98	716	3.50	<10	0.18	310	283	0.01	4	480	16	<5	<20	30	<0.01	20	13	<10	<1	283
52	64079	0.8	1.13	<5	60	<5	0.59	<1	5	117	398	3.60	<10	0.19	349	81	0.01	4	520	14	<5	<20	35	0.01	<10	12	<10	<1	113
53	64080	2.0	0.86	<5	45	<5	0.91	<1	6	117	460	3.83	<10	0.12	420	34	<0.01	4	370	18	<5	<20	31	<0.01	10	7	<10	<1	343
54	64081	1.0	1.17	<5	55	<5	0.58	<1	4	139	342	3.66	<10	0.17	287	72	<0.01	4	470	10	<5	<20	43	<0.01	<10	12	<10	<1	143
55	64082	1.0	1.25	<5	55	<5	0.34	<1	5	95	254	4.21	<10	0.18	259	237	<0.01	4	530	10	<5	<20	38	<0.01	20	11	<10	<1	189
56	64083	1.0	0.89	<5	45	50	0.16	<1	7	110	222	5.53	<10	0.09	136	459	<0.01	3	440	16	<5	<20	14	<0.01	30	6	<10	<1	50
57	64084	1.2	0.92	<5	45	<5	0.31	<1	5	76	218	4.58	<10	0.10	266	56	<0.01	3	460	16	<5	60	48	<0.01	20	5	<10	<1	112
58	64085	0.8	0.77	<5	40	<5	0.34	<1	4	150	226	3.28	<10	0.11	266	45	<0.01	4	350	8	<5	<20	25	<0.01	20	8	<10	<1	459
59	64086	1.4	1.05	<5	55	50	0.39	<1	5	90	258	3.79	<10	0.18	330	226	0.01	3	470	10	<5	<20	26	<0.01	10	11	<10	<1	452
60	64087	1.8	0.97	<5	50	<5	0.33	2	5	125	408	3.53	<10	0.12	330	37	<0.01	3	480	28	<5	<20	38	<0.01	10	7	<10	<1	1001

ALMADEN RESOURCES CORPORATION ICP CERTIFICATE OF ANALYSIS AK 96-967 **ECO-TECH LABORATORIES LTD.**

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
61	64088	1.8	1.16	<5	65	10	1.21	<1	5	102	370	3.68	<10	0.25	716	38	0.01	4	500	12	<5	20	50	0.02	<10	16	<10	<1	715
62	64089	2.0	0.69	<5	40	15	0.38	1	6	111	373	3.64	<10	0.07	218	90	<0.01	4	450	12	<5	<20	25	<0.01	10	5	<10	<1	883
63	64090	0.8	0.93	<5	60	<5	0.69	<1	5	109	129	3.12	<10	0.19	401	93	0.01	3	490	12	<5	<20	61	0.01	<10	11	<10	1	135
64	64091	2.4	1.04	<5	50	<5	1.51	5	5	108	289	3.52	<10	0.24	740	54	<0.01	3	450	292	<5	<20	86	<0.01	<10	10	<10	<1	2040
65	64092	0.4	3.33	<5	1285	<5	2.30	<1	<1	23	25	1.86	20	0.55	712	2	0.08	3	520	22	<5	<20	8437	0.03	<10	35	<10	3	35
66	64093	0.8	2.57	<5	<5	<5	2.74	<1	5	64	88	2.74	<10	0.40	1083	116	0.04	4	480	22	<5	<20	4221	0.02	<10	24	<10	2	111
67	64094	3.6	0.81	<5	50	<5	0.71	<1	7	112	402	4.27	<10	0.10	402	284	<0.01	3	410	68	<5	<20	192	<0.01	<10	6	<10	<1	509
68	64095	2.4	0.64	<5	40	<5	0.14	<1	5	117	276	4.51	<10	0.05	102	362	<0.01	4	400	34	<5	<20	16	<0.01	10	4	<10	<1	392
69	64096	2.6	0.43	<5	30	<5	0.12	6	7	178	230	3.65	<10	0.05	179	10000	<0.01	<1	110	62	<5	<20	15	<0.01	<10	<1	<10	<1	2230
70	64097	6.6	0.58	<5	30	<5	0.17	7	5	183	465	3.64	<10	0.08	387	2980	<0.01	3	230	60	<5	<20	15	<0.01	20	2	<10	<1	3613
71	64098	7.2	0.73	<5	40	<5	1.49	5	6	93	372	3.65	<10	0.23	2400	362	<0.01	3	390	38	<5	<20	61	<0.01	<10	5	<10	<1	2839
72	64099	14.8	0.93	<5	40	<5	0.51	10	6	111	895	3.87	<10	0.19	1949	177	<0.01	4	450	44	<5	<20	52	<0.01	<10	5	<10	<1	5562
73	64100	5.0	0.83	<5	75	<5	1.23	<1	4	124	234	2.18	<10	0.22	1005	56	0.02	3	520	14	<5	<20	78	0.01	<10	8	<10	1	293
74	64101	2.6	0.92	<5	60	<5	0.87	<1	5	92	291	2.67	<10	0.17	594	72	0.01	3	490	34	<5	<20	49	<0.01	<10	6	<10	<1	577
75	64102	>30	0.80	<5	40	<5	2.17	11	5	121	1197	3.30	<10	0.29	4916	38	<0.01	3	470	74	<5	<20	81	0.01	<10	6	<10	<1	5704
76	64103	9.0	0.90	<5	55	<5	0.67	<1	5	103	218	3.82	<10	0.20	906	49	0.02	4	500	20	<5	<20	47	0.01	<10	9	<10	<1	721
77	64104	1.4	0.91	<5	75	<5	0.93	<1	4	132	285	2.53	<10	0.24	549	12	0.02	3	480	16	<5	<20	73	0.02	<10	11	<10	1	351
78	64105	1.4	0.80	<5	45	<5	0.24	1	4	115	427	3.09	<10	0.11	317	34	0.01	4	410	178	<5	<20	36	<0.01	20	5	<10	<1	588
79	64106	2.0	0.90	<5	65	<5	0.56	1	4	132	351	2.87	<10	0.18	488	121	0.02	3	460	146	<5	<20	42	0.01	<10	9	<10	<1	660
80	64107	1.8	1.18	<5	80	<5	0.43	1	8	112	256	3.96	<10	0.44	607	35	0.02	5	700	184	<5	20	46	0.07	<10	27	<10	<1	794
81	64108	1.4	1.18	<5	80	<5	0.43	2	7	111	256	3.95	<10	0.44	606	34	0.02	5	700	186	<5	<20	45	0.07	<10	27	<10	<1	791
82	64109	6.2	0.89	<5	65	<5	1.10	2	5	109	246	2.89	<10	0.29	1460	110	0.02	4	490	90	<5	<20	72	0.02	<10	11	<10	2	1071
83	64110	28.4	0.81	<5	50	<5	1.17	<1	4	149	598	2.64	<10	0.19	1256	135	0.01	4	500	92	<5	<20	65	0.01	<10	8	<10	2	371
84	64111	4.8	0.97	<5	65	<5	0.57	<1	4	102	453	2.91	<10	0.25	558	248	0.02	4	500	68	<5	<20	71	0.02	<10	13	<10	<1	442
85	64112	4.8	0.99	<5	60	<5	0.75	<1	5	137	448	2.96	<10	0.26	801	75	0.01	5	490	78	<5	<20	78	0.02	<10	13	<10	<1	611
86	64113	6.4	1.11	<5	60	<5	0.74	4	5	91	570	3.22	<10	0.29	1069	30	0.01	4	490	108	<5	<20	105	0.02	<10	13	<10	<1	2396
87	64114	>30	1.06	<5	40	<5	1.35	16	7	118	1878	4.70	<10	0.25	3425	246	<0.01	4	440	166	<5	<20	79	<0.01	<10	8	<10	<1	7794
88	64115	>30	0.72	<5	30	<5	1.78	11	6	109	448	3.89	<10	0.23	8543	680	<0.01	5	350	88	<5	<20	80	0.02	<10	5	<10	<1	5679
89	64116	6.6	1.03	<5	50	<5	0.93	3	4	118	566	2.98	<10	0.28	869	116	0.01	4	490	170	<5	<20	146	0.01	<10	13	<10	<1	1439
90	64117	1.6	1.16	<5	65	<5	0.74	<1	5	106	483	2.84	<10	0.35	554	13	0.02	4	490	14	<5	<20	180	0.03	<10	20	<10	<1	509
91	64118	2.8	0.98	<5	50	<5	0.64	2	5	107	405	3.95	<10	0.23	455	85	0.01	3	510	76	<5	<20	82	0.01	<10	13	<10	<1	1247
92	64119	3.8	1.12	<5	50	<5	0.33	3	5	118	689	4.37	<10	0.24	438	62	<0.01	5	500	242	<5	20	63	<0.01	<10	11	<10	<1	1446
93	64120	3.8	1.13	<5	45	<5	0.25	6	5	115	320	3.72	<10	0.20	426	85	<0.01	4	440	594	<5	<20	70	<0.01	20	9	<10	<1	2903
94	64121	0.8	1.16	<5	70	<5	0.78	1	4	108	126	2.86	<10	0.35	631	130	0.01	4	500	152	<5	<20	164	0.03	<10	19	<10	<1	820
95	64122	0.8	0.94	<5	65	<5	0.94	<1	4	108	162	2.66	<10	0.30	573	368	0.02	4	480	86	<5	<20	137	0.03	<10	17	<10	<1	296

M-96-3

ALMADEN RESOURCES CORPORATION

ICP CERTIFICATE OF ANALYSIS AK 96-967

m-96-3

ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Tl %	U	V	W	Y	Zn
96	64123	4.6	1.00	5	60	<5	0.70	3	5	139	678	3.08	<10	0.23	455	18	0.01	5	480	288	<5	<20	111	0.01	<10	14	<10	<1	1380
97	64124	1.0	1.01	<5	55	<5	0.77	<1	5	122	240	3.07	<10	0.31	452	86	0.02	4	490	14	<5	<20	111	0.02	<10	18	<10	<1	390
98	64125	1.4	0.92	<5	55	<5	0.60	1	6	142	342	3.22	<10	0.29	383	51	0.02	5	500	16	<5	<20	91	0.03	<10	19	<10	<1	1035
99	64126	2.2	1.14	<5	75	<5	0.74	<1	6	142	803	3.16	<10	0.38	439	20	0.02	4	520	48	<5	<20	182	0.03	<10	22	<10	<1	364
100	64127	1.0	0.98	<5	80	<5	0.70	<1	6	115	277	2.95	<10	0.37	431	39	0.02	5	520	14	<5	<20	116	0.04	<10	22	<10	<1	312
101	64128	1.0	1.14	<5	85	<5	0.77	1	4	114	220	2.63	<10	0.38	495	37	0.02	4	540	16	<5	<20	136	0.03	<10	21	<10	<1	974
102	64129	15.2	0.97	<5	40	<5	0.57	2	5	118	1120	4.29	<10	0.16	456	143	<0.01	5	470	312	<5	<20	48	<0.01	40	9	<10	<1	880
103	64130	1.0	1.15	<5	75	<5	0.73	<1	6	103	175	3.63	<10	0.35	446	47	0.02	4	520	16	<5	<20	67	0.03	<10	19	<10	<1	411
104	64260	0.6	0.85	<5	140	<5	0.64	<1	6	128	38	2.13	<10	0.48	432	20	0.04	5	570	6	<5	<20	47	0.09	10	31	<10	2	203
105	64261	1.0	0.85	<5	80	<5	0.67	<1	5	116	318	3.14	<10	0.31	350	67	0.03	3	490	10	<5	<20	36	0.03	10	18	<10	1	441
106	64262	<0.2	0.86	<5	150	<5	0.59	<1	6	147	37	2.07	<10	0.49	458	41	0.05	5	550	8	<5	<20	57	0.09	<10	32	<10	3	157
107	64263	0.8	0.80	<5	95	<5	0.79	<1	5	128	123	2.24	<10	0.37	473	9	0.03	4	540	14	<5	<20	67	0.04	<10	23	<10	2	104
108	64264	1.6	0.81	<5	145	<5	0.87	<1	5	119	257	2.34	<10	0.33	512	215	0.03	5	500	20	<5	<20	68	0.03	<10	17	50	1	150
109	64265	0.4	0.83	<5	95	<5	0.61	<1	6	145	60	2.53	<10	0.44	411	35	0.04	5	500	8	<5	<20	63	0.07	<10	28	<10	1	91
110	64266	0.6	0.84	<5	100	<5	0.68	<1	5	96	159	2.33	<10	0.44	407	40	0.03	5	520	10	<5	<20	42	0.06	<10	26	<10	2	354
111	64267	<0.2	0.82	<5	120	<5	0.67	<1	6	128	80	2.19	<10	0.47	437	31	0.04	5	540	8	<5	<20	42	0.08	<10	29	<10	2	82
112	64268	0.4	0.72	<5	95	<5	0.90	<1	5	107	88	2.04	<10	0.33	415	15	0.04	3	520	8	<5	<20	47	0.04	<10	22	<10	2	66
113	64269	0.4	0.75	<5	110	<5	0.67	<1	6	129	105	2.16	<10	0.40	398	100	0.04	4	520	8	<5	<20	42	0.07	<10	27	<10	2	49
114	64270	0.2	0.74	<5	70	<5	0.80	<1	5	109	64	2.49	<10	0.33	313	73	0.03	4	520	10	<5	<20	41	0.03	<10	21	<10	2	85
115	64271	<0.2	0.79	<5	135	<5	0.68	<1	6	133	26	2.09	<10	0.45	405	52	0.04	5	520	8	<5	<20	49	0.08	<10	28	<10	3	51

m-96-4

ALMADEN RESOURCES CORPORATION

ICP CERTIFICATE OF ANALYSIS AK 96-967

ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
QC DATA:																													
Resplit:																													
R/S 1	64028	1.6	1.04	<5	60	15	0.70	1	5	102	410	3.41	<10	0.20	391	180	0.01	4	520	22	<5	<20	38	0.01	<10	11	<10	<1	662
R/S 36	64063	2.0	1.18	<5	55	<5	0.53	<1	7	98	946	6.49	<10	0.14	298	290	<0.01	4	530	10	<5	40	25	<0.01	20	9	<10	<1	49
R/S 71	64098	7.6	0.80	<5	35	<5	1.46	5	6	112	344	3.74	<10	0.23	2291	370	0.01	4	410	40	<5	<20	56	0.01	<10	5	<10	<1	2865
R/S 106	64262	0.2	0.90	<5	155	<5	0.61	<1	6	134	40	2.15	<10	0.51	479	46	0.05	4	550	8	<5	<20	58	0.09	<10	33	<10	2	130
Repeat:																													
1	64028	1.4	0.98	<5	55	15	0.67	1	5	100	415	3.30	<10	0.20	379	201	0.01	3	520	20	<5	<20	37	0.01	<10	11	<10	<1	657
10	64037	1.4	1.10	<5	65	<5	1.01	<1	5	111	446	2.58	<10	0.39	452	239	0.02	4	470	10	<5	<20	288	0.04	<10	21	<10	2	71
19	64046	1.4	1.16	10	50	<5	0.53	<1	5	122	344	3.81	<10	0.20	347	15	<0.01	4	520	24	<5	<20	66	<0.01	<10	11	<10	<1	160
36	64063	2.8	1.07	<5	45	<5	0.54	<1	8	95	995	7.14	<10	0.14	306	300	<0.01	3	560	10	<5	60	25	<0.01	30	8	<10	<1	47
45	64072	1.0	1.17	<5	55	<5	0.47	<1	5	68	433	4.19	<10	0.21	403	10	0.01	4	530	14	<5	40	30	0.01	<10	12	<10	<1	133
54	64081	1.2	1.14	<5	55	<5	0.58	<1	4	136	340	3.62	<10	0.17	284	69	<0.01	3	460	10	<5	<20	43	<0.01	<10	12	<10	<1	142
71	64098	7.2	0.75	<5	40	<5	1.49	5	6	94	382	3.66	<10	0.24	2399	355	<0.01	4	390	36	<5	<20	62	<0.01	<10	5	<10	<1	2743
80	64107	1.8	1.15	<5	85	<5	0.41	2	8	108	249	3.83	<10	0.43	588	34	0.02	4	670	180	<5	<20	46	0.07	<10	26	<10	<1	762
89	64116	7.0	1.11	<5	55	<5	1.00	3	5	127	605	3.17	<10	0.29	928	120	0.01	4	520	180	<5	<20	156	0.02	<10	14	<10	<1	1531
106	64262	0.2	0.90	<5	150	<5	0.62	<1	6	149	40	2.14	<10	0.51	475	42	0.05	5	570	8	<5	<20	58	0.09	<10	34	<10	2	162
115	64271	<0.2	0.82	<5	140	<5	0.69	<1	6	136	25	2.16	<10	0.47	420	50	0.04	5	540	6	<5	<20	51	0.08	<10	30	<10	2	51
Standard:																													
GEO'96		1.0	1.81	60	160	<5	1.81	<1	19	64	71	4.02	<10	0.98	697	<1	0.02	22	710	20	<5	40	56	0.13	<10	80	<10	3	72
GEO'96		1.2	1.79	70	165	<5	1.80	<1	19	63	78	4.02	<10	0.98	694	5	0.02	21	720	22	<5	40	55	0.13	<10	79	<10	2	74
GEO'96		1.4	1.92	65	145	<5	1.94	<1	20	67	73	4.30	<10	1.06	741	<1	0.02	23	750	20	<5	20	57	0.14	<10	85	<10	3	70
GEO'96		1.2	1.77	70	165	<5	1.95	<1	19	61	80	3.93	<10	0.98	682	<1	0.02	22	720	18	<5	20	53	0.12	<10	78	<10	2	72

AM-96-3
& AM-96-4

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

dt/967
XLS/96KMISC

13-Sep-96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax : 604-573-4557

ICP CERTIFICATE OF ANALYSIS AK 96-1022

ALMADEN RESOURCES
2020-1055 WEST HASTINGS STREET
VANCOUVER,B.C.
V6E 2E9

ATTENTION: DWAYNE POLIQUIN

No. of samples received: 97
Sample type: CORE
PROJECT: # MUNRO
SHIPMENT: # NONE GIVEN
Samples submitted by: H.LEO KING

m-96-3

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	64131	1.8	0.79	<5	25	<5	0.27	<1	6	102	672	4.28	<10	0.19	270	13	<0.01	3	450	22	<5	<20	36	0.01	<10	12	<10	<1	285
2	64132	4.6	0.97	<5	30	<5	0.55	1	5	105	410	3.79	<10	0.26	662	37	0.01	3	440	108	<5	<20	81	0.01	<10	14	<10	<1	979
3	64133	3.8	0.95	<5	35	<5	1.01	3	6	119	501	3.72	<10	0.26	1261	31	0.01	4	500	58	<5	<20	94	0.01	<10	12	<10	<1	1821
4	64134	4.6	0.86	<5	30	<5	0.44	2	5	116	616	4.04	<10	0.20	627	21	0.01	2	470	194	<5	<20	52	0.01	<10	13	<10	<1	995
5	64135	11.0	0.79	<5	25	<5	0.60	4	6	98	668	3.69	<10	0.21	726	29	0.01	3	490	194	<5	<20	52	0.01	<10	13	<10	<1	2335
6	64136	2.0	0.86	<5	35	<5	0.71	<1	5	93	283	2.92	<10	0.30	665	17	0.01	3	460	12	<5	<20	77	0.02	<10	16	<10	<1	427
7	64137	2.0	0.74	<5	35	<5	1.44	<1	5	93	402	2.88	<10	0.20	1082	15	0.01	3	460	120	<5	<20	122	<0.01	<10	10	<10	2	582
8	64138	3.4	0.87	<5	35	<5	1.30	2	6	138	501	3.61	<10	0.22	1020	46	0.01	4	540	266	<5	<20	81	<0.01	<10	13	<10	<1	1320
9	64139	2.8	0.91	<5	40	<5	1.03	<1	6	121	363	3.75	<10	0.25	869	36	<0.01	6	540	108	<5	<20	69	<0.01	<10	13	<10	<1	719
10	64140	1.4	0.69	<5	45	<5	3.72	3	4	112	104	2.20	<10	0.22	3103	6	<0.01	3	650	224	<5	<20	139	<0.01	<10	9	<10	3	962
11	64141	2.0	0.60	<5	25	<5	7.05	11	4	134	78	2.50	<10	0.28	10000	45	<0.01	3	530	816	<5	<20	138	0.02	<10	5	<10	2	1739
12	64142	18.0	0.77	<5	35	<5	5.82	28	7	73	314	7.70	<10	0.56	10000	21	<0.01	3	210	306	<5	<20	102	0.08	<10	7	<10	<1	>10000
13	64143	23.2	0.63	<5	25	5	2.35	20	6	106	205	4.15	<10	0.25	5642	96	<0.01	1	400	28	<5	<20	55	0.01	<10	4	<10	<1	>10000
14	64144	12.2	0.81	<5	30	20	2.03	5	7	126	201	4.98	<10	0.29	5908	911	<0.01	4	480	42	<5	<20	42	0.01	<10	4	<10	<1	3182
15	64145	7.2	0.63	<5	25	<5	1.02	2	5	95	393	3.78	<10	0.18	2535	36	<0.01	3	460	16	<5	<20	28	<0.01	<10	3	<10	<1	2158
16	64146	19.6	0.69	<5	25	<5	2.15	7	7	117	785	5.09	<10	0.21	2553	61	<0.01	4	430	40	<5	<20	60	<0.01	<10	4	<10	<1	4046
17	64147	11.6	0.89	<5	30	<5	2.57	13	5	86	304	3.90	<10	0.36	3377	22	<0.01	2	380	40	<5	<20	106	0.01	<10	8	<10	<1	5642
18	64148	1.2	1.09	<5	45	<5	0.76	<1	4	54	243	2.34	<10	0.43	646	13	0.01	1	390	22	<5	<20	159	0.02	<10	17	<10	<1	168
19	64149	2.0	0.74	<5	25	<5	0.89	<1	4	88	633	3.01	<10	0.22	595	35	<0.01	3	450	28	<5	<20	84	<0.01	<10	8	<10	<1	518
20	64150	2.6	0.59	<5	25	<5	0.74	<1	4	116	789	3.68	<10	0.10	385	142	<0.01	3	370	20	<5	<20	22	<0.01	<10	3	<10	<1	534
21	64301	<0.2	0.74	<5	145	<5	0.71	<1	6	115	15	1.79	<10	0.45	513	2	0.03	4	510	<2	<5	<20	17	0.09	<10	28	<10	3	374
22	64302	<0.2	0.63	<5	100	<5	1.08	<1	4	97	61	1.55	<10	0.37	586	3	0.02	3	450	<2	<5	<20	21	0.05	<10	22	<10	2	148
23	64303	<0.2	0.72	<5	120	<5	0.86	<1	5	104	33	1.71	<10	0.44	570	14	0.03	3	510	<2	<5	<20	22	0.06	<10	27	<10	3	391
24	64304	<0.2	0.77	<5	110	<5	1.26	<1	5	125	15	1.79	<10	0.45	706	4	0.03	4	540	<2	<5	<20	31	0.05	<10	27	<10	4	248
25	64305	<0.2	0.78	<5	110	<5	1.21	<1	5	122	24	1.81	<10	0.44	734	16	0.03	3	490	<2	<5	<20	33	0.04	<10	24	<10	3	416

m 96-3

m 96-5

ALMADEN RESOURCES — ICP CERTIFICATE OF ANALYSIS AK 96-1022 — m-96-5 & m-96-3 — **ECO-TECH LABORATORIES LTD.**

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
61	64341	1.0	0.55	<5	35	<5	2.91	<1	4	102	34	1.84	<10	0.27	1853	18	0.01	2	640	8	<5	<20	134	<0.01	<10	5	<10	3	493
62	64342	0.8	0.40	<5	35	<5	2.39	<1	5	102	49	1.76	<10	0.27	1277	21	0.01	2	570	8	<5	<20	59	<0.01	<10	4	<10	3	449
63	64343	0.4	0.47	<5	150	<5	1.63	<1	3	105	64	1.44	<10	0.29	755	29	0.02	2	510	4	<5	<20	53	<0.01	<10	9	<10	2	46
64	64344	<0.2	0.56	<5	95	<5	1.39	<1	4	112	29	1.66	<10	0.33	753	5	0.02	3	520	<2	<5	<20	62	0.02	<10	13	<10	2	37
65	64345	<0.2	0.63	<5	130	<5	1.49	<1	5	120	22	1.83	<10	0.35	711	7	0.02	2	570	2	<5	<20	66	0.02	<10	16	<10	2	42
66	64346	0.2	0.68	<5	70	<5	1.64	<1	4	106	19	1.58	<10	0.32	777	4	0.02	4	540	4	<5	<20	100	0.01	<10	13	<10	2	68
67	64347	<0.2	0.55	<5	70	<5	1.81	<1	6	111	10	1.85	<10	0.35	781	11	0.02	3	570	4	<5	<20	73	0.01	<10	12	<10	3	46
68	64348	1.0	0.70	<5	60	<5	1.65	<1	5	108	123	2.85	<10	0.34	1436	6	0.01	3	620	12	<5	<20	67	<0.01	<10	7	<10	<1	670
69	64349	17.0	0.42	<5	70	<5	2.20	<1	3	151	37	1.36	<10	0.26	1374	26	0.02	5	450	8	<5	<20	79	<0.01	<10	5	<10	3	413
70	64350	0.4	0.69	<5	55	<5	1.86	<1	4	108	66	1.82	<10	0.33	1289	10	0.01	2	560	4	<5	<20	111	0.01	<10	11	<10	3	62
71	64351	1.4	0.66	<5	20	<5	0.14	<1	4	125	371	4.47	<10	0.10	154	16	<0.01	3	480	12	<5	<20	13	<0.01	20	4	<10	<1	207
72	64352	2.0	0.59	<5	30	<5	0.13	2	3	118	538	3.17	<10	0.08	113	7	<0.01	2	470	8	<5	<20	9	<0.01	20	3	<10	<1	1153
73	64353	4.0	0.53	<5	20	<5	0.11	<1	4	118	1395	3.71	<10	0.08	121	84	<0.01	3	360	8	<5	<20	12	<0.01	10	3	<10	<1	421
74	64354	3.2	0.62	<5	20	<5	0.51	<1	5	130	842	4.10	<10	0.15	272	14	<0.01	4	400	6	<5	<20	41	<0.01	10	9	<10	<1	171
75	64355	0.8	0.62	<5	20	<5	0.34	<1	5	95	402	3.77	<10	0.18	195	6	<0.01	2	400	2	<5	<20	26	0.01	20	11	<10	<1	63
76	64356	0.8	0.69	<5	25	<5	0.59	<1	6	128	319	3.84	<10	0.21	326	26	0.01	2	490	4	<5	<20	42	0.01	<10	14	<10	<1	375
77	64357	0.6	0.74	<5	25	<5	0.71	<1	5	102	388	3.00	<10	0.31	425	130	0.02	2	570	2	<5	<20	68	0.03	<10	19	<10	1	150
78	64358	2.4	0.66	<5	25	<5	0.55	<1	4	116	461	3.61	<10	0.17	339	80	<0.01	3	490	18	<5	<20	49	<0.01	<10	9	<10	<1	216
79	64359	3.2	0.61	<5	30	<5	0.42	<1	6	125	1526	4.22	<10	0.13	224	7	<0.01	4	570	14	<5	<20	25	<0.01	<10	8	<10	<1	455
80	64360	0.8	0.55	<5	30	<5	0.61	<1	4	137	342	3.03	<10	0.16	282	8	0.01	3	380	6	<5	<20	69	<0.01	<10	10	<10	<1	163
81	64361	0.4	0.45	<5	30	<5	0.52	<1	4	151	205	2.19	<10	0.14	211	1347	0.02	3	270	6	<5	<20	72	<0.01	<10	9	<10	<1	42
82	64362	1.2	0.39	<5	30	<5	0.44	1	3	147	659	2.49	<10	0.05	175	171	<0.01	3	230	4	<5	<20	27	<0.01	<10	4	<10	<1	649
83	64363	0.6	0.58	<5	45	<5	0.59	1	3	133	311	2.05	<10	0.19	297	8	0.02	3	310	6	<5	<20	62	0.01	<10	10	<10	<1	734
84	64364	0.6	0.51	<5	25	<5	0.52	<1	4	139	198	3.19	<10	0.15	278	193	0.02	4	240	<2	<5	<20	60	<0.01	<10	8	<10	<1	117
85	64365	0.4	0.69	<5	40	<5	0.69	<1	4	99	93	2.45	<10	0.23	382	38	0.02	3	450	<2	<5	<20	68	0.02	<10	10	<10	1	43
86	64366	14.2	0.65	<5	20	<5	0.40	<1	7	124	695	4.02	<10	0.18	268	10	0.01	3	490	10	<5	<20	29	0.02	<10	10	<10	<1	128
87	64367	0.6	0.66	<5	30	<5	0.44	<1	6	105	287	3.88	<10	0.17	296	6	0.01	4	480	<2	<5	<20	43	<0.01	<10	11	<10	<1	74
88	64368	0.4	0.53	<5	25	<5	0.40	<1	6	106	151	4.46	<10	0.14	251	36	0.01	2	380	4	<5	<20	22	0.01	<10	8	<10	<1	35
89	64369	1.2	0.53	<5	20	<5	0.39	<1	6	82	957	3.90	<10	0.17	211	52	<0.01	3	470	4	<5	<20	31	0.01	<10	11	<10	<1	52
90	64370	0.8	0.53	<5	30	<5	0.37	<1	4	114	644	3.26	<10	0.14	183	44	<0.01	2	450	2	<5	<20	17	<0.01	<10	10	<10	<1	39
91	64371	0.2	0.76	<5	50	<5	0.66	<1	6	114	212	2.46	<10	0.39	444	35	0.03	5	580	2	<5	<20	48	0.06	<10	25	<10	3	57
92	64451	<0.2	0.83	<5	55	<5	1.29	<1	3	109	16	1.66	<10	0.36	742	5	0.02	2	460	<2	<5	<20	133	<0.01	<10	13	<10	1	55
93	64452	0.6	0.83	<5	55	<5	1.33	<1	4	97	96	1.50	<10	0.23	667	69	0.02	3	480	6	<5	<20	70	<0.01	<10	8	<10	1	661
94	64453	<0.2	0.81	<5	50	<5	1.48	<1	3	97	13	1.43	<10	0.26	782	15	0.02	3	530	4	<5	<20	75	<0.01	<10	11	<10	2	48
95	64454	0.2	0.64	<5	85	<5	1.03	<1	4	117	64	1.64	<10	0.30	630	684	0.03	2	490	4	<5	<20	83	0.02	<10	14	<10	1	80

m-96-5 m-96-3 m-96-5

ALMADEN RESOURCES ICP CERTIFICATE OF ANALYSIS AK 96-1022 **ECO-TECH LABORATORIES LTD.**

m-96-3

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
96	64455	0.2	0.55	<5	50	<5	1.29	<1	4	125	44	1.86	<10	0.24	882	886	0.02	3	450	4	<5	<20	56	0.01	<10	10	<10	1	47
97	64456	3.0	0.59	<5	40	<5	1.08	<1	4	103	252	2.51	<10	0.24	1929	53	<0.01	1	520	6	<5	<20	32	<0.01	<10	4	<10	<1	609
QC DATA:																													
Resplit:																													
R/S 1	64131	2.2	0.87	<5	35	<5	0.30	<1	7	119	722	4.80	<10	0.18	280	15	<0.01	4	470	28	<5	<20	31	0.01	<10	13	<10	<1	295
R/S 36	64316	<0.2	0.74	<5	90	<5	1.50	<1	5	103	87	1.75	<10	0.37	670	4	0.02	3	580	4	<5	<20	50	0.04	<10	23	<10	2	1009
R/S 71	64351	1.4	0.58	<5	20	<5	0.14	<1	5	110	360	4.75	<10	0.08	160	15	<0.01	5	500	16	<5	<20	10	<0.01	10	3	<10	<1	229
Repeat:																													
1	64131	2.2	0.87	<5	30	<5	0.30	<1	8	106	700	4.36	<10	0.19	280	15	<0.01	4	470	24	<5	<20	34	0.01	<10	13	<10	<1	290
10	64140	1.2	0.61	<5	40	<5	3.14	2	2	97	91	1.95	<10	0.19	3050	4	<0.01	2	590	210	<5	<20	140	<0.01	<10	7	<10	2	820
19	64149	2.1	0.80	<5	25	<5	0.92	<1	5	1	657	3.16	<10	0.25	620	40	<0.01	4	510	30	<5	<20	95	<0.01	<10	10	<10	<1	600
36	64316	<0.2	0.76	<5	90	<5	1.67	1	5	111	84	1.98	<10	0.40	716	5	0.02	5	660	2	<5	<20	55	0.04	<10	25	<10	3	1087
45	64325	<0.2	0.71	<5	230	<5	1.18	<1	5	107	15	1.81	<10	0.43	645	26	0.02	4	550	<2	<5	<20	38	0.05	<10	26	<10	3	147
54	64334	4.4	0.29	<5	40	10	4.51	10	6	99	103	4.50	<10	0.69	7320	13	<0.01	2	280	18	<5	<20	47	0.02	<10	4	<10	<1	6040
71	64351	1.2	0.61	<5	20	<5	0.13	<1	4	125	362	4.17	<10	0.08	140	12	<0.01	1	430	14	<5	<20	10	<0.01	20	3	<10	<1	205
80	64360	0.8	0.52	<5	25	<5	0.51	<1	3	120	311	2.85	<10	0.15	262	7	0.01	2	320	2	<5	<20	59	<0.01	<10	9	<10	<1	146
Standard:																													
GEO'96		1.4	1.79	65	150	<5	1.86	<1	15	64	75	3.83	<10	0.92	680	3	0.01	21	630	18	<5	<20	52	0.10	<10	70	<10	<1	68
GEO'96		1.2	1.84	60	155	<5	1.92	<1	20	66	70	4.42	<10	1.01	754	<1	0.02	21	780	18	<5	<20	55	0.13	<10	84	<10	4	66
GEO'96		1.2	1.83	70	150	<5	1.82	<1	17	64	76	3.76	<10	0.94	700	1	0.02	19	670	20	<5	<20	54	0.10	<10	79	<10	5	68

df/1022
XLS/96KMISC#8

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

23-Aug-96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
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ICP CERTIFICATE OF ANALYSIS AK 96-888

ALMADEN RESOURCES
2020-1055 WEST HASTINGS STREET
VANCOUVER,B.C.
V6E 2E9

ATTENTION: DWAYNE POLIQUIN

No. of samples received: 95
Sample type: Core
PROJECT: # Munro
SHIPMENT: # None Given
Samples submitted by: H. Leo King

M-96-3

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	64001	5	<0.2	1.01	<5	115	<5	0.76	<1	6	108	107	2.75	<10	0.45	497	72	0.02	5	550	10	<5	<20	29	0.03	<10	28	<10	1	212
2	64002	5	0.8	1.01	<5	105	<5	0.70	<1	5	98	118	2.75	<10	0.34	458	17	0.02	5	470	14	<5	<20	26	0.03	<10	18	<10	<1	174
3	64003	5	1.8	0.86	<5	55	<5	0.63	<1	5	113	475	3.50	<10	0.23	401	44	0.01	6	420	12	<5	<20	18	0.01	<10	14	<10	<1	231
4	64004	5	3.2	0.92	<5	60	<5	0.59	<1	5	137	723	3.63	<10	0.14	415	151	0.01	5	420	24	<5	<20	14	<0.01	<10	9	<10	<1	393
5	64006	5	2.6	1.03	<5	65	<5	0.66	<1	5	144	529	3.65	<10	0.27	505	64	0.02	5	440	26	<5	<20	24	0.02	<10	15	<10	<1	373
6	64007	5	0.6	0.93	<5	115	<5	0.74	<1	4	96	207	2.46	<10	0.32	460	197	0.02	3	480	12	<5	<20	28	0.03	<10	16	<10	<1	143
7	64008	5	1.4	1.02	<5	55	<5	1.00	<1	4	90	425	3.36	<10	0.27	752	170	<0.01	4	470	24	<5	<20	39	<0.01	<10	13	<10	<1	179
8	64009	5	1.6	0.85	<5	55	<5	0.81	<1	5	132	675	3.07	<10	0.17	555	101	0.01	5	440	24	<5	<20	36	<0.01	<10	10	<10	<1	138
9	64010	5	0.6	0.81	<5	105	<5	0.69	<1	4	114	163	2.43	<10	0.33	441	122	0.02	4	460	14	<5	<20	31	0.04	<10	19	<10	<1	112
10	64011	5	0.4	0.96	<5	90	<5	1.41	<1	4	109	97	2.50	<10	0.31	859	189	0.02	4	440	12	<5	<20	50	0.02	<10	17	<10	2	150
11	64012	5	0.4	0.83	<5	90	<5	0.86	<1	4	126	119	2.42	<10	0.27	504	579	0.02	4	440	16	<5	<20	33	0.02	<10	16	<10	1	106
12	64013	5	0.8	1.07	<5	105	<5	0.66	<1	5	83	372	2.70	<10	0.39	507	53	0.02	4	510	16	<5	<20	27	0.03	<10	21	<10	<1	313
13	64014	5	0.4	1.17	<5	95	5	0.57	<1	5	170	99	3.21	<10	0.37	687	92	0.02	6	490	14	<5	<20	26	0.03	<10	18	<10	<1	351
14	64015	5	0.4	0.90	<5	70	<5	0.99	<1	5	140	228	2.74	<10	0.28	493	689	0.02	4	420	12	<5	<20	33	0.02	<10	16	<10	2	79
15	64016	5	<0.2	0.93	<5	100	<5	1.08	<1	4	140	260	2.05	<10	0.42	451	1013	0.03	5	500	10	<5	<20	36	0.05	<10	26	<10	3	75
16	64017	5	0.4	0.95	<5	95	<5	0.85	<1	5	66	216	2.47	<10	0.38	501	84	0.02	4	510	10	<5	<20	39	0.04	<10	22	<10	2	102
17	64018	5	<0.2	0.89	<5	105	<5	0.97	<1	5	85	135	2.09	<10	0.39	483	25	0.02	4	510	8	<5	<20	59	0.04	<10	23	<10	2	61
18	64019	5	5.8	0.77	<5	45	<5	0.57	4	5	80	1345	3.83	<10	0.18	427	387	0.01	3	480	50	<5	<20	36	0.01	<10	9	<10	<1	2051
19	64020	5	3.2	0.77	<5	50	<5	0.56	5	5	148	279	3.45	<10	0.18	464	438	0.01	5	360	82	<5	<20	48	0.01	<10	9	<10	<1	2590
20	64021	5	1.0	0.91	<5	45	<5	0.34	<1	5	131	254	3.42	<10	0.15	317	612	0.01	5	340	26	<5	<20	23	<0.01	<10	8	<10	<1	225
21	64022	5	0.8	0.96	<5	60	<5	0.66	<1	6	127	248	3.51	<10	0.18	621	180	0.01	5	470	28	<5	<20	50	<0.01	<10	7	<10	<1	222
22	64023	5	1.0	0.93	<5	60	25	0.28	<1	5	80	459	3.36	<10	0.17	281	61	0.01	4	450	34	<5	<20	29	0.01	<10	8	<10	<1	154
23	64024	5	2.0	1.07	<5	60	<5	0.25	1	4	150	843	3.54	<10	0.17	245	79	0.01	6	460	70	<5	<20	34	<0.01	<10	9	<10	<1	436
24	64025	5	4.8	1.47	<5	30	5	1.34	3	4	36	299	2.38	<10	0.26	461	50	0.02	3	480	104	<5	<20	3146	0.01	<10	14	<10	1	1335
25	64026	5	1.0	0.88	<5	55	<5	1.27	<1	4	153	281	2.49	<10	0.25	582	186	0.01	5	430	18	<5	<20	233	0.01	<10	12	<10	1	159

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ALMADEN RESOURCES | ICP CERTIFICATE OF ANALYSIS AK 96-888 | ECO-TECH LABORATORIES LTD.

El #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
26	84027	5	0.8	0.90	<5	50	<5	0.43	<1	4	120	526	3.16	<10	0.18	238	184	0.01	5	460	20	<5	<20	144	0.01	<10	10	<10	<1	115
27	82008	5	2.2	0.76	<5	80	<5	0.55	<1	6	115	173	2.45	<10	0.40	447	11	0.04	4	580	14	<5	<20	324	0.09	<10	27	<10	<1	118
28	82009	5	<0.2	0.83	<5	130	<5	0.54	<1	6	110	46	2.20	<10	0.45	448	39	0.05	4	590	8	<5	<20	378	0.11	<10	31	<10	<1	142
29	82010	5	0.4	0.84	<5	100	<5	0.64	1	5	106	206	2.61	<10	0.38	407	8	0.03	3	610	12	<5	<20	104	0.06	<10	26	<10	1	451
30	82011	5	2.2	0.66	<5	45	<5	0.48	<1	5	94	521	2.76	<10	0.21	292	74	0.02	3	520	36	<5	<20	57	0.02	<10	13	<10	<1	191
31	82012	5	2.4	0.84	<5	45	<5	3.43	<1	4	137	361	2.86	<10	0.30	1444	66	<0.01	4	560	48	<5	<20	207	<0.01	<10	7	<10	3	134
32	82013	5	12.6	0.66	<5	40	<5	1.85	3	5	68	1764	3.92	<10	0.17	745	10	<0.01	4	600	264	<5	<20	98	<0.01	<10	5	<10	<1	1065
33	82014	5	<0.2	0.86	<5	80	<5	0.73	<1	5	108	148	2.60	<10	0.38	413	94	0.02	3	650	12	<5	<20	142	0.05	<10	23	<10	1	105
34	82015	5	0.4	0.76	<5	70	<5	0.91	<1	5	97	106	2.67	<10	0.33	426	32	0.03	3	560	20	<5	<20	121	0.04	<10	20	<10	2	304
35	82016	5	<0.2	0.81	<5	120	<5	0.88	<1	5	120	62	2.30	<10	0.43	424	203	0.04	3	600	8	<5	<20	85	0.09	<10	28	<10	1	110
36	82017	5	0.2	0.67	<5	120	<5	0.73	1	6	101	73	2.64	<10	0.42	453	23	0.04	4	640	8	<5	<20	81	0.08	<10	28	<10	<1	598
37	82018	5	0.6	0.86	<5	105	<5	0.67	1	5	117	156	2.51	<10	0.39	427	26	0.04	4	570	14	<5	<20	188	0.06	<10	26	<10	2	400
38	82019	5	<0.2	0.84	<5	75	<5	0.82	3	6	114	79	2.60	<10	0.39	456	48	0.03	4	570	8	<5	<20	213	0.06	<10	25	<10	1	1272
39	82020	5	0.4	0.81	<5	100	<5	1.07	<1	5	113	243	2.29	<10	0.33	441	808	0.03	4	520	8	<5	<20	196	0.04	<10	21	<10	2	188
40	82021	5	0.2	0.81	<5	110	<5	0.91	<1	4	132	121	2.38	<10	0.37	427	37	0.03	4	560	8	<5	<20	132	0.05	<10	24	<10	2	104
41	82022	5	<0.2	0.82	<5	120	5	0.88	<1	5	101	59	2.43	<10	0.39	391	28	0.04	4	560	6	<5	<20	91	0.07	<10	23	<10	1	134
42	82023	5	<0.2	0.75	<5	115	<5	0.72	<1	6	94	31	2.36	<10	0.42	423	26	0.03	4	570	8	<5	<20	116	0.09	<10	28	<10	<1	203
43	82024	5	<0.2	0.77	<5	140	<5	0.61	<1	5	99	46	1.98	<10	0.44	423	24	0.05	4	560	6	<5	<20	107	0.10	<10	29	<10	<1	61
44	82025	5	0.6	0.80	<5	95	<5	0.65	2	5	129	238	2.51	<10	0.35	346	36	0.03	4	560	8	<5	<20	134	0.06	<10	22	<10	<1	807
45	82026	5	<0.2	0.83	<5	150	<5	0.61	<1	6	108	53	2.12	<10	0.46	418	111	0.05	4	570	8	<5	<20	127	0.10	<10	30	<10	1	64
46	82027	5	0.8	1.02	<5	105	<5	1.04	1	5	134	298	2.53	<10	0.44	450	73	0.03	5	640	8	<5	<20	313	0.06	<10	28	<10	3	404
47	82028	5	1.4	0.85	<5	90	<5	0.58	<1	5	105	493	2.66	<10	0.39	400	18	0.03	4	580	8	<5	<20	126	0.06	<10	25	<10	1	256
48	82029	5	0.4	0.89	<5	110	<5	0.86	1	5	101	133	2.37	<10	0.40	412	48	0.02	4	570	8	<5	<20	239	0.06	<10	26	<10	2	410
49	82030	5	0.8	0.80	<5	75	<5	0.57	2	8	79	318	2.61	<10	0.37	380	183	0.02	3	570	8	<5	<20	89	0.05	<10	23	<10	<1	714
50	82031	5	0.4	0.81	<5	80	<5	0.92	1	5	121	119	2.61	<10	0.35	457	14	0.03	4	620	30	<5	<20	118	0.06	<10	24	<10	2	352
51	82032	5	0.6	0.70	<5	150	10	1.49	1	4	95	78	2.01	<10	0.30	517	21	0.03	4	550	30	<5	<20	173	0.04	<10	20	<10	2	233
52	82033	5	0.2	0.77	<5	75	<5	0.88	<1	5	104	141	2.62	<10	0.35	445	299	0.03	4	570	20	<5	<20	119	0.06	<10	22	<10	1	277
53	82034	5	1.4	0.76	<5	50	<5	0.63	<1	4	82	325	3.19	<10	0.20	320	42	0.01	4	610	54	<5	<20	98	0.02	<10	10	<10	1	216
54	82035	5	5.6	0.63	<5	35	<5	1.08	12	5	97	476	4.19	<10	0.12	554	28	<0.01	3	600	558	<5	<20	78	<0.01	<10	4	<10	<1	5283
55	82036	5	3.6	0.82	<5	50	<5	0.84	<1	5	87	728	3.19	<10	0.16	359	33	0.01	4	570	50	<5	<20	110	<0.01	<10	8	<10	<1	255
56	82037	5	2.8	0.82	<5	40	<5	0.47	2	5	112	671	3.53	<10	0.11	216	38	<0.01	8	620	126	<5	<20	76	<0.01	<10	5	<10	<1	1001
57	82038	5	1.0	0.73	<5	50	<5	0.88	<1	5	82	497	3.06	<10	0.26	355	132	0.02	4	620	12	<5	<20	165	0.04	<10	17	<10	1	70
58	82039	5	<0.2	0.84	<5	70	<5	0.86	<1	5	142	61	2.59	<10	0.35	383	33	0.03	5	560	12	<5	<20	217	0.04	<10	21	<10	1	99
59	82040	5	1.2	0.77	<5	65	<5	7.47	<1	3	68	170	2.25	<10	0.28	2295	112	0.01	4	420	12	<5	<20	485	0.02	<10	12	<10	6	102
60	82041	5	<0.2	0.98	<5	85	<5	0.90	<1	5	138	89	2.68	<10	0.42	441	18	0.03	6	510	10	<5	<20	328	0.05	<10	25	<10	<1	189

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ALMADEN RESOURCES — ICP CERTIFICATE OF ANALYSIS AK 96-888 — ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
61	82042	5	1.0	1.05	<5	70	<5	0.62	<1	6	106	423	3.26	<10	0.44	415	226	0.02	6	550	12	<5	<20	229	0.04	<10	24	<10	1	166
62	82043	5	<0.2	0.84	<5	105	<5	0.63	2	5	112	70	2.72	<10	0.36	339	47	0.03	4	530	6	<5	<20	82	0.05	<10	21	<10	<1	648
63	82044	5	0.2	0.81	<5	55	<5	0.58	<1	6	105	119	2.94	<10	0.37	364	29	0.03	4	570	8	<5	<20	90	0.06	<10	23	<10	<1	224
64	82045	5	1.6	1.02	<5	80	<5	0.61	<1	5	128	572	3.27	<10	0.36	357	39	0.03	4	570	16	<5	<20	176	0.03	<10	23	<10	<1	227
65	82046	5	1.0	0.86	<5	65	<5	0.67	<1	5	93	497	3.21	<10	0.31	377	61	0.02	3	670	14	<5	<20	115	0.04	<10	20	<10	2	338
66	82047	5	17.6	0.74	<5	30	<5	0.59	12	7	125	446	4.74	<10	0.21	483	58	0.01	4	470	192	<5	<20	96	0.02	<10	12	<10	<1	5180
67	82048	5	1.2	0.81	<5	50	<5	0.67	<1	6	102	486	3.22	<10	0.28	400	6	0.02	4	530	12	<5	<20	173	0.02	<10	14	<10	1	176
68	82049	5	0.8	0.93	<5	60	<5	1.43	<1	5	149	68	2.91	<10	0.32	759	17	0.02	5	470	38	<5	<20	309	0.02	<10	17	<10	3	176
69	82050	5	0.2	0.85	<5	65	<5	0.79	<1	5	82	90	2.99	<10	0.34	380	169	0.02	4	470	22	<5	<20	207	0.03	<10	18	<10	2	121
70	82751	5	0.6	0.82	<5	100	<5	0.64	1	5	119	68	2.52	<10	0.31	442	35	0.03	4	500	10	<5	<20	124	0.04	<10	18	<10	2	447
71	82752	5	<0.2	0.86	<5	105	<5	0.77	<1	5	122	77	2.26	<10	0.35	416	109	0.02	4	510	10	<5	<20	198	0.05	<10	20	<10	1	208
72	82753	5	0.6	0.81	<5	75	<5	0.79	<1	6	91	210	3.14	<10	0.30	384	6	0.01	4	540	12	<5	<20	148	0.04	<10	18	<10	<1	130
73	82754	5	0.2	0.94	<5	105	<5	0.65	<1	6	144	192	2.88	<10	0.42	420	18	0.03	6	580	6	<5	<20	131	0.06	<10	26	<10	<1	95
74	82755	5	1.0	0.83	<5	65	<5	0.44	<1	5	92	177	3.28	<10	0.29	400	47	0.01	4	520	10	<5	<20	75	0.03	<10	16	<10	<1	141
75	82756	5	0.6	0.78	<5	55	<5	0.40	<1	3	132	148	3.18	<10	0.21	282	16	0.02	4	460	10	<5	<20	78	0.02	<10	13	<10	<1	210
76	82757	5	0.6	0.81	<5	80	<5	0.44	<1	4	84	246	3.46	<10	0.25	293	28	0.02	4	500	10	<5	<20	73	0.02	<10	14	<10	<1	450
77	82758	5	0.4	0.95	<5	95	5	0.53	<1	4	146	91	3.05	<10	0.34	325	9	0.03	4	510	8	<5	<20	100	0.04	<10	21	<10	<1	283
78	84151	5	<0.2	0.93	<5	175	<5	0.71	<1	5	136	10	1.97	<10	0.48	585	5	0.03	4	540	18	<5	<20	36	0.05	<10	26	<10	1	251
79	84152	5	0.2	0.80	<5	135	<5	1.23	1	3	112	13	2.34	<10	0.29	1162	254	<0.01	4	510	58	<5	<20	76	<0.01	<10	9	<10	2	578
80	84153	5	0.6	0.74	<5	85	<5	1.83	2	3	135	38	1.69	<10	0.28	1322	19	0.01	4	460	22	<5	<20	86	<0.01	<10	11	<10	2	983
81	84154	10	0.6	0.77	<5	105	<5	1.18	1	4	137	120	1.73	<10	0.35	805	9	0.02	4	500	24	<5	<20	70	0.03	<10	18	<10	2	512
82	84155	5	0.6	0.63	<5	90	<5	1.29	1	5	106	46	1.98	<10	0.36	1222	33	0.02	4	490	40	<5	<20	63	0.03	<10	18	<10	2	447
83	84156	5	0.4	0.73	<5	105	<5	1.12	<1	4	154	20	1.82	<10	0.36	865	94	0.03	4	460	8	<5	<20	93	0.03	<10	19	<10	2	88
84	84157	5	<0.2	0.79	<5	100	<5	0.99	<1	4	90	13	1.83	<10	0.42	665	75	0.02	3	510	10	<5	<20	146	0.04	<10	20	<10	2	53
85	84158	5	1.0	0.81	<5	60	<5	0.81	2	4	131	18	3.37	<10	0.38	6270	44	<0.01	4	460	54	<5	<20	70	0.02	<10	11	<10	<1	922
86	84159	5	2.0	0.88	<5	125	<5	0.42	3	4	111	49	3.07	<10	0.39	3340	4	<0.01	4	480	128	<5	<20	84	<0.01	<10	9	<10	<1	1378
87	84160	5	1.8	0.89	<5	75	10	1.11	4	4	150	314	2.27	<10	0.34	796	12	0.02	5	470	28	<5	<20	96	0.02	<10	18	<10	1	2041
88	84161	5	0.2	0.86	<5	130	15	1.04	<1	5	91	51	1.78	<10	0.43	892	54	0.02	5	510	10	<5	<20	145	0.05	<10	24	<10	3	244
89	84162	5	0.4	0.80	<5	85	<5	1.54	<1	5	110	99	1.75	<10	0.32	759	17	0.01	4	480	10	<5	<20	165	0.02	<10	17	<10	3	289
90	84163	5	0.4	0.94	<5	80	<5	2.37	<1	4	105	184	1.85	<10	0.39	709	127	0.01	4	440	18	<5	<20	253	0.02	<10	16	<10	3	176
91	84164	5	0.6	0.66	<5	45	<5	3.02	<1	4	100	45	2.21	<10	0.24	1088	127	0.01	3	480	22	<5	<20	158	<0.01	<10	7	<10	3	246
92	84165	5	0.8	0.73	<5	80	<5	1.61	2	4	115	197	1.88	<10	0.20	668	6	0.01	4	480	26	<5	<20	120	<0.01	<10	8	<10	2	1040
93	84166	5	2.4	0.97	<5	85	<5	2.13	5	4	141	819	2.16	<10	0.33	954	43	0.01	4	490	58	<5	<20	187	<0.01	<10	12	<10	1	2550
94	84167	5	0.8	0.74	<5	75	<5	1.60	1	5	105	69	1.97	<10	0.28	774	18	0.02	4	530	18	<5	<20	96	0.02	<10	14	<10	2	585
95	No Identification	5	1.8	0.90	<5	55	<5	0.47	3	4	124	604	3.40	<10	0.15	264	447	<0.01	3	640	14	<5	<20	38	<0.01	<10	9	<10	<1	1158

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m-96-4

ALMADEN RESOURCES — ICP CERTIFICATE OF ANALYSIS AK 96-888 — ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
QC/DATA:																														
Resplit:																														
R/S 1	64001 m96-3	5	0.6	1.01	<5	95	<5	0.75	<1	6	136	117	2.84	<10	0.45	495	80	0.02	6	540	10	<5	<20	30	0.03	<10	27	<10	1	232
R/S 36	82017 m-96-2	5	<0.2	0.83	<5	100	<5	0.72	1	6	99	73	2.57	<10	0.43	457	47	0.03	4	650	6	<5	<20	82	0.08	<10	29	<10	1	587
R/S 71	82752	5	<0.2	0.84	<5	90	<5	0.77	<1	5	115	70	2.28	<10	0.34	418	74	0.02	5	510	10	<5	<20	180	0.05	<10	20	<10	1	254
Repeat:																														
1	64001 m-96-3	5	0.4	0.98	<5	110	<5	0.76	<1	6	106	105	2.72	<10	0.45	494	73	0.02	5	540	8	<5	<20	28	0.03	<10	27	<10	<1	215
10	64011	5	0.4	0.91	<5	80	<5	1.38	<1	4	105	96	2.47	<10	0.30	848	188	0.02	4	450	12	<5	<20	50	0.02	<10	16	<10	2	150
19	64020	5	3.2	0.74	<5	50	<5	0.56	5	5	146	288	3.42	<10	0.18	457	433	0.01	5	350	82	<5	<20	50	0.01	<10	9	<10	<1	2589
36	82017 m-96-2	5	<0.2	0.85	<5	100	<5	0.73	2	6	100	72	2.60	<10	0.41	454	22	0.04	4	830	8	<5	<20	80	0.08	<10	27	<10	<1	597
45	82026	5	<0.2	0.82	<5	130	<5	0.61	<1	6	106	53	2.13	<10	0.45	414	112	0.05	4	570	8	<5	<20	130	0.10	<10	30	<10	1	62
54	82035 m96-2	5	5.6	0.61	<5	30	<5	1.08	12	5	95	479	4.16	<10	0.12	552	28	<0.01	3	610	558	<5	<20	78	<0.01	<10	4	<10	<1	5316
71	82752	5	<0.2	0.83	<5	105	<5	0.76	<1	5	120	74	2.23	<10	0.35	415	106	0.02	4	510	10	<5	<20	191	0.08	<10	20	<10	1	206
80	64153 m-964	5	0.8	0.73	<5	70	<5	1.86	2	4	139	38	1.71	<10	0.29	1338	19	0.01	3	470	24	<5	<20	89	<0.01	<10	11	<10	3	1007
89	64162	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard:																														
GEO'96		145	1.0	1.78	55	160	<5	1.76	<1	19	63	80	3.97	<10	0.97	691	<1	0.02	25	690	24	<5	<20	59	0.12	<10	78	<10	2	66
GEO'96		140	1.4	1.79	45	155	<5	1.77	<1	18	62	83	4.02	<10	0.98	698	<1	0.02	25	720	24	<5	<20	60	0.12	<10	80	<10	2	67
GEO'96		145	1.4	1.78	45	155	<5	1.78	<1	18	62	79	3.99	<10	0.96	690	<1	0.02	25	700	24	<5	<20	61	0.12	<10	79	<10	2	68

dl/888
XLS/96kmisc6

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Fax (604) 573-4557

CERTIFICATE OF ASSAY AK 96-1022

ALMADEN RESOURCES
2020-1055 WEST HASTINGS STREET
VANCOUVER,B.C.
V6E 2E9

13-Sep-96

ATTENTION: DWAYNE POLIQUIN

No. of samples received: 97
Sample type: CORE
PROJECT: # MUNRO
SHIPMENT: # NONE GIVEN
Samples submitted by: H.LEO KING

ET #.	Tag #	Zn (%)	
12	64142	2.10	m-96-3
13	64143	1.66	

QC/DATA:
Standard:
CPb-1 4.40

ECO-TECH LABORATORIES LTD.
per Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/96kmisc#8

m-96-3

CERTIFICATE OF ASSAY AK 96-967

ALMADEN RESOURCES CORPORATION
2020-1055 WEST HASTINGS STREET
VANCOUVER,B.C.
V6E 2E9

6-Sep-96

ATTENTION: DWAYNE POLIQUIN

No. of samples received: 115
Sample type: Core
PROJECT: # Munro
SHIPMENT: # None Given
Samples submitted by: H.Leo King

ET #.	Tag #	Ag (g/t)	Ag (oz/t)	Zn (%)
7	64034	51.3	1.50	-
22	64049	-	-	*
75	64102	70.4	2.05	-
87	64114	79.0	2.30	-
88	64115	71.0	2.07	-

QC/DATA:
Standard:

CPb-1	630.0	18.37	-

Note: * = Result to follow

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ENVIRONMENTAL TESTING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4 Phone (604) 573-5700
Fax (604) 573-4557

CERTIFICATE OF ASSAY AK 96-1022

ALMADEN RESOURCES
2020-1055 WEST HASTINGS STREET
VANCOUVER,B.C.
V6E 2E9

13-Sep-96

ATTENTION: DWAYNE POLIQUIN

No. of samples received: 97
Sample type: CORE
PROJECT: # MUNRO
SHIPMENT: # NONE GIVEN
Samples submitted by: H.LEO KING

ET #.	Tag #	Zn (%)	
12	64142	2.10	} AK-96-3
13	64143	1.66	

QC/DATA:
Standard:

CPb-1	4.40

per

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/96kmisc#8

m96-4

ALMADEN RESOURCE CORPORATION | **ICP CERTIFICATE OF ANALYSIS AK 96-933** | **ECO-TECH LABORATORIES LTD.**

m96-9

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
26	64193	<0.2	0.84	<5	90	<5	1.42	<1	4	65	69	1.92	<10	0.37	666	40	0.02	4	560	2	<5	<20	122	0.03	<10	21	<10	2	157
27	64194	0.4	0.84	<5	130	<5	1.12	<1	5	129	273	2.09	<10	0.37	624	55	0.03	4	560	4	<5	<20	83	0.05	<10	24	<10	2	424
28	64195	<0.2	0.85	<5	170	<5	0.92	<1	5	101	135	1.98	<10	0.45	600	8	0.04	4	560	2	<5	<20	81	0.09	<10	30	<10	3	129
29	64196	<0.2	0.88	<5	115	<5	1.16	<1	5	125	30	1.98	<10	0.39	677	45	0.03	4	530	4	<5	<20	85	0.05	<10	25	<10	2	127
30	64197	0.4	0.98	<5	90	<5	0.64	4	5	93	434	2.37	<10	0.32	465	17	0.02	4	430	6	<5	<20	65	0.03	<10	17	<10	<1	2158
31	64198	2.4	0.69	<5	60	<5	1.97	5	5	112	816	2.26	<10	0.15	649	11	<0.01	4	440	24	<5	<20	119	<0.01	<10	7	<10	<1	2863
32	64199	2.2	0.92	<5	50	<5	3.24	<1	4	107	547	2.14	<10	0.24	984	44	0.01	4	510	18	<5	<20	262	<0.01	<10	9	<10	5	278
33	64200	1.4	0.74	<5	95	<5	1.71	3	5	99	374	2.14	<10	0.27	739	65	0.02	3	530	10	<5	<20	76	0.03	<10	16	<10	2	1248
34	64201	3.2	0.76	<5	65	10	1.34	3	4	77	281	2.62	<10	0.21	677	16	0.02	3	480	22	<5	<20	66	0.01	<10	11	<10	1	1466
35	64202	<0.2	0.66	<5	100	5	1.32	<1	4	111	51	1.64	<10	0.32	660	21	0.02	5	470	4	<5	<20	85	0.03	<10	18	<10	3	146
36	64203	<0.2	0.70	<5	120	<5	0.84	<1	5	95	20	1.81	<10	0.40	516	54	0.03	5	510	4	<5	<20	82	0.05	<10	25	<10	3	51
37	64204	<0.2	0.78	<5	140	<5	0.77	<1	5	116	41	1.89	<10	0.41	517	11	0.04	4	520	2	<5	<20	102	0.06	<10	26	<10	2	186
38	64205	<0.2	0.72	<5	100	<5	1.08	<1	6	113	55	1.99	<10	0.37	586	8	0.03	5	560	4	<5	<20	96	0.05	<10	24	<10	3	304
39	64206	<0.2	0.60	<5	60	<5	1.07	<1	4	73	88	1.75	<10	0.30	529	114	0.02	4	460	4	<5	<20	81	0.03	<10	19	<10	2	110
40	64207	<0.2	0.72	<5	95	<5	1.13	<1	5	117	32	1.92	<10	0.37	537	111	0.03	4	500	4	<5	<20	129	0.05	<10	23	<10	3	121
41	64208	<0.2	0.67	<5	110	<5	0.91	<1	4	100	13	1.70	<10	0.36	495	137	0.03	5	520	2	<5	<20	86	0.05	<10	23	<10	3	38
42	64209	<0.2	0.76	<5	95	<5	1.29	<1	4	101	18	1.86	<10	0.38	569	95	0.03	5	520	<2	<5	<20	122	0.05	<10	24	<10	3	40
43	64210	<0.2	0.68	<5	60	<5	1.77	<1	5	113	83	2.18	<10	0.28	677	9	0.02	5	510	4	<5	<20	112	0.02	<10	17	<10	3	383
44	64211	<0.2	0.72	<5	95	<5	1.01	<1	5	108	59	2.07	<10	0.37	576	30	0.03	4	510	2	<5	<20	86	0.06	<10	25	<10	2	262
45	64212	<0.2	0.62	<5	55	<5	1.38	2	3	100	102	1.70	<10	0.24	595	7	0.01	4	380	6	<5	<20	149	0.02	<10	14	<10	2	633
46	64213	0.4	0.66	<5	60	<5	2.23	2	4	66	145	1.87	<10	0.27	740	7	0.01	3	500	8	<5	<20	197	0.02	<10	15	<10	3	1170
47	64214	<0.2	0.77	<5	65	<5	2.03	1	4	113	85	1.89	<10	0.30	702	15	0.01	4	540	6	<5	<20	198	0.02	<10	18	<10	3	747
48	64215	<0.2	0.74	<5	85	<5	1.32	<1	4	75	56	1.89	<10	0.34	568	84	0.02	4	530	6	<5	<20	159	0.03	<10	19	<10	2	339
49	64216	<0.2	0.73	<5	70	<5	1.89	<1	4	113	91	1.84	<10	0.30	615	153	0.02	4	530	6	<5	<20	163	0.02	<10	15	<10	2	393
50	64217	0.2	0.59	<5	60	<5	1.52	<1	5	66	41	2.11	<10	0.22	528	116	0.01	3	520	4	<5	<20	117	0.01	<10	9	<10	2	140
51	64218	<0.2	0.73	<5	70	<5	1.44	<1	5	139	52	2.22	<10	0.25	557	40	0.02	5	550	4	<5	<20	123	0.02	<10	13	<10	2	112
52	64219	<0.2	0.84	<5	85	10	1.66	<1	4	112	39	1.83	<10	0.35	588	62	0.03	4	530	6	<5	<20	250	0.02	<10	19	<10	2	82
53	64220	<0.2	0.93	<5	105	<5	2.34	<1	5	54	31	1.70	<10	0.38	656	18	0.01	3	540	6	<5	<20	383	0.03	<10	22	<10	3	64
54	64221	<0.2	0.73	<5	100	<5	1.32	<1	5	68	20	1.86	<10	0.38	526	161	0.02	4	540	6	<5	<20	184	0.05	<10	24	<10	2	60
55	64222	<0.2	0.66	<5	115	<5	1.45	<1	5	97	42	1.80	<10	0.38	566	33	0.02	4	530	4	<5	<20	131	0.06	<10	24	<10	2	162
56	64223	<0.2	0.78	<5	130	<5	1.11	<1	5	122	51	1.95	<10	0.41	533	32	0.04	5	510	4	<5	<20	118	0.06	<10	27	<10	2	56
57	64224	<0.2	0.81	<5	160	<5	1.56	<1	5	116	98	1.89	<10	0.43	621	18	0.03	5	460	4	<5	<20	185	0.06	<10	25	<10	3	325
58	64225	<0.2	0.74	<5	120	<5	1.37	<1	5	83	38	1.88	<10	0.39	544	13	0.02	3	540	4	<5	<20	163	0.05	<10	24	<10	3	76
59	64226	<0.2	0.73	<5	120	<5	1.15	1	5	141	135	1.83	<10	0.38	512	8	0.03	5	510	6	<5	<20	144	0.04	<10	23	<10	2	606
60	64227	<0.2	0.76	<5	105	<5	1.34	<1	5	121	35	1.76	<10	0.37	537	9	0.03	5	490	8	<5	<20	161	0.03	<10	21	<10	3	184

m-96-4

ALMADEN RESOURCE CORPORATION

ICP CERTIFICATE OF ANALYSIS AK 96-933

ECO-TECH LABORATORIES LTD.

m-96-4

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
61	64228	<0.2	0.65	<5	70	<5	1.65	1	4	100	114	1.87	<10	0.30	661	12	0.02	5	520	10	<5	<20	102	0.02	<10	15	<10	3	428
62	64229	<0.2	0.61	<5	60	<5	2.30	<1	5	63	28	2.05	<10	0.27	682	35	0.01	3	510	10	<5	<20	145	0.01	<10	11	<10	3	190
63	64230	<0.2	0.86	<5	95	<5	0.76	<1	5	110	38	1.90	<10	0.39	397	30	0.02	6	550	10	<5	<20	245	0.03	<10	22	<10	2	143
64	64231	<0.2	0.78	<5	80	<5	1.64	<1	5	132	49	2.02	<10	0.31	709	8	0.02	5	570	10	<5	<20	209	0.02	<10	17	<10	3	164
65	64232	0.2	0.88	<5	85	<5	1.48	1	5	89	150	2.08	<10	0.33	609	37	0.02	5	570	12	<5	<20	246	0.02	<10	17	<10	3	658
66	64233	0.8	0.82	<5	50	<5	1.45	<1	5	78	274	2.17	<10	0.21	787	30	0.01	4	610	14	<5	<20	99	<0.01	<10	10	<10	3	549
67	64234	<0.2	0.66	<5	60	<5	1.06	<1	5	91	199	2.31	<10	0.28	506	11	0.02	4	570	10	<5	<20	91	0.01	<10	14	<10	2	457
68	64235	0.2	0.66	<5	65	<5	1.05	1	6	73	171	2.64	<10	0.28	485	110	0.01	4	600	12	<5	<20	88	0.02	<10	15	<10	2	616
69	64236	0.4	0.65	<5	55	<5	1.30	2	4	143	117	2.34	<10	0.25	598	38	0.02	6	560	14	<5	<20	74	<0.01	<10	11	<10	3	816
70	64237	<0.2	0.69	<5	70	<5	1.19	1	4	106	90	2.17	<10	0.26	593	29	0.03	4	540	4	<5	<20	72	0.01	<10	12	<10	2	468
71	64238	<0.2	0.79	<5	60	<5	1.52	<1	4	142	83	2.12	<10	0.23	802	8	0.03	5	590	6	<5	<20	102	<0.01	<10	11	<10	3	131
72	64239	<0.2	0.76	<5	75	<5	1.23	<1	4	120	51	2.12	<10	0.27	666	17	0.03	5	580	8	<5	<20	98	0.02	<10	16	<10	3	55
73	64240	0.6	0.72	<5	50	<5	2.60	<1	6	121	125	2.55	<10	0.16	1189	44	0.02	4	560	20	<5	<20	101	<0.01	<10	7	<10	4	103
74	64241	1.2	0.85	<5	80	<5	1.26	1	6	156	401	2.70	<10	0.19	565	14	0.03	5	620	14	<5	<20	66	<0.01	<10	11	<10	2	787
75	64242	<0.2	0.66	<5	100	<5	1.33	<1	5	116	30	2.32	<10	0.36	601	355	0.04	5	570	8	<5	<20	96	0.04	<10	20	<10	3	66
76	64243	0.4	0.99	<5	100	<5	0.97	<1	5	122	102	2.41	<10	0.41	502	67	0.03	4	590	8	<5	<20	119	0.04	<10	20	<10	3	90
77	64244	0.4	1.07	<5	80	<5	1.44	<1	5	120	202	2.37	<10	0.36	531	66	0.03	4	530	10	<5	<20	159	0.02	<10	16	<10	3	461
78	64245	<0.2	1.18	<5	120	<5	1.82	<1	5	148	67	2.21	<10	0.44	609	13	0.03	5	550	10	<5	<20	246	0.04	<10	24	<10	5	180
79	64246	<0.2	0.97	<5	90	<5	2.39	<1	5	80	177	2.27	<10	0.36	613	74	0.02	4	540	8	<5	<20	171	0.03	<10	19	<10	5	94
80	64247	0.6	1.01	<5	85	<5	1.20	<1	4	149	344	2.49	<10	0.30	386	16	0.02	5	500	20	<5	<20	145	0.02	<10	16	<10	3	167
81	64248	<0.2	0.81	<5	95	<5	1.00	<1	4	133	137	2.20	<10	0.31	376	10	0.03	4	500	10	<5	<20	87	0.03	<10	18	<10	3	124
82	64249	0.6	0.94	<5	85	<5	1.00	<1	4	151	298	2.47	<10	0.28	336	33	0.02	4	530	18	<5	<20	129	0.02	<10	15	<10	4	127
83	64250	<0.2	0.95	<5	90	<5	0.77	<1	6	139	118	3.20	<10	0.38	390	60	0.02	5	670	12	<5	<20	81	0.04	<10	25	<10	2	158
84	64251	<0.2	0.86	<5	135	<5	0.87	<1	4	123	66	1.98	<10	0.38	400	100	0.03	4	510	10	<5	<20	118	0.05	<10	24	<10	3	110
85	64252	<0.2	0.98	<5	105	<5	1.20	1	5	130	134	2.33	<10	0.36	432	17	0.03	4	550	6	<5	<20	143	0.04	<10	21	<10	3	743
86	64253	<0.2	0.76	<5	100	<5	0.71	<1	5	158	158	1.84	<10	0.34	371	8	0.05	5	460	8	<5	<20	66	0.07	<10	20	<10	3	96
87	64254	<0.2	0.87	<5	180	<5	0.72	<1	6	153	45	2.27	<10	0.45	486	64	0.08	5	600	10	<5	<20	56	0.13	<10	31	<10	3	87
88	64255	<0.2	0.91	<5	150	<5	0.97	<1	6	169	122	2.22	<10	0.44	558	12	0.05	5	600	8	<5	<20	89	0.11	<10	30	<10	4	71
89	64256	<0.2	0.89	<5	165	<5	0.72	<1	6	167	73	2.24	<10	0.43	497	46	0.05	5	600	10	<5	<20	55	0.10	<10	31	<10	3	74
90	64257	<0.2	0.78	<5	140	<5	0.75	<1	6	124	155	2.52	<10	0.36	444	16	0.03	5	570	10	<5	<20	41	0.07	<10	28	<10	3	103
91	64258	<0.2	0.81	<5	145	<5	0.74	<1	7	119	81	2.50	<10	0.43	480	30	0.04	4	620	10	<5	<20	38	0.11	<10	30	<10	3	128
92	64259	<0.2	0.85	<5	175	<5	0.68	<1	6	153	103	2.37	<10	0.43	477	9	0.05	5	600	6	<5	<20	43	0.12	<10	31	<10	3	117

ALMADEN RESOURCE CORPORATION | ICP CERTIFICATE OF ANALYSIS AK 96-933 | ECO-TECH LABORATORIES LTD.

m-96-4

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
QC DATA:																													
Resplit:																													
R/S 1	64168	0.6	0.75	<5	85	<5	1.58	<1	4	98	87	1.93	<10	0.32	780	60	0.02	4	530	20	<5	<20	88	0.02	<10	17	<10	3	228
R/S 36	64203	<0.2	0.71	<5	130	<5	0.86	<1	5	104	19	1.84	<10	0.39	515	44	0.04	5	600	4	<5	<20	79	0.06	<10	25	<10	3	56
R/S 71	64238	0.2	0.86	<5	70	<5	1.51	<1	5	150	93	2.30	<10	0.22	799	11	0.03	5	630	8	<5	<20	98	0.01	<10	12	<10	3	137
Repeat:																													
1	64168	0.8	0.76	<5	85	<5	1.57	<1	4	91	89	1.87	<10	0.31	773	65	0.02	5	520	20	<5	<20	90	0.02	<10	16	<10	3	251
10	64177	<0.2	0.97	<5	100	<5	1.35	<1	5	79	50	1.93	<10	0.41	615	42	0.02	4	530	<2	<5	<20	247	0.04	<10	21	<10	3	118
19	64186	<0.2	0.71	<5	105	<5	1.60	<1	5	112	39	2.10	<10	0.26	685	59	0.02	5	540	8	<5	<20	91	0.03	<10	16	<10	2	111
36	64203	<0.2	0.71	<5	120	<5	0.85	<1	5	95	20	1.81	<10	0.39	510	58	0.03	5	520	2	<5	<20	82	0.05	<10	25	<10	3	52
45	64212	<0.2	0.65	<5	60	<5	1.40	1	3	101	102	1.72	<10	0.24	596	7	0.02	4	370	6	<5	<20	149	0.02	<10	14	<10	2	651
54	64221	<0.2	0.73	<5	110	<5	1.35	<1	5	70	21	1.88	<10	0.38	537	165	0.02	4	550	8	<5	<20	183	0.05	<10	24	<10	2	85
71	64238	<0.2	0.82	<5	70	<5	1.56	<1	4	144	80	2.17	<10	0.22	815	9	0.03	6	620	10	<5	<20	101	0.01	<10	12	<10	3	140
80	64247	0.6	1.03	<5	90	<5	1.21	<1	4	151	337	2.53	<10	0.30	389	16	0.02	5	510	20	<5	<20	142	0.02	<10	16	<10	3	171
89	64256	<0.2	0.90	<5	170	<5	0.73	<1	6	188	72	2.27	<10	0.43	503	45	0.05	5	600	10	<5	<20	57	0.11	<10	31	<10	3	76
Standard:																													
GEO'96		1.0	1.86	70	155	<5	1.95	<1	20	67	78	4.33	<10	0.99	736	<1	0.02	24	750	18	<5	<20	65	0.15	<10	84	<10	4	76
GEO'96		1.2	1.69	70	155	<5	1.93	<1	19	65	74	4.27	<10	0.93	723	<1	0.01	20	780	18	<5	<20	61	0.12	<10	77	<10	4	74
GEO'96		1.2	2.02	65	170	<5	1.96	<1	23	66	78	4.04	<10	1.03	710	<1	0.02	20	720	22	<5	<20	62	0.17	<10	82	<10	4	72

dl/939
XLS/96KMISC#7

ECO-TECH LABORATORIES LTD.
per Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

08/27/96 14:19 604 573 4557

m-95-2 / m-96-4

ALMADEN RESOURCES — ICP CERTIFICATE OF ANALYSIS AK 96-888 — ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
61	82042	5	1.0	1.05	<5	70	<5	0.62	<1	6	106	423	3.26	<10	0.44	415	226	0.02	6	650	12	<5	<20	229	0.04	<10	24	<10	1	166
62	82043	5	<0.2	0.84	<5	105	<5	0.83	2	5	112	70	2.72	<10	0.36	339	47	0.03	4	530	6	<5	<20	82	0.05	<10	21	<10	<1	648
63	82044	5	0.2	0.81	<5	55	<5	0.58	<1	6	105	119	2.94	<10	0.37	364	29	0.03	4	570	8	<5	<20	90	0.06	<10	23	<10	<1	224
64	82045	5	1.6	1.02	<5	80	<5	0.61	<1	5	128	572	3.27	<10	0.36	357	39	0.03	4	570	16	<5	<20	176	0.03	<10	23	<10	<1	227
65	82046	5	1.0	0.86	<5	65	<5	0.67	<1	5	93	497	3.21	<10	0.31	377	81	0.02	3	670	14	<5	<20	115	0.04	<10	20	<10	2	338
66	82047	5	17.6	0.74	<5	30	<5	0.59	12	7	125	446	4.74	<10	0.21	483	58	0.01	4	470	192	<5	<20	98	0.02	<10	12	<10	<1	5180
67	82048	5	1.2	0.81	<5	50	<5	0.67	<1	6	102	486	3.22	<10	0.28	400	6	0.02	4	530	12	<5	<20	173	0.02	<10	14	<10	1	178
68	82049	5	0.6	0.93	<5	60	<5	1.43	<1	5	149	68	2.91	<10	0.32	759	17	0.02	5	470	38	<5	<20	309	0.02	<10	17	<10	3	176
69	82050	5	0.2	0.85	<5	65	<5	0.79	<1	5	82	90	2.99	<10	0.34	380	169	0.02	4	470	22	<5	<20	207	0.03	<10	18	<10	2	121
70	82751	5	0.6	0.82	<5	100	<5	0.64	1	5	119	68	2.52	<10	0.31	442	35	0.03	4	500	10	<5	<20	124	0.04	<10	16	<10	2	447
71	82752	5	<0.2	0.86	<5	105	<5	0.77	<1	5	122	77	2.26	<10	0.35	416	109	0.02	4	510	10	<5	<20	198	0.05	<10	20	<10	1	208
72	82753	5	0.6	0.81	<5	75	<5	0.79	<1	6	91	210	3.14	<10	0.30	364	8	0.01	4	540	12	<5	<20	148	0.04	<10	18	<10	<1	130
73	82754	5	0.2	0.94	<5	105	<5	0.65	<1	6	144	192	2.88	<10	0.42	420	16	0.03	6	580	8	<5	<20	131	0.06	<10	28	<10	<1	95
74	82755	5	1.0	0.83	<5	65	<5	0.44	<1	5	92	177	3.28	<10	0.29	400	47	0.01	4	520	10	<5	<20	76	0.03	<10	16	<10	<1	141
75	82756	5	0.6	0.76	<5	55	<5	0.40	<1	3	132	146	3.16	<10	0.21	262	16	0.02	4	460	10	<5	<20	76	0.02	<10	13	<10	<1	210
76	82757	5	0.6	0.81	<5	60	<5	0.44	<1	4	94	246	3.46	<10	0.25	293	28	0.02	4	500	10	<5	<20	73	0.02	<10	14	<10	<1	450
77	82758	5	0.4	0.95	<5	95	5	0.53	<1	4	146	91	3.05	<10	0.34	325	9	0.03	4	510	8	<5	<20	100	0.04	<10	21	<10	<1	283
78	84151	5	<0.2	0.93	<5	175	<5	0.71	<1	5	136	10	1.97	<10	0.48	585	5	0.03	4	540	18	<5	<20	38	0.05	<10	26	<10	1	251
79	84152	5	0.2	0.80	<5	135	<5	1.23	1	3	112	13	2.34	<10	0.29	1162	254	<0.01	4	510	58	<5	<20	76	<0.01	<10	9	<10	2	578
80	84153	5	0.6	0.74	<5	65	<5	1.83	2	3	135	38	1.69	<10	0.28	1322	19	0.01	4	460	22	<5	<20	86	<0.01	<10	11	<10	2	983
81	84154	10	0.6	0.77	<5	105	<5	1.16	1	4	137	120	1.73	<10	0.35	805	9	0.02	4	500	24	<5	<20	70	0.03	<10	16	<10	2	512
82	84155	5	0.6	0.83	<5	90	<5	1.29	1	5	106	46	1.96	<10	0.36	1222	33	0.02	4	490	40	<5	<20	83	0.03	<10	16	<10	2	447
83	84156	5	0.4	0.73	<5	105	<5	1.12	<1	4	154	20	1.82	<10	0.36	865	94	0.03	4	460	6	<5	<20	93	0.03	<10	19	<10	2	88
84	84157	5	<0.2	0.79	<5	100	<5	0.99	<1	4	90	13	1.83	<10	0.42	665	76	0.02	3	510	10	<5	<20	146	0.04	<10	20	<10	2	53
85	84158	5	1.0	0.81	<5	60	<5	0.81	2	4	131	16	3.37	<10	0.38	6270	44	<0.01	4	460	54	<5	<20	70	0.02	<10	11	<10	<1	922
86	84159	5	2.0	0.88	<5	125	<5	0.42	3	4	111	49	3.07	<10	0.39	3340	4	<0.01	4	480	126	<5	<20	64	<0.01	<10	9	<10	<1	1376
87	84160	5	1.8	0.89	<5	75	10	1.11	4	4	150	314	2.27	<10	0.34	796	12	0.02	5	470	28	<5	<20	98	0.02	<10	18	<10	1	2041
88	84161	5	0.2	0.86	<5	130	15	1.04	<1	5	91	51	1.78	<10	0.43	892	54	0.02	5	510	10	<5	<20	145	0.05	<10	24	<10	3	244
89	84162	5	0.4	0.80	<5	65	<5	1.54	<1	5	110	99	1.75	<10	0.32	759	17	0.01	4	480	10	<5	<20	165	0.02	<10	17	<10	3	289
90	84163	5	0.4	0.94	<5	80	<5	2.37	<1	4	105	184	1.65	<10	0.39	709	127	0.01	4	440	18	<5	<20	253	0.02	<10	16	<10	3	176
91	84164	5	0.6	0.66	<5	45	<5	3.02	<1	4	100	45	2.21	<10	0.24	1088	127	0.01	3	480	22	<5	<20	158	<0.01	<10	7	<10	3	246
92	84165	5	0.8	0.73	<5	80	<5	1.61	2	4	115	197	1.68	<10	0.20	688	8	0.01	4	480	26	<5	<20	120	<0.01	<10	8	<10	2	1040
93	84166	6	2.4	0.97	<5	85	<5	2.13	5	4	141	619	2.16	<10	0.33	954	43	0.01	4	490	58	<5	<20	187	<0.01	<10	12	<10	1	2550
94	84167	5	0.8	0.74	<5	75	<5	1.60	1	5	105	89	1.97	<10	0.28	774	18	0.02	4	530	18	<5	<20	98	0.02	<10	14	<10	2	585
95	No Identification	5	1.6	0.90	<5	55	<5	0.47	3	4	124	804	3.40	<10	0.16	284	447	<0.01	3	640	14	<5	<20	38	<0.01	<10	9	<10	<1	1158

m-96-4

ALMADEN RESOURCES — ICP CERTIFICATE OF ANALYSIS AK 96-888 — ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
QC/DATA:																														
Resplit:																														
R/S 1	64001 m96-3	5	0.8	1.01	<5	95	<5	0.75	<1	6	136	117	2.84	<10	0.45	495	80	0.02	6	540	10	<5	<20	30	0.03	<10	27	<10	1	232
R/S 36	82017 m96-2	5	<0.2	0.83	<5	100	<5	0.72	1	6	99	73	2.57	<10	0.43	457	47	0.03	4	650	6	<5	<20	82	0.08	<10	29	<10	1	587
R/S 71	82752	5	<0.2	0.84	<5	90	<5	0.77	<1	5	115	70	2.28	<10	0.34	418	74	0.02	5	510	10	<5	<20	180	0.05	<10	20	<10	1	254
Repeat:																														
1	64001 m96-3	5	0.4	0.98	<5	110	<5	0.76	<1	6	106	105	2.72	<10	0.45	494	73	0.02	5	540	8	<5	<20	28	0.03	<10	27	<10	<1	215
10	64011	5	0.4	0.91	<5	80	<5	1.38	<1	4	105	96	2.47	<10	0.30	846	188	0.02	4	450	12	<5	<20	50	0.02	<10	16	<10	2	150
19	64020	6	3.2	0.74	<5	50	<5	0.56	5	5	146	288	3.42	<10	0.16	457	433	0.01	6	350	82	<5	<20	50	0.01	<10	9	<10	<1	2589
36	82017 m96-2	5	<0.2	0.85	<5	100	<5	0.73	2	6	100	72	2.60	<10	0.41	454	22	0.04	4	630	6	<5	<20	80	0.08	<10	27	<10	<1	597
45	82026	5	<0.2	0.82	<5	130	<5	0.61	<1	6	106	53	2.13	<10	0.45	414	112	0.05	4	570	8	<5	<20	130	0.10	<10	30	<10	1	62
54	82035 m96-1	6	5.6	0.61	<5	30	<5	1.08	12	5	95	479	4.16	<10	0.12	552	28	<0.01	3	610	558	<5	<20	78	<0.01	<10	4	<10	<1	5316
71	82752	5	<0.2	0.83	<5	105	<5	0.76	<1	5	120	74	2.23	<10	0.35	415	106	0.02	4	510	10	<5	<20	191	0.06	<10	20	<10	1	206
80	64153 m96-4	5	0.8	0.73	<5	70	<5	1.86	2	4	139	38	1.71	<10	0.29	1338	19	0.01	3	470	24	<5	<20	89	<0.01	<10	11	<10	3	1007
89	64162	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard:																														
GEO'96		145	1.0	1.78	55	160	<5	1.76	<1	19	63	80	3.97	<10	0.97	691	<1	0.02	25	690	24	<5	<20	59	0.12	<10	78	<10	2	66
GEO'96		140	1.4	1.79	45	155	<5	1.77	<1	18	62	83	4.02	<10	0.96	698	<1	0.02	25	720	24	<5	<20	60	0.12	<10	80	<10	2	67
GEO'96		145	1.4	1.78	45	155	<5	1.78	<1	18	62	79	3.99	<10	0.98	690	<1	0.02	25	700	24	<5	<20	61	0.12	<10	79	<10	2	68

d/888
XLS/96kmisc6

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

ALMADEN RESOURCES CORPORATION — ICP CERTIFICATE OF ANALYSIS AK 96-967 — ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
96	64123	4.6	1.00	5	60	<5	0.70	3	5	139	678	3.08	<10	0.23	455	18	0.01	5	480	288	<5	<20	111	0.01	<10	14	<10	<1	1380
97	64124	1.0	1.01	<5	55	<5	0.77	<1	5	122	240	3.07	<10	0.31	452	86	0.02	4	490	14	<5	<20	111	0.02	<10	18	<10	<1	390
98	64125	1.4	0.92	<5	55	<5	0.60	1	6	142	342	3.22	<10	0.29	383	51	0.02	5	500	16	<5	<20	91	0.03	<10	19	<10	<1	1035
99	64126	2.2	1.14	<5	75	<5	0.74	<1	6	142	803	3.16	<10	0.38	439	20	0.02	4	520	48	<5	<20	182	0.03	<10	22	<10	<1	364
100	64127	1.0	0.98	<5	80	<5	0.70	<1	6	115	277	2.95	<10	0.37	431	39	0.02	5	520	14	<5	<20	116	0.04	<10	22	<10	<1	312
101	64128	1.0	1.14	<5	85	<5	0.77	1	4	114	220	2.63	<10	0.38	495	37	0.02	4	540	16	<5	<20	136	0.03	<10	21	<10	<1	974
102	64129	15.2	0.97	<5	40	<5	0.57	2	5	118	1120	4.29	<10	0.16	456	143	<0.01	5	470	312	<5	<20	48	<0.01	40	9	<10	<1	880
103	64130	1.0	1.15	<5	75	<5	0.73	<1	6	103	175	3.63	<10	0.35	446	47	0.02	4	520	16	<5	<20	67	0.03	<10	19	<10	<1	411
104	64260	0.6	0.85	<5	140	<5	0.64	<1	6	128	38	2.13	<10	0.48	432	20	0.04	5	570	6	<5	<20	47	0.09	10	31	<10	2	203
105	64261	1.0	0.85	<5	80	<5	0.67	<1	5	116	318	3.14	<10	0.31	350	67	0.03	3	490	10	<5	<20	36	0.03	10	18	<10	1	441
106	64262	<0.2	0.86	<5	150	<5	0.59	<1	6	147	37	2.07	<10	0.49	458	41	0.05	5	550	8	<5	<20	57	0.09	<10	32	<10	3	157
107	64263	0.8	0.80	<5	95	<5	0.79	<1	5	128	123	2.24	<10	0.37	473	9	0.03	4	540	14	<5	<20	67	0.04	<10	23	<10	2	104
108	64264	1.6	0.81	<5	145	<5	0.87	<1	5	119	257	2.34	<10	0.33	512	215	0.03	5	500	20	<5	<20	68	0.03	<10	17	50	1	150
109	64265	0.4	0.83	<5	95	<5	0.61	<1	6	145	60	2.53	<10	0.44	411	35	0.04	5	500	8	<5	<20	63	0.07	<10	28	<10	1	91
110	64266	0.6	0.84	<5	100	<5	0.68	<1	5	96	159	2.33	<10	0.44	407	40	0.03	5	520	10	<5	<20	42	0.06	<10	26	<10	2	354
111	64267	<0.2	0.82	<5	120	<5	0.67	<1	6	128	80	2.19	<10	0.47	437	31	0.04	5	540	8	<5	<20	42	0.08	<10	29	<10	2	82
112	64268	0.4	0.72	<5	95	<5	0.90	<1	5	107	88	2.04	<10	0.33	415	15	0.04	3	520	8	<5	<20	47	0.04	<10	22	<10	2	66
113	64269	0.4	0.75	<5	110	<5	0.67	<1	6	129	105	2.16	<10	0.40	398	100	0.04	4	520	8	<5	<20	42	0.07	<10	27	<10	2	49
114	64270	0.2	0.74	<5	70	<5	0.80	<1	5	109	64	2.49	<10	0.33	313	73	0.03	4	520	10	<5	<20	41	0.03	<10	21	<10	2	85
115	64271	<0.2	0.79	<5	135	<5	0.68	<1	6	133	26	2.09	<10	0.45	405	52	0.04	5	520	8	<5	<20	49	0.08	<10	28	<10	3	51

13-Sep-96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax : 604-573-4557

ICP CERTIFICATE OF ANALYSIS AK 96-1022

ALMADEN RESOURCES
2020-1055 WEST HASTINGS STREET
VANCOUVER,B.C.
V6E 2E9

ATTENTION: DWAYNE POLIQUIN

No. of samples received: 97
Sample type: CORE
PROJECT: # MUNRO
SHIPMENT: # NONE GIVEN
Samples submitted by: H.LEO KING

M-96-3

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	64131	1.8	0.79	<5	25	<5	0.27	<1	6	102	672	4.28	<10	0.19	270	13	<0.01	3	450	22	<5	<20	36	0.01	<10	12	<10	<1	285
2	64132	4.6	0.97	<5	30	<5	0.55	1	5	105	410	3.79	<10	0.26	662	37	0.01	3	440	108	<5	<20	81	0.01	<10	14	<10	<1	979
3	64133	3.8	0.95	<5	35	<5	1.01	3	6	119	501	3.72	<10	0.26	1261	31	0.01	4	500	58	<5	<20	94	0.01	<10	12	<10	<1	1821
4	64134	4.6	0.86	<5	30	<5	0.44	2	5	116	616	4.04	<10	0.20	627	21	0.01	2	470	194	<5	<20	52	0.01	<10	13	<10	<1	995
5	64135	11.0	0.79	<5	25	<5	0.60	4	6	98	668	3.69	<10	0.21	726	29	0.01	3	490	194	<5	<20	52	0.01	<10	13	<10	<1	2335
6	64136	2.0	0.86	<5	35	<5	0.71	<1	5	93	283	2.92	<10	0.30	665	17	0.01	3	460	12	<5	<20	77	0.02	<10	16	<10	<1	427
7	64137	2.0	0.74	<5	35	<5	1.44	<1	5	93	402	2.88	<10	0.20	1082	15	0.01	3	460	120	<5	<20	122	<0.01	<10	10	<10	2	582
8	64138	3.4	0.87	<5	35	<5	1.30	2	6	138	501	3.61	<10	0.22	1020	46	0.01	4	540	266	<5	<20	81	<0.01	<10	13	<10	<1	1320
9	64139	2.8	0.91	<5	40	<5	1.03	<1	6	121	363	3.75	<10	0.25	869	36	<0.01	6	540	108	<5	<20	69	<0.01	<10	13	<10	<1	719
10	64140	1.4	0.69	<5	45	<5	3.72	3	4	112	104	2.20	<10	0.22	3103	6	<0.01	3	650	224	<5	<20	139	<0.01	<10	9	<10	3	962
11	64141	2.0	0.60	<5	25	<5	7.05	11	4	134	78	2.50	<10	0.28	10000	45	<0.01	3	530	816	<5	<20	138	0.02	<10	5	<10	2	1739
12	64142	18.0	0.77	<5	35	<5	5.82	28	7	73	314	7.70	<10	0.56	10000	21	<0.01	3	210	306	<5	<20	102	0.08	<10	7	<10	<1	>10000
13	64143	23.2	0.63	<5	25	5	2.35	20	6	106	205	4.15	<10	0.25	5642	96	<0.01	1	400	28	<5	<20	55	0.01	<10	4	<10	<1	>10000
14	64144	12.2	0.81	<5	30	20	2.03	5	7	126	201	4.98	<10	0.29	5908	911	<0.01	4	480	42	<5	<20	42	0.01	<10	4	<10	<1	3182
15	64145	7.2	0.63	<5	25	<5	1.02	2	5	95	393	3.78	<10	0.18	2535	36	<0.01	3	460	16	<5	<20	28	<0.01	<10	3	<10	<1	2158
16	64146	19.6	0.69	<5	25	<5	2.15	7	7	117	785	5.09	<10	0.21	2553	61	<0.01	4	430	40	<5	<20	60	<0.01	<10	4	<10	<1	4046
17	64147	11.6	0.89	<5	30	<5	2.57	13	5	86	304	3.90	<10	0.36	3377	22	<0.01	2	380	40	<5	<20	106	0.01	<10	8	<10	<1	5642
18	64148	1.2	1.09	<5	45	<5	0.76	<1	4	54	243	2.34	<10	0.43	646	13	0.01	1	390	22	<5	<20	159	0.02	<10	17	<10	<1	168
19	64149	2.0	0.74	<5	25	<5	0.89	<1	4	88	633	3.01	<10	0.22	595	35	<0.01	3	450	28	<5	<20	84	<0.01	<10	8	<10	<1	518
20	64150	2.6	0.59	<5	25	<5	0.74	<1	4	116	789	3.68	<10	0.10	385	142	<0.01	3	370	20	<5	<20	22	<0.01	<10	3	<10	<1	534
21	64301	<0.2	0.74	<5	145	<5	0.71	<1	6	115	15	1.79	<10	0.45	513	2	0.03	4	510	<2	<5	<20	17	0.09	<10	28	<10	3	374
22	64302	<0.2	0.63	<5	100	<5	1.08	<1	4	97	61	1.55	<10	0.37	586	3	0.02	3	450	<2	<5	<20	21	0.05	<10	22	<10	2	148
23	64303	<0.2	0.72	<5	120	<5	0.86	<1	5	104	33	1.71	<10	0.44	570	14	0.03	3	510	<2	<5	<20	22	0.06	<10	27	<10	3	391
24	64304	<0.2	0.77	<5	110	<5	1.26	<1	5	125	15	1.79	<10	0.45	706	4	0.03	4	540	<2	<5	<20	31	0.05	<10	27	<10	4	248
25	64305	<0.2	0.78	<5	110	<5	1.21	<1	5	122	24	1.81	<10	0.44	734	16	0.03	3	490	<2	<5	<20	33	0.04	<10	24	<10	3	416

M96-5

ALMADEN RESOURCES

ICP CERTIFICATE OF ANALYSIS AK 96-1022

m-96-5

ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
26	64306	0.2	0.68	<5	85	<5	1.36	<1	5	120	31	1.68	<10	0.36	670	702	0.02	4	530	6	<5	<20	34	0.02	<10	18	<10	3	236
27	64307	<0.2	0.64	<5	85	<5	1.48	<1	5	109	16	1.68	<10	0.36	688	467	0.02	3	550	4	<5	<20	32	0.03	<10	19	<10	2	186
28	64308	<0.2	0.75	<5	155	<5	1.07	1	5	112	49	1.85	<10	0.45	657	7	0.03	3	550	<2	<5	<20	29	0.07	<10	28	<10	3	1014
29	64309	<0.2	0.82	<5	125	<5	1.00	<1	6	112	15	1.91	<10	0.49	578	176	0.03	4	570	<2	<5	<20	35	0.07	<10	30	<10	3	61
30	64310	<0.2	0.73	<5	110	<5	1.03	<1	5	115	140	1.78	<10	0.42	592	4	0.03	4	550	<2	<5	<20	32	0.06	<10	26	<10	2	936
31	64311	<0.2	0.75	<5	120	<5	0.89	<1	6	136	72	1.94	<10	0.45	580	38	0.03	4	540	<2	<5	<20	23	0.07	<10	29	<10	2	565
32	64312	<0.2	0.71	<5	115	<5	0.97	<1	6	112	20	1.83	<10	0.44	555	10	0.03	4	530	2	<5	<20	28	0.07	<10	26	<10	2	170
33	64313	<0.2	0.66	<5	80	<5	1.32	<1	5	128	17	1.70	<10	0.39	599	4	0.03	3	540	2	<5	<20	36	0.03	<10	20	<10	2	104
34	64314	<0.2	0.80	<5	255	<5	0.80	<1	6	142	14	2.00	<10	0.48	504	3	0.04	5	570	2	<5	<20	36	0.07	<10	30	<10	3	114
35	64315	<0.2	0.80	<5	160	<5	0.82	<1	6	153	22	2.00	<10	0.47	540	146	0.04	4	560	4	<5	<20	38	0.07	<10	31	<10	3	52
36	64316	<0.2	0.75	<5	90	<5	1.59	2	5	107	80	1.89	<10	0.39	689	4	0.02	4	630	4	<5	<20	50	0.04	<10	24	<10	3	1005
37	64317	3.4	0.73	<5	75	<5	1.58	6	5	138	380	2.03	<10	0.33	729	44	0.02	4	630	18	<5	<20	46	0.03	<10	20	<10	2	3172
38	64318	<0.2	0.75	<5	130	<5	1.30	<1	6	105	43	1.90	<10	0.43	709	35	0.03	4	580	4	<5	<20	45	0.06	<10	26	<10	2	399
39	64319	<0.2	0.82	<5	230	<5	0.67	<1	6	112	13	2.07	<10	0.54	532	2	0.04	4	600	2	<5	<20	35	0.11	<10	36	<10	2	44
40	64320	<0.2	0.73	<5	135	<5	0.64	<1	6	117	15	1.88	<10	0.46	482	4	0.04	4	510	<2	<5	<20	28	0.10	<10	31	<10	2	142
41	64321	0.2	0.77	<5	90	<5	1.00	<1	6	137	90	2.15	<10	0.42	530	24	0.03	4	550	4	<5	<20	43	0.05	<10	26	<10	2	65
42	64322	<0.2	0.91	<5	105	<5	1.16	<1	6	165	44	2.29	<10	0.49	622	3	0.03	5	670	6	<5	<20	55	0.04	<10	28	<10	3	975
43	64323	<0.2	0.88	<5	115	<5	1.21	<1	6	153	28	2.08	<10	0.48	605	6	0.03	5	660	4	<5	<20	61	0.04	<10	28	<10	3	755
44	64324	<0.2	0.78	<5	155	<5	1.00	<1	6	131	14	2.06	<10	0.47	588	2	0.03	4	640	4	<5	<20	42	0.07	<10	30	<10	3	109
45	64325	<0.2	0.73	<5	250	<5	1.28	<1	6	118	15	1.99	<10	0.43	687	27	0.02	4	610	4	<5	<20	36	0.06	<10	28	<10	3	162
46	64326	<0.2	0.77	<5	75	<5	1.67	<1	6	125	15	1.96	<10	0.35	1107	4	0.02	4	660	4	<5	<20	109	0.02	<10	19	<10	2	60
47	64327	5.2	0.59	<5	80	10	2.29	1	5	150	362	2.26	<10	0.34	2156	29	0.01	3	570	48	<5	<20	89	0.01	<10	10	<10	2	1158
48	64328	5.0	0.68	<5	35	<5	0.97	6	6	130	254	4.24	<10	0.22	3150	9	<0.01	3	510	44	<5	<20	42	<0.01	<10	6	<10	<1	4092
49	64329	2.0	0.46	<5	40	<5	2.65	<1	5	163	48	2.36	<10	0.37	2311	45	0.01	3	660	20	<5	<20	57	<0.01	<10	6	<10	3	353
50	64330	1.0	0.30	<5	45	<5	2.59	<1	4	107	39	1.93	<10	0.36	2429	6	<0.01	1	530	10	<5	<20	44	<0.01	<10	3	<10	3	157
51	64331	0.4	0.31	<5	35	<5	2.75	<1	4	131	27	1.92	<10	0.36	2606	19	<0.01	3	580	4	<5	<20	56	<0.01	<10	3	<10	3	135
52	64332	1.0	0.33	<5	40	<5	2.61	1	5	126	31	2.41	<10	0.34	3447	7	<0.01	3	440	8	<5	<20	48	<0.01	<10	3	<10	3	1182
53	64333	2.8	0.34	<5	35	<5	2.66	3	5	142	60	3.05	<10	0.37	3488	89	<0.01	3	300	12	<5	<20	38	<0.01	<10	3	<10	<1	2557
54	64334	4.4	0.31	<5	45	10	4.83	10	7	108	112	4.86	<10	0.73	7844	16	<0.01	2	290	18	<5	<20	48	0.02	<10	4	<10	<1	6273
55	64335	0.4	0.38	<5	160	<5	2.98	<1	3	167	11	1.84	<10	0.31	2179	15	0.02	3	630	6	<5	<20	72	<0.01	<10	4	<10	4	89
56	64336	0.6	0.31	<5	285	<5	2.96	<1	3	121	23	1.59	<10	0.31	1893	7	0.01	4	480	6	<5	<20	84	<0.01	<10	4	<10	4	143
57	64337	0.4	0.34	<5	225	<5	2.75	<1	2	119	28	1.17	<10	0.20	1345	4	0.01	2	370	6	<5	<20	90	<0.01	<10	3	<10	3	154
58	64338	1.2	0.45	<5	130	<5	2.50	<1	4	156	22	1.68	<10	0.26	1580	4	0.02	3	500	12	<5	<20	84	<0.01	<10	4	<10	2	382
59	64339	0.4	0.46	<5	115	<5	2.83	<1	4	129	12	1.80	<10	0.35	2068	6	0.01	2	580	6	<5	<20	88	<0.01	<10	5	<10	3	469
60	64340	0.6	0.55	<5	40	<5	2.13	<1	4	123	43	1.83	<10	0.33	1274	60	0.01	2	550	6	<5	<20	101	<0.01	<10	9	<10	2	153

m 96-5

ALMADEN RESOURCES — ICP CERTIFICATE OF ANALYSIS AK 96-1022 — m-96-5 & m-96-3 — ECO-TECH LABORATORIES LTD.

Et #	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
61	64341	1.0	0.55	<5	35	<5	2.91	<1	4	102	34	1.84	<10	0.27	1853	18	0.01	2	640	8	<5	<20	134	<0.01	<10	5	<10	3	493
62	64342	0.8	0.40	<5	35	<5	2.39	<1	5	102	49	1.76	<10	0.27	1277	21	0.01	2	570	8	<5	<20	59	<0.01	<10	4	<10	3	449
63	64343	0.4	0.47	<5	150	<5	1.63	<1	3	105	64	1.44	<10	0.29	755	29	0.02	2	510	4	<5	<20	53	<0.01	<10	9	<10	2	46
64	64344	<0.2	0.56	<5	95	<5	1.39	<1	4	112	29	1.66	<10	0.33	753	5	0.02	3	520	<2	<5	<20	62	0.02	<10	13	<10	2	37
65	64345	<0.2	0.63	<5	130	<5	1.49	<1	5	120	22	1.83	<10	0.35	711	7	0.02	2	570	2	<5	<20	66	0.02	<10	16	<10	2	42
66	64346	0.2	0.68	<5	70	<5	1.64	<1	4	106	19	1.58	<10	0.32	777	4	0.02	4	540	4	<5	<20	100	0.01	<10	13	<10	2	68
67	64347	<0.2	0.55	<5	70	<5	1.81	<1	6	111	10	1.85	<10	0.35	781	11	0.02	3	570	4	<5	<20	73	0.01	<10	12	<10	3	46
68	64348	1.0	0.70	<5	60	<5	1.65	<1	5	108	123	2.85	<10	0.34	1436	6	0.01	3	620	12	<5	<20	67	<0.01	<10	7	<10	<1	670
69	64349	17.0	0.42	<5	70	<5	2.20	<1	3	151	37	1.36	<10	0.26	1374	26	0.02	5	450	8	<5	<20	79	<0.01	<10	5	<10	3	413
70	64350	0.4	0.69	<5	55	<5	1.86	<1	4	108	66	1.82	<10	0.33	1289	10	0.01	2	560	4	<5	<20	111	0.01	<10	11	<10	3	62
71	64351	1.4	0.66	<5	20	<5	0.14	<1	4	125	371	4.47	<10	0.10	154	16	<0.01	3	480	12	<5	<20	13	<0.01	20	4	<10	<1	207
72	64352	2.0	0.59	<5	30	<5	0.13	2	3	118	538	3.17	<10	0.08	113	7	<0.01	2	470	8	<5	<20	9	<0.01	20	3	<10	<1	1153
73	64353	4.0	0.53	<5	20	<5	0.11	<1	4	118	1395	3.71	<10	0.08	121	84	<0.01	3	360	8	<5	<20	12	<0.01	10	3	<10	<1	421
74	64354	3.2	0.62	<5	20	<5	0.51	<1	5	130	842	4.10	<10	0.15	272	14	<0.01	4	400	6	<5	<20	41	<0.01	10	9	<10	<1	171
75	64355	0.8	0.62	<5	20	<5	0.34	<1	5	95	402	3.77	<10	0.18	195	6	<0.01	2	400	2	<5	<20	26	0.01	20	11	<10	<1	63
76	64356	0.8	0.69	<5	25	<5	0.59	<1	6	128	319	3.84	<10	0.21	326	26	0.01	2	490	4	<5	<20	42	0.01	<10	14	<10	<1	375
77	64357	0.6	0.74	<5	25	<5	0.71	<1	5	102	388	3.00	<10	0.31	425	130	0.02	2	570	2	<5	<20	68	0.03	<10	19	<10	1	150
78	64358	2.4	0.66	<5	25	<5	0.55	<1	4	116	461	3.61	<10	0.17	339	80	<0.01	3	490	18	<5	<20	49	<0.01	<10	9	<10	<1	216
79	64359	3.2	0.61	<5	30	<5	0.42	<1	6	125	1526	4.22	<10	0.13	224	7	<0.01	4	570	14	<5	<20	25	<0.01	<10	8	<10	<1	455
80	64360	0.8	0.55	<5	30	<5	0.61	<1	4	137	342	3.03	<10	0.16	282	8	0.01	3	380	6	<5	<20	69	<0.01	<10	10	<10	<1	163
81	64361	0.4	0.45	<5	30	<5	0.52	<1	4	151	205	2.19	<10	0.14	211	1347	0.02	3	270	6	<5	<20	72	<0.01	<10	9	<10	<1	42
82	64362	1.2	0.39	<5	30	<5	0.44	1	3	147	659	2.49	<10	0.05	175	171	<0.01	3	230	4	<5	<20	27	<0.01	<10	4	<10	<1	649
83	64363	0.6	0.58	<5	45	<5	0.59	1	3	133	311	2.05	<10	0.19	297	8	0.02	3	310	6	<5	<20	62	0.01	<10	10	<10	<1	734
84	64364	0.6	0.51	<5	25	<5	0.52	<1	4	139	198	3.19	<10	0.15	278	193	0.02	4	240	<2	<5	<20	60	<0.01	<10	8	<10	<1	117
85	64365	0.4	0.69	<5	40	<5	0.69	<1	4	99	93	2.45	<10	0.23	382	38	0.02	3	450	<2	<5	<20	68	0.02	<10	10	<10	1	43
86	64366	14.2	0.65	<5	20	<5	0.40	<1	7	124	695	4.02	<10	0.18	268	10	0.01	3	490	10	<5	<20	29	0.02	<10	10	<10	<1	128
87	64367	0.6	0.66	<5	30	<5	0.44	<1	6	105	287	3.88	<10	0.17	296	6	0.01	4	480	<2	<5	<20	43	<0.01	<10	11	<10	<1	74
88	64368	0.4	0.53	<5	25	<5	0.40	<1	6	106	151	4.46	<10	0.14	251	36	0.01	2	380	4	<5	<20	22	0.01	<10	8	<10	<1	35
89	64369	1.2	0.53	<5	20	<5	0.39	<1	6	82	957	3.90	<10	0.17	211	52	<0.01	3	470	4	<5	<20	31	0.01	<10	11	<10	<1	52
90	64370	0.8	0.53	<5	30	<5	0.37	<1	4	114	644	3.26	<10	0.14	183	44	<0.01	2	450	2	<5	<20	17	<0.01	<10	10	<10	<1	39
91	64371	0.2	0.76	<5	50	<5	0.66	<1	6	114	212	2.46	<10	0.39	444	35	0.03	5	580	2	<5	<20	48	0.06	<10	25	<10	3	57
92	64451	<0.2	0.83	<5	55	<5	1.29	<1	3	109	16	1.66	<10	0.36	742	5	0.02	2	460	<2	<5	<20	133	<0.01	<10	13	<10	1	55
93	64452	0.6	0.63	<5	55	<5	1.33	<1	4	97	96	1.50	<10	0.23	667	69	0.02	3	480	6	<5	<20	70	<0.01	<10	8	<10	1	661
94	64453	<0.2	0.61	<5	50	<5	1.48	<1	3	97	13	1.43	<10	0.26	782	15	0.02	3	530	4	<5	<20	75	<0.01	<10	11	<10	2	48
95	64454	0.2	0.64	<5	85	<5	1.03	<1	4	117	64	1.64	<10	0.30	630	684	0.03	2	490	4	<5	<20	83	0.02	<10	14	<10	1	80

m-96-5

m-96-3

m-96-5

ALMADEN RESOURCES — ICP CERTIFICATE OF ANALYSIS AK 96-1022 — ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Tl %	U	V	W	Y	Zn
96	64455	0.2	0.55	<5	50	<5	1.29	<1	4	125	44	1.86	<10	0.24	882	886	0.02	3	450	4	<5	<20	56	0.01	<10	10	<10	1	47
97	64456	3.0	0.59	<5	40	<5	1.08	<1	4	103	252	2.51	<10	0.24	1929	53	<0.01	1	520	6	<5	<20	32	<0.01	<10	4	<10	<1	609
QC DATA:																													
Resplit:																													
R/S 1	64131	2.2	0.87	<5	35	<5	0.30	<1	7	119	722	4.80	<10	0.18	280	15	<0.01	4	470	28	<5	<20	31	0.01	<10	13	<10	<1	295
R/S 36	64316	<0.2	0.74	<5	90	<5	1.50	<1	5	103	87	1.75	<10	0.37	670	4	0.02	3	580	4	<5	<20	50	0.04	<10	23	<10	2	1009
R/S 71	64351	1.4	0.58	<5	20	<5	0.14	<1	5	110	360	4.75	<10	0.08	160	15	<0.01	5	500	16	<5	<20	10	<0.01	10	3	<10	<1	229
Repeat:																													
1	64131	2.2	0.87	<5	30	<5	0.30	<1	8	106	700	4.36	<10	0.19	280	15	<0.01	4	470	24	<5	<20	34	0.01	<10	13	<10	<1	290
10	64140	1.2	0.61	<5	40	<5	3.14	2	2	97	91	1.95	<10	0.19	3050	4	<0.01	2	590	210	<5	<20	140	<0.01	<10	7	<10	2	820
19	64149	2.1	0.80	<5	25	<5	0.92	<1	5	1	657	3.16	<10	0.25	620	40	<0.01	4	510	30	<5	<20	95	<0.01	<10	10	<10	<1	600
36	64316	<0.2	0.76	<5	90	<5	1.67	1	5	111	84	1.98	<10	0.40	716	5	0.02	5	660	2	<5	<20	55	0.04	<10	25	<10	3	1087
45	64325	<0.2	0.71	<5	230	<5	1.18	<1	5	107	15	1.81	<10	0.43	645	26	0.02	4	550	<2	<5	<20	38	0.05	<10	26	<10	3	147
54	64334	4.4	0.29	<5	40	10	4.51	10	6	99	103	4.50	<10	0.69	7320	13	<0.01	2	280	18	<5	<20	47	0.02	<10	4	<10	<1	6040
71	64351	1.2	0.61	<5	20	<5	0.13	<1	4	125	362	4.17	<10	0.08	140	12	<0.01	1	430	14	<5	<20	10	<0.01	20	3	<10	<1	205
80	64360	0.8	0.52	<5	25	<5	0.51	<1	3	120	311	2.85	<10	0.15	262	7	0.01	2	320	2	<5	<20	59	<0.01	<10	9	<10	<1	146
Standard:																													
GEO'96		1.4	1.79	65	150	<5	1.86	<1	15	64	75	3.83	<10	0.92	680	3	0.01	21	630	18	<5	<20	52	0.10	<10	70	<10	<1	68
GEO'96		1.2	1.84	60	155	<5	1.92	<1	20	66	70	4.42	<10	1.01	754	<1	0.02	21	780	18	<5	<20	55	0.13	<10	84	<10	4	66
GEO'96		1.2	1.83	70	150	<5	1.82	<1	17	64	76	3.76	<10	0.94	700	1	0.02	19	670	20	<5	<20	54	0.10	<10	79	<10	5	68

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ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

df/1022
XLS/96KMISC#8

25-Sep-96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax : 604-573-4557

ICP CERTIFICATE OF ANALYSIS AK 96-1062

ALMADEN RESOURCES
2020-1055 WEST HASTINGS STREET
VANCOUVER,B.C.
V6E 2E9

ATTENTION: DWAYNE POLIQUIN

No. of samples received: 80
Sample type: CORE
PROJECT: # NOT GIVEN
SHIPMENT: # NOT GIVEN
Samples submitted by: NOT GIVEN

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	64401	0.6	0.87	<5	125	<5	1.03	<1	7	107	70	2.36	<10	0.44	450	9	0.03	6	540	10	<5	<20	81	0.06	<10	29	<10	6	93
2	64402	0.6	0.83	<5	125	<5	0.94	<1	7	125	38	2.30	<10	0.46	455	5	0.04	7	560	6	<5	<20	68	0.07	<10	29	<10	6	61
3	64403	0.4	0.86	<5	130	5	0.91	<1	8	122	19	2.42	<10	0.50	461	3	0.04	5	590	8	<5	<20	67	0.10	<10	32	<10	7	67
4	64404	0.2	0.90	<5	145	5	0.93	<1	7	129	52	2.31	<10	0.53	518	4	0.05	5	610	4	<5	<20	92	0.09	<10	33	<10	7	58
5	64405	0.2	0.93	<5	160	<5	0.84	<1	7	145	57	2.53	<10	0.53	489	50	0.05	6	630	8	<5	<20	83	0.09	<10	34	<10	6	84
6	64406	<0.2	0.87	<5	75	5	0.71	<1	8	150	39	3.21	<10	0.50	461	65	0.05	5	610	6	<5	<20	69	0.10	<10	33	<10	5	89
7	64407	0.4	0.75	<5	90	<5	1.50	<1	5	122	65	2.48	<10	0.37	636	13	0.03	5	570	6	<5	<20	65	0.03	<10	17	<10	4	77
8	64408	0.4	0.75	<5	85	<5	1.68	<1	5	129	65	2.28	<10	0.37	800	13	0.03	5	600	8	<5	<20	67	0.02	<10	16	<10	4	114
9	64409	0.2	0.66	<5	140	<5	1.48	<1	5	122	30	2.22	<10	0.40	711	12	0.03	5	560	6	<5	<20	58	0.02	<10	19	<10	4	89
10	64410	0.4	0.81	<5	110	<5	2.01	1	5	129	45	2.65	<10	0.36	963	48	0.03	4	590	10	<5	<20	102	0.01	<10	15	<10	3	523
11	64411	<0.2	0.82	<5	110	<5	1.48	2	5	114	34	2.58	<10	0.40	690	10	0.03	4	590	6	<5	<20	68	0.02	<10	20	<10	3	868
12	64412	0.4	0.82	<5	90	<5	1.51	2	5	129	26	2.49	<10	0.40	738	8	0.03	5	630	12	<5	<20	75	0.02	<10	19	<10	3	923
13	64413	0.6	0.76	<5	130	5	1.61	<1	5	119	18	2.32	<10	0.41	685	13	0.03	4	570	8	<5	<20	73	0.03	<10	19	<10	3	427
14	64414	<0.2	0.81	<5	135	<5	1.34	<1	5	137	17	2.36	<10	0.42	642	7	0.04	4	590	4	<5	<20	61	0.03	<10	22	<10	3	224
15	64415	0.2	0.79	<5	80	<5	1.87	<1	4	111	28	2.40	<10	0.31	864	9	0.03	3	600	8	<5	<20	85	0.01	<10	13	<10	3	366
16	64416	<0.2	0.76	<5	85	<5	1.55	1	5	136	26	2.51	<10	0.36	722	7	0.03	4	590	16	<5	<20	77	0.02	<10	17	<10	3	645
17	64417	<0.2	0.91	<5	175	<5	1.15	<1	5	122	13	2.57	<10	0.45	591	11	0.03	5	600	4	<5	<20	85	0.04	<10	25	<10	4	176
18	64418	<0.2	0.95	<5	110	<5	0.98	<1	5	123	52	2.76	<10	0.42	522	8	0.03	4	610	6	<5	<20	78	0.03	<10	21	<10	3	268
19	64419	0.6	0.75	<5	110	<5	1.59	<1	5	113	83	2.19	<10	0.34	660	59	0.03	5	570	14	<5	<20	89	0.02	<10	14	<10	3	222
20	64420	0.2	0.62	<5	120	<5	1.50	<1	4	132	22	1.96	<10	0.29	578	28	0.03	4	530	6	<5	<20	72	0.02	<10	14	<10	3	100
21	64421	<0.2	0.71	<5	90	<5	1.67	<1	5	109	21	2.09	<10	0.36	629	14	0.03	5	610	6	<5	<20	89	0.02	<10	17	<10	3	85
22	64422	<0.2	0.82	<5	90	<5	1.56	<1	5	129	13	2.16	<10	0.44	631	9	0.03	4	610	4	<5	<20	97	0.02	<10	21	<10	3	71
23	64423	1.0	0.76	<5	65	<5	2.04	<1	5	110	399	2.42	<10	0.26	883	7	0.02	4	620	18	<5	<20	102	0.01	<10	13	<10	3	325
24	64424	2.4	0.68	<5	60	<5	2.48	2	4	125	553	2.23	<10	0.25	1272	7	0.02	4	580	110	<5	<20	103	<0.01	<10	8	<10	3	916
25	64425	4.4	0.83	<5	70	<5	1.45	1	5	115	1042	2.89	<10	0.29	784	7	0.02	4	610	48	<5	<20	88	0.01	<10	14	<10	3	625

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ALMADEN RESOURCES

ICP CERTIFICATE OF ANALYSIS AK 96-1062

ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
26	64426	0.4	0.82	<5	345	<5	1.08	<1	5	140	165	2.41	<10	0.45	600	13	0.04	5	590	16	<5	<20	76	0.07	<10	27	<10	4	180
27	64427	<0.2	0.84	<5	315	<5	0.95	<1	5	128	95	2.43	<10	0.48	561	6	0.04	5	590	10	<5	<20	74	0.07	<10	30	<10	4	123
28	64428	<0.2	0.80	<5	165	<5	1.18	<1	5	141	44	2.23	<10	0.45	562	10	0.04	5	580	6	<5	<20	82	0.06	<10	26	<10	4	86
29	64429	<0.2	0.81	<5	135	<5	1.44	<1	5	125	28	2.14	<10	0.42	639	8	0.03	5	580	6	<5	<20	106	0.04	<10	23	<10	4	87
30	64430	<0.2	0.91	<5	135	<5	1.09	<1	5	141	18	2.35	<10	0.46	521	7	0.04	5	600	6	<5	<20	136	0.05	<10	28	<10	4	78
31	64431	<0.2	0.80	<5	470	<5	1.10	<1	4	139	14	2.21	<10	0.46	542	5	0.04	5	560	6	<5	<20	93	0.05	<10	27	<10	4	63
32	64432	<0.2	0.82	<5	255	<5	1.08	<1	5	133	10	2.25	<10	0.48	508	13	0.04	5	570	4	<5	<20	109	0.05	<10	28	<10	4	61
33	64433	<0.2	0.80	<5	110	<5	1.52	<1	5	118	6	2.29	<10	0.39	531	5	0.03	4	580	8	<5	<20	115	0.02	<10	20	<10	3	68
34	64434	<0.2	0.78	<5	180	<5	1.21	<1	5	128	8	2.31	<10	0.42	513	9	0.04	4	580	6	<5	<20	87	0.04	<10	24	<10	3	70
35	64435	<0.2	0.84	<5	230	<5	1.53	<1	4	131	4	2.22	<10	0.38	506	6	0.03	4	560	4	<5	<20	173	0.04	<10	24	<10	4	66
36	64436	0.8	0.69	<5	90	<5	1.94	<1	4	124	120	1.83	<10	0.31	636	20	0.03	10	510	10	<5	<20	149	0.03	<10	20	<10	4	59
37	64457	7.2	0.68	<5	50	<5	0.90	5	7	111	1694	5.45	<10	0.20	1192	48	<0.01	5	510	24	<5	<20	58	0.01	<10	9	<10	<1	2905
38	64458	2.4	0.80	<5	65	<5	1.20	1	5	100	700	3.01	<10	0.30	880	13	0.01	4	610	14	<5	<20	121	0.01	<10	11	<10	2	514
39	64459	2.4	0.96	<5	65	<5	1.24	1	5	122	521	3.02	<10	0.45	737	10	0.01	4	590	16	<5	<20	140	0.01	<10	10	<10	2	933
40	64460	2.0	0.88	<5	65	<5	1.45	<1	4	122	467	2.62	<10	0.39	801	9	<0.01	3	630	16	<5	<20	137	<0.01	<10	8	<10	2	378
41	64461	1.8	0.98	<5	60	<5	2.05	<1	4	120	362	2.49	<10	0.52	1345	8	0.01	4	630	14	<5	<20	208	<0.01	<10	7	<10	3	238
42	64462	9.0	0.73	<5	45	<5	4.94	<1	4	109	872	2.71	<10	0.39	2684	30	<0.01	3	540	44	<5	<20	204	<0.01	<10	4	<10	3	214
43	64463	19.0	0.54	<5	40	<5	3.12	<1	5	143	1531	3.03	<10	0.19	2119	203	<0.01	4	520	70	<5	<20	143	<0.01	<10	4	<10	2	213
44	64464	7.4	0.52	<5	35	<5	0.93	<1	5	136	650	3.85	<10	0.11	603	42	<0.01	4	560	26	<5	<20	57	<0.01	<10	3	<10	<1	116
45	64465	11.6	0.60	<5	40	<5	0.87	<1	5	131	910	3.58	<10	0.13	594	41	<0.01	4	610	38	<5	<20	56	<0.01	<10	5	<10	<1	104
46	64466	2.8	0.72	<5	55	<5	1.43	<1	5	114	292	3.05	<10	0.25	1015	39	0.01	4	620	14	<5	<20	116	0.01	<10	10	<10	2	95
47	64467	1.8	0.75	<5	100	<5	1.58	<1	5	121	256	2.63	<10	0.33	819	173	0.02	4	620	14	<5	<20	106	0.03	<10	18	<10	2	95
48	64468	1.6	0.81	<5	95	<5	1.38	<1	5	115	251	2.58	<10	0.37	803	134	0.02	5	650	10	<5	<20	140	0.03	<10	20	<10	3	99
49	64469	0.4	0.82	<5	120	<5	1.41	<1	5	137	88	2.44	<10	0.41	681	112	0.03	4	630	8	<5	<20	139	0.04	<10	23	<10	3	70
50	64470	0.4	0.74	<5	90	<5	1.73	<1	5	119	64	2.38	<10	0.36	648	79	0.03	5	640	6	<5	<20	83	0.02	<10	17	<10	2	83
51	64471	0.4	0.69	<5	80	<5	1.85	<1	5	113	49	2.34	<10	0.34	684	262	0.03	4	640	8	<5	<20	87	0.02	<10	15	<10	3	86
52	64472	0.4	0.65	<5	90	<5	1.99	<1	5	101	45	2.21	<10	0.33	795	38	0.02	4	640	8	<5	<20	87	0.02	<10	16	<10	2	84
53	64473	<0.2	0.74	<5	135	<5	1.45	<1	5	123	29	2.32	<10	0.41	673	24	0.03	4	640	6	<5	<20	87	0.05	<10	23	<10	3	72
54	64474	0.8	0.79	<5	145	<5	1.23	<1	5	123	100	2.42	<10	0.41	680	11	0.03	5	620	8	<5	<20	114	0.06	<10	26	<10	3	69
55	64475	0.6	0.82	<5	135	<5	0.95	<1	6	117	126	2.70	<10	0.45	643	52	0.03	5	660	12	<5	<20	93	0.08	<10	29	<10	3	254
56	64476	0.4	0.80	<5	140	<5	1.13	<1	6	118	111	2.67	<10	0.43	632	23	0.03	4	620	10	<5	<20	90	0.08	<10	28	<10	3	92
57	64477	<0.2	0.79	<5	240	<5	0.80	<1	5	134	46	2.40	<10	0.45	549	9	0.04	4	630	10	<5	<20	89	0.09	<10	31	<10	3	80
58	64478	0.4	0.80	<5	105	<5	1.09	<1	5	115	85	2.85	<10	0.40	641	13	0.03	5	670	8	<5	<20	113	0.05	<10	25	<10	2	93
59	64479	<0.2	0.76	<5	160	<5	1.08	<1	5	127	41	2.34	<10	0.39	627	12	0.03	5	620	10	<5	<20	105	0.05	<10	24	<10	3	77
60	64480	0.4	0.76	<5	110	<5	1.43	<1	5	115	102	2.34	<10	0.35	750	19	0.03	4	650	12	<5	<20	118	0.03	<10	20	<10	3	142

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ALMADEN RESOURCES

ICP CERTIFICATE OF ANALYSIS AK 96-1062

ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
61	64481	0.4	0.79	<5	105	<5	1.15	<1	5	124	158	2.77	<10	0.39	596	11	0.02	5	660	10	<5	<20	111	0.05	<10	25	<10	3	165
62	64482	<0.2	0.83	<5	150	<5	1.07	<1	6	118	106	2.57	<10	0.45	628	9	0.03	5	670	8	<5	<20	97	0.07	<10	29	<10	3	172
63	64483	<0.2	0.86	<5	155	<5	1.33	<1	6	135	104	2.73	<10	0.43	731	6	0.03	5	680	10	<5	<20	128	0.05	<10	26	<10	3	255
64	64484	0.4	0.94	<5	105	<5	1.31	<1	5	118	133	3.08	<10	0.41	814	26	0.02	3	660	10	<5	<20	125	0.04	<10	24	<10	3	390
65	64485	6.0	0.83	<5	60	<5	1.00	4	6	136	2568	4.24	<10	0.29	756	91	0.02	5	640	78	<5	<20	95	0.02	<10	14	<10	<1	2287
66	64486	>30	0.77	<5	60	<5	1.07	102	10	90	>10000	>10	<10	0.37	>10000	32	<0.01	<1	200	972	<5	<20	65	0.05	<10	9	<10	<1	>10000
67	64487	3.2	0.67	<5	55	<5	1.64	4	4	101	589	3.04	<10	0.21	1928	9	<0.01	3	570	58	<5	<20	81	0.01	<10	9	<10	2	2360
68	64488	10.2	0.73	<5	50	<5	1.35	6	6	103	1596	3.72	<10	0.29	1282	250	0.02	3	640	136	<5	<20	71	0.03	<10	16	<10	<1	3231
69	64489	2.0	0.81	<5	70	<5	1.69	2	4	128	360	3.03	<10	0.25	1238	28	0.02	5	650	38	<5	<20	70	0.02	<10	11	<10	2	957
70	64490	1.4	0.75	<5	95	<5	1.32	2	5	106	255	3.01	<10	0.33	832	23	0.02	4	620	26	<5	<20	63	0.04	<10	19	<10	2	823
71	64491	<0.2	0.84	<5	125	<5	0.90	<1	6	129	77	2.27	<10	0.47	505	6	0.04	4	560	4	<5	<20	58	0.07	<10	30	<10	3	159
72	64492	0.4	0.95	<5	85	<5	0.77	<1	6	130	226	2.77	<10	0.45	455	5	0.03	4	580	12	<5	<20	50	0.07	<10	30	<10	2	169
73	64493	<0.2	0.88	<5	70	<5	0.82	<1	6	115	67	2.69	<10	0.49	523	16	0.03	4	620	8	<5	<20	68	0.08	<10	31	<10	3	191
74	64494	0.8	0.90	<5	85	<5	0.78	<1	6	130	220	2.70	<10	0.48	497	5	0.03	5	610	6	<5	<20	62	0.08	<10	32	<10	3	463
75	64495	<0.2	0.83	<5	95	<5	0.99	<1	6	99	112	2.38	<10	0.46	498	8	0.03	4	570	2	<5	<20	54	0.07	<10	27	<10	3	182
76	64496	<0.2	0.79	<5	60	<5	0.81	<1	6	122	33	2.63	<10	0.44	482	15	0.03	4	580	4	<5	<20	59	0.06	<10	27	<10	3	138
77	64497	<0.2	0.81	<5	110	<5	0.89	<1	6	105	42	2.24	<10	0.48	538	11	0.04	4	590	4	<5	<20	63	0.07	<10	30	<10	4	64
78	64498	<0.2	0.77	<5	145	5	1.97	<1	5	118	20	1.96	<10	0.44	807	13	0.03	4	580	4	<5	<20	82	0.06	<10	26	<10	3	61
79	64499	<0.2	0.84	<5	150	<5	0.94	<1	6	122	41	2.06	<10	0.48	513	19	0.05	4	600	2	<5	<20	70	0.09	<10	30	<10	3	56
80	64500	<0.2	0.78	<5	120	<5	0.97	<1	6	122	101	2.12	<10	0.48	517	5	0.03	4	580	4	<5	<20	77	0.09	<10	30	<10	3	53

M-96-5

ALMADEN RESOURCES

ICP CERTIFICATE OF ANALYSIS AK 96-1062

ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
QC DATA:																													
Resplit:																													
1	64401	<0.2	0.87	<5	150	<5	1.16	<1	5	125	54	2.48	<10	0.44	497	14	0.04	5	600	6	<5	<20	101	0.05	<10	26	<10	3	93
71	64491	<0.2	0.82	<5	125	<5	0.92	<1	6	122	72	2.28	<10	0.46	515	8	0.04	4	570	6	<5	<20	59	0.07	<10	29	<10	3	143
Repeat:																													
1	64401	0.4	0.86	<5	130	<5	1.08	<1	5	110	75	2.47	<10	0.44	460	11	0.04	4	590	6	<5	<20	92	0.05	<10	25	<10	4	98
10	64410	0.4	0.81	<5	110	<5	1.99	1	5	128	39	2.71	<10	0.36	958	46	0.03	4	590	10	<5	<20	100	0.01	<10	14	<10	3	531
19	64419	0.6	0.72	<5	135	<5	1.47	<1	4	110	122	2.11	<10	0.34	622	54	0.03	4	540	18	<5	<20	85	0.03	<10	15	<10	2	210
36	64436	0.4	0.65	<5	75	<5	2.23	<1	4	134	166	2.11	<10	0.27	717	21	0.02	4	550	12	<5	<20	154	0.02	<10	16	<10	4	64
45	64465	10.6	0.61	<5	55	<5	0.77	<1	5	128	797	3.52	<10	0.16	529	46	0.01	4	650	34	<5	<20	48	0.01	<10	8	<10	<1	92
54	64474	0.4	0.82	<5	155	<5	1.28	<1	6	127	87	2.44	<10	0.44	709	4	0.03	5	670	8	<5	<20	120	0.07	<10	29	<10	3	73
71	64491	<0.2	0.86	<5	130	<5	0.94	<1	6	130	76	2.36	<10	0.48	525	7	0.04	4	590	4	<5	<20	60	0.07	<10	30	<10	3	169
Standard:																													
GEO'96		1.0	1.74	60	170	<5	1.87	<1	17	72	70	4.12	<10	0.91	732	2	0.02	23	760	18	<5	<20	72	0.12	<10	74	<10	4	78
GEO'96		1.2	1.92	65	150	<5	1.95	<1	20	66	77	4.12	<10	1.05	773	<1	0.02	24	800	18	<5	<20	55	0.12	<10	84	<10	4	69

df/1062/1062A
XLS/96Kmisc#8

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

ALMADEN RESOURCES — ICP CERTIFICATE OF ANALYSIS AK 96-1022 — m-96-5 — ECO-TECH LABORATORIES LTD.

St #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
26	64306	0.2	0.68	<5	85	<5	1.36	<1	5	120	31	1.68	<10	0.36	670	702	0.02	4	530	6	<5	<20	34	0.02	<10	18	<10	3	236
27	64307	<0.2	0.64	<5	85	<5	1.48	<1	5	109	16	1.68	<10	0.36	688	467	0.02	3	550	4	<5	<20	32	0.03	<10	19	<10	2	186
28	64308	<0.2	0.75	<5	155	<5	1.07	1	5	112	49	1.85	<10	0.45	657	7	0.03	3	550	<2	<5	<20	29	0.07	<10	28	<10	3	1014
29	64309	<0.2	0.82	<5	125	<5	1.00	<1	6	112	15	1.91	<10	0.49	578	176	0.03	4	570	<2	<5	<20	35	0.07	<10	30	<10	3	61
30	64310	<0.2	0.73	<5	110	<5	1.03	<1	5	115	140	1.78	<10	0.42	592	4	0.03	4	550	<2	<5	<20	32	0.06	<10	26	<10	2	936
31	64311	<0.2	0.75	<5	120	<5	0.89	<1	6	136	72	1.94	<10	0.45	580	38	0.03	4	540	<2	<5	<20	23	0.07	<10	29	<10	2	565
32	64312	<0.2	0.71	<5	115	<5	0.97	<1	6	112	20	1.83	<10	0.44	555	10	0.03	4	530	2	<5	<20	28	0.07	<10	26	<10	2	170
33	64313	<0.2	0.66	<5	80	<5	1.32	<1	5	128	17	1.70	<10	0.39	599	4	0.03	3	540	2	<5	<20	36	0.03	<10	20	<10	2	104
34	64314	<0.2	0.80	<5	255	<5	0.80	<1	6	142	14	2.00	<10	0.48	504	3	0.04	5	570	2	<5	<20	36	0.07	<10	30	<10	3	114
35	64315	<0.2	0.80	<5	160	<5	0.82	<1	6	153	22	2.00	<10	0.47	540	146	0.04	4	560	4	<5	<20	38	0.07	<10	31	<10	3	52
36	64316	<0.2	0.75	<5	90	<5	1.59	2	5	107	80	1.89	<10	0.39	689	4	0.02	4	630	4	<5	<20	50	0.04	<10	24	<10	3	1005
37	64317	3.4	0.73	<5	75	<5	1.58	6	5	138	380	2.03	<10	0.33	729	44	0.02	4	630	18	<5	<20	46	0.03	<10	20	<10	2	3172
38	64318	<0.2	0.75	<5	130	<5	1.30	<1	6	105	43	1.90	<10	0.43	709	35	0.03	4	580	4	<5	<20	45	0.06	<10	26	<10	2	399
39	64319	<0.2	0.82	<5	230	<5	0.67	<1	6	112	13	2.07	<10	0.54	532	2	0.04	4	600	2	<5	<20	35	0.11	<10	36	<10	2	44
40	64320	<0.2	0.73	<5	135	<5	0.64	<1	6	117	15	1.88	<10	0.46	482	4	0.04	4	510	<2	<5	<20	28	0.10	<10	31	<10	2	142
41	64321	0.2	0.77	<5	90	<5	1.00	<1	6	137	90	2.15	<10	0.42	530	24	0.03	4	550	4	<5	<20	43	0.05	<10	26	<10	2	65
42	64322	<0.2	0.91	<5	105	<5	1.16	<1	6	165	44	2.29	<10	0.49	622	3	0.03	5	670	6	<5	<20	55	0.04	<10	28	<10	3	975
43	64323	<0.2	0.88	<5	115	<5	1.21	<1	6	153	28	2.08	<10	0.48	605	6	0.03	5	660	4	<5	<20	61	0.04	<10	28	<10	3	755
44	64324	<0.2	0.78	<5	155	<5	1.00	<1	6	131	14	2.06	<10	0.47	588	2	0.03	4	640	4	<5	<20	42	0.07	<10	30	<10	3	109
45	64325	<0.2	0.73	<5	250	<5	1.28	<1	6	118	15	1.99	<10	0.43	687	27	0.02	4	610	4	<5	<20	36	0.06	<10	28	<10	3	162
46	64326	<0.2	0.77	<5	75	<5	1.67	<1	6	125	15	1.96	<10	0.35	1107	4	0.02	4	660	4	<5	<20	109	0.02	<10	19	<10	2	60
47	64327	5.2	0.59	<5	80	10	2.29	1	5	150	362	2.26	<10	0.34	2156	29	0.01	3	570	48	<5	<20	89	0.01	<10	10	<10	2	1158
48	64328	5.0	0.68	<5	35	<5	0.97	6	6	130	254	4.24	<10	0.22	3150	9	<0.01	3	510	44	<5	<20	42	<0.01	<10	6	<10	<1	4092
49	64329	2.0	0.46	<5	40	<5	2.65	<1	5	163	48	2.36	<10	0.37	2311	45	0.01	3	660	20	<5	<20	57	<0.01	<10	6	<10	3	353
50	64330	1.0	0.30	<5	45	<5	2.59	<1	4	107	39	1.93	<10	0.36	2429	6	<0.01	1	530	10	<5	<20	44	<0.01	<10	3	<10	3	157
51	64331	0.4	0.31	<5	35	<5	2.75	<1	4	131	27	1.92	<10	0.36	2606	19	<0.01	3	580	4	<5	<20	56	<0.01	<10	3	<10	3	135
52	64332	1.0	0.33	<5	40	<5	2.61	1	5	126	31	2.41	<10	0.34	3447	7	<0.01	3	440	8	<5	<20	48	<0.01	<10	3	<10	3	1182
53	64333	2.8	0.34	<5	35	<5	2.66	3	5	142	60	3.05	<10	0.37	3488	89	<0.01	3	300	12	<5	<20	38	<0.01	<10	3	<10	<1	2557
54	64334	4.4	0.31	<5	45	10	4.83	10	7	108	112	4.86	<10	0.73	7844	16	<0.01	2	290	18	<5	<20	48	0.02	<10	4	<10	<1	6273
55	64335	0.4	0.38	<5	160	<5	2.98	<1	3	167	11	1.84	<10	0.31	2179	15	0.02	3	630	6	<5	<20	72	<0.01	<10	4	<10	4	89
56	64336	0.6	0.31	<5	285	<5	2.96	<1	3	121	23	1.59	<10	0.31	1893	7	0.01	4	480	6	<5	<20	84	<0.01	<10	4	<10	4	143
57	64337	0.4	0.34	<5	225	<5	2.75	<1	2	119	28	1.17	<10	0.20	1345	4	0.01	2	370	6	<5	<20	90	<0.01	<10	3	<10	3	154
58	64338	1.2	0.45	<5	130	<5	2.50	<1	4	156	22	1.68	<10	0.26	1580	4	0.02	3	500	12	<5	<20	84	<0.01	<10	4	<10	2	382
59	64339	0.4	0.46	<5	115	<5	2.83	<1	4	129	12	1.80	<10	0.35	2068	6	0.01	2	580	6	<5	<20	88	<0.01	<10	5	<10	3	469
60	64340	0.6	0.55	<5	40	<5	2.13	<1	4	123	43	1.83	<10	0.33	1274	60	0.01	2	550	6	<5	<20	101	<0.01	<10	9	<10	2	153

m-96-5

ALMADEN RESOURCES

ICP CERTIFICATE OF ANALYSIS AK 96-1062

ECO-TECH LABORATORIES LTD.

Ft #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
61	64481	0.4	0.79	<5	105	<5	1.15	<1	5	124	158	2.77	<10	0.39	596	11	0.02	5	660	10	<5	<20	111	0.05	<10	25	<10	3	165
62	64482	<0.2	0.83	<5	150	<5	1.07	<1	6	118	106	2.57	<10	0.45	628	9	0.03	5	670	8	<5	<20	97	0.07	<10	29	<10	3	172
63	64483	<0.2	0.86	<5	155	<5	1.33	<1	6	135	104	2.73	<10	0.43	731	6	0.03	5	680	10	<5	<20	128	0.05	<10	26	<10	3	255
64	64484	0.4	0.94	<5	105	<5	1.31	<1	5	118	133	3.08	<10	0.41	814	26	0.02	3	660	10	<5	<20	125	0.04	<10	24	<10	3	390
65	64485	6.0	0.83	<5	60	<5	1.00	4	6	136	2568	4.24	<10	0.29	756	91	0.02	5	640	78	<5	<20	95	0.02	<10	14	<10	<1	2287
66	64486	>30	0.77	<5	60	<5	1.07	102	10	90	>10000	>10	<10	0.37	>10000	32	<0.01	<1	200	972	<5	<20	65	0.05	<10	9	<10	<1	>10000
67	64487	3.2	0.67	<5	55	<5	1.64	4	4	101	589	3.04	<10	0.21	1928	9	<0.01	3	570	58	<5	<20	81	0.01	<10	9	<10	2	2360
68	64488	10.2	0.73	<5	50	<5	1.35	6	6	103	1596	3.72	<10	0.29	1282	250	0.02	3	640	136	<5	<20	71	0.03	<10	16	<10	<1	3231
69	64489	2.0	0.81	<5	70	<5	1.69	2	4	128	360	3.03	<10	0.25	1238	28	0.02	5	650	38	<5	<20	70	0.02	<10	11	<10	2	957
70	64490	1.4	0.75	<5	95	<5	1.32	2	5	106	255	3.01	<10	0.33	832	23	0.02	4	620	26	<5	<20	63	0.04	<10	19	<10	2	823
71	64491	<0.2	0.84	<5	125	<5	0.90	<1	6	129	77	2.27	<10	0.47	505	6	0.04	4	560	4	<5	<20	58	0.07	<10	30	<10	3	159
72	64492	0.4	0.95	<5	85	<5	0.77	<1	6	130	226	2.77	<10	0.45	455	5	0.03	4	580	12	<5	<20	50	0.07	<10	30	<10	2	169
73	64493	<0.2	0.88	<5	70	<5	0.82	<1	6	115	67	2.69	<10	0.49	523	16	0.03	4	620	8	<5	<20	68	0.08	<10	31	<10	3	191
74	64494	0.8	0.90	<5	85	<5	0.78	<1	6	130	220	2.70	<10	0.48	497	5	0.03	5	610	6	<5	<20	62	0.08	<10	32	<10	3	463
75	64495	<0.2	0.83	<5	95	<5	0.99	<1	6	99	112	2.38	<10	0.46	498	8	0.03	4	570	2	<5	<20	54	0.07	<10	27	<10	3	182
76	64496	<0.2	0.79	<5	60	<5	0.81	<1	6	122	33	2.63	<10	0.44	482	15	0.03	4	580	4	<5	<20	59	0.06	<10	27	<10	3	138
77	64497	<0.2	0.81	<5	110	<5	0.89	<1	6	105	42	2.24	<10	0.48	538	11	0.04	4	590	4	<5	<20	63	0.07	<10	30	<10	4	64
78	64498	<0.2	0.77	<5	145	5	1.97	<1	5	118	20	1.96	<10	0.44	807	13	0.03	4	580	4	<5	<20	82	0.06	<10	26	<10	3	61
79	64499	<0.2	0.84	<5	150	<5	0.94	<1	6	122	41	2.06	<10	0.48	513	19	0.05	4	600	2	<5	<20	70	0.09	<10	30	<10	3	56
80	64500	<0.2	0.78	<5	120	<5	0.97	<1	6	122	101	2.12	<10	0.48	517	5	0.03	4	580	4	<5	<20	77	0.09	<10	30	<10	3	53

m-96-5

Eco-Tech LABORATORIES LTD.

ASSAYING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ENVIRONMENTAL TESTING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4 Phone (604) 573-5700
Fax (604) 573-4557

CERTIFICATE OF ASSAY AK 96-1062

ALMADEN RESOURCES
2020-1055 WEST HASTINGS STREET
VANCOUVER,B.C.
V6E 2E9

27-Sep-96

ATTENTION: DWAYNE POLIQUIN

No. of samples received: 80
Sample type: CORE
PROJECT: # NOT GIVEN
SHIPMENT: # NOT GIVEN
Samples submitted by: NOT GIVEN

ET #.	Tag #	Ag (g/t)	Ag (oz/t)	Cu (%)	Zn (%)
66	64486	94.9	2.77	2.24	6.73

m-96-5

QC/DATA:
Standard:

CPb-I		0.25	
Mp-IA			19.02

ECO-TECH LABORATORIES LTD.
per Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/96KMISC#8

25-Sep-96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax : 604-573-4557

ICP CERTIFICATE OF ANALYSIS AK 96-1062

ALMADEN RESOURCES
2020-1055 WEST HASTINGS STREET
VANCOUVER,B.C.
V6E 2E9

ATTENTION: DWAYNE POLIQUIN

No. of samples received: 80
Sample type: CORE
PROJECT: # NOT GIVEN
SHIPMENT: # NOT GIVEN
Samples submitted by: NOT GIVEN

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	64401	0.6	0.87	<5	125	<5	1.03	<1	7	107	70	2.36	<10	0.44	450	9	0.03	6	540	10	<5	<20	81	0.06	<10	29	<10	6	93
2	64402	0.6	0.83	<5	125	<5	0.94	<1	7	125	38	2.30	<10	0.46	455	5	0.04	7	560	6	<5	<20	68	0.07	<10	29	<10	6	61
3	64403	0.4	0.86	<5	130	5	0.91	<1	8	122	19	2.42	<10	0.50	461	3	0.04	5	590	8	<5	<20	67	0.10	<10	32	<10	7	67
4	64404	0.2	0.90	<5	145	5	0.93	<1	7	129	52	2.31	<10	0.53	518	4	0.05	5	610	4	<5	<20	92	0.09	<10	33	<10	7	58
5	64405	0.2	0.93	<5	160	<5	0.84	<1	7	145	57	2.53	<10	0.53	489	50	0.05	6	630	8	<5	<20	83	0.09	<10	34	<10	6	84
6	64406	<0.2	0.87	<5	75	5	0.71	<1	8	150	39	3.21	<10	0.50	461	65	0.05	5	610	6	<5	<20	69	0.10	<10	33	<10	5	89
7	64407	0.4	0.75	<5	90	<5	1.50	<1	5	122	65	2.48	<10	0.37	636	13	0.03	5	570	6	<5	<20	65	0.03	<10	17	<10	4	77
8	64408	0.4	0.75	<5	85	<5	1.68	<1	5	129	65	2.28	<10	0.37	800	13	0.03	5	600	8	<5	<20	67	0.02	<10	16	<10	4	114
9	64409	0.2	0.66	<5	140	<5	1.48	<1	5	122	30	2.22	<10	0.40	711	12	0.03	5	560	6	<5	<20	58	0.02	<10	19	<10	4	89
10	64410	0.4	0.81	<5	110	<5	2.01	1	5	129	45	2.65	<10	0.36	963	48	0.03	4	590	10	<5	<20	102	0.01	<10	15	<10	3	523
11	64411	<0.2	0.82	<5	110	<5	1.48	2	5	114	34	2.58	<10	0.40	690	10	0.03	4	590	6	<5	<20	68	0.02	<10	20	<10	3	868
12	64412	0.4	0.82	<5	90	<5	1.51	2	5	129	26	2.49	<10	0.40	738	8	0.03	5	630	12	<5	<20	75	0.02	<10	19	<10	3	923
13	64413	0.6	0.76	<5	130	5	1.61	<1	5	119	18	2.32	<10	0.41	685	13	0.03	4	570	8	<5	<20	73	0.03	<10	19	<10	3	427
14	64414	<0.2	0.81	<5	135	<5	1.34	<1	5	137	17	2.36	<10	0.42	642	7	0.04	4	590	4	<5	<20	61	0.03	<10	22	<10	3	224
15	64415	0.2	0.79	<5	80	<5	1.87	<1	4	111	28	2.40	<10	0.31	864	9	0.03	3	600	8	<5	<20	85	0.01	<10	13	<10	3	366
16	64416	<0.2	0.76	<5	85	<5	1.55	1	5	136	26	2.51	<10	0.36	722	7	0.03	4	590	16	<5	<20	77	0.02	<10	17	<10	3	645
17	64417	<0.2	0.91	<5	175	<5	1.15	<1	5	122	13	2.57	<10	0.45	591	11	0.03	5	600	4	<5	<20	85	0.04	<10	25	<10	4	176
18	64418	<0.2	0.95	<5	110	<5	0.98	<1	5	123	52	2.76	<10	0.42	522	8	0.03	4	610	6	<5	<20	78	0.03	<10	21	<10	3	268
19	64419	0.6	0.75	<5	110	<5	1.59	<1	5	113	83	2.19	<10	0.34	660	59	0.03	5	570	14	<5	<20	89	0.02	<10	14	<10	3	222
20	64420	0.2	0.82	<5	120	<5	1.50	<1	4	132	22	1.96	<10	0.29	578	28	0.03	4	530	6	<5	<20	72	0.02	<10	14	<10	3	100
21	64421	<0.2	0.71	<5	90	<5	1.67	<1	5	109	21	2.09	<10	0.36	629	14	0.03	5	610	6	<5	<20	89	0.02	<10	17	<10	3	85
22	64422	<0.2	0.82	<5	90	<5	1.56	<1	5	129	13	2.16	<10	0.44	631	9	0.03	4	610	4	<5	<20	97	0.02	<10	21	<10	3	71
23	64423	1.0	0.76	<5	65	<5	2.04	<1	5	110	399	2.42	<10	0.26	883	7	0.02	4	620	18	<5	<20	102	0.01	<10	13	<10	3	325
24	64424	2.4	0.68	<5	60	<5	2.48	2	4	125	553	2.23	<10	0.25	1272	7	0.02	4	580	110	<5	<20	103	<0.01	<10	8	<10	3	916
25	64425	4.4	0.83	<5	70	<5	1.45	1	5	115	1042	2.89	<10	0.29	784	7	0.02	4	610	48	<5	<20	88	0.01	<10	14	<10	3	625

ALMADEN RESOURCES

ICP CERTIFICATE OF ANALYSIS AK 96-1062

ECO-TECH LABORATORIES LTD.

Ft #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
26	64426	0.4	0.82	<5	345	<5	1.08	<1	5	140	165	2.41	<10	0.45	600	13	0.04	5	590	16	<5	<20	76	0.07	<10	27	<10	4	180
27	64427	<0.2	0.84	<5	315	<5	0.95	<1	5	128	95	2.43	<10	0.48	561	6	0.04	5	590	10	<5	<20	74	0.07	<10	30	<10	4	123
28	64428	<0.2	0.80	<5	165	<5	1.18	<1	5	141	44	2.23	<10	0.45	562	10	0.04	5	580	6	<5	<20	82	0.06	<10	26	<10	4	86
29	64429	<0.2	0.81	<5	135	<5	1.44	<1	5	125	28	2.14	<10	0.42	639	8	0.03	5	580	6	<5	<20	106	0.04	<10	23	<10	4	87
30	64430	<0.2	0.91	<5	135	<5	1.09	<1	5	141	18	2.35	<10	0.46	521	7	0.04	5	600	6	<5	<20	136	0.05	<10	28	<10	4	78
31	64431	<0.2	0.80	<5	470	<5	1.10	<1	4	139	14	2.21	<10	0.46	542	5	0.04	5	560	6	<5	<20	93	0.05	<10	27	<10	4	63
32	64432	<0.2	0.82	<5	255	<5	1.08	<1	5	133	10	2.25	<10	0.48	508	13	0.04	5	570	4	<5	<20	109	0.05	<10	28	<10	4	61
33	64433	<0.2	0.80	<5	110	<5	1.52	<1	5	118	6	2.29	<10	0.39	531	5	0.03	4	580	8	<5	<20	115	0.02	<10	20	<10	3	68
34	64434	<0.2	0.78	<5	180	<5	1.21	<1	5	128	8	2.31	<10	0.42	513	9	0.04	4	580	6	<5	<20	87	0.04	<10	24	<10	3	70
35	64435	<0.2	0.84	<5	230	<5	1.53	<1	4	131	4	2.22	<10	0.38	506	6	0.03	4	560	4	<5	<20	173	0.04	<10	24	<10	4	66
36	64436	0.8	0.69	<5	90	<5	1.94	<1	4	124	120	1.83	<10	0.31	636	20	0.03	10	510	10	<5	<20	149	0.03	<10	20	<10	4	59
37	64457	7.2	0.68	<5	50	<5	0.90	5	7	111	1694	5.45	<10	0.20	1192	48	<0.01	5	510	24	<5	<20	58	0.01	<10	9	<10	<1	2905
38	64458	2.4	0.80	<5	65	<5	1.20	1	5	100	700	3.01	<10	0.30	880	13	0.01	4	610	14	<5	<20	121	0.01	<10	11	<10	2	514
39	64459	2.4	0.96	<5	65	<5	1.24	1	5	122	521	3.02	<10	0.45	737	10	0.01	4	590	16	<5	<20	140	0.01	<10	10	<10	2	933
40	64460	2.0	0.88	<5	65	<5	1.45	<1	4	122	467	2.62	<10	0.39	801	9	<0.01	3	630	16	<5	<20	137	<0.01	<10	8	<10	2	378
41	64461	1.8	0.98	<5	60	<5	2.05	<1	4	120	362	2.49	<10	0.52	1345	8	0.01	4	630	14	<5	<20	208	<0.01	<10	7	<10	3	238
42	64462	9.0	0.73	<5	45	<5	4.94	<1	4	109	872	2.71	<10	0.39	2684	30	<0.01	3	540	44	<5	<20	204	<0.01	<10	4	<10	3	214
43	64463	19.0	0.54	<5	40	<5	3.12	<1	5	143	1531	3.03	<10	0.19	2119	203	<0.01	4	520	70	<5	<20	143	<0.01	<10	4	<10	2	213
44	64464	7.4	0.52	<5	35	<5	0.93	<1	5	136	650	3.85	<10	0.11	603	42	<0.01	4	560	26	<5	<20	57	<0.01	<10	3	<10	<1	116
45	64465	11.6	0.60	<5	40	<5	0.87	<1	5	131	910	3.58	<10	0.13	594	41	<0.01	4	610	38	<5	<20	56	<0.01	<10	5	<10	<1	104
46	64466	2.8	0.72	<5	55	<5	1.43	<1	5	114	292	3.05	<10	0.25	1015	39	0.01	4	620	14	<5	<20	116	0.01	<10	10	<10	2	95
47	64467	1.8	0.75	<5	100	<5	1.58	<1	5	121	256	2.63	<10	0.33	819	173	0.02	4	620	14	<5	<20	106	0.03	<10	18	<10	2	95
48	64468	1.6	0.81	<5	95	<5	1.38	<1	5	115	251	2.58	<10	0.37	803	134	0.02	5	650	10	<5	<20	140	0.03	<10	20	<10	3	99
49	64469	0.4	0.82	<5	120	<5	1.41	<1	5	137	88	2.44	<10	0.41	681	112	0.03	4	630	8	<5	<20	139	0.04	<10	23	<10	3	70
50	64470	0.4	0.74	<5	90	<5	1.73	<1	5	119	64	2.38	<10	0.36	648	79	0.03	5	640	6	<5	<20	83	0.02	<10	17	<10	2	83
51	64471	0.4	0.69	<5	80	<5	1.85	<1	5	113	49	2.34	<10	0.34	684	262	0.03	4	640	8	<5	<20	87	0.02	<10	15	<10	3	86
52	64472	0.4	0.65	<5	90	<5	1.99	<1	5	101	45	2.21	<10	0.33	795	38	0.02	4	640	8	<5	<20	87	0.02	<10	16	<10	2	84
53	64473	<0.2	0.74	<5	135	<5	1.45	<1	5	123	29	2.32	<10	0.41	673	24	0.03	4	640	6	<5	<20	87	0.05	<10	23	<10	3	72
54	64474	0.8	0.79	<5	145	<5	1.23	<1	5	123	100	2.42	<10	0.41	680	11	0.03	5	620	8	<5	<20	114	0.06	<10	26	<10	3	69
55	64475	0.6	0.82	<5	135	<5	0.95	<1	6	117	126	2.70	<10	0.45	643	52	0.03	5	660	12	<5	<20	93	0.08	<10	29	<10	3	254
56	64476	0.4	0.80	<5	140	<5	1.13	<1	6	118	111	2.67	<10	0.43	632	23	0.03	4	620	10	<5	<20	90	0.08	<10	28	<10	3	92
57	64477	<0.2	0.79	<5	240	<5	0.80	<1	5	134	46	2.40	<10	0.45	549	9	0.04	4	630	10	<5	<20	89	0.09	<10	31	<10	3	80
58	64478	0.4	0.80	<5	105	<5	1.09	<1	5	115	85	2.85	<10	0.40	641	13	0.03	5	670	8	<5	<20	113	0.05	<10	25	<10	2	93
59	64479	<0.2	0.76	<5	160	<5	1.08	<1	5	127	41	2.34	<10	0.39	627	12	0.03	5	620	10	<5	<20	105	0.05	<10	24	<10	3	77
60	64480	0.4	0.76	<5	110	<5	1.43	<1	5	115	102	2.34	<10	0.35	750	19	0.03	4	650	12	<5	<20	118	0.03	<10	20	<10	3	142

m-96-6

m 96-5

ALMADEN RESOURCES ICP CERTIFICATE OF ANALYSIS AK 96-1062 **ECO-TECH LABORATORIES LTD.**

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
QC DATA:																													
Resplit:																													
1	64401	<0.2	0.87	<5	150	<5	1.16	<1	5	125	54	2.48	<10	0.44	497	14	0.04	5	600	6	<5	<20	101	0.05	<10	26	<10	3	93
71	64491	<0.2	0.82	<5	125	<5	0.92	<1	6	122	72	2.28	<10	0.46	515	8	0.04	4	570	6	<5	<20	59	0.07	<10	29	<10	3	143
Repeat:																													
1	64401	0.4	0.86	<5	130	<5	1.08	<1	5	110	75	2.47	<10	0.44	460	11	0.04	4	590	6	<5	<20	92	0.05	<10	25	<10	4	98
10	64410	0.4	0.81	<5	110	<5	1.99	<1	5	128	39	2.71	<10	0.36	958	46	0.03	4	590	10	<5	<20	100	0.01	<10	14	<10	3	531
19	64419	0.6	0.72	<5	135	<5	1.47	<1	4	110	122	2.11	<10	0.34	622	54	0.03	4	540	18	<5	<20	85	0.03	<10	15	<10	2	210
36	64436	0.4	0.65	<5	75	<5	2.23	<1	4	134	166	2.11	<10	0.27	717	21	0.02	4	550	12	<5	<20	154	0.02	<10	16	<10	4	64
45	64465	10.6	0.61	<5	55	<5	0.77	<1	5	128	797	3.52	<10	0.16	529	46	0.01	4	650	34	<5	<20	48	0.01	<10	8	<10	<1	92
54	64474	0.4	0.82	<5	155	<5	1.28	<1	6	127	87	2.44	<10	0.44	709	4	0.03	5	670	8	<5	<20	120	0.07	<10	29	<10	3	73
71	64491	<0.2	0.86	<5	130	<5	0.94	<1	6	130	76	2.36	<10	0.48	525	7	0.04	4	590	4	<5	<20	60	0.07	<10	30	<10	3	169
Standard:																													
GEO'96		1.0	1.74	60	170	<5	1.87	<1	17	72	70	4.12	<10	0.91	732	2	0.02	23	760	18	<5	<20	72	0.12	<10	74	<10	4	78
GEO'96		1.2	1.92	65	150	<5	1.95	<1	20	66	77	4.12	<10	1.05	773	<1	0.02	24	800	18	<5	<20	55	0.12	<10	84	<10	4	69

df/1062/1062A
XLS/96Kmisc#8

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

1-Oct-96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax : 604-573-4557

ICP CERTIFICATE OF ANALYSIS AK 96-1119

ALMADEN RESOURCES
2020-1055 WEST HASTINGS STREET
VANCOUVER,B.C.
V6E 2E9

ATTENTION: DWAYNE POLIQUIN

No. of samples received: 93
Sample type: CORE
PROJECT: # NOT GIVEN
SHIPMENT: # NOT GIVEN
Samples submitted by: NOT GIVEN

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	64437	<0.2	0.54	<5	100	<5	0.98	<1	4	114	13	1.42	<10	0.34	467	4	0.03	3	440	8	<5	<20	80	0.04	<10	20	<10	3	39
2	64438	<0.2	0.70	<5	185	<5	0.67	<1	5	122	8	1.73	<10	0.44	428	4	0.03	4	450	4	<5	<20	93	0.06	<10	28	<10	3	41
3	64439	<0.2	0.69	<5	485	<5	0.65	<1	3	100	9	1.73	<10	0.45	443	25	0.03	4	450	2	<5	<20	91	0.06	<10	28	<10	4	39
4	64440	<0.2	0.71	<5	140	<5	0.78	<1	4	89	9	1.72	<10	0.46	441	8	0.03	4	460	<2	<5	<20	93	0.05	<10	27	<10	4	39
5	64441	<0.2	0.73	<5	105	<5	0.95	<1	5	113	46	1.60	<10	0.44	487	5	0.04	4	490	2	<5	<20	104	0.05	<10	26	<10	3	48
6	64442	<0.2	0.67	<5	95	<5	1.78	<1	4	126	7	1.74	<10	0.40	678	13	0.03	4	480	<2	<5	<20	137	0.03	<10	21	<10	5	38
7	64443	<0.2	0.60	<5	75	<5	1.76	<1	7	139	9	2.04	<10	0.35	691	27	0.03	4	450	4	<5	<20	114	0.02	<10	16	<10	3	33
8	64444	<0.2	0.64	<5	60	<5	2.09	<1	3	110	17	1.50	<10	0.26	900	4	0.03	3	450	4	<5	<20	106	0.01	<10	11	<10	3	121
9	64445	<0.2	0.73	<5	90	<5	0.99	<1	4	134	21	1.69	<10	0.42	517	7	0.04	5	470	<2	<5	<20	89	0.04	<10	23	<10	2	105
10	64446	<0.2	0.71	<5	90	<5	0.92	<1	5	117	19	1.62	<10	0.43	497	8	0.04	4	470	4	<5	<20	93	0.05	<10	23	<10	2	40
11	64447	0.8	0.67	<5	125	<5	1.04	<1	4	116	102	1.74	<10	0.32	478	6	0.03	4	410	14	<5	<20	89	0.02	<10	16	<10	2	52
12	64448	<0.2	0.69	<5	55	<5	1.21	<1	4	108	28	1.72	<10	0.30	639	7	0.03	4	450	6	<5	<20	137	0.01	<10	14	<10	2	54
13	64449	<0.2	0.72	<5	115	<5	0.86	<1	5	148	13	1.73	<10	0.40	467	55	0.04	5	450	4	<5	<20	87	0.05	<10	26	<10	3	42
14	64450	<0.2	0.65	<5	150	<5	1.13	<1	4	116	12	1.66	<10	0.36	529	2	0.03	4	430	2	<5	<20	73	0.03	<10	20	<10	3	43
15	117651	<0.2	0.74	<5	75	<5	1.49	<1	4	125	7	1.62	<10	0.34	542	5	0.03	4	450	2	<5	<20	183	0.03	<10	20	<10	4	41
16	117652	<0.2	0.72	<5	180	<5	0.92	<1	4	110	149	1.83	<10	0.40	507	2	0.03	4	460	4	<5	<20	85	0.04	<10	23	<10	3	76
17	117653	<0.2	0.67	<5	160	<5	1.62	<1	4	137	67	1.65	<10	0.32	699	9	0.03	5	450	4	<5	<20	129	0.02	<10	16	<10	3	53
18	117654	2.4	0.71	<5	70	<5	4.03	<1	4	97	143	1.66	<10	0.36	1854	4	0.02	3	440	38	<5	<20	231	0.01	<10	11	<10	4	275
19	117655	<0.2	0.61	<5	85	<5	2.31	<1	3	126	13	1.33	<10	0.30	1301	7	0.02	4	470	6	<5	<20	165	0.02	<10	14	<10	4	146
20	117656	<0.2	0.54	<5	70	<5	1.57	<1	4	80	15	1.45	<10	0.32	666	24	0.02	3	450	2	<5	<20	96	0.02	<10	13	<10	2	178
21	117657	<0.2	0.51	<5	70	<5	1.71	<1	4	112	12	1.53	<10	0.31	638	9	0.03	4	470	6	<5	<20	84	0.02	<10	12	<10	2	118
22	117658	<0.2	0.66	<5	195	<5	1.02	<1	4	109	9	1.62	<10	0.40	488	2	0.04	4	430	<2	<5	<20	88	0.04	<10	23	<10	3	39
23	117659	<0.2	0.53	<5	75	<5	1.99	<1	4	118	8	1.38	<10	0.30	779	5	0.03	4	470	2	<5	<20	121	0.01	<10	11	<10	3	46
24	117660	0.4	0.46	<5	45	<5	2.18	3	3	100	30	1.52	<10	0.32	1764	34	0.02	3	440	8	<5	<20	80	<0.01	<10	5	<10	1	1145
25	117661	1.4	0.53	<5	60	<5	1.77	3	4	106	135	1.52	<10	0.31	1650	2	0.02	3	460	10	<5	<20	99	<0.01	<10	9	<10	2	1958

m-96-6

m-96-6

ALMADEN RESOURCES — **ICP CERTIFICATE OF ANALYSIS AK 96-1119** — **ECO-TECH LABORATORIES LTD.**

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
26	117662	0.6	0.43	5	35	<5	2.51	1	2	154	15	1.30	<10	0.27	2678	6	0.01	4	460	14	<5	<20	119	<0.01	<10	5	<10	3	620
27	117663	<0.2	0.83	<5	95	<5	1.75	<1	4	85	16	1.63	<10	0.42	1362	2	0.03	3	460	6	<5	<20	291	0.02	<10	17	<10	3	100
28	117664	<0.2	0.76	<5	105	<5	1.26	<1	4	126	13	1.61	<10	0.39	724	5	0.03	4	450	4	<5	<20	173	0.03	<10	19	<10	3	53
29	117665	1.2	0.69	<5	65	<5	1.56	<1	4	101	101	1.97	<10	0.34	1038	3	0.02	3	460	14	<5	<20	107	0.01	<10	11	<10	2	108
30	117666	0.2	0.62	<5	50	<5	1.50	<1	3	113	35	1.93	<10	0.31	1343	6	0.02	4	440	4	<5	<20	64	<0.01	<10	8	<10	2	116
31	117667	0.2	0.69	<5	90	<5	1.76	<1	4	101	39	1.78	<10	0.39	1554	2	0.03	3	470	6	<5	<20	125	0.02	<10	15	<10	3	304
32	117668	<0.2	0.47	<5	195	<5	2.04	<1	3	123	5	1.62	<10	0.41	1734	5	0.03	3	470	4	<5	<20	95	0.02	<10	13	<10	3	42
33	117701	<0.2	0.70	<5	305	<5	0.99	<1	3	92	11	1.84	<10	0.43	610	18	0.03	3	580	6	<5	<20	40	0.03	<10	22	<10	2	73
34	117702	<0.2	0.74	<5	215	<5	1.62	<1	4	116	14	1.85	<10	0.43	957	9	0.03	3	660	2	<5	<20	52	0.02	<10	19	<10	2	125
35	117703	<0.2	0.62	<5	205	<5	1.62	<1	3	95	16	1.80	<10	0.36	748	30	0.03	2	680	8	<5	<20	71	0.01	<10	15	<10	2	145
36	117704	<0.2	0.61	<5	155	<5	2.41	<1	3	89	17	1.65	<10	0.29	1002	32	0.02	2	680	6	<5	<20	94	<0.01	<10	10	<10	1	270
37	117705	<0.2	0.70	<5	75	<5	1.42	<1	5	113	16	1.94	<10	0.44	649	13	0.04	3	670	4	<5	<20	50	0.02	<10	21	<10	2	61
38	117706	<0.2	0.66	<5	140	<5	1.66	<1	4	93	18	1.89	<10	0.39	761	15	0.03	3	660	2	<5	<20	63	0.01	<10	18	<10	2	53
39	117707	1.0	0.67	<5	50	<5	1.70	5	4	106	267	2.10	<10	0.25	1141	13	0.01	3	600	18	<5	<20	69	<0.01	<10	9	<10	<1	3099
40	117708	17.6	0.56	<5	35	20	1.20	12	5	139	471	3.02	<10	0.13	957	30	<0.01	3	540	122	<5	<20	46	<0.01	<10	4	<10	<1	6653
41	117709	2.2	1.01	<5	65	40	1.17	<1	5	90	89	2.08	<10	0.48	748	9	0.02	4	610	14	<5	<20	155	0.01	<10	19	<10	<1	606
42	117710	<0.2	0.72	<5	210	<5	1.77	<1	4	99	22	1.74	<10	0.39	1054	8	0.02	3	660	2	<5	<20	98	0.02	<10	17	<10	2	200
43	117711	<0.2	0.63	<5	55	<5	1.96	7	4	104	87	1.71	<10	0.23	1154	12	0.01	3	650	6	<5	<20	80	<0.01	<10	7	<10	<1	3692
44	117712	0.2	0.58	<5	85	<5	2.57	1	4	105	17	1.42	<10	0.14	1897	21	0.01	3	640	6	<5	<20	101	<0.01	<10	7	<10	3	358
45	117713	<0.2	0.73	<5	110	<5	2.06	<1	4	116	21	1.89	<10	0.36	1636	12	0.02	4	620	6	<5	<20	102	0.02	<10	16	<10	2	106
46	117714	<0.2	0.70	<5	140	<5	1.99	<1	3	102	11	1.66	<10	0.30	1452	45	0.02	3	630	10	<5	<20	133	<0.01	<10	12	<10	2	101
47	117715	<0.2	0.71	<5	160	<5	1.50	<1	4	119	30	1.83	<10	0.42	734	11	0.03	3	710	4	<5	<20	92	0.02	<10	19	<10	1	55
48	117716	<0.2	0.73	<5	215	<5	1.44	<1	4	103	44	1.94	<10	0.47	733	50	0.03	3	710	6	<5	<20	93	0.02	<10	22	<10	2	71
49	117717	<0.2	0.85	<5	645	<5	0.69	<1	3	131	32	2.20	<10	0.54	612	16	0.05	4	680	<2	<5	<20	92	0.09	<10	35	<10	2	47
50	117718	<0.2	0.80	<5	130	<5	1.30	<1	5	97	17	2.08	<10	0.50	834	13	0.03	3	700	4	<5	<20	123	0.04	<10	28	<10	2	59
51	117719	<0.2	0.83	<5	75	<5	1.60	<1	5	106	13	1.99	<10	0.48	843	8	0.03	3	720	4	<5	<20	163	0.03	<10	26	<10	3	49
52	117720	<0.2	0.91	<5	70	<5	1.72	<1	5	81	24	2.06	<10	0.45	979	4	0.02	2	720	6	<5	<20	204	0.04	<10	26	<10	2	343
53	117721	<0.2	0.83	<5	75	<5	1.33	<1	5	105	15	1.99	<10	0.46	820	12	0.03	4	700	6	<5	<20	149	0.04	<10	26	<10	2	68
54	117722	<0.2	0.85	<5	45	<5	1.88	<1	4	91	21	1.85	<10	0.43	895	20	0.02	2	690	4	<5	<20	252	0.01	<10	19	<10	2	71
55	117723	<0.2	0.93	<5	70	<5	1.07	<1	5	96	18	2.10	<10	0.53	855	15	0.03	3	710	2	<5	<20	213	0.05	<10	30	<10	2	53
56	117724	<0.2	0.89	<5	90	<5	0.98	<1	5	106	17	2.20	<10	0.51	622	10	0.04	2	720	<2	<5	<20	151	0.06	<10	32	<10	2	54
57	117725	<0.2	0.82	<5	45	<5	1.70	<1	5	95	15	2.02	<10	0.47	786	7	0.03	3	680	4	<5	<20	187	0.02	<10	25	<10	2	59
58	117726	<0.2	0.69	<5	30	<5	2.86	<1	4	106	12	1.74	<10	0.33	1441	28	0.02	3	640	14	<5	<20	193	<0.01	<10	10	<10	3	120
59	117727	<0.2	0.77	<5	45	<5	2.07	<1	4	112	13	1.76	<10	0.36	1105	63	0.02	4	700	10	<5	<20	199	0.01	<10	15	<10	2	68
60	117728	0.4	0.82	<5	40	<5	3.18	<1	4	96	31	1.85	<10	0.21	1924	20	0.01	3	600	16	<5	<20	163	<0.01	<10	5	<10	3	199

m96-6

m-96-7

ALMADEN RESOURCES — **ICP CERTIFICATE OF ANALYSIS AK 98-1119** — **ECO-TECH LABORATORIES LTD.**

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
QC DATA:																													
Respilt:																													
1	64437	<0.2	0.56	<5	95	<5	1.10	<1	4	104	11	1.50	<10	0.36	473	2	0.03	3	460	4	<5	<20	81	0.04	<10	21	<10	4	44
36	117704	<0.2	0.57	<5	135	<5	2.55	<1	3	82	18	1.89	<10	0.27	1055	35	0.02	2	660	8	<5	<20	81	<0.01	<10	9	<10	1	260
71	117739	0.2	0.60	<5	295	<5	1.30	<1	3	160	24	1.85	<10	0.33	795	7	0.03	2	530	18	<5	<20	86	0.04	<10	21	<10	3	133
Repeat:																													
1	64437	<0.2	0.55	<5	100	<5	1.05	<1	4	121	14	1.51	<10	0.34	496	4	0.03	4	440	6	<5	<20	80	0.04	<10	21	<10	3	43
10	64446	<0.2	0.70	<5	95	<5	0.94	<1	5	118	18	1.85	<10	0.43	511	8	0.04	4	480	4	<5	<20	87	0.06	<10	23	<10	3	42
19	117655	<0.2	0.59	<5	85	<5	2.29	<1	3	127	13	1.33	<10	0.29	1294	7	0.02	3	480	6	<5	<20	165	0.02	<10	14	<10	4	146
36	117704	<0.2	0.59	<5	155	<5	2.47	<1	3	89	17	1.68	<10	0.29	1027	34	0.02	2	670	8	<5	<20	92	<0.01	<10	10	<10	2	284
45	117713	<0.2	0.73	<5	110	<5	2.12	<1	4	116	22	1.92	<10	0.38	1667	12	0.02	4	630	4	<5	<20	106	0.02	<10	17	<10	2	110
54	117722	<0.2	0.84	<5	45	<5	1.92	<1	5	92	22	1.88	<10	0.43	905	20	0.02	3	710	4	<5	<20	245	0.01	<10	19	<10	2	72
71	117739	<0.2	0.78	<5	320	<5	1.43	<1	4	150	20	2.05	<10	0.41	929	12	0.04	4	640	16	<5	<20	103	0.04	<10	24	<10	2	131
80	117748	<0.2	0.72	<5	65	<5	1.00	<1	5	133	15	1.79	<10	0.37	527	28	0.03	3	510	8	<5	<20	167	0.03	<10	23	<10	4	43
Standard:																													
GEO'98		0.8	1.80	70	160	<5	1.88	<1	20	64	74	4.10	<10	0.91	710	<1	<0.01	21	710	16	<5	<20	58	0.09	<10	80	<10	5	70
GEO'98		1.0	1.85	65	165	<5	1.81	<1	19	61	76	4.16	<10	0.95	723	<1	0.01	22	680	18	<5	<20	57	0.11	<10	74	<10	3	66
GEO'98		1.0	1.70	70	160	<5	1.90	<1	20	62	82	3.78	<10	0.93	645	<1	0.01	20	720	18	<5	<20	57	0.10	<10	76	<10	3	72

df/1119
XLS/98Kmisc#8

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

ALMADEN RESOURCES — ICP CERTIFICATE OF ANALYSIS AK 96-1119 — ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Tl %	U	V	W	Y	Zn
26	117662	0.8	0.43	5	35	<5	2.51	1	2	154	15	1.30	<10	0.27	2878	6	0.01	4	460	14	<5	<20	119	<0.01	<10	5	<10	3	620
27	117663	<0.2	0.83	<5	95	<5	1.75	<1	4	85	16	1.83	<10	0.42	1362	2	0.03	3	460	6	<5	<20	291	0.02	<10	17	<10	3	100
28	117664	<0.2	0.76	<5	105	<5	1.26	<1	4	126	13	1.61	<10	0.39	724	5	0.03	4	450	4	<5	<20	173	0.03	<10	19	<10	3	53
29	117665	1.2	0.69	<5	55	<5	1.56	<1	4	101	101	1.97	<10	0.34	1038	3	0.02	3	460	14	<5	<20	107	0.01	<10	11	<10	2	108
30	117666	0.2	0.62	<5	50	<5	1.50	<1	3	113	35	1.93	<10	0.31	1343	6	0.02	4	440	4	<5	<20	64	<0.01	<10	8	<10	2	118
31	117667	0.2	0.69	<5	90	<5	1.76	<1	4	101	39	1.78	<10	0.39	1554	2	0.03	3	470	6	<5	<20	125	0.02	<10	15	<10	3	304
32	117668	<0.2	0.47	<5	195	<5	2.04	<1	3	123	5	1.62	<10	0.41	1734	5	0.03	3	470	4	<5	<20	95	0.02	<10	13	<10	3	42
33	117701	<0.2	0.70	<5	305	<5	0.99	<1	3	92	11	1.84	<10	0.43	610	18	0.03	3	580	6	<5	<20	40	0.03	<10	22	<10	2	73
34	117702	<0.2	0.74	<5	215	<5	1.62	<1	4	116	14	1.85	<10	0.43	957	9	0.03	3	660	2	<5	<20	52	0.02	<10	19	<10	2	125
35	117703	<0.2	0.62	<5	205	<5	1.82	<1	3	95	15	1.80	<10	0.36	746	30	0.03	2	680	8	<5	<20	71	0.01	<10	15	<10	2	145
36	117704	<0.2	0.61	<5	155	<5	2.41	<1	3	89	17	1.65	<10	0.29	1002	32	0.02	2	680	8	<5	<20	94	<0.01	<10	10	<10	1	270
37	117705	<0.2	0.70	<5	75	<5	1.42	<1	5	113	16	1.94	<10	0.44	649	13	0.04	3	670	4	<5	<20	50	0.02	<10	21	<10	2	81
38	117706	<0.2	0.68	<5	140	<5	1.66	<1	4	93	18	1.89	<10	0.39	761	15	0.03	3	680	2	<5	<20	63	0.01	<10	18	<10	2	53
39	117707	1.0	0.67	<5	50	<5	1.70	5	4	106	287	2.10	<10	0.25	1141	13	0.01	3	600	18	<5	<20	69	<0.01	<10	9	<10	<1	3099
40	117708	17.6	0.56	<5	35	20	1.20	12	5	139	471	3.02	<10	0.13	957	30	<0.01	3	540	122	<5	<20	46	<0.01	<10	4	<10	<1	6653
41	117709	2.2	1.01	<5	65	40	1.17	<1	5	90	89	2.08	<10	0.46	748	9	0.02	4	610	14	<5	<20	155	0.01	<10	19	<10	<1	606
42	117710	<0.2	0.72	<5	210	<5	1.77	<1	4	99	22	1.74	<10	0.39	1054	8	0.02	3	660	2	<5	<20	98	0.02	<10	17	<10	2	200
43	117711	<0.2	0.63	<5	55	<5	1.98	7	4	104	87	1.71	<10	0.23	1154	12	0.01	3	650	6	<5	<20	80	<0.01	<10	7	<10	<1	3692
44	117712	0.2	0.58	<5	85	<5	2.57	1	4	105	17	1.42	<10	0.14	1897	21	0.01	3	640	6	<5	<20	101	<0.01	<10	7	<10	3	358
45	117713	<0.2	0.73	<5	110	<5	2.08	<1	4	116	21	1.89	<10	0.36	1636	12	0.02	4	620	6	<5	<20	102	0.02	<10	16	<10	2	106
46	117714	<0.2	0.70	<5	140	<5	1.99	<1	3	102	11	1.66	<10	0.30	1452	45	0.02	3	630	10	<5	<20	133	<0.01	<10	12	<10	2	101
47	117715	<0.2	0.71	<5	160	<5	1.50	<1	4	119	30	1.83	<10	0.42	734	11	0.03	3	710	4	<5	<20	92	0.02	<10	19	<10	1	55
48	117716	<0.2	0.73	<5	215	<5	1.44	<1	4	103	44	1.94	<10	0.47	733	50	0.03	3	710	6	<5	<20	93	0.02	<10	22	<10	2	71
49	117717	<0.2	0.85	<5	645	<5	0.69	<1	3	131	32	2.20	<10	0.54	612	16	0.05	4	680	<2	<5	<20	92	0.09	<10	35	<10	2	47
50	117718	<0.2	0.80	<5	130	<5	1.30	<1	5	97	17	2.06	<10	0.50	834	13	0.03	3	700	4	<5	<20	123	0.04	<10	26	<10	2	59
51	117719	<0.2	0.83	<5	75	<5	1.60	<1	5	106	13	1.99	<10	0.48	843	8	0.03	3	720	4	<5	<20	163	0.03	<10	26	<10	3	49
52	117720	<0.2	0.91	<5	70	<5	1.72	<1	5	81	24	2.08	<10	0.45	979	4	0.02	2	720	6	<5	<20	204	0.04	<10	26	<10	2	343
53	117721	<0.2	0.83	<5	75	<5	1.33	<1	5	105	15	1.99	<10	0.46	820	12	0.03	4	700	6	<5	<20	149	0.04	<10	26	<10	2	66
54	117722	<0.2	0.85	<5	45	<5	1.88	<1	4	91	21	1.85	<10	0.43	895	20	0.02	2	690	4	<5	<20	252	0.01	<10	19	<10	2	71
55	117723	<0.2	0.93	<5	70	<5	1.07	<1	5	98	18	2.10	<10	0.53	655	15	0.03	3	710	2	<5	<20	213	0.05	<10	30	<10	2	63
56	117724	<0.2	0.89	<5	90	<5	0.98	<1	5	106	17	2.20	<10	0.51	622	10	0.04	2	720	<2	<5	<20	151	0.06	<10	32	<10	2	54
57	117725	<0.2	0.82	<5	45	<5	1.70	<1	5	95	15	2.02	<10	0.47	786	7	0.03	3	680	4	<5	<20	187	0.02	<10	25	<10	2	59
58	117726	<0.2	0.69	<5	30	<5	2.86	<1	4	108	12	1.74	<10	0.33	1441	28	0.02	3	640	14	<5	<20	193	<0.01	<10	10	<10	3	120
59	117727	<0.2	0.77	<5	45	<5	2.07	<1	4	112	13	1.76	<10	0.36	1105	63	0.02	4	700	10	<5	<20	199	0.01	<10	15	<10	2	86
60	117728	0.4	0.62	<5	40	<5	3.18	<1	4	96	31	1.65	<10	0.21	1924	20	0.01	3	600	18	<5	<20	163	<0.01	<10	5	<10	3	199

ALMADEN RESOURCES — ICP CERTIFICATE OF ANALYSIS AK 96-1119 — ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Tl %	U	V	W	Y	Zn
61	117729	0.6	0.63	<5	65	<5	2.58	2	5	115	17	1.94	<10	0.28	1709	10	0.02	2	600	40	<5	<20	143	<0.01	<10	6	<10	1	814
62	117730	<0.2	0.67	<5	660	<5	1.51	<1	2	96	16	1.62	<10	0.45	642	16	0.03	4	700	4	<5	<20	104	0.02	<10	20	<10	2	46
63	117731	<0.2	0.74	<5	400	<5	1.38	<1	3	113	18	1.98	<10	0.47	722	16	0.03	4	700	6	<5	<20	100	0.02	<10	24	<10	2	56
64	117732	<0.2	0.77	<5	295	<5	1.06	<1	4	110	20	2.05	<10	0.47	707	21	0.04	3	640	6	<5	<20	98	0.05	<10	26	<10	2	51
65	117733	<0.2	0.77	<5	125	<5	1.27	<1	5	122	15	2.05	<10	0.47	729	12	0.04	3	670	8	<5	<20	106	0.03	<10	25	<10	3	55
66	117734	<0.2	0.78	<5	120	<5	1.34	<1	5	123	13	2.05	<10	0.48	698	16	0.04	3	670	6	<5	<20	91	0.02	<10	24	<10	2	72
67	117735	<0.2	0.80	<5	50	<5	1.28	<1	5	188	14	1.95	<10	0.44	655	20	0.04	5	620	4	<5	<20	124	0.01	<10	21	<10	2	49
68	117736	<0.2	0.68	<5	145	<5	1.90	<1	4	126	16	1.74	<10	0.37	907	19	0.03	4	650	6	<5	<20	98	0.01	<10	16	<10	2	49
69	117737	<0.2	0.69	<5	435	<5	1.17	<1	3	169	26	1.96	<10	0.43	690	15	0.04	4	610	6	<5	<20	83	0.02	<10	22	<10	1	68
70	117738	1.8	0.72	<5	100	<5	2.64	2	4	118	83	2.06	<10	0.30	1743	5	0.02	3	590	58	<5	<20	121	<0.01	<10	8	<10	2	946
71	117739	<0.2	0.70	<5	315	<5	1.35	<1	3	141	16	1.92	<10	0.38	672	11	0.03	3	620	16	<5	<20	94	0.04	<10	22	<10	2	120
72	117740	<0.2	0.74	<5	190	<5	1.02	<1	4	148	17	1.95	<10	0.44	659	13	0.04	4	620	4	<5	<20	94	0.04	<10	25	<10	2	47
73	117741	<0.2	0.71	<5	170	<5	1.19	<1	5	116	15	1.95	<10	0.45	661	35	0.04	4	630	2	<5	<20	83	0.06	<10	27	<10	2	44
74	117742	<0.2	0.91	<5	95	<5	1.20	<1	6	169	14	2.19	<10	0.50	686	24	0.04	4	670	6	<5	<20	180	0.07	<10	33	<10	2	48
75	117743	<0.2	0.67	<5	75	<5	0.72	<1	5	114	22	1.81	<10	0.40	500	10	0.04	3	540	4	<5	<20	68	0.06	<10	27	<10	2	40
76	117744	<0.2	0.78	<5	80	5	1.02	<1	6	141	20	2.07	<10	0.49	679	6	0.04	4	670	4	<5	<20	77	0.07	<10	29	<10	2	45
77	117745	<0.2	0.74	<5	100	<5	2.02	<1	4	129	13	1.88	<10	0.44	1051	10	0.03	2	620	10	<5	<20	146	0.03	<10	21	<10	3	204
78	117746	<0.2	0.80	<5	105	<5	0.64	<1	6	130	11	2.11	<10	0.50	585	6	0.04	4	670	6	<5	<20	97	0.06	<10	31	<10	3	54
79	117747	<0.2	0.65	<5	80	<5	1.31	<1	5	137	12	2.04	<10	0.48	720	8	0.04	4	670	2	<5	<20	149	0.03	<10	25	<10	3	88
80	117748	<0.2	0.82	<5	60	<5	1.05	<1	4	139	16	1.87	<10	0.43	554	29	0.04	4	560	4	<5	<20	175	0.03	<10	25	<10	4	42
81	117749	<0.2	0.80	<5	135	<5	0.77	<1	6	126	20	2.01	<10	0.50	535	16	0.04	5	600	4	<5	<20	81	0.06	<10	31	<10	3	42
82	117750	<0.2	0.78	<5	95	<5	0.88	<1	5	150	13	1.86	<10	0.46	583	38	0.04	5	540	4	<5	<20	111	0.05	<10	27	<10	4	40
83	117751	<0.2	0.70	<5	295	<5	0.89	<1	3	131	10	1.76	<10	0.46	567	6	0.04	5	530	4	<5	<20	66	0.04	<10	24	<10	3	40
84	117752	<0.2	0.68	<5	40	<5	2.01	<1	4	146	9	1.64	<10	0.33	951	13	0.03	5	540	10	<5	<20	138	<0.01	<10	13	<10	2	414
85	117753	<0.2	0.80	<5	65	<5	1.60	<1	4	150	30	2.04	<10	0.36	935	37	0.04	3	530	24	<5	<20	101	0.02	<10	19	<10	3	473
86	117754	0.2	0.78	<5	240	<5	0.90	<1	5	196	39	1.97	<10	0.42	818	28	0.05	5	490	10	<5	<20	97	0.05	<10	27	<10	4	46
87	117755	<0.2	0.66	<5	445	<5	0.73	<1	4	163	10	1.84	<10	0.41	517	20	0.04	5	480	16	<5	<20	51	0.06	<10	25	<10	4	39
88	117756	0.4	0.60	<5	50	<5	1.26	<1	4	147	33	1.72	<10	0.29	806	21	0.03	4	460	12	<5	<20	73	<0.01	<10	12	<10	3	334
89	117757	2.6	0.72	<5	50	<5	1.15	4	7	136	419	2.72	<10	0.26	1027	26	0.02	4	490	64	<5	<20	66	<0.01	<10	11	<10	<1	2051
90	117758	0.6	0.55	<5	45	<5	2.05	1	4	141	24	1.70	<10	0.23	1306	7	0.02	3	450	46	<5	<20	114	<0.01	<10	11	<10	4	577
91	117759	0.4	0.46	<5	50	<5	1.42	3	4	118	27	2.05	<10	0.25	1175	43	0.01	3	430	56	<5	<20	51	<0.01	<10	8	<10	2	1436
92	117760	<0.2	0.70	<5	450	<5	0.94	<1	4	174	19	2.06	<10	0.41	834	12	0.04	5	520	12	<5	<20	51	0.05	<10	23	<10	3	127
93	117761	<0.2	0.60	<5	100	<5	0.64	<1	5	127	13	1.72	<10	0.35	529	27	0.03	3	400	10	<5	<20	46	0.06	<10	25	<10	3	43

m-96-7

m-96-7

ALMADEN RESOURCES — ICP CERTIFICATE OF ANALYSIS AK 96-1119 — ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
QC DATA:																													
Resplit:																													
1	64437	<0.2	0.56	<5	95	<5	1.10	<1	4	104	11	1.50	<10	0.36	473	2	0.03	3	460	4	<5	<20	81	0.04	<10	21	<10	4	44
36	117704	<0.2	0.57	<5	135	<5	2.55	<1	3	82	18	1.69	<10	0.27	1055	35	0.02	2	660	8	<5	<20	81	<0.01	<10	9	<10	1	260
71	117739	0.2	0.60	<5	295	<5	1.30	<1	3	150	24	1.85	<10	0.33	795	7	0.03	2	530	18	<5	<20	86	0.04	<10	21	<10	3	133
Repeat:																													
1	64437	<0.2	0.55	<5	100	<5	1.05	<1	4	121	14	1.51	<10	0.34	496	4	0.03	4	440	6	<5	<20	80	0.04	<10	21	<10	3	43
10	64446	<0.2	0.70	<5	95	<5	0.94	<1	5	118	18	1.65	<10	0.43	511	8	0.04	4	480	4	<5	<20	87	0.05	<10	23	<10	3	42
19	117655	<0.2	0.59	<5	85	<5	2.29	<1	3	127	13	1.33	<10	0.29	1294	7	0.02	3	480	6	<5	<20	185	0.02	<10	14	<10	4	148
36	117704	<0.2	0.59	<5	155	<5	2.47	<1	3	89	17	1.68	<10	0.29	1027	34	0.02	2	870	8	<5	<20	92	<0.01	<10	10	<10	2	284
45	117713	<0.2	0.73	<5	110	<5	2.12	<1	4	116	22	1.92	<10	0.36	1667	12	0.02	4	630	4	<5	<20	106	0.02	<10	17	<10	2	110
54	117722	<0.2	0.84	<5	45	<5	1.92	<1	5	92	22	1.88	<10	0.43	905	20	0.02	3	710	4	<5	<20	245	0.01	<10	19	<10	2	72
71	117739	<0.2	0.76	<5	320	<5	1.43	<1	4	150	20	2.05	<10	0.41	929	12	0.04	4	640	16	<5	<20	103	0.04	<10	24	<10	2	131
80	117748	<0.2	0.72	<5	65	<5	1.00	<1	5	133	15	1.79	<10	0.37	527	28	0.03	3	510	6	<5	<20	167	0.03	<10	23	<10	4	43
Standard:																													
GEO'96		0.8	1.80	70	160	<5	1.88	<1	20	64	74	4.10	<10	0.91	710	<1	<0.01	21	710	16	<5	<20	58	0.09	<10	80	<10	5	70
GEO'96		1.0	1.85	65	165	<5	1.81	<1	19	61	76	4.16	<10	0.95	723	<1	0.01	22	680	18	<5	<20	57	0.11	<10	74	<10	3	68
GEO'96		1.0	1.70	70	160	<5	1.90	<1	20	62	82	3.78	<10	0.93	645	<1	0.01	20	720	18	<5	<20	57	0.10	<10	76	<10	3	72

df/1119
XLS/96Kmisc#8

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer