85-151-13559
04186

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,559

GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE

WATER 1-9 CLAIMS

KAMLOOPS MINING DIVISION

BRITISH COLUMBIA

LATITUDE 51° 35'N LONGITUDE 119° 58'W

N.T.S. 82M/12W, 92P/9E

BY

J. A. TURNER

AND

J. NEBOCAT

MARCH 22, 1985

CLAIMS OWNED BY: Newmont Exploration of Canada Limited

WORK DONE BY: Newmont Exploration of Canada Limited

WORK DONE BETWEEN: September 24 to October 29, 1984

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SUMMARY

The **WATER** claims were staked in May 1984 by Newmont Exploration of Canada Limited to cover an area believed to contain favourable geologic environments which may host volcanic or exhalite-hosted gold deposits. The property consists of 125 units (3125 hectares) in 9 claim blocks and they are located in the Cariboo Mountains in central British Columbia or approximately 120 km north of Kamloops.

Newmont's, crew consisting of up to seven persons, carried out exploration work on the claims during the period from September 24 to October 29, 1984 and they completed prospecting, geologic mapping and geochemical sampling.

A siliceous horizon (sericite schist) which was found to be geochemically anomalous in gold, was discovered on the **WATER** 7-9 claims by Newmont crews. This unit contains abundant quartz, pyrite and minor amounts of galena and chalcopyrite which may form conspicuous gossans. Some rock chip samples taken across the mineralization returned values up to 2200 ppb Au, 7.5 ppm Ag and 1267 ppm Cu over 1 m widths. The horizon has an exposed length of 1500 m and a width of 200 m.

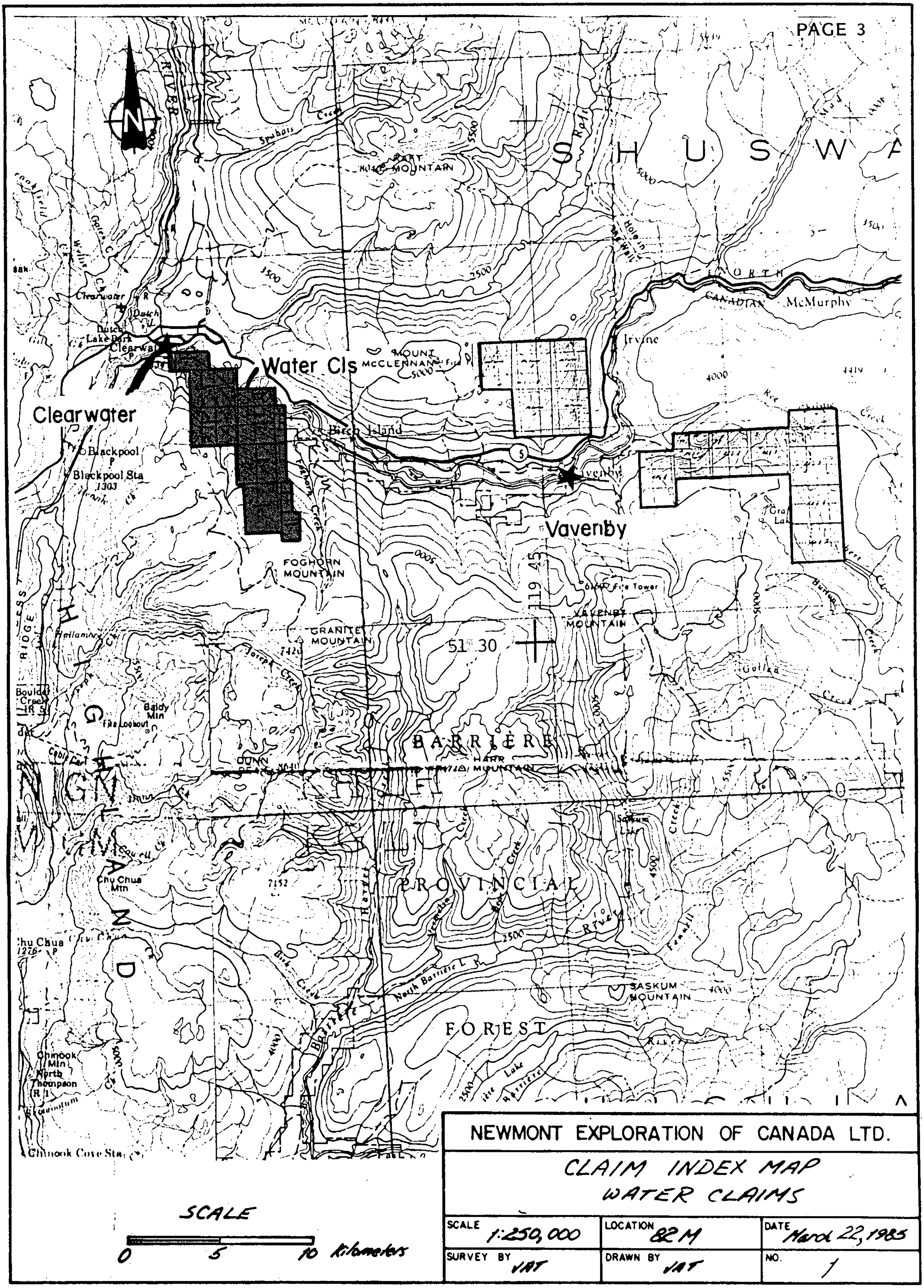
The results of the field work suggests that the **WATER** claim group may have some potential for hosting a bulk tonnage gold deposit and it is recommended that follow-up detailed geologic mapping, rock geochemical sampling, and geophysical surveys be carried out on selected areas of the claims in an attempt to locate mineralized showings and possible drill targets.

1.0 INTRODUCTION

The **WATER** claims are located in mountainous terrain in the western most part of the Omineca Crystalline Belt. They are situated approximately 120 km north of Kamloops in the Cariboo Mountains, British Columbia. The town of Clearwater lies 1 km west of the claims. The North Thompson River passes through the north boundary of the claims. Access to the claims in 1984 was provided by 4- wheel drive truck in the northwestern half, and by helicopter in the southern half of the claim group. The helicopter support was provided by Horizon Helicopters Ltd who maintain a base at Clearwater.

The nine claims comprise one hundred twenty five units which cover a portion of the north slope of Foghorn Mountain. Over most of the claim area, the slopes are gentle to flat and they become steeper in the central area of the claims. The area is forested and outcrop is generally sparse, but is present in the canyon of McDougal Creek, in rock cuts along the CN railroad tracks, and on several low hills on **WATER** 1-3 claims. Elevations within the claim group range from 427 metres (1400 feet), along the North Thompson River, to 1859 metres (6100 feet), along the southern boundary of the claims.

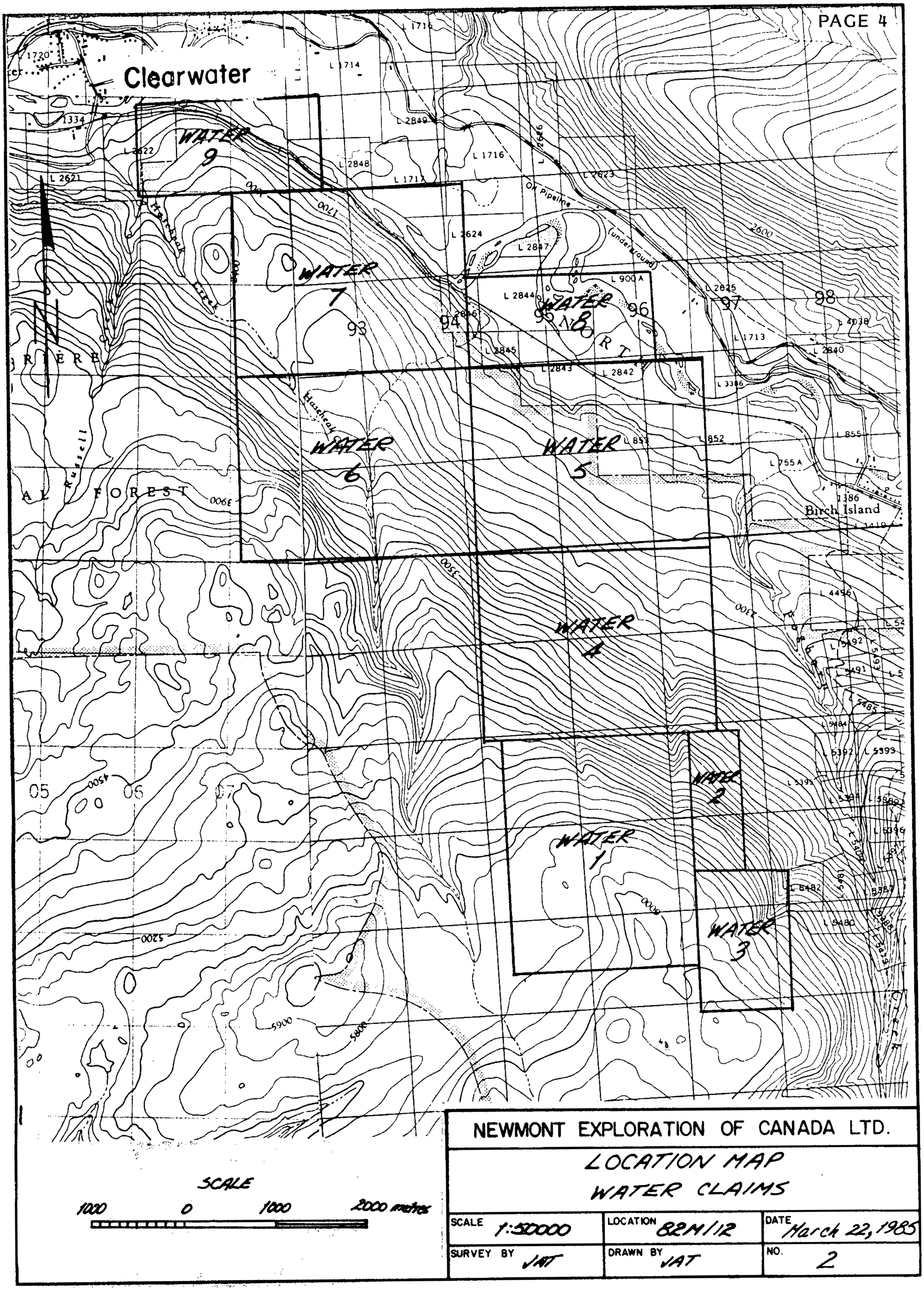
Newmont geologists, J. Turner and J. Nebocat, supervised a crew which varied from three to seven men and included G. McLaren, L. Diakow, T. Hanel, geologists; A. Sheldon, A. Seney, C. Roste, J. Laird, as field assistants, who carried out a limited programme of geologic and geochemical surveys. A total 76 silt and 55 rock chip samples were collected in conjunction with the geologic mapping. Geochemical work was conducted on the **WATER** 1, 4-9 claims and geologic work was carried out over the whole claim group. The total area covered was approximately 1500 hectares.



NEWMONT EXPLORATION OF CANADA LTD.

CLAIM INDEX MAP
WATER CLAIMS

SCALE 1:250,000	LOCATION 82 M	DATE March 22, 1985
SURVEY BY JAT	DRAWN BY JAT	NO. 1



NEWMONT EXPLORATION OF CANADA LTD.

LOCATION MAP
WATER CLAIMS

SCALE 1:50000	LOCATION 82M/12	DATE March 22, 1985
SURVEY BY JAT	DRAWN BY JAT	NO. 2

A 1:10,000 enlargement of a portion of the topographic map sheets, 82M/12W and 92P/9E, was used as a base map for this project. Both the geologic and the geochemical maps are presented on a scale of 1:10,000 and a more detailed area on **WATER** 7 & 9 on a scale of 1:7000.

The purpose of this project was to locate and define favourable geologic environments for volcanic or exhalite-hosted gold deposits. The target sought in this project is a bulk tonnage deposit. The type deposit in the area is the Foghorn Mountain Ag, Pb, Zn deposit which is hosted in or near a massive siliceous cherty quartzite or exhalite. This siliceous horizon is believed to continue to the north on to the **WATER** group, as is indicated on B.C.D.M. preliminary map 53. Work in 1984 has shown that this horizon is present on the **WATER** 7-9 claims and appears to be geochemically anomalous in gold.

2.0 PROPERTY DESCRIPTION Figures 1 & 2

The claims covered in this report total 125 units in 9 modified grid claims, and they are recorded in the Kamloops Mining Division. The claims are 100% owned by Newmont Exploration of Canada Limited and are described as follows:

CLAIM	UNITS	RECORD NO.	RECORD DATE
Water 1	20	5689	May 29, 1984
Water 2	3	5690	May 29, 1984
Water 3	6	5691	May 29, 1984
Water 4	20	5692	May 29, 1984
Water 5	20	5693	May 29, 1984
Water 6	20	5694	May 29, 1984
Water 7	20	5695	May 29, 1984
Water 8	8	5696	May 29, 1984
Water 9	8	5697	May 29, 1984

3.0 HISTORY

The earliest recorded work completed in the area covered by the **WATER** claims is described in the British Columbia Minister of Mines Annual Reports for the years 1913 to 1979. The ground was originally staked as the **SONJA** claims, which are presently owned by R. J. Franks of Vavenby. The mineralization consists of galena and sphalerite in quartz veins. Several trenches, an adit, and several drill holes were completed on what is now known as the Julian claim. The deposit is described as the Sonja (Waterclear) mine in the Mineral Inventory as No. 49. Mr. Franks optioned these claims plus additional claims* to Craigmont Mines Limited in 1978 who carried out magnetic and VLF-EM surveys, a soil geochemical survey and drilled 5 diamond holes totalling 498 m, but the results were disappointing and the option was dropped. Cominco Limited optioned the property in 1979 and they conducted geologic mapping and soil geochemical surveys mainly southwest of the area previously covered by Craigmont. No work after 1979 is recorded and the claims were allowed to lapse in 1984. Mr. Franks still holds four 2-post claims which covers the Waterclear adit area, ie. Julian 1 & 2, Zen 6 & 7.

The **WATER** claims were staked in May 1984, and limited geological and geochemical surveys were completed in October of that year.

4.0 GEOLOGY

4.1 Regional Geology

The **WATER** property is situated along the western margin of the Omineca Crystalline Belt in the Clearwater map-area. The most recent mapping of the area is by Okulitch (1978) of the G.S.C., and by Schiarizza et al (1984) of the B.C.D.M. and the geology of the claims is largely projected from these sources.

* additional claims were staked (CW) on ground which the **WATER** claims now cover

The regional mapping shows that the **WATER** claims are at the northwestern end of the Paleozoic Eagle Bay Formation. The rocks consist of a northwesterly striking, gently dipping sequence of basalt to rhyolite volcanic rocks, granitic intrusives and meta-sediments. This northern segment of the Eagle Bay strata is separated from the main belt by the Cretaceous Baldy Batholith, about 12 km south of the property. The Paleozoic Fennel Formation, which consists of tholeiitic pillow basalts and chert, occur in the western portion of the claim group.

4.2 **Property Geology**

About 95% of the property is covered by overburden, which according to Alley (1975), consists of sandy moraine, slope deposits, kames and glacial till. The property mapping was carried out on a reconnaissance scale and is presented on Map 1, and the detail geology and geochemistry was carried out on the **WATER** 7, 8 & 9 claims and is shown on Map 4. Both maps are enclosed in the back pocket of this report.

4.2.1 **Lithology**

The earliest unit exposed on the property consists of a grey to black, graphitic, well-bedded and foliated, phyllite and slate. They generally strike about 045° and have gentle dips of 20-29° to the SE. Foliation appears to closely parallel the bedding. The slates or argillites occur in the northern area of the claims. In a few locations, particularly in a canyon on McDougal Creek, they are interbedded with the overlying felsic units.

Overlying the black slate or argillite is a silvery grey to white quartz-eye sericite schist on felsic acid volcanic rock. The felsic horizon is exposed on the southern bank of the North

Thompson River and has an apparent strike length of 5.5 km running parallel to the river. It has an exposed width of approximately 700 m. The horizon is predominantly composed of well foliated sericite schists with paper thin laminae. The rock is very homogeneous in its appearance. This is particularly evident in the McDougal Creek canyon where a 500 m exposure of the sericite schists shows little to no variation in composition. Due to their homogeneity and a very well foliated character these schists are considered to be derived from tuffs (subaerial ejection over shallow water?) of rhyolitic to trachytic composition. The tuffs interfinger with and give way to argillite to the NW.

Within the felsic horizon is a light coloured, well-foliated pyritic, sericitic and silicified schist. The best exposed section is along the railroad tracks in the northern part of the **WATER** 7 claim. This horizon is believed to be an exhalite horizon, and is characterised by its sericite (5-15%), its silica (85%), and its pyrite (3-7%) content. The pyrite is present most often along the foliation planes of the rock. In the most intensely altered zone, pyrite content increases to about 10% and forms a conspicuous gossan. Quartz with pyrite veins up to 2.5 m wide occur locally. The horizon has a exposed length of 1.5 km, and exposed width of 200 m. A parallel or en echelon, horizon occurs on the **JULIAN** and **ZEN** claims. Several quartz boulders which contained 5-40% galena were found during the examination of the Waterclear Mine and its adjacent area.

On McDougal Creek the felsic volcanic rocks grade upward into a more intermediate volcanic or dacite. They are light to medium green and well foliated chlorite feldspar schists. They consist of flows, breccias, crystal tuffs and fine lithic tuffs. The dacites that occur in the southern portion of the claims appear to have a higher feldspar content. A small hornblende diorite, interpreted to be subvolcanic, intrudes these dacites on the **WATER** 1 claim.

Overlying the dacites is a dark green, medium grained porphyritic chlorite schist, which is probably a basalt or andesite. The exposures are only seen in McDougal Creek and in the NE part of the **WATER** 1 claim.

In thrust contact with the rocks of the Eagle Bay Fm. are rocks of the Fennel Fm. They consist of interbedded tholeiitic basalts and cherts and they occur as several cliff forming outcrops on the western portion of the **WATER** 6 & 7 claims.

4.2.2 Mineralization and Alteration

Generally, the mineralization observed on the **WATER** claims consists of pyrite and galena (Julian 1 claim). Pyrite occurs in most units but is predominant in the siliceous exhalite, where the pyrite content can range up to 15%. Minor chalcopyrite also occurs in these rocks. Several 1 m rock chip samples taken over the more pyritic members of the silicified rocks returned values up to 1267 ppm Cu, 7.5 ppm Ag and 2200 ppb Au. Results obtained from rock chip samples from quartz veins, mineralized with galena, and from the Waterclear adit area produced values up to 25.8 ppm Ag and 5927 ppm Pb.

Regionally the rocks have been subject to greenschist metamorphism, but minor biotite-hornblende hornfels occur near the intrusive mapped on the **WATER** claim. Intense sericitiztion and silicification and local pyritization occur in the more felsic units. The felsic units are also quite well foliated and clay or argillic alteration is present. The rock weathers to a light yellowish-white colour and is quite crumbly in hand specimen.

4.2.3 Structure

All rocks in the **WATER** claim group exhibit a discernible foliation. The intensity of this foliation is however, somewhat variable. The very well-foliated feldspar sericite-chlorite schists and sericite schists probably represent crystal tuff and tuff respectively. Slightly foliated rocks such as the porphyritic andesite in the McDougal creek canyon are considered to be flows.

Original compositional layering is observable in the argillite along the main road. Beds of quartzite less than 1 m thick occur with the argillite and they are subparallel to foliation. Attitudes of argillite layers found within the sericite schist also trend subparallel with foliation.

Foliation attitudes tend to be variable in the rocks of the northern section of the **WATER** claim group. Dips are shallow, rarely greater than 30° and tend to average 14°. Thus if foliation and bedding are very close to flat lying the variation in the measurements is presumed to reflect refolding or possible irregularities in the paleotopographic surface.

A distinct crenulation lineation can be observed in the felsic volcanics and argillite along the lower main road and in the vicinity of the railway track. It can be detected in the sericite schist of the McDougal Creek canyon but not in the dacitic units above it. This lineation may be the expression of a fold axis which, if an average is taken, would trend approximately Az 120°. The road and railway outcrops indicate a gentle plunge to the SE. Measurements in the McDougal Creek canyon however, indicate a NW plunge. This may imply there has been some later flexure in the axial plane.

It is difficult to determine whether the presumed fold would be antiformal or synformal due to the flat lying nature of the units. A possible scenario may be that a recumbent synform has been overthrust onto the Fennel formation and subsequent erosion has removed the upper limb.

5.0 GEOCHEMISTRY

Seventy-six silt samples and fifty-five rock samples were taken on the property; soil samples were not taken because of the extensive glacial till cover. Silt sample sites are located at intervals between 100 m and 200 m along the streams, and rock samples were taken from outcrops where sulphide mineralization was observed.

5.1 Analytical

The samples were placed in numbered Kraft paper or plastic bags and sent to Acme Analytical Labs in Vancouver where they are dried, sieved to -35 mesh, pulverized, and analysed for 30 elements by the Inductively Coupled Plasma (I.C.P.) technique. In this method, a 0.5 gm sample is digested with 3 ml of 3:1:3 nitric acid to hydrochloric acid to water at 90° for 1 hour, and the sample is diluted with water to 10 ml and then analysed in the I.C.P. unit.

For Au, a 10 gm sample that has been ignited overnight at 600° is digested with hot dilute aqua regia, and the clear solution obtained is extracted with Methyl Isobutal Ketone (MIBK). Au is determined in the MIBK extract by atomic absorption, using a background correction (detection limit = 5 ppb). For rocks, gold is determined by a separate fire assay.

5.2 Results and Interpretation

The analytical results of the rock and silt samples are tabulated in Appendix I and Appendix II, respectively. Silt sample values for Cu, Pb, Zn are plotted on Map 2, and the values for Ag, Au, and As are shown on Map 3. Map 4, a detailed geology/geochem map of portions of the **WATER** 7, 8 and 9 claims, shows only Cu, Ag and Au values.

Threshold values for the above-mentioned elements were estimated because of the limited number of samples, and they are shown on their respective maps. Because only Cu, Ag, and Au values are shown for rock samples on Map 4, rock threshold values were estimated for just three elements.

5.2.1 Silt Samples

The silt samples yielded generally low values in all elements. Threshold values were estimated since the small number of samples negated obtaining any relevant statistics.

Near the southwest corner of the **WATER** 7 claim, in a tributary of Hascheak Ck., two consecutive samples ran 57 ppm Pb and 54 ppm Pb; a sample 400 m upstream also ran 58 ppm Cu. No mineralized float was seen along this stream.

Near the mouth of Hascheak Ck., and along the west side of the **WATER** 9 claim, six samples yielded anomalous Zn values ranging from 110 ppm to 178 ppm. The 178 ppm Zn occurs in the uppermost sample and was taken from the mouth of Russell Ck., a tribrutary of Hascheak Ck. This sample also ran 54 ppm Cu, but no mineralization is known to exist upstream from here.

An unnamed creek, just west of Foghorn Ck., yielded three consecutive samples which were slightly anomalous in Pb. The samples ran 52 ppm, 58 ppm, and 58 ppm Pb, respectively, over 700 m, upstream. Again, no mineralization was noted here.

5.2.2 **Rock Samples**

Rock sampling was concentrated primarily on the **WATER** 7 and **WATER** 9 claims, but a few samples were taken near the south end of the **WATER** 1 claim.

A siliceous horizon, thought to be a exhalite, is intercalated with yellowish-white quartz-sericite schist and rhyolite and outcrops over a 2 km length, just above the CN railway (see Map 4). This horizon contains an average of roughly 5% disseminated pyrite throughout its exposure. Numerous rock samples were taken from this horizon and the rhyolite over widths ranging from 1.0 m to 2.0 m; a few samples were either "grab" samples or chip samples taken over greater widths.

Anomalous gold values occur in three samples: two grab samples ran 105 ppb and 125 ppb Au; and, a 1.0 m chip sample ran 2200 ppb Au. Significant copper values coincide with the gold anomalies - 1816 ppm, 430 ppm, and 1267 ppm Cu, respectively. Also, anomalous copper values, ranging from 105 ppm to 1816 ppm, occur within an area 100 m wide by 300 m long within the "exhalite" unit. In addition, silver is slightly enhanced with values ranging from 0.5 ppm to 7.5 ppm Ag. The outcrops along the road contain some finely disseminated chalcopyrite, but none was observed in the exposures below them, along the railroad.

Samples taken alongside the Waterclear Mine gave values of up to 90 ppb Au, 25.8 ppm Ag, and 120 ppm Cu. Galena, pyrite, and pyrrhotite occur in quartz veins along an argillite/exhalite contact. This contact is believed to be along a fault, and the "exhalite" may in fact be a silicified zone within the argillite.

The five rock samples taken on the **WATER** 1 claim are from a rusty-weathering dacite tuff; no significant results occur in these samples.

6.0 CONCLUSIONS

1. A sequence of intermediate to felsic flows and volcaniclastics, belonging to the Upper Paleozoic Eagle Bay Formation, underlies the **WATER** claims and is thrust over the Permo-Triassic Fennel Formation, a massive assemblage of mafic to intermediate flows and related sediments.

2. A stratabound, siliceous and pyritic horizon, occurring within rhyolite, may be an exhalite.

3. Geochemically anomalous values in Au, Ag, and Cu occur within the exhalite horizon. This horizon is a favourable target to explore for volcanogenic base metal and precious metal deposits.

7.0 RECOMMENDATIONS

1. A grid should be established between the **WATER** 5 and **WATER** 9 claims for control in mapping and for geophysics.

2. A pulse electromagnetic survey and a proton magnetometer survey should be run over the grid to test for massive sulphide mineralization at depth.

3. Systematic rock sampling should be carried out on the exhalite horizon as well as on other rocks found on the grid. Geochemical patterns may provide vectors to direct further exploration.

John N Elbourt

8.0 REFERENCES

ALLEY, N. F., 1984: Surficial Materials, Seymour Arm (82 M), G.S.C. Open File 1002.

B.C. MINISTER OF MINES ANNUAL REPORTS from 1913 to 1979 for Mineral Inventory numbers 8, 29, 30, 40, 49 & 159 and Assessment Reports 6862 & 7575.

OKULITCH, A. V. 1978: Geology of the Thompson-Shuswap-Okanagan Map-Sheet 82L, M, G.S.C. Open File 637.

SCHIARIZZA, P., et. al, 1984: Geology of the Barriere River Clearwater Area. B.C. Department of Mines, preliminary map no. 53.

9.0 STATEMENT OF COSTS

1. PERSONNEL

Project Geologists

1.	Sept. 24-28, 1984 Oct. 3-4, 1984 Mar. 18-22, 1984	
	12 days @ $125	$1500.00
2.	Oct. 18, 26-29, 1984 Feb. 22, 26, 28, 1985 Mar. 20-22, 1985	
	11 days @ $125.00	$1375.00

Geologists

1.	Sept. 24-28, 1984 Oct. 3-4, 1984	
	7 days @ $150.00	$1050.00
2.	Oct. 14-19, 1984	
	6 days @ $145.00	$ 870.00
3.	Sept. 24-28, 1984 Oct. 3-4, 7-9, 11-14, 25-29, 1984 Nov. 1-2, 5, 1984	
	22 days @ $110.00	$2420.00

Field Assistants

1.	Oct. 8, 10-13, 1984	
	5 days @ $100.00	$ 500.00
2.	Oct. 18, 25-29, 1984	
	6 days @ $90.00	$ 540.00
3.	Oct. 18, 25-29, 1984	
	6 days @ $80.00	$ 480.00

4. Oct 18, 25-29, 1984		
6 days @ $80.00	$ 480.00	
Drafting		
March 4, 1985		
1 day @ $101.00	$ 101.00	
		$ 9316.00
2. FOOD AND ACCOMMODATION		
70 man-days @ $47.14		$ 3299.80
3. TRANSPORTATION		
4 x 4 suburban inc. gas		
25 days @ $65.00	$1625.00	
Helicopter	$ 289.50	
		$ 1914.50
4. ASSAYS		
76 Silt 30 el ICP + Au (AA) @ $11.85	$ 900.60	
55 Rock 30 el ICP + Au (FA+AA) @ $14.25	$ 783.75	
		$1684.35
5. REPORT PREPARATION, TYPING ETC.		$1200.00
		$17414.65
		=========

The cost of this work is apportioned as follows:

Water 1-3	$ 3,051.12
Water 4-9	$14,363.53

10.0 STATEMENT OF QUALIFICATIONS

I, James A. Turner, residing at 14149 17 A Avenue, Surrey British Columbia, state that:

1. I have graduated from the University of British Columbia with a B.Sc. degree in physics with geology in 1973 and further academic work in geological sciences in 1976.

2. I have been employed by Newmont Exploration of Canada Limited, Vancouver, British Columbia as a Project Geologist since 1980.

3. I am a member of the Geological Association of Canada (Cordilleran Section).

4. I supervised the exploration project at the **WATER** property during September 1984 to October 1984.

5. The geological mapping and supervision of geochemical sampling were done by geologists J. Nebocat (BCIT 1974; B.Sc. Montana Tech expected in May 1985), L. Diakow (B.Sc. U. of Saskatchewan, now on a PhD at U. of Western Ontario), R. Lane (B.Sc. UBC, 1984), T. Hanel (B.Sc. U. of Manitoba, 1982).

John Nebocat

J. Nebocat, B.Sc.

J. A. Turner, B.Sc.

I, Terrence N. Macauley, do hereby certify that the work described in this report was done under my direction.

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
T. N. MACAULEY

T. N. Macauley

T. N. Macauley, P.Eng.

APPENDIX I - ROCK SAMPLE VALUES

sample	(--------ppm-----------							) %	(-----------ppm								-----------)	%	%	(ppm)		%	ppm	%	ppm	%	%	%	ppm	ppb
number	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au
R-1101	2	65	45	13	.2	5	2	364	1.00	4	5	ND	2	17	1	2	3	2	.06	.03	2	9	.03	154	.01	2	.07	.01	.01	2	5
R-1102	1	5	7	3	.1	2	1	76	.43	4	5	ND	2	8	1	2	2	2	.03	.01	3	3	.01	107	.01	2	.02	.01	.01	2	1
R-1103	1	34	17	37	.1	7	8	572	2.15	3	5	ND	10	697	1	3	2	5	2.25	.15	37	5	.87	1191	.01	3	.23	.02	.14	2	4
R-1104	1	37	16	52	.1	10	12	505	2.65	5	5	ND	9	165	1	2	2	16	1.12	.16	28	8	1.08	535	.01	2	.60	.03	.14	2	1
R-1105	1	47	14	49	.1	10	9	554	2.79	3	5	ND	10	270	1	2	2	15	1.61	.15	33	9	1.21	323	.01	3	.51	.04	.16	2	1
R-01116	4	82	370	163	1.9	25	4	394	4.19	2	5	ND	13	42	1	2	4	79	.18	.07	22	69	.88	66	.10	16	.89	.04	.15	2	11
R-01117	17	103	1440	338	4.8	62	20	437	3.33	933	5	ND	6	133	2	4	7	24	1.03	.18	11	34	.49	23	.04	14	.37	.03	.02	2	55
R-01118	15	108	434	123	1.5	55	9	269	3.71	622	5	ND	6	62	1	2	2	41	.31	.07	11	48	.58	50	.06	19	.70	.06	.17	2	39
R-01119	2	73	1000	888	3.6	20	4	525	3.27	150	5	ND	2	77	5	2	2	46	.59	.06	11	39	.81	201	.06	13	.90	.01	.60	2	12
R-01120	3	77	170	88	.1	33	7	289	2.83	6	5	ND	3	40	1	2	2	40	.05	.04	14	29	.54	192	.03	15	.72	.01	.34	2	5
R-01121	9	50	4621	58	14.7	17	3	312	2.55	38	5	ND	3	59	1	4	25	35	.23	.09	9	32	.53	142	.04	12	.69	.02	.32	2	90
R-01123	2	120	931	157	2.6	41	8	489	4.46	201	5	ND	10	45	1	2	2	55	.14	.08	22	59	1.06	120	.09	15	1.30	.03	.71	2	8
R-01124	68	41	5927	131	25.8	49	2	88	2.37	80	5	ND	3	82	1	2	34	28	.21	.08	11	47	.23	104	.01	11	.27	.03	.10	2	19
R-01125	1	15	28	73	.4	3	2	39	1.45	12	5	ND	4	28	1	2	2	4	.46	.04	3	2	.04	73	.01	3	.13	.02	.15	2	35
R-01126	2	55	38	67	.3	13	9	1308	4.54	59	5	ND	9	114	1	2	2	53	1.14	.07	4	18	1.29	76	.02	2	2.42	.23	.38	2	31
R-01127	2	76	18	127	.2	32	20	1084	3.03	4	5	ND	16	28	1	2	2	29	1.47	.11	16	18	.99	68	.02	3	1.93	.03	.18	2	32
R-01128	1	33	13	25	.2	10	3	110	2.40	3	5	ND	11	59	1	2	2	19	.12	.06	9	21	.34	88	.06	3	.59	.02	.17	2	4
R-01129	4	56	20	19	.6	4	1	17	3.98	13	5	ND	4	161	1	2	2	4	.02	.06	3	1	.01	55	.01	2	.18	.05	.16	2	14
R-01130	5	81	11	308	1.3	45	31	460	13.53	3	5	ND	20	130	1	2	2	17	.12	.15	13	19	.40	40	.01	2	1.42	.02	.29	2	20
R-01131	1	35	29	9	.5	13	10	27	3.80	8	5	ND	6	60	1	2	2	6	.06	.02	6	4	.01	16	.01	2	.25	.03	.02	2	2
R-01132	2	105	27	9	.9	17	9	22	3.72	61	5	ND	8	79	1	11	2	7	.06	.07	6	4	.02	21	.01	2	.16	.03	.07	2	33
R-01133	15	1816	50	13	2.1	5	3	13	1.46	20	5	ND	6	87	1	6	2	2	.22	.11	7	3	.01	15	.01	3	.23	.02	.01	2	105
R-01134	6	430	8	3	2.5	3	2	12	1.30	25	5	ND	6	183	1	16	2	3	.14	.13	9	2	.01	52	.01	4	.18	.02	.04	2	125
R-01135	5	221	16	6	.9	18	11	14	3.58	9	5	ND	6	36	1	2	2	3	.03	.05	8	3	.01	14	.01	4	.16	.01	.03	2	28
R-01136	5	79	13	3	.5	11	7	15	3.83	10	5	ND	4	80	1	2	2	7	.01	.06	5	5	.01	15	.01	5	.16	.02	.09	2	13
R-01137	6	1097	138	8	1.9	14	8	17	2.71	132	5	ND	6	71	1	3	3	6	.10	.06	4	5	.01	24	.01	3	.18	.01	.02	2	12
R-01138	1	16	5	20	.3	4	6	445	1.35	4	5	ND	10	84	1	2	2	3	3.79	.07	5	1	1.11	25	.01	4	.19	.01	.05	2	2
R-01139	2	20	8	24	.4	11	11	721	2.82	16	5	ND	8	114	1	2	2	8	7.14	.05	4	2	1.10	16	.01	2	.19	.03	.07	2	1
R-01140	1	11	6	14	.3	4	5	307	1.16	8	5	ND	8	133	1	2	2	5	4.38	.05	4	1	.83	15	.01	2	.24	.03	.04	2	1
R-01141	1	25	8	31	.2	7	8	649	1.86	8	5	ND	11	97	1	2	2	8	3.85	.06	10	3	1.17	39	.01	3	.34	.02	.07	2	1
R-01142	1	46	14	46	.5	6	13	789	2.75	18	5	ND	12	61	1	2	2	11	2.98	.07	4	4	1.31	54	.01	2	.45	.02	.09	2	4

APPENDIX I - ROCK SAMPLE VALUES

sample number	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Ni (ppm)	Co (ppm)	Mn (ppm)	Fe (%)	As (ppm)	U (ppm)	Au (ppm)	Th (ppm)	Sr (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	V (ppm)	Ca (%)	P (%)	La (ppm)	Cr (ppm)	Mg (%)	Ba (ppm)	Ti (%)	B (ppm)	Al (%)	Na (%)	K (%)	W (ppm)	Au (ppb)
R-09553	1	108	20	42	.2	22	14	267	3.45	13	5	ND	13	127	1	2	2	44	.48	.14	11	29	.81	71	.02	3	1.47	.14	.12	2	8
R-09554	2	26	9	103	.1	28	11	599	3.17	4	5	ND	3	65	1	2	2	33	.42	.16	5	45	.94	68	.09	3	1.35	.02	.13	2	1
R-09555	1	32	10	66	.1	19	8	414	2.46	2	5	ND	3	43	1	2	2	40	.35	.10	5	48	.86	82	.13	4	1.09	.02	.25	2	4
R-09556	1	35	13	39	.1	10	5	91	4.69	10	5	ND	5	87	1	2	2	26	.11	.07	6	11	.34	76	.09	3	.61	.03	.15	2	3
R-09557	1	38	8	45	.1	26	14	111	2.89	6	5	ND	3	34	1	23	2	19	.18	.08	3	16	.52	43	.09	4	.67	.02	.10	2	2
R-09558	1	57	19	69	.1	24	15	329	3.16	2	5	ND	10	230	1	2	2	75	1.21	.11	10	36	1.15	205	.10	3	2.72	.26	.69	2	3
R-09559	5	18	53	20	.1	5	1	138	1.63	22	5	ND	4	17	1	2	2	10	.04	.02	5	4	.18	86	.01	8	.26	.01	.10	2	3
R-09560	1	28	32	30	.2	4	1	216	2.39	23	5	ND	7	22	1	2	2	17	.04	.04	11	12	.63	111	.01	4	.59	.01	.10	2	1
R-09561	9	61	13	3	.2	4	2	15	1.57	6	5	ND	8	65	1	2	2	2	.03	.05	16	3	.01	20	.01	7	.16	.02	.04	2	40
R-09562	3	283	28	8	1.2	4	2	19	4.44	62	5	ND	5	193	1	2	3	18	.03	.08	3	1	.01	38	.01	2	.11	.05	.16	2	60
R-09563	7	1267	35	135	7.5	14	7	53	4.36	516	5	ND	12	1024	2	254	12	11	2.47	1.80	5	8	.01	50	.01	6	.37	.06	.14	2	2200
R-09564	1	394	36	5	.8	20	19	12	5.48	8	5	ND	4	70	1	2	3	3	.09	.05	5	1	.01	15	.01	3	.19	.02	.03	2	55
R-09565	1	130	11	6	.7	10	8	15	3.28	15	5	ND	5	36	1	6	2	5	.05	.03	5	1	.01	16	.01	4	.15	.01	.02	2	30
R-09566	2	221	13	12	1.1	22	10	14	3.37	31	5	ND	7	53	1	10	2	5	.15	.07	9	3	.01	25	.01	2	.19	.02	.03	2	43
R-09567	4	90	9	3	.4	5	3	26	3.15	13	5	ND	4	87	1	2	2	8	.06	.09	7	2	.01	20	.01	3	.15	.02	.11	2	7
R-09568	1	37	106	188	.4	11	8	893	3.61	22	5	ND	7	37	1	2	4	6	1.80	.08	2	2	1.22	30	.01	6	.30	.03	.08	2	1
R-09569	1	32	92	91	.3	11	9	415	3.89	17	5	ND	7	31	1	2	4	6	1.33	.10	2	1	.58	22	.01	2	.29	.03	.09	2	2
R-09570	1	29	20	45	.1	11	10	923	3.24	9	5	ND	9	25	1	2	2	5	2.41	.08	12	1	1.45	34	.01	4	.26	.02	.08	2	2
R-09571	1	20	14	36	.2	9	7	917	2.01	4	5	ND	10	81	1	2	2	3	2.35	.09	12	2	1.12	60	.01	5	.15	.02	.08	2	6
R-09572	1	47	8	32	.2	18	10	533	3.17	3	5	ND	14	66	1	2	2	5	2.55	.10	22	1	1.20	31	.01	3	.16	.02	.08	2	8
R-09573	1	66	12	25	.2	23	11	249	4.98	3	5	ND	15	39	1	2	2	5	1.62	.13	20	3	.55	27	.01	3	.16	.02	.09	2	2
R-09574	1	61	10	35	.1	25	11	351	4.81	7	5	ND	15	58	1	2	2	6	2.41	.14	16	3	1.09	23	.01	4	.16	.02	.07	2	4
R-09575	1	32	15	37	.2	6	7	461	2.07	8	5	ND	9	24	1	2	2	5	2.54	.06	2	2	1.37	16	.01	6	.30	.01	.06	2	3
R-09576	1	14	10	23	.1	7	7	263	2.49	6	5	ND	8	24	1	2	2	4	2.16	.06	2	2	1.21	18	.01	4	.24	.02	.07	2	2

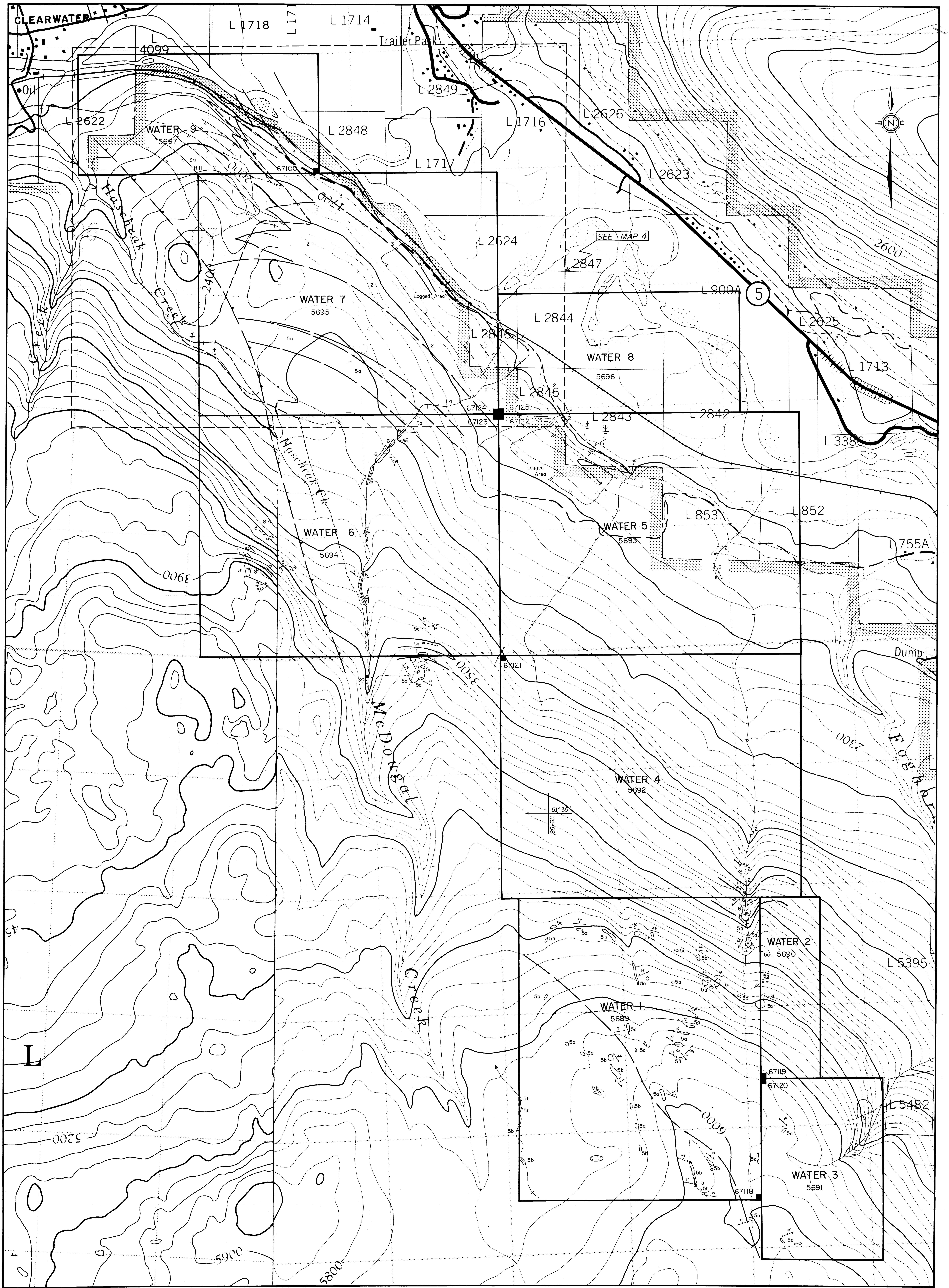
APPENDIX II - SILT SAMPLE VALUES

sample number	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	(ppm)	(ppm)	%	ppm	%	ppm	%	%	%	ppm	ppb
017	1	17	8	62	.3	13	7	266	1.56	5	5	ND	8	179	1	2	2	22	.81	.31	61	24	.85	200	.04	4	1.03	.02	.10	2	5
018	1	21	10	68	.3	14	8	464	1.96	3	5	ND	7	191	1	2	2	24	.74	.27	59	25	.89	255	.04	4	1.26	.02	.11	2	5
019	1	14	9	65	.2	13	7	451	1.77	2	5	ND	8	162	1	2	2	21	.62	.23	57	23	.94	210	.04	3	1.11	.01	.11	2	5
020	1	32	31	65	.2	22	11	540	2.44	13	5	ND	9	82	1	2	2	20	.66	.15	33	18	.81	171	.03	24	.87	.02	.11	2	5
021	1	26	23	56	.2	18	9	410	2.20	11	5	ND	9	66	1	2	2	19	.50	.16	33	16	.74	146	.03	25	.78	.01	.09	2	5
022	1	25	25	58	.1	19	9	449	2.19	12	5	ND	9	67	1	2	2	19	.45	.12	31	17	.75	149	.03	29	.83	.02	.11	2	5
023	1	27	24	59	.1	21	10	417	2.36	12	5	ND	10	77	1	2	2	21	.52	.18	39	19	.77	167	.03	30	.90	.02	.11	2	5
024	1	25	29	60	.1	21	10	460	2.20	10	5	ND	9	65	1	2	2	20	.35	.14	35	19	.73	147	.03	20	.84	.01	.10	2	5
025	1	24	26	58	.1	20	10	447	2.17	8	5	ND	9	63	1	2	2	20	.34	.13	36	19	.74	139	.03	21	.84	.02	.11	2	5
026	1	24	29	60	.1	20	10	435	2.27	10	5	ND	10	73	1	2	2	21	.38	.16	39	20	.74	162	.04	27	.86	.02	.12	2	5
027	1	24	26	60	.1	20	10	452	2.18	8	5	ND	10	68	1	2	2	20	.33	.13	36	20	.75	140	.03	20	.84	.02	.11	2	5
028	2	28	35	66	.1	22	11	545	2.41	11	5	ND	10	76	1	2	2	22	.37	.14	39	22	.77	169	.03	27	.90	.02	.12	2	5
029	2	25	27	61	.2	20	10	463	2.27	7	5	ND	10	74	1	2	2	21	.38	.15	42	19	.74	162	.03	28	.85	.02	.12	2	5
029A	1	27	29	61	.1	21	11	438	2.49	8	5	ND	10	82	1	2	2	24	.47	.22	47	21	.74	206	.04	29	.84	.02	.11	2	5
030	1	4	1	5	.3	2	1	42	.21	2	5	ND	2	482	1	2	2	2	26.28	.01	2	2	.10	77	.01	28	.07	.01	.01	2	5
031	1	21	24	53	.1	17	9	425	2.10	10	5	ND	9	60	1	2	2	17	.54	.10	31	16	.73	131	.02	26	.77	.02	.10	2	5
031A	1	22	6	32	.2	11	4	219	1.07	2	5	ND	3	525	1	2	2	10	14.36	.06	8	8	.48	106	.03	22	.49	.02	.08	2	5
139	2	28	36	73	.1	22	11	535	2.52	13	5	ND	11	91	1	2	4	23	.47	.18	45	23	.83	193	.04	21	.93	.02	.15	2	5
140	1	28	36	70	.1	23	12	509	2.52	12	5	ND	10	88	1	2	3	23	.47	.20	47	23	.81	198	.03	19	.91	.02	.14	2	5
141	2	28	35	70	.2	22	11	522	2.42	11	5	ND	9	80	1	2	4	21	.41	.16	41	21	.79	183	.03	27	.88	.02	.14	2	5
142	2	31	39	79	.1	23	12	536	2.63	13	5	ND	10	104	1	2	5	25	.53	.21	49	24	.86	227	.04	27	.98	.02	.15	2	5
143	2	32	31	67	.3	24	10	487	2.26	9	5	ND	6	201	1	2	2	21	3.50	.20	37	18	.65	213	.02	21	.78	.01	.11	2	5
144	2	26	23	57	.1	19	9	462	2.05	8	5	ND	5	125	1	2	3	19	.61	.12	31	18	.62	142	.02	21	.80	.01	.11	2	5
145	2	34	21	55	.3	16	7	644	2.27	16	5	ND	3	285	1	2	2	14	1.38	.10	20	11	.43	139	.01	27	.59	.01	.09	2	5
146	3	35	28	72	.3	18	9	567	2.54	15	5	ND	5	175	1	2	2	15	1.14	.09	28	10	.38	129	.01	22	.57	.02	.10	2	5
147	2	43	28	85	.4	18	9	693	2.26	14	5	ND	3	478	1	2	2	13	3.79	.11	19	11	.39	183	.01	28	.54	.02	.09	2	5
148	3	38	49	75	.3	17	8	611	2.24	13	5	ND	3	349	1	2	2	13	3.12	.10	21	11	.37	137	.01	7	.51	.01	.09	2	5
149	3	36	30	70	.4	18	9	627	2.44	12	5	ND	4	247	1	2	2	14	2.03	.09	24	11	.35	145	.01	28	.55	.02	.09	2	5
150	2	43	24	78	.4	18	8	626	1.91	11	5	ND	3	625	1	2	2	11	10.98	.11	15	10	.35	194	.01	35	.53	.01	.08	2	5
151	2	28	19	56	.3	13	6	403	1.85	10	5	ND	5	338	1	2	2	12	7.18	.08	22	7	.29	129	.01	22	.48	.02	.08	2	5
152	2	30	24	60	.3	13	7	458	1.90	9	5	ND	5	430	1	2	2	12	9.17	.09	19	9	.31	157	.01	31	.48	.02	.08	2	5
153	2	25	16	61	.2	12	6	390	1.79	10	5	ND	5	217	1	2	2	12	3.70	.07	20	7	.32	106	.01	22	.46	.02	.08	2	5
154	1	27	27	63	.1	19	10	439	2.25	8	5	ND	9	76	1	2	2	19	.70	.13	33	16	.76	137	.03	2	.81	.01	.09	2	5
155	1	31	18	80	.2	15	7	393	1.68	5	5	ND	4	505	1	2	2	14	14.32	.08	13	13	.60	131	.03	16	.70	.02	.12	2	5
168	1	2	1	4	.3	2	1	34	.09	2	5	ND	2	364	1	2	2	2	19.05	.01	2	1	.06	52	.01	5	.03	.01	.01	2	5
169	1	12	8	22	.3	8	3	216	.91	3	5	ND	3	204	1	2	2	12	8.21	.03	10	11	.20	76	.03	5	.48	.02	.08	2	5
170	1	3	4	6	.5	3	1	64	.19	3	5	ND	2	390	1	2	2	2	17.52	.01	2	1	.08	60	.01	2	.06	.01	.01	2	5
171	1	3	4	7	.4	2	1	48	.23	2	5	ND	2	367	1	2	2	2	16.78	.01	2	3	.10	52	.01	4	.09	.01	.01	2	5

APPENDIX II - SILT SAMPLE VALUES

sample	(--------ppm	-----------	-	-	-	-	-)	%	(-----------ppm	-	-	-	-	-	-	----------)	%	%	(ppm)		%	ppm	%	ppm	%	%	%	ppm	ppb
number	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au
220	1	30	27	51	.1	12	9	580	2.31	13	8	ND	9	220	1	2	2	22	.58	.15	37	12	.68	128	.03	7	.83	.02	.15	2	5
221	2	34	39	64	.1	13	10	494	2.63	18	5	ND	10	154	1	2	2	22	.48	.19	40	11	.63	108	.03	4	.80	.02	.14	2	5
222	2	38	41	67	.1	15	10	637	2.57	9	6	ND	7	335	1	2	2	23	.78	.17	37	15	.71	124	.03	5	.86	.02	.15	2	5
223	2	43	40	73	.1	15	10	632	2.60	13	10	ND	6	302	1	2	3	20	.86	.15	31	12	.63	119	.02	6	.81	.02	.15	2	5
224	2	30	33	60	.1	14	9	488	2.48	7	5	ND	7	136	1	2	3	16	.91	.11	28	8	.48	89	.02	4	.64	.02	.11	2	5
225	4	30	58	59	.1	15	9	533	2.49	10	5	ND	9	97	1	2	4	14	.78	.09	39	9	.41	117	.02	3	.53	.02	.11	2	5
226	4	32	58	62	.2	17	11	540	2.82	10	5	ND	9	142	1	2	4	18	.76	.13	45	11	.42	157	.02	3	.57	.02	.12	2	5
227	4	28	52	58	.1	15	9	525	2.47	8	5	ND	8	104	1	2	5	14	.64	.09	37	8	.41	114	.02	2	.54	.02	.11	2	5
228	3	29	45	53	.1	13	8	395	2.26	16	5	ND	8	75	1	2	4	14	.55	.10	40	9	.39	123	.02	3	.50	.02	.10	2	5
229	3	27	45	56	.2	14	8	454	2.44	8	5	ND	9	94	1	2	2	16	.59	.11	40	9	.41	122	.02	4	.54	.02	.11	2	5
230	3	27	43	54	.1	14	8	455	2.32	10	7	ND	8	123	1	2	3	15	.58	.11	39	9	.38	120	.02	2	.54	.02	.12	2	10
231	2	19	33	43	.1	10	6	335	1.78	11	5	ND	8	67	1	2	3	11	.34	.09	32	5	.34	76	.01	3	.46	.02	.10	2	5
232	2	21	35	47	.1	12	6	378	1.93	7	5	ND	7	100	1	2	2	13	.59	.08	30	8	.35	90	.02	4	.49	.02	.10	2	5
233	2	27	37	50	.1	13	7	397	2.11	9	5	ND	7	190	1	2	2	15	1.02	.10	34	10	.37	102	.03	4	.60	.02	.11	2	5
235	1	37	34	71	.1	25	8	262	2.38	10	5	ND	5	81	1	2	2	22	.59	.10	25	19	.50	262	.04	6	.85	.02	.11	2	5
238	1	34	57	57	.2	19	8	491	2.20	12	5	ND	6	41	1	2	2	17	.32	.07	28	13	.42	123	.02	3	.77	.02	.09	2	5
265	1	32	29	110	.4	30	10	592	2.51	15	5	ND	7	76	1	2	2	31	1.14	.09	20	22	.68	622	.06	15	.82	.02	.06	2	5
266	2	34	29	114	.1	30	10	589	2.53	13	5	ND	7	59	1	2	2	31	.55	.09	21	24	.72	555	.06	13	.85	.02	.08	2	5
267	1	34	29	119	.1	33	10	638	2.67	17	5	ND	7	60	1	2	2	34	.49	.10	22	25	.74	771	.07	16	.89	.02	.07	2	5
268	2	45	37	139	.2	39	13	693	3.18	20	5	ND	7	65	1	2	2	41	.51	.11	23	29	.78	875	.07	14	1.00	.02	.08	2	5
269	1	35	31	111	.2	33	10	664	2.72	16	5	ND	10	54	1	2	2	25	.51	.09	26	18	.61	553	.04	12	.83	.02	.09	2	5
270	2	55	38	178	.3	41	14	931	3.45	20	5	ND	6	43	1	2	2	45	.47	.11	16	32	.86	531	.08	18	1.01	.01	.06	2	5
271	1	23	28	67	.1	19	8	697	2.18	12	5	ND	7	53	1	2	2	20	.49	.07	24	13	.53	356	.04	11	.72	.02	.06	2	5
272	1	23	40	62	.1	17	8	607	2.09	11	5	ND	8	56	1	2	2	20	.56	.08	19	13	.52	411	.04	10	.68	.02	.07	2	5
273	1	20	26	60	.1	15	7	747	1.92	8	5	ND	6	56	1	2	2	18	.56	.07	20	13	.53	271	.04	14	.68	.02	.07	2	5
274	1	21	26	66	.2	15	7	783	1.96	7	5	ND	7	58	1	2	2	18	.57	.07	23	12	.49	182	.04	10	.68	.02	.07	2	5
275	1	17	23	53	.1	14	6	673	1.90	8	5	ND	7	55	1	2	2	18	.52	.07	23	14	.52	152	.04	12	.68	.02	.05	2	10
276	1	19	26	61	.1	16	7	868	1.97	11	5	ND	6	49	1	2	2	18	.36	.07	25	13	.46	177	.04	11	.69	.02	.06	2	5
277	1	18	29	60	.1	16	7	991	2.01	8	5	ND	7	42	1	2	3	19	.25	.06	30	13	.46	153	.03	13	.70	.02	.05	2	5
278	1	19	31	59	.1	16	6	873	2.00	9	5	ND	7	48	1	2	2	16	.31	.06	27	12	.45	141	.03	13	.72	.02	.06	2	20
279	1	22	37	50	.1	15	6	203	1.77	9	5	ND	6	33	1	2	2	17	.26	.07	29	14	.39	97	.03	9	.66	.02	.06	2	20
280	1	24	46	51	.1	16	7	322	1.97	10	5	ND	7	38	1	2	2	19	.25	.08	33	16	.43	107	.03	10	.67	.02	.04	2	5
281	2	34	54	62	.2	20	8	463	2.13	9	5	ND	7	51	1	2	2	19	.32	.07	30	16	.46	126	.03	11	.76	.02	.07	2	5
282	1	24	11	31	.2	12	4	362	1.08	5	5	ND	3	78	1	2	2	13	.61	.07	16	11	.35	106	.03	7	.57	.02	.06	2	5
283	1	58	20	41	.2	20	7	492	1.55	8	5	ND	2	90	1	2	2	19	.71	.09	18	15	.32	150	.04	11	.79	.02	.05	2	5
284	1	45	25	57	.4	20	7	643	1.69	9	5	ND	3	126	1	2	2	16	.75	.07	19	16	.33	204	.04	9	.93	.02	.07	2	5
285	1	33	31	59	.2	20	8	598	2.03	10	5	ND	6	81	1	2	2	19	.42	.07	27	17	.39	185	.04	11	.94	.02	.08	2	5
286	1	23	26	50	.1	17	8	457	2.08	10	5	ND	8	47	1	2	2	20	.22	.07	30	14	.43	132	.05	13	.78	.02	.06	2	5


LEGEND
FENNEL FMTN.
7 BASALT
EAGLE BAY FMTN.
6 ANDESITE
5 DACITE TUFFS
4 DACITE FLOWS
3 SILICEOUS EXHALITE ?
2 RHYOLITE
1 ARGILLITE
OUTCROP
GEOLOGIC CONTACT
THRUST FAULT
BEDDING
FOLIATION, SHOWING CRENULATION
CLAIM, SHOWING LCP
ROAD
LOGGED AREA
ADIT
ROCK GEOCHEM SAMPLE SITE
5967, 50,0.2,78/1.0 m SAMPLE NO., PPB Au, PPM Ag, PPM Cu, /WIDTH
THRESHOLD VALUES
100/0.8/100 Au/Ag/Cu
GEOLOGICAL BRANCH
ASSESSMENT REPORT
13,559
PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
T. N. MACAULEY
0 70 210 350 m.
NEWMONT EXPLORATION OF CANADA LIMITED
CLEARWATER SURVEY
WATER CLAIMS-GEOLOGY, GEOCHEM
KAMLOOPS MINING DIVISION
SCALE: 1:7000
LOCATION: 82 M/12W, 92 P/9E
DATE: MAR. 22, 1985.
SURVEY BY: TH, JAT
DRAWN BY: JN
NUMBER: MAP 4
120° 00'
Sonya Mine (waterclear)
Pb,Zn
JULIAN 2 (4115)
JULIAN 1 (4099)
ZEN 8 (4447)
ZEN 7 (4446)
WATER 9 (5697)
WATER 7 (5695)
WATER 8 (5696)
WATER 6 (5694)
WATER 5 (5693)
N. THOMPSON RIVER
CN RAILWAY
R01117, 55, 4.8, 103/1.5 m
R01118, 39, 1.5, 108/1.5 m
R01119, 12, 3.6, 73/2.0 m
R01120, 12, 0.1, 77/2.0 m
R01121, 90, 14.7, 50/4.0 m
R01123, 8, 2.6, 120/2.0 m
R01124, 19, 25.8, 41/1.5 m
R01116, 11, 1.9, 82/1.0 m
R01126, 31, 0.3, 55/2.0 m
R01127, 32, 0.2, 76/1.5 m
R01128, 4, 0.2, 33/1.0 m
R01129, 14, 0.6, 56/1.5 m
R09561, 4 0, 0.2, 61/1.5 m
R09562, 60, 1.2, 283/1.0 m
R09563, 2200, 7.5, 1267/1.0 m
R09564, 55, 0.8, 394/1.0 m
R09565, 30, 0.7, 130/1.0 m
R09566, 43, 1.1, 221/1.0 m
R09567, 7, 0.4, 90/1.5 m
R09568, 1, 0.4, 37/1.5 m
R09569, 2, 0.3, 32/2.0 m
R09570, 3, 0.1, 29/2.0 m
R01130, 20, 1.3, 81/1.0 m
R09571, 6, 0.2, 20/2.0 m
R01131, 20, 1.3, 35/GRAB
R01132, 2, 0.5, 105/GRAB
R01133, 105, 2.1, 1816/GRAB
R01134, 125, 2.5, 430/GRAB
R01135, 28, 0.9, 221/GRAB
R01136, 13, 0.5, 79/GRAB
R01137, 12, 1.9, 1097/GRAB
R09558, 3, 0.1, 57/GRAB
R09559, 3, 0.1, 18/0.75 m
R09560, 1, 0.2, 28/1.0 m
R09553, 8, 0.2, 108/GRAB
R09556, 3, 0.1, 35/1.0 m
R09557, 2, 0.1, 38/GRAB
R09554, 1, 0.1, 26/1.0 m
R09555, 4, 0.1, 32/1.0 m
R09572, 8, 0.2, 47/2.0 m
R09573, 2, 0.2, 66/2.0 m
R09574, 4, 0.1, 61/2.0 m
R09575, 3, 0.2, 32/2.0 m
R09576, 6, 0.1, 14/2.0 m
R01138, 2, 0.2, 16/1.0 m
R01140, 1, 0.3, 11/1.0 m
R01139, 1, 0.4, 20/1.0 m
R01141, 1, 0.2, 25/1.5 m
R01142, 1, 0.5, 46/1.5 m



WATER 2 5690		CLAIM (REC. NO.)
		Claim Line
■ 67119		LCP & Tag Number
		Swamp
		Lake
		Road
		Trail
		Stream Sample Site
▲		Rock Sample Site

9	HORNBLENDE DIORITE
	FENNEL FMTN
8	THINLY BEDDED CHERT, SILTSTONE, GREY PHYLLITE
7	BASALT, GABBRO, DIORITE
	EAGLE BAY FMTN.
6	GREY-GREEN ANDESITE, CHLORITE SCHIST & MINOR BASALT
5a	LIGHT TO DARK GREY-GREEN CHLORITE-SERICITE SCHIST; CONTAINS FELDSPAR LATHS - POSSIBLY A DACITIC CRYSTAL TUFF
5b	LIGHT GREY-GREEN, FELDSPATHIC & QUARTZOSE SERICITE-CHLORITE SCHIST. POSSIBLY A FELSIC TUFF
4	GREY-GREEN DACITE FLOWS
3	LIGHT GREY-GREEN, QUARTZ-SERICITE SCHIST. CONTAINS UP TO 5% DISSEMINATED PYRITE; POSSIBLY AN EXHALITE
2	SILVERY GREY TO WHITE SERICITE SCHIST, LOCALLY CLAY ALTERED & FRIABLE. POSSIBLY A FELSIC TUFF
1	GREY TO BLACK, SERICITIC & LOCALLY GRAPHITIC PHYLLITE, SCHIST & SLATE
	BEDDING, FOLIATION
	OUTCROP
	GEOLOGIC CONTACT
	THRUST FAULT

Claims Located By Chain and/or Hip-chain and Compass

CONTOUR INTERVAL 100 FT.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,559

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — T. N. MACAULEY

SCALE
0 100 300 500 1000 Metres

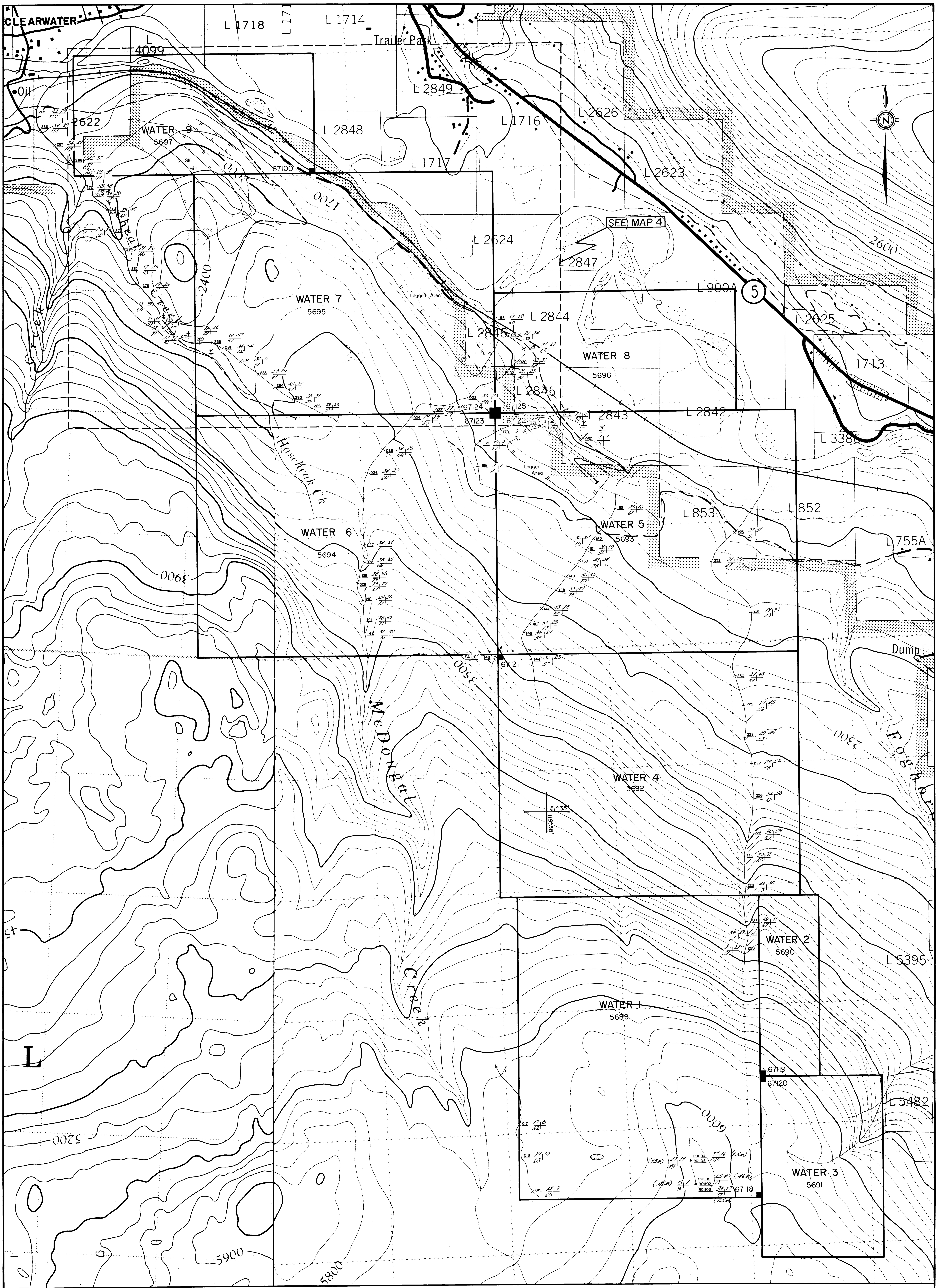
NEWMONT EXPLORATION OF CANADA LIMITED

CLEARWATER PROJECT

WATER CLAIMS - GEOLOGY

KAMLOOPS MINING DIVISION

SCALE: 10,000	LOCATION: 82 M/12 W	DATE: MAR. 22, 1985
SURVEY BY: JAT	DRAWN BY: IC	NUMBER: MAP 1



WATER 2 5690	CLAIM (REC. NO.)	
———	Claim Line	
■ 67119	LCP & Tag Number	
	Swamp	
	Lake	
015	Silt sample	
▲ R01104	Rock sample	
47/49 | 14 (1.5m)	Cu(ppm) | Pb(ppm) / Zn(ppm)	(width) metres

Threshold values

Silt	*50 | 50 / 100*	*Cu | Pb / Zn*
Rock	*100 | – / –*	*Cu | Pb / Zn*

Sampling method *trowel and chisel*
Sample prep *-35 mesh and pulverize*
Digestion and analysis *30 element ICP. 3:1:3 HNO_3:HCl:H_2O*
For Au / aqua regia MIBK. For rocks
Au by FA & AA.

Claims Located By Chain and/or Hip-chain and Compass

CONTOUR INTERVAL 100 FT.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,559

PROFESSIONAL ENGINEER – PROVINCE OF BRITISH COLUMBIA – T. N. MACAULEY

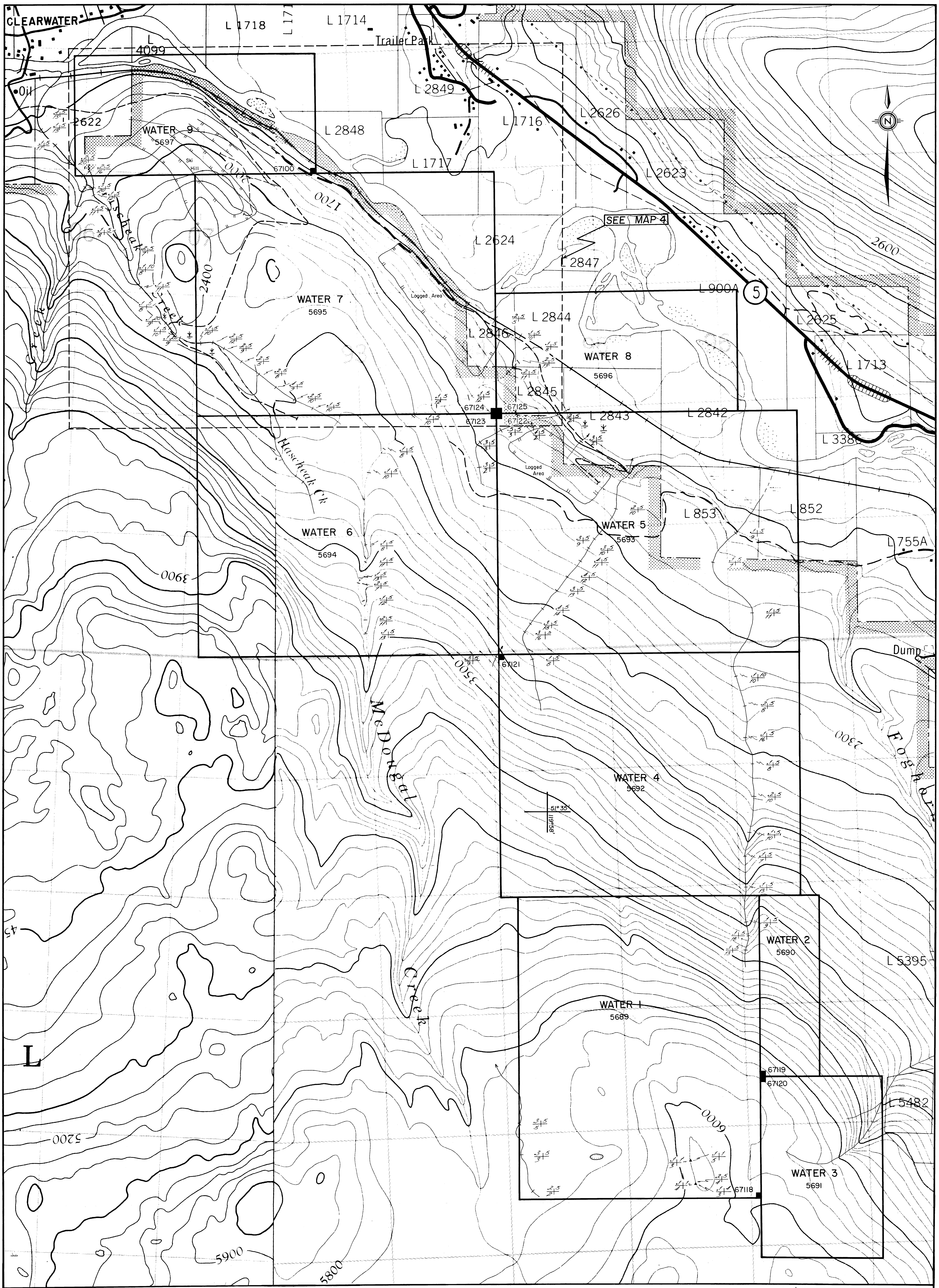
SCALE
0 100 300 500 1000 Metres

NEWMONT EXPLORATION OF CANADA LIMITED

CLEARWATER PROJECT
WATER CLAIMS- GEOCHEM

KAMLOOPS MINING DIVISION

SCALE:	LOCATION:	DATE:
10,000	82 M/12 W	MARCH 22, 1985
SURVEY BY: JAT	DRAWN BY: IC	NUMBER: MAP 2



WATER 2 5690	CLAIM (REC. NO.)
——	Claim Line
■ 67119	LCP & Tag Number
	Swamp
	Lake
015	Silt sample
▲ R01104	Rock sample
.1/14 | 20	Ag(ppm) | Au(ppb) / As(ppm)

Threshold values

Silt 0.5/15 | 25 — Ag/As | Au

Rock 0.8/– | 100 — Ag/As | Au

Sampling method trowel and chisel

Sample prep -35 mesh and pulverize

Digestion and analysis 30 element ICP. 3:1:3 $HNO_3:HCl:H_2O$
For Au / aqua regia MIBK. For rocks
Au by FA & AA.

Claims Located By Chain and/or Hip-chain and Compass

CONTOUR INTERVAL 100 FT.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,559

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — T. N. MACAULEY

SCALE

0 100 300 500 1000 Metres

NEWMONT EXPLORATION OF CANADA LIMITED

CLEARWATER PROJECT
WATER CLAIMS- GEOCHEM

KAMLOOPS MINING DIVISION

SCALE:	LOCATION:	DATE:
10,000	82 M/12 W	MARCH 22, 1985
SURVEY BY: JAT	DRAWN BY: IC	NUMBER: MAP 3