ARIS SUMMARY SHEET

istrict Geologist, Smithers Off Confidential: 90.11.30 ASSESSMENT REPORT 19834 MINING DIVISION: Liard ROPERTY: Inhini LOCATION: LAT 56 40 00 LONG 131 18 00 09 6282433 UTM 359042 NTS 104B11W CLAIM(S): Zip 5-8 OPERATOR(S): Corona Goad, B.E. UTHOR(S): EPORT YEAR: 1990, 41 Pages COMMODITIES EARCHED FOR: Gold, Silver, Lead, Zinc, Copper EYWORDS: Permian, Limestones, Phyllites, Argillites, Andesites WORK DONE: Geological, Geochemical GEOL 1800.0 ha Map(s) - 1; Scale(s) - 1:10 0005 sample(s);ME HMIN 21 sample(s);ME Map(s) - 2; Scale(s) - 1:10 0005 sample(s) ;ME

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16954,18545

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GEOLOGICAL AND GEOCHEMICAL REPORT on the ZIP 5, 6, 7 & 8

MINERAL CLAIMS

(PINK GROUP)

ISKUT RIVER AREA, N.W. BRITISH COLUMBIA

LIARD MINING DIVISON

N.T.S. 104-B/11

Lat. 56°40'N 131°18'W

I U R ZO **A A** <Z CE -2 S C **O** 100 OM e c O

Claims owned by:

WESTERN INFORMATIONAL SERVICES LTD.

1140 - 625 Howe Street Vancouver, B.C. V6C 2T6

Report Prepared for:

CORONA CORPORATION

1440 - 800 West Pender Street

Vancouver, B.C. V6C 2V6

Report Prepared by:

Bruce Goad, B.Sc (Hon), MSc, F.G.A.C.

Date Submitted:

March 22, 1990

SUB-RECORDER RECEIVED

MAR 2 1 1990

M.R.# _____\$ ____ VANCOUVER, B.C.

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SUMMARY

A program of reconnaissance geological mapping, prospecting and creek silt geochemistry was conducted on a 72 unit northeastern portion of the 1,000 unit Inhini Property. The property is owned by Western Informational Services and is under option to Link Resources who has subsequently optioned it to Corona Corporation.

Five panned concentrate silt, five silt and twenty-one rock chip samples were taken on the ZIP 5, 6, 7 & 8 mineral claims between June 19 - October 2, 1989. An exploration program was designed to define creeks that were anomalous in Au (Ag). Prospecting upstream of sample sites in anomalous creeks attempted to define the source of each anomaly.

Heavy sediment geochemical results are generally not anomalous. The silt results, however, do indicate several weak Cu anomalies. The sources of these anomalies are suspected to be disseminated tetrahedrite and chalcopyrite that can be found in unaltered limestone.

CONCLUSIONS

Mineralization occurs randomly in the sedimentary sequence, predominantly in poorly mineralized, shear controlled quartz veins. However, trace disseminations of tetrahedrite (\pm chalcopyrite) have been observed in unaltered limestone. Ag (\pm Pb, Zn) is the predominant precious metal on the property. Generally, Au values are low.

All quartz veins located on the property are too short, narrow, and low grade to be of any economic value.

RECOMMENDATIONS

The relative inaccessibility of the area, the steep topography and abundant ice fields all inhibit work on the ZIP 5, 6, 7 and 8 claims. Work to date has outlined no significant mineralization. It is recommended that no further work be undertaken on the ZIP 5, 6, 7 and 8 mineral claims.

1.0 INTRODUCTION .

1.1 Location and Access

The Inhini property is located in the Iskut River area of northwestern British Columbia, on the eastern edge of the Coast Mountains, approximately 110 km northwest of Stewart, B.C. (Figure 1). The property lies south of the Iskut River between the Inhini River on the west and the Craig River on the east and is centered at approximately 56°38' north latitude and 131°30' west longitude.

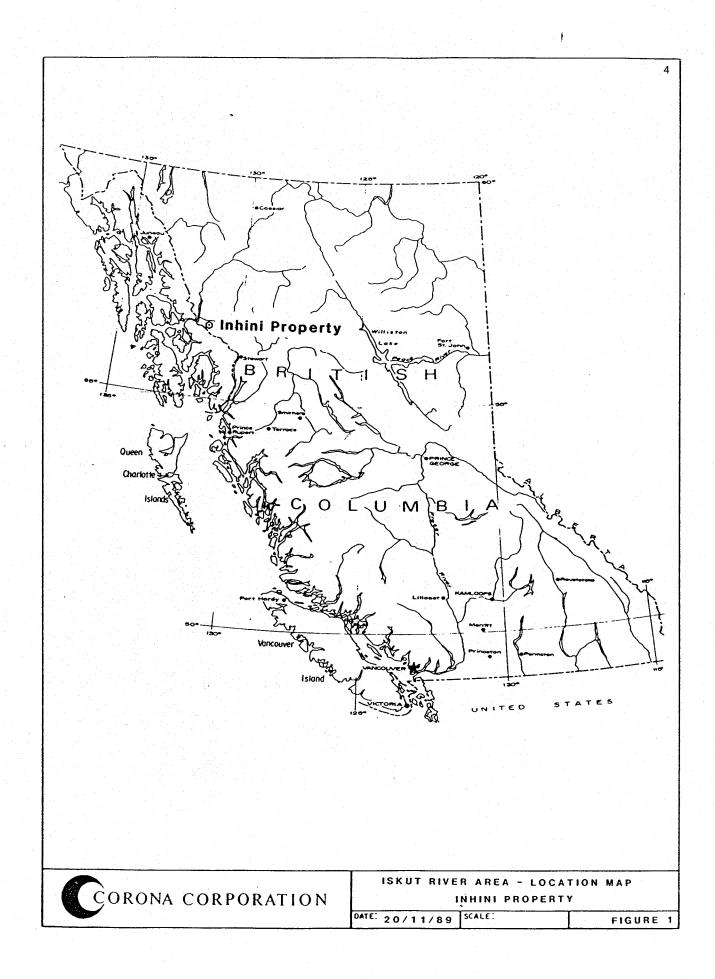
Access to the property is via helicopter which is based at the Bronson airstrip, located at the mouth of Bronson Creek, approximately 15 km east of the property. This airstrip is serviced by scheduled air service, three times a week, from Smithers, B.C.

Access on the property is limited by extreme topography and extensive ice cover.

1.2 Topography and Physiography

The claims are typical of a glaciated mountainous terrain. Elevations range from 2062 m at the top of an unnamed mountain, on the eastern half of the Inhini Property (3 km north of Mt. Dick), to 90 m at the mouth of the Inhini River. The major drainages have wide U-shaped valleys which are only partially accessible to traversing. The small creeks commonly cascade over sheer cliffs or follow steep canyons making creek traverses difficult to impossible.

The lower elevations of the claims are timbered by spruce and hemlock and a flourishing undergrowth of devil's club and alder. Most of the steeper slopes have had the trees removed by avalanches and are covered by a dense growth of slide-alder and devil's club. Treeline is at approximately 1,000 m, above which lichens, mosses, sedges and small shrubs exist.



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Permanent icefields and glaciers fill in the cirques at the headwaters of most creeks and knife-edge ridges separate adjacent icefields making the higher ground only partially accessible to traversing.

1.3 Claims

The Inhini Property consists of fifty-three (53) four post claims totalling 1,000 units. Title to the property is held by Western Informational Services Ltd. of 1140 - 625 Howe Street in Vancouver, who has the property under option to Link Resources Inc. of 1100 - 808 West Hastings Street, Vancouver, B.C. Corona Corporation has subsequently optioned the property from Link Resources Inc. All claims are in the Liard Mining Division. The Inhini Property includes the following claims covered by this assessment report (Figure 2).

<u>Claim Name</u>	Record No.	lo. of Units	Record Date	Expiry Date*
ZIP 5	3802 (12)	16	22/12/86	22/12/91
ZIP 6	3803 (12)	20	22/12/86	22/12/91
ZIP 7	3804 (12)	<i>16</i>	22/12/86	22/12/91
ZIP 8	3805 (12)	<u>20</u>	22/12/86	22/12/91
		72 Units		

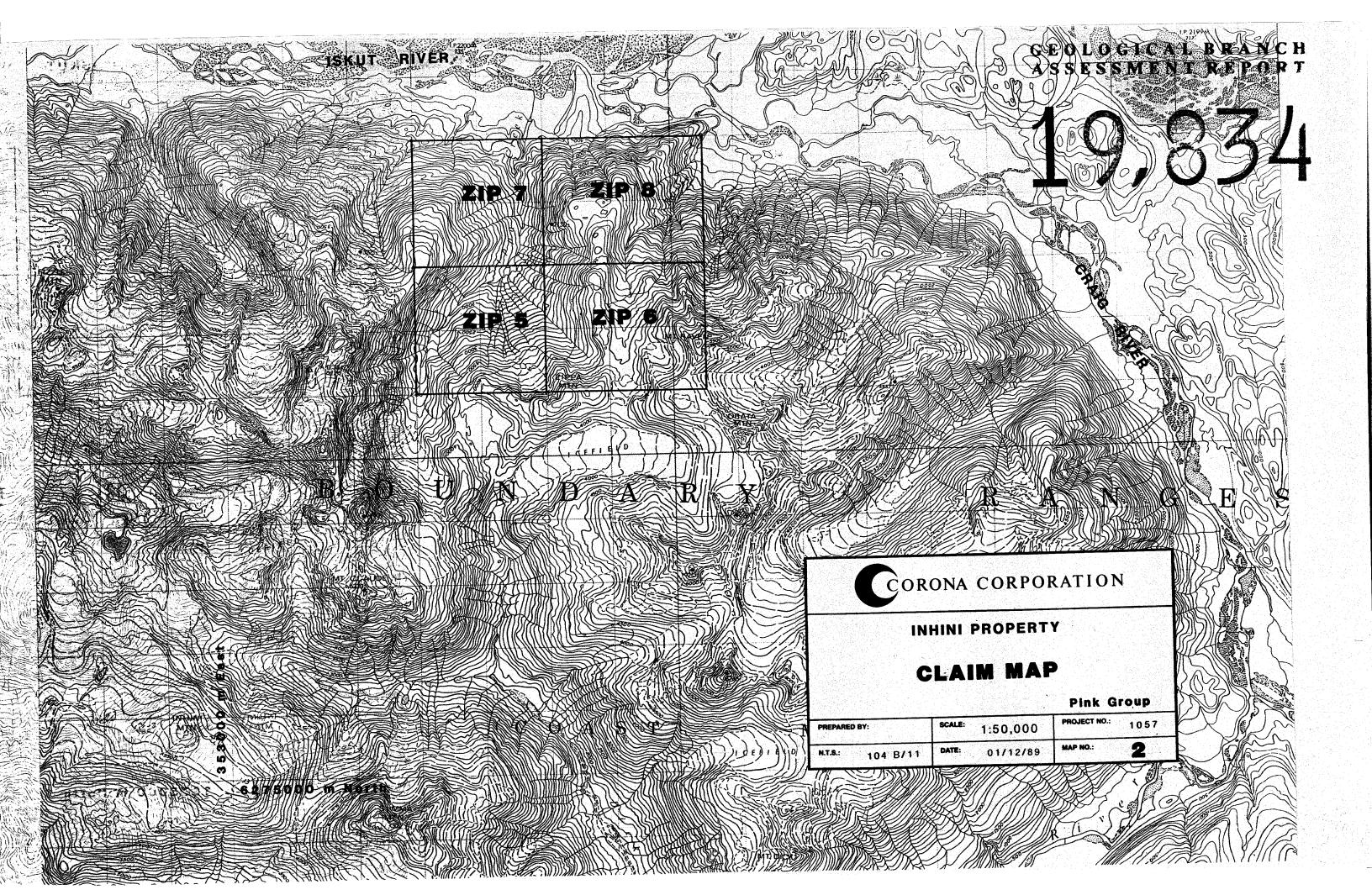
The ZIP 5, 6, 7 & 8 claims were grouped as the Pink Group on December 21, 1989.

* after application of work described in this report.

1.4 Exploration History of the Inhini Property

The property has very little recorded history. It was staked on December 3, 1986 (ZIP 5, 6, 7 & 8). Prior to this staking Kerr (1948) regionally mapped the area for the G.S.C. and produced G.S.C. Map 9-1957.

The northeastern part of the Inhini property, including and adjacent to the above listed claims has been examined by several people (Sharp, 1984; Dewonck, 1988; Dewonck and McCrossan, 1989). The G.S.C./B.C. Ministry of Energy, Mines and Petroleum Resources Open File 1645 reconnaissance stream geochemical program (1988) covered the area. Several samples were taken from the property.



1.5 Regional Geology

Dewonck and McCrossan (1989) compiled a concise summary of the regional geology in the Iskut River area.

"Regional geological mapping of the Iskut River area (Kerr, 1948, GSC Memoir 246, 9 - 1957 and GSC Map 1418 - 1979) has been expanded by Grove in two recent detailed works which define this area as the Stewart Complex (Grove, 1971, 1986).

The Stewart Complex, lies south of the Iskut River and north of Alice Arm. It is bounded by the Coast Plutonic Complex on the west and the Bowser Basin to the east. It is composed of Late Paleozoic and Mesozoic volcanics and sediments which were intruded during Mesozoic and Tertiary times.

The oldest units in the complex are Mississippian or Permian carbonates and other marine sediments. Upper Triassic epiclastic volanics, marbles, sandstones and siltstones lie unconformably above the Permian. These are overlain by sedimentary and volcanic rocks of the Jurassic Hazelton Group which are lithologically similar to the Triassic section. The Hazelton Group has been subdivided (Grove, 1986) into the Early Jurassic Unuk River Formation, the Middle Jurassic Betty Creek and Salmon River Formations, and the Upper Jurassic Nass Formation.

The Unuk River Formation lies unconformably on Late Triassic rocks and consists of volcanic rocks and sediments which include lithic tuffs, pillow lavas with carbonate lenses and some thin bedded siltstones. Betty Creek rocks unconformably overlie the Unuk River Formation and are characterized by bright red and green volcaniclastic agglomerates with sporadic, intercalated andesitic flows, pillow lavas, chert and carbonate lenses. The Salmon River Formation is a thick assemblage of colour banded andesitic siltstones and lithic wackes that

Summary Table Of Formations – Iskut River Area Sedimentary And Volcanic Rocks

TABLE 1

ERA	PEF	RIOD/EPOCH	FORMATION	LITHOLOGY		
			Lava Fork	hotspring, ash, basalt flows		
010		Recent	Iskut	basalt flows, ash		
CENOZOIC			Hoodoo	basalt flows		
ວັ	-			Unconformity		
		Upper Jurassic	Nass Formation	siltstone, sandstone, conglomerate		
u		Madis	Salmon River Formation	r siltstone, greywacke, sandstone conglomerate, carbonate.		
MESOZOIC	Group	Middle Jurassic	Betty Creek Formation	rhyolite breccia, sandstone, tuff volcaniciastics, conglomerate, carbonate, volcanics.		
				nconformity		
	Hazieton	Lower Jurassic	Unuk River Formation	volcaniclastics, siltstone greywacke, porphyry, carbonate, rhyolite.		
				Unconformity -		
		Upper Triassic	Stuhini Formation Equivalent	volcaniclastics, volcanics, siltstone, sandstone, chert, carbonale.		
				Unconformity		
		Permian		crinoidal limestone		
				- Unconformity -		
6.1		Pennsylvanian	Not yet recognized	7777		
0.0				Unconformity		
PALEOZOIC		Mississipplan		crinoidal limestone, clastic sediments, volcanics.		
	_			- Unconformity		
		Devontan		grey limestone		
			В	asement Unknown		

TABLE 1 (Continued)

SUMMARY TABLE OF FORMATIONS - ISKUT RIVER AREA Plutonic Rocks - Coast Plutonic Complex

507	סרטוסט	LITHOLOGY
ERA	PERIOD	LITHOLOGY
_	Late Tertiary	Granodiorite, diorite, basalt
020		Intrusive Contacts
CENOZOIC	Early Tertiary	Quartz diorite, granodiorite,quartz monzonite, feldspar porphyry, granite.
		Intrusive Contacts
	Middle Jurassic	Quartz monzonite, feldspar porphyry, syenite.
		Intrusive Contacts
MESOZOIC	Lower Jurassic	Diorite, syenodiorite, granite.
MES		Intrusive Contacts
-	Late Triassic	Diorite, quartz diorite, granodiorite.
2		
PALEOZOIC	Not Determined ?????	Quartz diorite, ???
a.		

Grove (1986); Poloni (1987).

form a conformable to disconformable contact with the underlying Betty Creek Formation. The Nass Formation consists of weakly deformed argillites, siltstones and greywackes which unconformably overlie the Salmon River Formation.

These volcanic and sedimentary successions were intruded by the Coast Plutonic Complex during the Mesozoic and Tertiary periods. A wide variety of intrusive phases are present including granodiorite, quartz monzonite and diorite. Small satellite plugs and dyke systems range in age from Late Triassic to Tertiary and may be important for localizing mineralization.

Major structural features of the Stewart Complex include the western boundary contact with the Coast Intrusive Complex and the northern thrust fault along the Iskut River where Paleozoic strata has moved southward across Middle Jurassic and older units. Regional tectonic normal faults also border the complex to the south and east (Grove, 1986)".

Quaternary volcanics outcrop to the east of the property in the Iskut River canyon and the Snippaker Creek Valley, and to the north on Hoodoo Mountain.

2.0 PROPERTY GEOLOGY

The Inhini property is underlain by a monotonous succession of Permian or earlier phyllite, argillite, siltstone greywacke and minor interbedded limestone. These sediments have been strongly folded and sheared. Overlying this is a Permian limestone unit that varies from massive grey crinoidal limestone to thinly bedded grey-black shaly limestone. This appears to be fairly flat-lying; however, locally intense folding has occurred.

Above this are greenish andesitic volcanics and volcanic derived sedimentary units. Minor andesite flows, and tuffs are present; however, this unit is predominantly greenish siltstone and greywacke.

This sequence has been intruded by Cretaceous-Triassic age granodiorite plutons, quartz-feldspar porphyry, feldspar porphyry and basalt dikes. The ZIP 5, 6, 7 & 8 claims are predominantly underlain by a grey porphyritic syenite that has been intruded into a thinly bedded limestone unit.

Narrow quartz veins in the sedimentary sequence appear to be the source of mineralization observed to date on the property.

Geology and sample locations are shown on Figure 3.

2.1 Mineralization

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A silt sample taken during the government regional survey, at the mouth of Raven Creek was weakly anomalous in Au. This anomaly was traced uphill to mineralization on Mt. Raven. At this location minor narrow (2-20 cm) quartz veins that can be traced for up to 20 metres occur in shear zones along the contact of a large granodiorite intrusion with thinly bedded limestone units. All veins appear to be small and low grade. The highest grade sample, from a 15-20 cm quartz vein in a shear zone, hosts pyrite and trace arsenopyrite and ran 1800 ppb Au (#55318).

No further work is warranted in the Mount Raven area.

No other mineralization was noted on the ZIP 5, 6, 7 and 8 mineral claims.

2.2 Rock Chip Descriptions

Sample No.	<u>Description</u>
55303	Quartz vein; chalcopyrite.
55304	Quartz vein; chalcopyrite.
55305	Quartz veins in granodiorite; chalcopyrite, pyrite and galena.
55306	Granodiorite with abundant pyrite; disseminated and on fractures.
55307	As per 55306.
55308	Quartz vein in granodiorite; pyrite.
55311	Diorite dike; float; pyrite, chalcopyrite, pyrrhotite, magnetite.
55312	Silicified limestone; pyrite, chalcopyrite.
55313	Granodiorite dike in limestone.
55314	Quartz vein in shear in carbonates; pyrite, chalcopyrite.
55315	Quartz vein in shear; pyrite.
55316	Granodiorite dike; chalcopyrite.
55317	Quartz vein in limestone; pyrite.
55318	Quartz shear vein; pyrite, ± arsenopyrite.
55319	Quartz shear vein; float; pyrite, galena.
82013	Vuggy quartz vein; float; barren.
82328	Quartz stringers in diorite; disseminated py in diorite.
89263	Epidote skarn; 5% pyrite, minor malachite.
89275	Pyrite lens in limestone; trace chalcopyrite.
91002	Quartz vein.
91003	Quartz vein talus in limestone; trace pyrite.

3.0 Geochemical Survey

A program of heavy stream sediment sampling was initiated June 19, 1989 to meet assessment work requirements on the ZIP 5, 6, 7 and 8 mineral claims and to delineate areas of mineralization. Early in the year, snow accumulation presented a major obstacle to overcome in order to obtain sufficient amounts of stream silt. For safety reasons in this terrain, two man crews were utilized. Generally, a sampler was teamed up with a prospector/geologist.

To obtain a heavy sediment sample, silt from traps in the active area of the creek, above the level where the stream cuts the valley till, was screened to 20 mesh. Two pans of this screened sediment were panned to reduce the volume by 50% and then carefully put into two 4" x 6" standard Kraft bags (approximately 800 - 1000 gm sample). This sample was submitted to Vangeochem Labs of Vancouver.

At each heavy panned concentrate sample location an unscreened silt sample was also obtained from the creek. This was also bagged in a 4" \times 6" standard Kraft bag and submitted to Vangeochem Labs Ltd.

The entire volume (800 - 1000 gm) of the first 20 panned concentrate silt samples was floated in the heavy liquid until it was determined that the average size of the heavy minerals in the samples was in the 60 - 70 mesh size fraction. All remaining samples were then sieved to 30 mesh and the -30 mesh fraction was subjected to heavy liquid (SG 2.95 S-tetrabromoethane) separation. The magnetic and non-magnetic fractions in the resulting sample were not separated.

A 10 gm sample of the magnetic and non-magnetic heavy mineral separate and the silt samples were both analyzed geochemically for Au by digestion in aqua regia with a solvent extraction and an AA finish. Detection limit for Au by this method is 5 ppb.

Ag, Cu, Pb and Zn (in addition to the other 21 elements listed in Appendix I) were analyzed by I.C.A.P.

Assay certificates are included in this report as Appendix I. All analytical work was performed in Vancouver by Vangeochem Labs Ltd. Analytical methods are described in Appendix II.

3.1 Pink Group (ZIP 5, 6, 7 and 8)

The Pink Group consists of the ZIP 5, 6, 7 and 8 claims totalling 72 units. A total of twenty-one rock chip, five silt and five heavy sediment (panned concentrate) samples were obtained on this group between June 19 - October 2, 1989.

None of the panned concentrate samples were anomalous. Corresponding silt samples taken at each panned concentrate site were also not anomalous in Au/Ag. However, a weak Cu anomaly was obtained in three silt samples (24101, 24103, 24105) from creeks that drain into Zippa Creek. In this area, trace amounts of disseminated tetrahedrite and chalcopyrite were noted in unaltered limestone (82009, 82012 on the adjacent Brown Group).

Silt, panned concentrate and rock chip sample locations are presented on Figure 3. Au, Ag geochemical results are presented in Figure 4. I.C.A.P. results for Cu, Pb, Zn are shown on Figure 5.

4.0 Statement of Costs

STATEMENT OF COSTS

CLAIMS:	ZIP 5, 6, 7 and 8		
GROUP:	<u>PINK</u>		
Covering Pe	riod: June 1 to December 22	2, 1989	
PERSONNEL:			
Bruce	Goad (Project Geologist 0.33 days @ \$200/day		66.67
T. Hu	tchings (Prospector) 0.58 days @ \$175/day		102.08
D. Jo	hnson (Senior Geologist) 1.0 days @ \$400/day		400.00
PAMICON DEV	ELOPMENTS CONTRACTOR CHARGE.	$\boldsymbol{\mathcal{S}}$	
P. Bi	lodeau (Geologist) 3 day @ \$265/day		795.00
B. Gi	rling (Prospector) 1.33 days @ \$265/day		353.33
E. De	Bock (Prospector) 3.25 day @ \$265/day		861.25
F. Vo	n Possel (Sampler) 3 days @ \$225/day		675.00
G. Ca	ulfield (Sampler) 2 days @ \$225/day		450.00
B. Mc	Adam (Sampler) 1 days @ \$225/day		225.00
Room	& Board Camp Day Charges 14.5 mandays @ \$125/day		1,812.50

Statement of Costs:	ZIP 5, 6,	7 and 8	Claims -	Pink Group	Cont'd.
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Equipment Day Charges 14.5 mandays @ \$25/day	362.50
Room & Board - Northern Mtn. Helicopter Pilot 1.845 days @ \$125/day	230.63
HELICOPTER CHARTER - Northern Mtn - Hughes 500D 3.695 hrs @ \$710/hr (inc. fuel & oil)	2,623.45
TELEPHONE (Space Telephone) 72 units @ \$1.40/unit	100.80
REPORT PREPARATION	
B. Goad (Project Geologist) (5 days @ \$200/day)	1,000.00
M. Kusnezov (Draftsman) (5 days @ \$200/day)	1,000.00
GEOCHEMICAL SURVEY - Assays - Vangeochem Labs. Ltd.	
21 rocks @ \$15/sample 5 silts @ \$13/sample 5 heavy sediment @ \$27/sample	315.00 65.00 135.00
Sample Shipment - 31 samples @ \$10/sample	310.00
MAP PREPARATION - Eagle Mapping - Reproduction	1,668.57 300.00
Pro-Rate Charges June 1 - Oct 2, 1989 (field equipment, travel, shipping, camp manager, weather day wages etc.) (\$39.30/unit x 72 units)	2,829.60
Contract Airphotographs \$2.01/unit x 72 units	144.72
Total Expenditures	\$16,826.10

INHINI PROPERTY - Pink Group Zip 5,6,7 and 8 Mineral Claims 72 Units PERIOD COVERED: June 01 to December 05, 1989.

										Hor
Dates:	Johnson	Goad	Hutchings	Bilodeau	Girling	Debock	Caulfield	McAdam	Von Possel	Helicopter
June 11	1			_		. - ,	-	_	 .	0.0
June 26	-	-		_ '	-	1	-1,	-	1	0.4
June 25	-	_	-	-		1	_	-	1	0.5
June 27	· -	<u>-</u>		-	-	1	_	-	1	0.7
July 15	-	1/3	1/3	-	- .	_	1	1	_	0.53
July 16	-			1	-	-	1	-	- ,	0.5
July 24	_	_	1/4	_	-	1/4	_	-	_	0.125
Aug. 02		_	_	-	1/3	-	.—	_ '	-	0.1
Aug. 25	. ÷	_	-	1	-	-	* , *	· ·	-	0.6
Aug. 28	_		. •	1	1	-	-		-	0.24
Mandays	1	.33	.58	3	1.33	3.25	2	1	3	

TOTAL MANDAYS = 14.5 HELICOPTER HOURS = 3.695

5.0 STATEMENT OF QUALIFICATIONS

I, BRUCE E. GOAD of 9331 Kingcome Place, Richmond, in the Province of British Columbia, do hereby certify that:

- 1. I am a graduate of the University of Western Ontario with a B.Sc. (Hon) degree in Geology (1976).
- 2. I am a graduate of the University of Manitoba with a M.Sc. degree in Earth Sciences (1984).
- 3. I am a fellow of the Geological Association of Canada
- 4. My primary employment since 1976 has been in the field of mineral exploration.
- 5. I am presently employed as a Contract Geologist with Corona Corporation, 1440 800 West Pender Street, Vancouver, B.C., V6C 2V6.
- 6. I consent to the use of this report for corporate purposes relating to Corona Corporation.

Signed at Vancouver, British Columbia

this 16 day of March , 1990

Bruce Goad B.Sc. (Hon), MSc, F.G.A.C

- 6.0 Bibliography
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- Poloni, J.R., (1987): Report on the Geological and Geochemical Surveys 1987.

 Zeehan (8-14) Mineral Claims for Tanker Oil and Gas Limited.
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APPENDIX I

ROCK CHIP SAMPLE RESULTS

SAMPLE #	Ag	F4 7	Aspa	Ba ppm	Bi pps	. C.	udd PJ	Co	Cr	Cu	Fa *	× ×	Mq %	u edd	No ppm	R 74	Ni ppm	a *	Pb ppm	St ppm	Sn Sp	Sr U	mod e	A Zn	n Au n pob	מ כ
55303	3.7		12	138	0	1,33	0.0	i ·	:	1	1.09	0.04	•	į	i.	Ì	-		1	1	į			1	-	, ,
55304	48.5		0	0	0	1.08	4.9				2.86	0.05														
55305	50.1		0	0	0	0.56	9.6				5.47	0.31														
55306				53	0	0.28	0.0				4.40	0.27														
55307	8.0			13	0	0.30	0.0				4.98	0.02														
55308	0.3		0		0	0.01	0.0				0.80	0.01														
55311	2.7			33	m	1.06	2.1				5,56	0.34														_
55312	2.3			23		4.16	1.2				4.26	0.74														
55313	0.3			78	0	1.52	0.8				2.72	0.31														
55314	53			7	₩.	3.8	11.5				5,96	0.77														0
55315	12.9			7	7	1.23	3,3				6,33	0.39														
55316	4.0			64		2.04	0.7				3.65	0.41														_
55317	7.9		-	-	•	0.52	3.4				10,10	99.0														
55318	18.6		• •	7	9	0.11	5.1				10.10	0.62														
55319	 S			8	13	6.33	2.1				2.76	1.02														
82013	0.1			78	0	1.17	0.1				1.29	0.21														
82328	0.5			16	4	2.14	0.2				10.10	0.65														
89263	33			9	0	0.02	0.1				3,39	0.10														
89275	30.9	-		71	7	0.70	0.1				9,44	0.33														
91002	0.3			4	0	0.05	0.1				1,56	0.05														
91003	0.1	0.02		130	0	0.08	0.1		55	15	0.26	0.02	0.01	23	4	0.01	į m	. 0	. 22	• •	• •	; ~	· ·	· ·	3 67	



MAIN OFFICE 1988 TRIUMPH ST. VANCOUVER, B.C. V5L 1K5 • (604) 251-5656 • FAX (604) 254-5717 BRANCH OFFICES PASADENA, NFLD. BATHURST, N.B. MISSISSAUGA, ONT. RENO, NEVADA, U.S.A.

REPORT NUMBER: 890289 AA

JOB NUMBER: 890289

CORONA CORPORATION WESTERN

PAGE 1 OF 1

SAMPLE #

Ag

oz/st

55304

RAVEN Creek

1.16

55305

2.99

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01

1 ppm = 0.00017

ppm = parts per million

< = less than

signed:

Pays-11/h



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BRANCH OFFICES

PASADENA, NFLD.
BATHURST, N B.
MISSISSAUGA, ONT.
RENO, NEVADA, U.S.A.

REPORT NUMBER: 890307 AA

JOB NUMBER: 890307

CORONA CORPORATION MESTERN

PAGE 1 OF 1

SAMPLE #	Ag oz/st
55022	2.81
55073	2.67
55115)	33.02
55314 Pink Group	2.01
55319	1.63
55342	7.10

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01

1 ppm = 0.00011

ppm = parts per million

< = less than</pre>

signed:

By ml an

VANGEOCHEM LAB LIMITED

MAIN OFFICE 1988 TRIUMPH ST. VANCOUVER, B.C. V5L 1K5 (604) 251-5056 FAX (604) 254-5717

BRANCH OFFICES PASADENA, NFLD. BATHURST, N.B. MISSISSAUGA, ONT. RENO, NEVADA, U.S.A.

	REPORT NUM	18ER: 890409 AA	JOB NUMBER: 8	90409	CORONA CORPORAT	TION WESTERN	PAGE 4	0F 4
^78 999 38000	SAMPLE	#		Cu %	РЬ %	Zn %	As %	Sb %
Black	55268	(890376)		سوشف درو	1.29	4.28		, - -
	55304	(890289)	PINK	2.97			<u> </u>	
P. ive - 1	55305	(890289)	FINK	4.22		***	- 	
	55337	(890307)			5.21	2.40		
	55342	(890307)	il La Carresta de la Car		4.42		<u>-</u> -,	
	55349	(890307) -		4.87				
, n	82014	(890342)	Till song and for	• <u></u>		2.38	description of the second	
2	82015	(890342)	A STATE OF THE STA	2.25				
(82018	(890376)			2.45			
Bick	82019	(890376)	to being		9.39			.35
	82020	(890376)		<u>22</u> .	9.06	4.07	- 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 196 - 1965 - 1	.85
	82022	(890376)			14.00	7.46		1.55

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01 1 ppm = 0.0001I

.01 ppm = parts per million

.01

.01 (= less than .01

signed:

HEAVY SEDIMENT RESULTS

- companie

-consistence

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• FAX (604) 254-5717

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	REPORT NUMBER	R: 890344 GA	JOB NUMBER:	890344	CORONA	CORPORATION	WESTERN	PAGE 1 DF 1
	SAMPLE #		Au ppb					
Lines	€ 00974		nd				** ***********************************	
zip 5	24102 Pink 24104 Pink		nd nd					
	24106		nd					
Sibbo Cc.	24106 24108 Pink		nd					
	(24112 Pink		nd					
Simma Cr.	24295		260 40					
Zippa Cr	24298 24300 Pink		nd					
			.					•
mae 3	\$ 53983 3 53995		S nd					
	(

VANGEOCHEM LAB LIMITED

1988 Triumph Street, Vancouver, B.C. VSL 1K5 Ph:(604)251-5656 Fax:(604)254-5717

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₂ to H₂O at 95 °C for 90 minutes and is diluted to 10 ml with water.

This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Ma, P, Pd, Pt, Sn, Sr and N.

																	A	MALYS	ST: 4		<u> </u>	
REFORT #: 890344 PA	CB	ROMA CORP		Proj	: 1057		Date	In: 89/07/	18 Ba	te Dut:8	9/07/31	Att:	B 6649						`	Pag	e lof	1
Sasple Musber	Ag Al	As	Ba B	i Ca	ch	Cq	Cr	Cu	Fe K	Hg.	ħa	Ho	Жa	Ni	·P	Pb	Sb	Sn	\$	U	¥ .	Za
	pos Z	008	ppe 99		90	poh	000	pps	1 1	1	202		1	101	I	004	000	pps	DP 1	PPE	pps	90a
00574	0.3 1.02	63	450	3 0.65	2.3	23	26	62 9.	47 0.39	1.00	744	5	0.03	. 13	0.27	40	<2	8	5)	₹5	₹3	131
24102	0.1 0.42	13	76 (3 2.10	0.3	10	70	68 3.	94 0.49	1).46	475	ì	0.03	13	0.56	17	₹2	5	843	₹5	(3	37
24104	0.1 0.25	1	40 - (3 3.01	0.0	6	72	55 3.	00 0.61	0.26	391	41	0.03	-7	0.69	10	√ ⟨2	. 4	102)	₹5	₹3	13
24106	1.4 0.54	75	12 (3 1.01	4.9	97	93	252 >10.	00 0.48	0.59	275	6	0.03	37	0.19	233	<2	7	167	⟨\$	⟨3	234
24108	0.1 0.16	₹3	24	3 1.03	0.4	. •	39	14 0,	63 0.18	0.35	67	1	0.01	15	0.61	8	₹2	₹2	12)	(5	₹3	25
24112	0.3 0.23	92	58 (3 1.28	1.1	49	13	148 7.	03 0.41	0.36	192	. 7	0.02	\$2	0.21	63	₹2	4	151	(5	⟨3	78
24193	1.9 0.81	58	94	3 0.45	3./	30	135	200 >10.	00 0.45	0.59	556	В	0.03	35	0.16	65	√ ⟨2	. 8	23	₹5	₹3	80
24295	1.8 0.80	63	57	3 0.43	4.2	46	188	331 >10.	00 0.42	1.50	577	7	0.03	93	0.13	80	<2	- 7	53	₹5	₹3	97
24298	0.1 0.30	. 5	31 (3 2.75	0.1	7	90	57 2.	68 0.57	0.35	371	(1	0.04	11	0.74	11	₹2	4	1030	<5	⟨3	19
24300	0.3 0.27	3	59 (3 1.90	0.1	B	82	107 2.	39 0.42	0.36	352	(1	0.03	. 11	0.70	13	₹2	3.	895	₹5	<3	24
53983	5.3 0.56	210	15	6 1.27	5. 3	141	124	347 >10.	00 0.78	0.63	309	21	0.05	109	0.23	254	<2	11	222	(5	⟨3	212
53995	5.9 0.48	242	59 (3 1.16	3.8	63	27	168 >10.	00 0.51	0.94	232	14	0.03	109	0.13	157	₹2	. 7	5)	⟨5	₹3	264
Mirimum Detection	0.1 0.01	3	1	3 0.01	. 0.1	1	1	1 0.	01 0.01	0.01	1	1	0.01	1	0.01	2	2	2	1	5	3	1
Maximum Detection	50.0 10.00	2000	1000 100		1000.3	20000	1000	20000 10.			20000	1000	10.00	20000	10.00	20000	2000	1000	10000	100	1000	20000
(= Less than Minimum is =																						

ANOMALOUS RESULTS:
FURTHER ANALYSES
BY ALTERNATE
METHODS SUGGESTED

SILT SAMPLE RESULTS

SiLT

GEOCHEM LAB LIMITED

MAIN OFFICE 1988 TRIUMPH ST. VANCOUVER, B.C. V51 1K5 ● (6U4) 251-5656 • FAX (604) 254-5717

BRANCH OFFICES PASADENA, NFLD. BATHURST, N.B. MISSISSAUGA, ONT. RENO, NEVADA, U.S.A.

	REPORT NUMBER:	890343 GA	JOB NUMBER:	890343	CORONA CORPOR	ATION WESTERN	PAGE 1 OF 1
	SAMPLE #		Au				
_ (VÕĞĞĞ		ppb iû	•			
	00960		15				
CIPP	00961		nd				
`	00963		10				
7	24101		15				
7 1000	Pin	rF					
2117	24103		10				
	24105 <u>)</u> 24107		15 15				
	24107		5	•			
aper	24110		nd				
	24110						
	24111 3 Pin	V	15				
-	24111 } Pin	. •	10				
3 4 6	24220		5			1 g 1 g 1 g 1 g 1 g 1 g 1 g 1 g 1 g 1 g	
216 (34304		<u> 3</u> 0				
	24296		15				
Lisa				į			
	24297		25				
	24299	· · · · · · · · · · · · · · · · · · ·	nd 15				
Inhini 1b	53984		uq				
mac m	53994		5				
mac 7	-		•				
lua-	54000		10				
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							
				4			

nd = none detected

-- = not analysed

is = insufficient sample

NO. 772

VANGEOCHEM LAB LIMITED

1988 Trittaph Street, Vancouver, B.C. V5L 103 Ph: (604)251-5656 Fax: (604)254-5717

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HMOm to H=O at 95 °C for 90 minutes and is diluted to 10 ml with water.

This leach is partial for Al, Bm, Ca, Cr, Fe, K, Mg, Mn, Na, P, Pd, Pt, Sn, Sn and W.

P. 12																1				A	NALYS	ST:	/22	2	
REPORT 8: 890343 PA		C	DRONA CO	RP.		Proj:	1057		Dat	e In: 89	/07/18	Dat	e Out:8	KI/07/31	Att:	8 GOAD							P 39 6	t lof	1
Sample Munder	Ag	· Al	As	Ba	Bi 902	Ca .	Cd	Co	Cr	Ce pps	Fe	K	Hg 7	Mn ppa	No pp=	Xa T	Ni ppm	p. n	Pb ppm	Sh	Sa 1192	Sr	<u>u</u>	₩ ppe	71
40000	9ps 0.5	2.22	994 42	рра 179	3	2.96	99 a 2.2	99 a 39	108	395	5.92	0.66	3.29	958	774	11.03	78	0.41	39	(2	9	9 pa 842	99 € (5	⟨3	рр а 90
(0959 (0960	0.3	0.78	24	46	₹3	5.19	0.3	18	12	54	2.77	0.82	0.97	390	,	11,05	16	0.03	32	(2	á	112	(\$	₹3	39
(0%1	9.3	0.93	22	77	(3	5.02	0.8	19	20	79	2.81	0.80	1.18	477	,	11,05	17	0.10	62	(2		107		₹3	71
(09(3	0,1	0.17	5	39		>10.00	0.3	2	- 25	10	0.61	2.57	2.68	197	•	11.02	10	0.0}	36	(2	,	125	(ई (ई	(3	34
14161	0.4	1.37	29	274	(3	1,47	1.2	27	39	224	4.33	0.38	1.70	941	3	11.04	36	0.3;	40	(2	7.	427	<u>«</u>	₹3	136
;4103	0.2	1.66	39	205	(3	2.50	1.7	28	£4	208	5.95	0.59	1.88	1033	3	1). 67	44	0.4)	39	(2	10	637	(5	⟨3	107
14105	0.3	1.39	37	174	(3	2.61	1.7	27	58	215	5.50	0.59	1.78	765	2	1.07	39	0.45	33	(2	. 10	642	(5 (5	₹3	73
		0.84	17_	71_		5.17	0.7	17.		87_	2.55	0.81	_1.10	466	2	1.04	17	0.13		<2	4	120	₹5	₹3	64
24109	0.1	0.14	5	25	(3	>10.00	0.2	2	4	8	0.45	2.63	2.62	181	1	1.03	10	0.02	<u>54</u> 27	<2	(2	123	₹5	(3	32
(4110	0.1	0.21	2	31	⟨3	>10.00	0.1	3	5	9	0.67	2.58	1.51	206	1	1.05	8	0.03	26	<2	₹2	128	(5	· (3	25
24111	0.1	0.28	5	27	₹3	00.00	0.1	3	7	8	0.67	2.31	2.11	204	1).04	9	0.04	25	₹2	₹2	136	<5	⟨3	27
H113	0.3	1.52	18	161	(3	3.39	1.7	15	25	83	2.14	0.55	2.05	525	2).01	24	0.14	67		4	. 89	₹5	₹3	147
14220	0.3	1.09	23	58	₹3	1.01	0.8	17	24	101	3.38	0.26	1.12	505	2).04	19	0.29	33	(2	5	102	₹5	₹3	62
24234	0.3	2.26	26	305	₹3	0.42	0.8	17	:20	73	3.52	0.17	1.37	727	- 4).01	22	0.11	40	₹2	6	35	₹5	₹3	119
24236	0.4	2.42	29	276	(3	0.50	1.2	22	31	97	4.08	0.21	1,54	835	4	0.01	_33	0.11	42	₹2	7	53	<5	(3	136
24237	0.2	1.15	12	154	(3	0.74	0.2	11	12	33	2.91	0.20	0.59	336	1	3.05	10	0.11	24	<2	4	32	<5	₹3	55
24299	0.1	1.68	32	137	<3	2.22	1.7	29	138	223	5.08	0.52	2.17	759	3	9.04	56	0.19	36	₹2	9	584	₹\$	₹3	90
244%	0.1	0.81	17	6	₹3	0.02	0.6	9,	7	13	3.67	0.12	0.07	524	1	0.04	13	0.(5	26	₹2	2	5	(5	(3	138
53984	0.2	0.15	. 3	25	(3	>10.00	0.1	4	2	14	0.88	1.95	0.57	175	(1	0.06	8	0.(2	24	₹2	₹2	93	₹5	₹3	27
53594	0.8	0.39	16	39	₹3	>10.00	0.6	4	14	16	0.79	1.67	5.49	211	1	9.01	16	0.(4	36	<2	3	73	(5	(3	70
54000	0.2	2.62	34	223	<3	0.67	1.1	32	IJ	92	3.66	0.21	2.82	346	14	0.01	49	0.10	35	⟨2	7	31	⟨\$	⟨3	102
Minimum Detection	6.1 50.0	0.61	3 2000	1000	1000	0.01	0.1 1200.0	20000	1000	20000	0.01	0.01	0.01	1 2)000	1 1000	0.01	20000	0.01	20000	2000	2	10000	5 100	3 1000	20000
(= Less than Minimum i	s = insu	fficient	Sample	as = No	sample) = 6r	eater ti	nan Maxid	eua Auf.	A = Fire	assay/	AAS													

ANOMALIDUS RESULTS:
FURTHER ANALYSES
BY ALTERNATE
METHODS SUGGESTED

APPENDIX II

** Application



MAIN OFFICE
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● FAX (604) 254-5717

BRANCH OFFICES
PASADENA, NFLD.
DATHURET, N.B.
MISSISSAUGA, ONT.
RENO, NEVADA, U.S.A.

September 5, 1989

TO:

Mr. Bruce Goad

Corona Corp. Western

Bronson Camp

FROM:

Vangeochem Lab Limited

1988 Triumph Street

Vancouver, British Columbia

V5L 1K5

SUBJECT:

Analytical procedure used to determine hot acid soluble for 25 element scan by Inductively Coupled Plasma Spectrophotometry in geochemical silt and soil samples.

1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received at the laboratory in high wet-strength, 4" x 6", Kraft paper bags. Rock samples would be received in poly ore bags.
- (b) Dried soil and silt samples were sifted by hand using an 8" diameter, 80-mesh, stainless steel sieve. The plus 80-mesh fraction was rejected. The minus 80-mesh fraction was transferred into a new bag for subsequent analyses.
- (c) Dried rock samples were crushed using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for subsequent analyses.

2. Method of Digestion

- (a) 0.50 gram portions of the minus 80-mesh samples were used. Samples were weighed out using an electronic balance.
- (b) Samples were digested with a 5 ml solution of HCL:HNO3:H20 in the ratio of 3:1:2 in a 95 degree Celsius water bath for 90 minutes.
- (c) The digested samples are then removed from the bath and bulked up to 10 ml total volume with demineralized water and thoroughly mixed.

3. Method of Analyses

The ICP analyses elements were determined by using a Jarrel-Ash ICAP model 9000 directly reading the



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spectrophotometric emissions. All major matrix and trace elements are interelement corrected. All data are subsequently stored onto disk.

4. Analysts

analyses were supervised or determined by either Mr. Conway Chun or his laboratory staff.

Convay Chun VANGEOCHEM LAB LIMITED

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• FAX (604) 254-5717

BRANCH OFFICES
PASADENA, NFLD.
BATHURST, N.B.
MISSISSAUGA, ONT.
RENO, NEVADA, U.S.A.

September 5,1989

TO:

Mr. Bruce Goad

Corona Corp. Western

Bronson Camp

FROM:

Vangeochem Lab Limited

1988 Triumph Street

Vancouver, British Columbia

V5L 1K5

SUBJECT:

Analytical procedure used to determine Aqua Regia

soluble gold in geochemical samples.

1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received at the laboratory in high wet-strength, 4" x 6", Kraft paper bags. Rock samples would be received in poly ore bags.
- (b) Dried soil and silt samples were sifted by hand using an 8" diameter, 80-mesh, stainless steel sieve. The plus 80-mesh fraction was rejected. The minus 60-mesh fraction was transferred into a new bag for subsequent analyses.
- (c) Dried rock samples were crushed using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for subsequent analyses.

2. Method of Digestion

- (a) 5.00 to 10.00 grams of the minus 80-mesh portion of the samples were used. Samples were weighed out using an electronic micro-balance and deposited into beakers.
- (b) Using a 20 ml solution of Aqua Regia (3:1 solution of HCl to HNO3), each sample was vigorously digested over a hot plate.
- (c) The digested samples were filtered and the washed pulps were discarded. The filtrate was then reduced in volume to about 5 ml.
- (d) Au complex ions were then extracted into a di-isobutyl ketone and thiourea medium (Anion exchange liquids "Aliquot 336").

VGC VANGEOCHEM LAB LIMITED

MAIN OFFICE 1986 TRIUMPH ST. VANCOUVER, B.C. V5L 1K5

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RENO, NEVADA, U.S.A.

(e) Separatory funnels were used to separate the organic layer.

3. Method of Detection

The detection of Au was performed with a Techtron model AA5 Atomic Absorption Spectrophotometer with a gold hollow cathode lamp. The results were read out onto a strip chart recorder. A hydrogen lamp was used to correct any background interferences. The gold values, in parts per billion, were calculated by comparing them with a set of gold standards.

4. Analysts

The analyses were supervised or determined by Mr. Conway Chun and his laboratory staff.

Conway Chun

VANGEOCHEM LAB LIMITED

