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Geological and Geochemical Report

on the

WOW # 1 Mineral Claim

**Nicola Mining Division, B.C.
NTS 93I 3E**

for

**Southern Rio Resources Ltd.
1410- 650 West Georgia St.
Vancouver, B.C. V6B 4N8**

By

Greg R. Thomson P.Geol

October 15, 2002

**GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT**

26,958

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1. Summary

During the period September 16 to September 24, 2002, a program of geological mapping, soil sampling, stream sampling and rock sampling was carried out on and in the immediate vicinity of the Wow # 1 mineral claim. The purpose of the current exploration program was to do follow-up exploration on work carried out by previous operators on the property as well as to locate any potential areas of new mineralization.

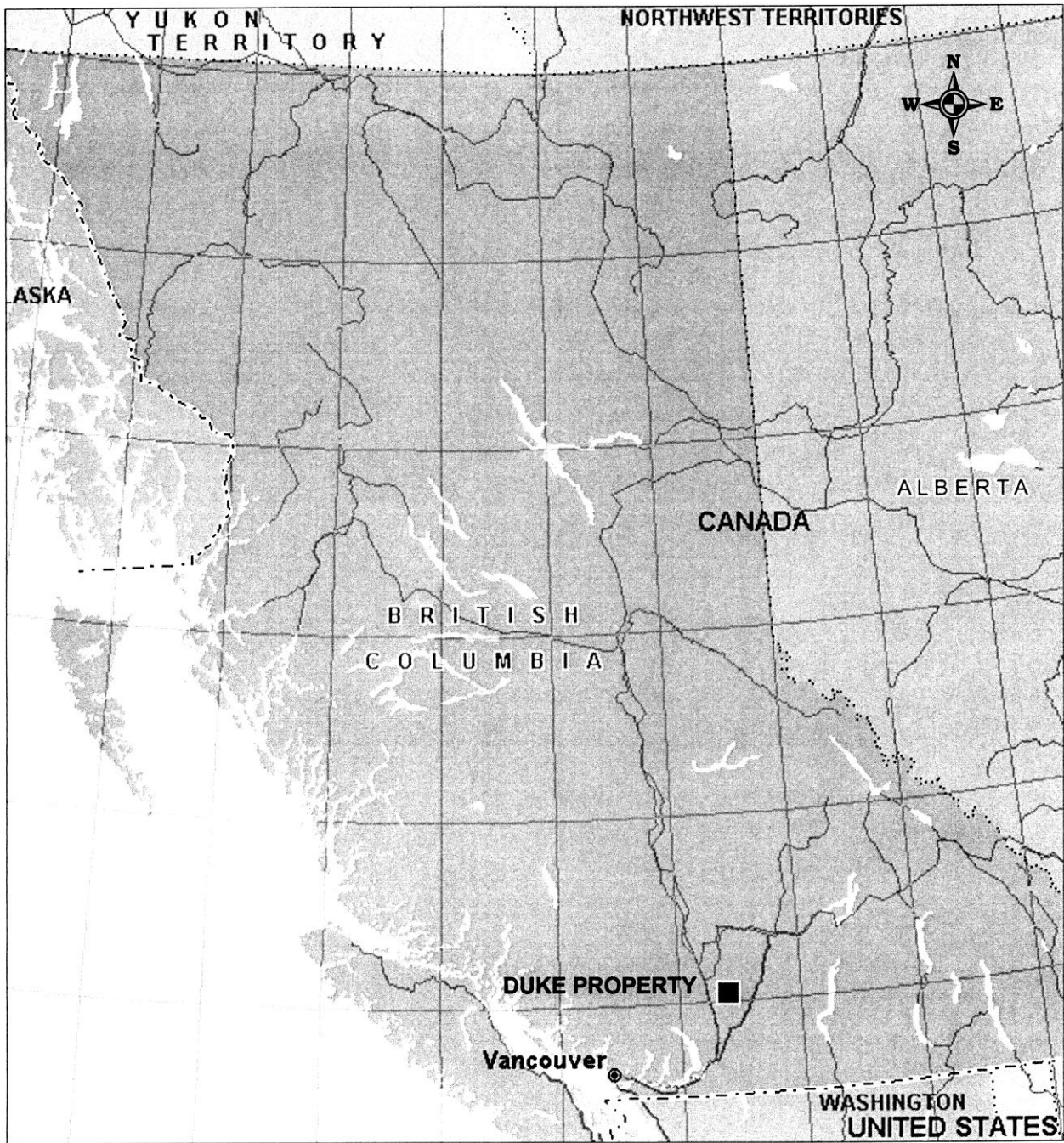
Southern Rio Resources Ltd. of Vancouver, B.C, owns a 100% interest in the Wow # 1 mineral claim. The Wow #1 Mineral claim is located approximately 30 kilometers west of Merritt, B.C. The claim consists of a four by five unit claim block (20 units), which surrounds the Duke copper showing, located along the stream bank of Copper Canyon Creek. The Duke copper showing was discovered in the early 1960's and has seen several stages of exploration work since that time, including at least one diamond drill program.

The Wow # 1 mineral claim is underlain by Cretaceous Spius Creek Formation amygdaloidal basalt flows and is cut by feldspar porphyry of presumed early to mid Tertiary age. Copper – gold mineralization has been located at one outcrop location on the mineral claim and is hosted by the feldspar porphyry unit.

Some of the diamond drilling from the 1960's is difficult to evaluate due to a lack of drill logs and incomplete drill hole location data. Intersections with potentially economic widths and grades of copper mineralization are reported from five drill holes. It is believed that the gold content of these diamond drill intersections was never evaluated.

The most significant mining activity in the general area of the Duke property has focussed on the porphyry copper deposits of the Highland Valley, located approximately 32 kilometers to the northeast of the Wow # 1 claim. The Highland Valley Camp originally contained reserves of close to 2 billion tonnes, grading approximately 0.45% copper equivalent in 1976.

Mineralization on the Duke property consists of a structurally controlled, fracture-fill vein system, with localized concentrations of chalcopyrite, pyrite and magnetite, contained within narrow quartz veins and silicification envelopes. It is suggested that the showing may represent the outer edge of a more concentrated and consistent mineralized zone as indicated by the 1960's drill hole intersections. It has also been suggested that the Duke mineral zone may also be related to a deeper-seated copper (gold, silver) porphyry system.



SOUTHERN RIO RESOURCES LTD.

Date: 10/10/2002

Author: G.T.

Office:

Drawing:

Scale: N.T.S.

DUKE PROPERTY
LOCATION MAP

Projection: NAD83 - Zone 10

FIGURE: 1

Further exploration is warranted for the Duke copper property. It is recommended that a program of close-spaced Induced Polarization surveys be carried out in the vicinity of the known mineral showings and mineralized drill hole intercepts. Based on results from the IP surveys, a program of diamond drilling should be carried out to test the tenor and orientation of the Duke mineral zone.

2. History

The mining history of the region has focussed on the Highland Valley camp, 32 kilometers to the north-northeast. L. Fournier originally staked the Copper Canyon claims in the early 1960's. The claims were optioned to Amalgamated Resources and later to Hurley River Gold Mines in 1962. Between 1962 and 1963, Hurley River Gold Mines drilled 12 holes totalling approximately 1524 meters around Copper Canyon Creek. Significant drillhole intersections from the Hurley River Gold Mines drill program in 1962 and 1963 were as follows (Assessment Report 20912):

Hole No.	Inclination	Intersection (meters)	Interval; (meters)	Copper grade (%)
1	-30°	0.00 – 80.77	80.77	0.22
2	-30°	74.68 – 126.49	51.82	0.55
3	-30°	6.10 – 29.87	23.77	0.60
4	-25°	8.53 – 66.45	57.91	0.63
6	-90°	18.29 – 51.82	33.53	0.61

* Note: no assay results available for holes 7 to 12

Geological mapping, soil sampling and magnetic and electromagnetic surveys were also completed. In 1964, a magnetic geophysical survey was carried out. In 1965, it is reported that a comprehensive review and diamond drill program were carried out. No details are available for the 1965 exploration work and no subsequent drill sites have been located in the field.

In 1969, New Cinch Uranium mines Ltd. conducted a geochemical soil and magnetometer survey. In 1979, the ground was restaked as the Duke claims by T.D. Lewis. Noranda Exploration Co. Ltd. performed geological mapping, soil geochemistry, electromagnetic and magnetic surveys in 1980. In 1990, the Mime claims were staked by United Mineral Services Ltd. In 1990, geological mapping, soil sampling and stream sediment sampling was conducted by Reliance Geological Services Inc. for Pacific Sentinel Gold Corp.

The Wow # 1 mineral claim was staked in October, 2001 by Mr. R. Weicker, to cover the Duke mineral zone. The claim was subsequently acquired by Southern Rio Resources Ltd.

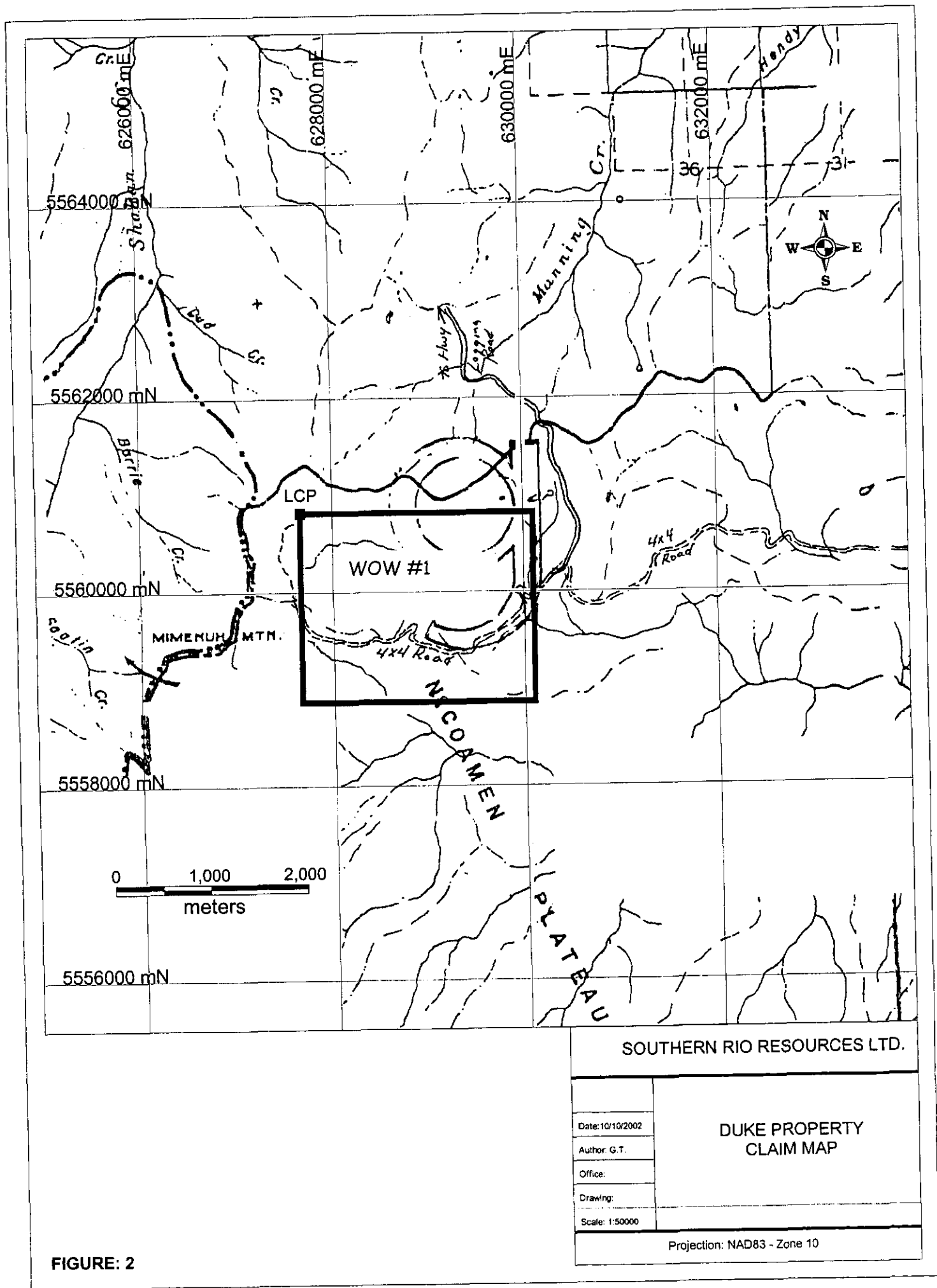


FIGURE: 2

3. Property Access and Topography

The Wow #1 mineral claim lies approximately 28 kilometers west northwest of Merrit, B.C. The claim is reached by following Highway 8, west from Merrit for approximately 33 kilometers, until taking the Dot Ranch turnoff road. After following the Dot Ranch Road for approximately 4 kilometers, the road crosses the Nicola River. At this point the Manning Creek logging road is followed to Kilometer 24. At Kilometer 24, the road makes a sharp turn to the right (west) and follows several kilometers, through the extent of the Wow #1 mineral claim, before terminating at Mimenuh Mountain.

For the most part the claim area lies within an area of gentle to moderate relief, except for the valley of Copper Canyon Creek. Elevations range between 1400 m in the southwest portion of the claim, in the stream valley of Copper Canyon Creek, to 1645 m elevation at the northwest corner of the claim. The property is pine covered with open areas on higher elevations and is also used for cattle grazing. The northeast portion of the claim has been logged in recent years.

4. Regional and Property Geology

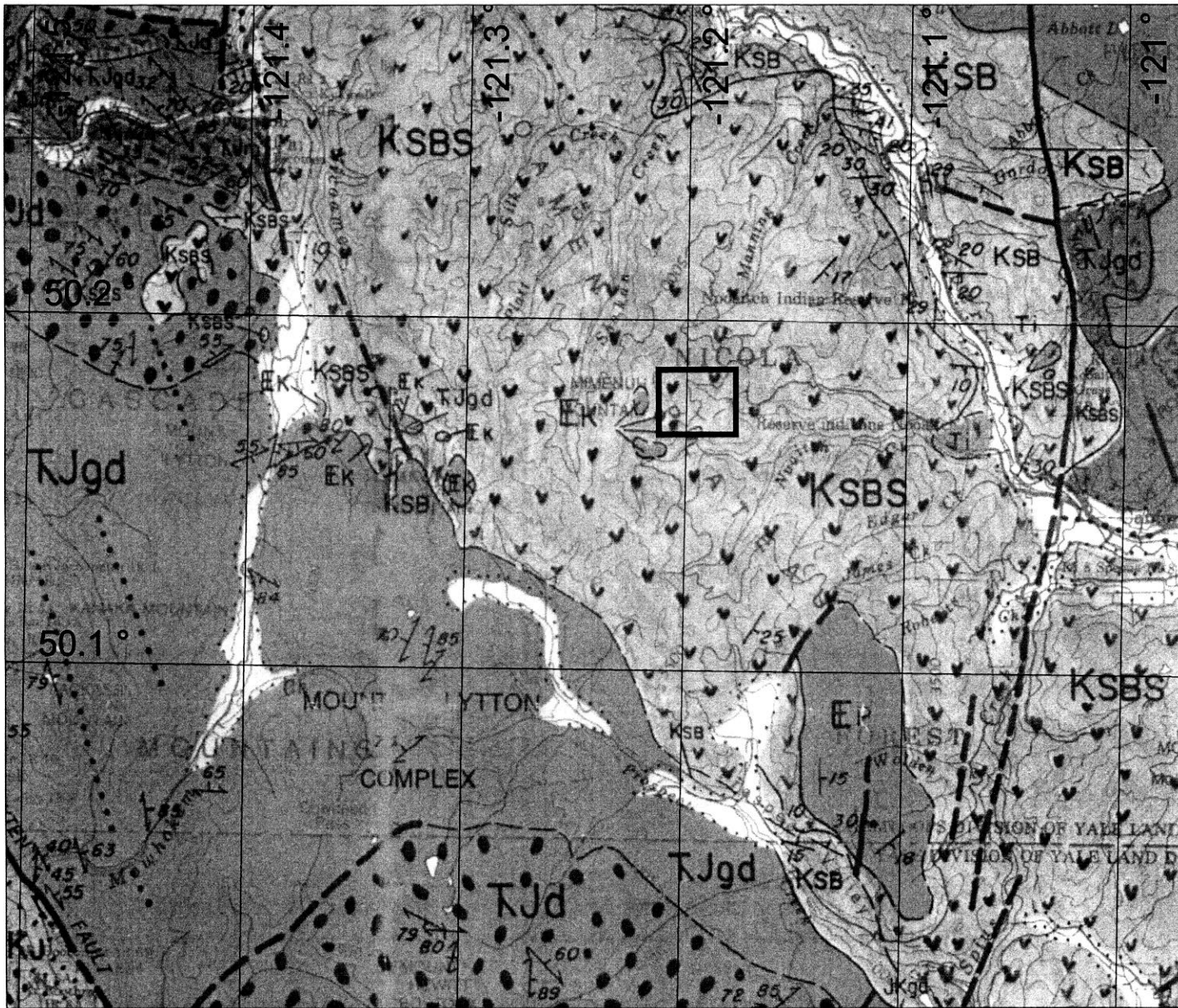
Regionally, the Copper Canyon Creek prospect is underlain by a succession of Paleozoic to Tertiary volcanic and sedimentary rocks that have been intruded by Triassic to Jurassic granodiorite intrusions. This region is contained within the Quesnellia terrane of the Intermontane Belt.

The Spius Creek Formation underlies most of the region surrounding the Copper Canyon Creek prospect and comprises a major unit of the Spences Bridge Group of middle and late Cretaceous age. The Spius Creek Formation consists mostly of basalt flows, locally amygdaloidal, with minor intercalated volcanoclastics. The Spius Creek Formation was formerly mapped as the Kingsvale Group and was subsequently assigned to the Spences Bridge Group during the mapping for GSC Map 42-1989.

Two lithologies were mapped on the Wow# 1 mineral claim.

The oldest and most widespread unit is massive fine grained basalt flows and flow breccias (Unit 1), belonging to the Spius Creek Formation. The volcanics are dark gray/black, fine grained and usually amygdaloidal. Amydules are up to 1 cm in diameter and infilled with chalcedony (agate).

A feldspar porphyry of presumed Tertiary age (Unit 2) is exposed in the southwest portion of the Wow #1 claim. The porphyry unit is fairly extensive as it has been located in several other areas both west and south of the present claim boundary. The porphyry is interpreted as sills/stocks of medium grained plagioclase feldspar porphyry of probable



After GSC Map: 42-1989



- Ek Mainly basalt and andesite; local rhyolite, breccia, tuff and sandstone
- Ep Intermediate, locally mafic and felsic flows, volcanics, characterized by hornblende needles
- Ksb Intermediate, locally felsic and mafic flows and pyroclastics; sandstone, shale, conglomerate
- Ksbs SPIUS CREEK FORMATION of SPENCES BRIDGE GROUP mafic volcanics
- Tjgd Granodiorite, quartz monzonite
- Tjd Diorite and amphibolite of MOUNT LYTTON COMPLEX; small dioritic intrusions in NICOLA GROUP

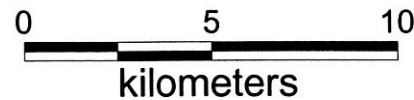
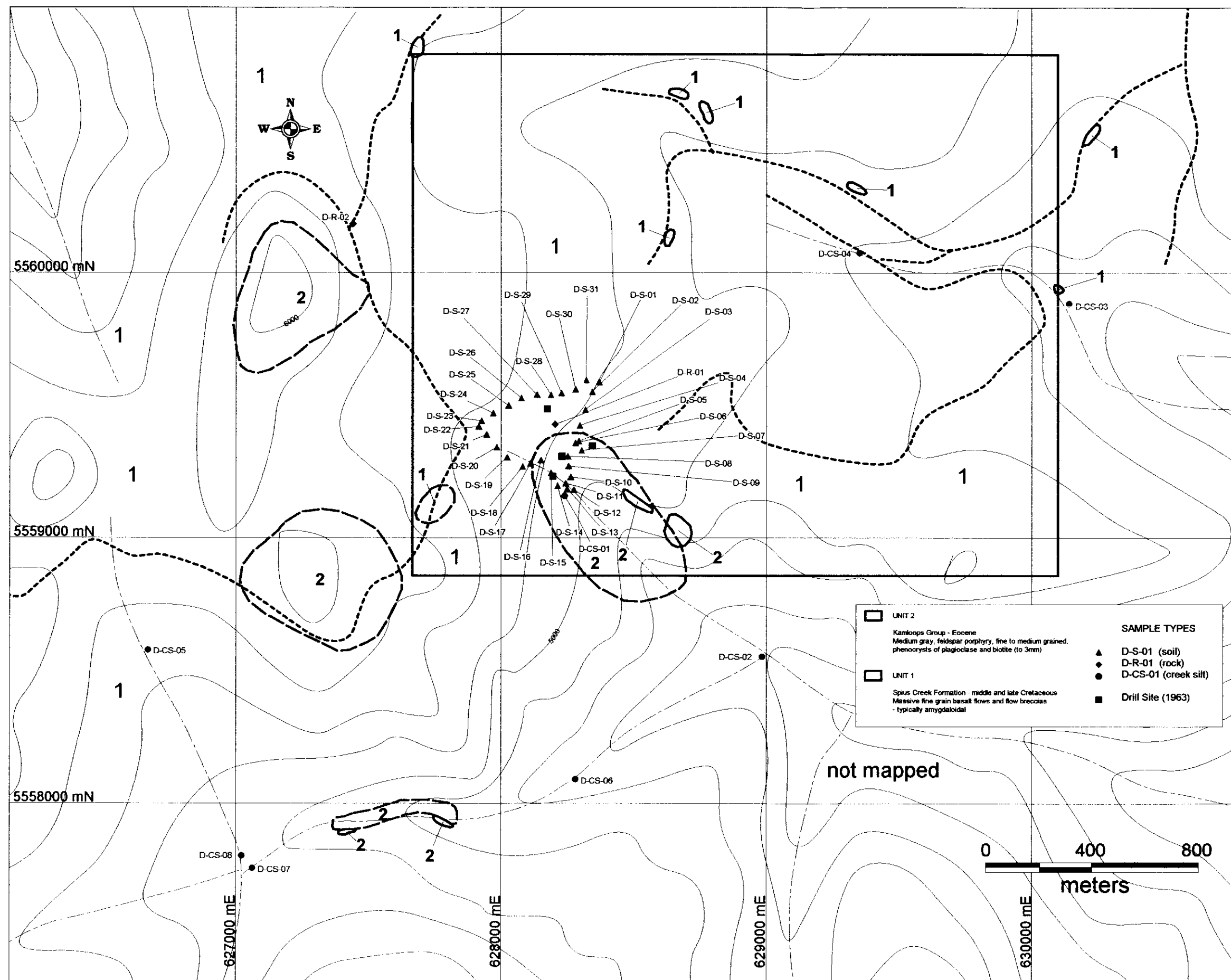


FIGURE: 3

SOUTHERN RIO RESOURCES LTD.	
Date: 10/10/2002	DUKE PROPERTY REGIONAL GEOLOGY
Author: G.T.	
Office:	
Drawing:	
Scale: 1:200000	
Projection: NAD83 - Zone 10	



Sample	Au_ppb	Ag_ppm	Cu_ppm
D-S-01	10	0.2	40
D-S-02	10	0.2	132
D-S-03	15	0.2	94
D-S-04	10	0.2	57
D-S-05	5	0.2	47
D-S-06	35	0.2	88
D-S-07	65	0.2	96
D-S-08	10	0.2	89
D-S-09	20	0.2	51
D-S-10	60	0.2	335
D-S-11	10	0.2	70
D-S-12	10	0.4	69
D-S-13	10	0.2	229
D-S-14	5	0.2	304
D-S-15	5	0.2	105
D-S-16	25	0.2	38
D-S-17	10	0.2	279
D-S-18	10	0.2	70
D-S-19	5	1.4	110
D-S-20	5	0.2	30
D-S-21	5	0.4	49
D-S-22	25	0.2	71
D-S-23	15	0.2	26
D-S-24	75	0.2	23
D-S-25	20	0.2	48
D-S-26	5	0.2	35
D-S-27	5	0.2	142
D-S-28	5	0.2	239
D-S-29	5	0.2	39
D-S-30	5	0.6	23
D-S-31	65	0.2	47
D-R-01	560	9.4	6,685
D-R-02	75	136	5,554
D-CS-01	55	0.2	99
D-CS-02	5	0.2	46
D-CS-03	5	0.2	47
D-CS-04	5	0.2	38
D-CS-05	5	0.2	56
D-CS-06	45	0.2	41
D-CS-07	5	0.2	126
D-CS-08	5	0.4	87

SOUTHERN RIO RESOURCES LTD.

**DUKE PROPERTY
GEOLOGY
and
SAMPLING MAP**

Date: 10/10/2002
 Author: G.T.
 Office:
 Drawing:
 Scale: 1:15000

Projection: NAD83 - Zone 10 **FIGURE: 4**

andesitic composition. The feldspar porphyry is interpreted as a feeder system of the overlying Kamloops Group volcanics of Eocene age.

The porphyry is medium gray, fine to medium grained and contains phenocrysts of plagioclase and biotite (to 3 mm). The porphyry unit is generally very fresh in appearance and shows no evidence of veining or alteration throughout the mineral property, except at the main Duke mineral showing.

From previous geophysical work in the vicinity of the Duke copper showing, a fault is inferred along Copper Canyon Creek. This structure, combined with the possibility of cross-structures, suggest a favorable environment for mineralized vein/shear systems.

The porphyry unit contains variable orientations of jointing directions. Vein orientations at the main mineral showing, display a preferred steep orientation along 15° to 20° joint directions.

The main mineral showing is hosted by the feldspar porphyry unit. A sheeted quartz vein system is exposed in the hanging wall, lying above a 20-30 cm limonitic shear zone. Copper mineralization is mainly concentrated across approximately 1.5 m as a veined and silicified envelope, surrounding the narrow limonitic shear band. (See Fig. 6)

5. 2002 Exploration Program

The following procedures were carried out in and around the Wow #1 mineral claim, during the period September 16 to 24, 2002

1. Location of mineral property, main mineral outcrop and drill road access
2. Traverse down southwest side of Copper Canyon Creek to intersection with main creek flowing from west, return along upper northeast stream bank
3. Mapping and sampling of main Duke copper showing
4. GPS mapping and soil sampling of old drill site access road network
5. Prospect and locate possible mineralization along east flank of Mimenuh Mountain
6. Prospect and silt sample creek network to southwest of Wow # 1 claim
7. Map roads and silt sample drainage along east side of Wow #1 claim
8. Property visit by M. Cathro (Kamloops Regional Geologist – BCMEM)

Rock outcrops are quite limited on the Wow # 1 mineral claim. Outcrops mainly occur along road cuts and to a lesser extent, within gentle to moderate stream drainages. New areas of previously unknown outcrop are rare, and where located, were added to the existing geological database.

Two rock samples were collected during the current exploration work. Sample D-R-01 was a 1.0m chip sample across the strongest area of mineralization at the Duke copper showing. As this showing has been extensively sampled and evaluated in the past, a more extensive sampling program was not warranted.

Samples Duke 101, 102 and 103 were collected by L. Bottomer, President of Southern Rio Resources Ltd. These samples are grab samples from the Duke copper showing and were taken to give a general indication of the grade of mineralization of the Duke showing area. Of particular interest, was the level of gold present with the copper mineralization. These results are given in the assay results section of the appendices.

Rock sample D-R-02 was a composite float sample taken from the roadbed along the east side of Mimenuh Mountain. This sample was located immediately adjacent to a roadside outcrop of dark, fine grained basalts. The source of the float samples was not located, but consisted of light colored, leached volcanics with weak malachite coatings. This sample may represent a repeat of sample MR9 assayed by Reliance Geological Services Inc. in 1990. Sample MR9 returned 1000 ppm copper, 50 ppm silver and 85 ppb gold, from a sample of unknown description.

A total of 8 silt samples were collected from various drainages both on and in the immediate vicinity of the Wow #1 claim. These sample locations are shown on Figure 4. It is important to note that the majority of these creek drainages have very minor or seasonal flow in them and silt sediment is generally poorly developed in them. At the time of the current survey work, the majority of drainages were dry.

A total of 31 soil samples were collected along the drill road access that was established in the 1960's. The purpose of the survey was to attempt to determine possible trends of mineralization for the Duke mineral zone.

The roads are quite deteriorated and overgrown, but can still be followed. Several of the old drill site set-ups are still recognizable. Samples were collected from the roadbank, on approximately 50-meter intervals. Samples were collected from the B soil horizon in minimally disturbed areas. GPS readings were taken for the various soil sample sites, but were not always obtainable in the more heavily forested areas of the road network. Soil sample sites and respective geochemical values are given on Figures 5 and 5a.

During the course of the current investigations on the Duke property area, rock outcrops and float material were closely examined for any signs of localized mineralization, quartz veining or rock alteration. As mentioned previously, no new areas of in-situ mineralization were located.

6. Survey Results

Due to the general paucity of rock outcrop in the area of the Wow # 1 mineral claim, little new information could be added to the existing geological database.

Rock sampling at the Duke copper prospect indicates the potential for a much larger copper (gold, silver) vein /shear system. This is also borne out by the wide zones of potentially economic grades of copper mineralization located by the 1960's diamond drill program.

Sample D-R-01 from the Duke showing, returned 6685 ppm copper, 560 ppb gold and 9.4 ppm silver.

Float sample D-R-02 was collected from the road bed, along the east flank of Mimenuh Mountain. This sample is significant in that it returned 5554 ppm copper, 75 ppb gold and assayed a very high 136.0 g/t silver. As this sample was located close to the basalt – feldspar porphyry contact, the source of such mineralization is of interest.

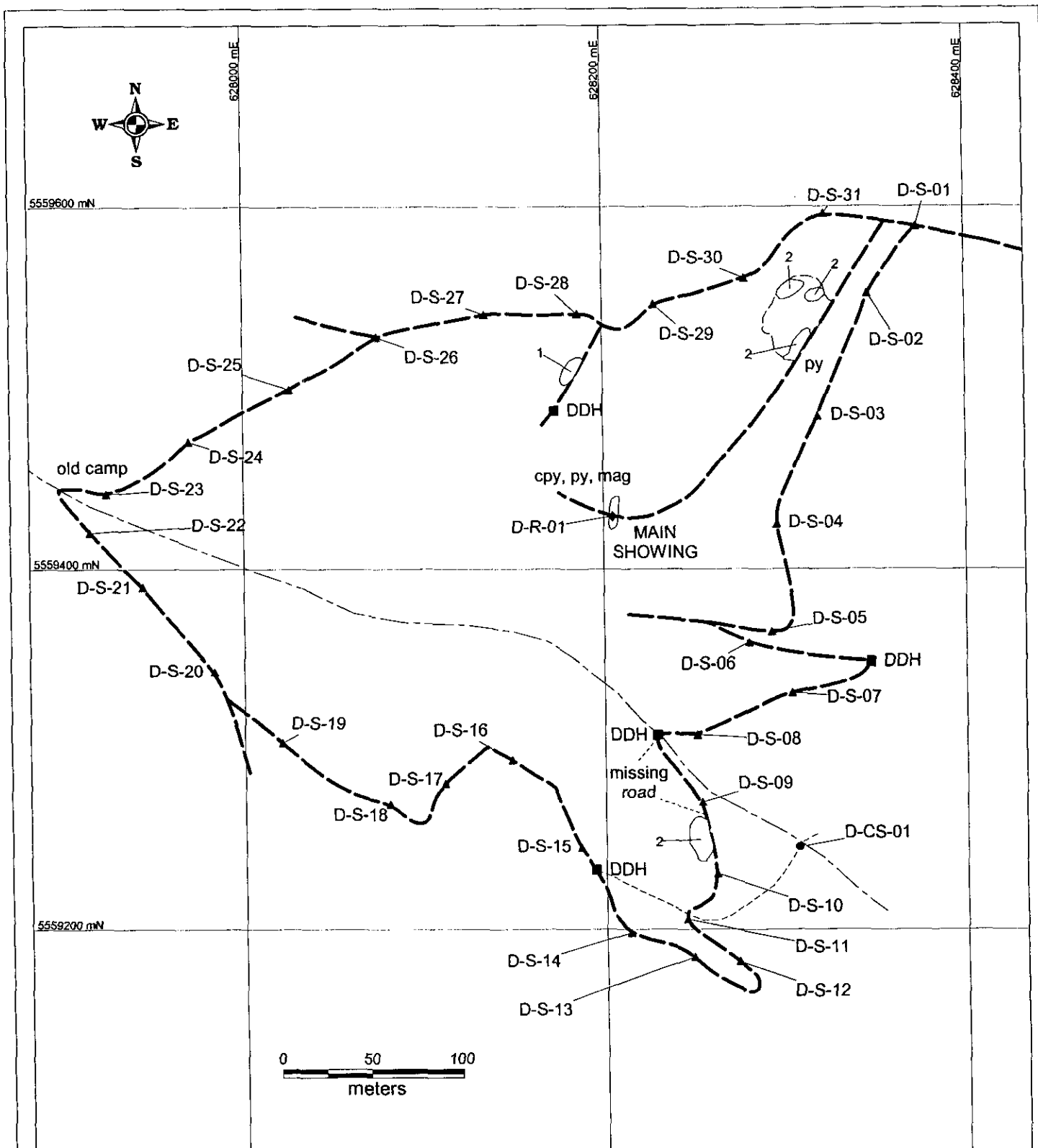
The silt-sampling program did not return generally high results, although sample D-CS-01 and sample D-CS-06 returned gold values of 55 ppb and 45 ppb, respectively. Sample D-CS-01 is significant in that it lies in relative close proximity to the Duke copper showing. Sample D-CS-07 returned the highest copper value of 126 ppm.

The soil-sampling program along the old drill road network produced some anomalous results. At the south side of the drill road access, there appears to be a clustering of higher than background values in copper in soils, for samples D-S-10, 13, 14, 15 and 17 (335 ppm, 229 ppm, 304 ppm, 105 ppm, 279 ppm respectively).

To the north, along the main access road through the mineral property, samples D-S-27 and D-S-28 returned copper values of 142 ppm Cu and 239 ppm Cu, respectively.

These two areas of high copper values suggest a possible north-south trend for the Duke mineral zone. This north-south trend is also suggested by the vein orientations at the main Duke copper showing. As this trend does not necessarily follow the course of the inferred fault zone of Copper Canyon Creek, it is suggested that copper (gold, silver) mineralization is being concentrated along the intersection of a splayed cross-fault structure to the Copper Canyon Fault.

Gold concentrations in the soils appear somewhat erratic and higher values may indicate a placer concentration in the area of the stream bottom of Copper Canyon Creek.



- UNIT 2**
 Kamloops Group - Eocene
 Medium gray, feldspar porphyry, fine to medium grained,
 phenocrysts of plagioclase and biotite (to 3mm)

- UNIT 1**
 Spius Creek Formation - middle and late Cretaceous
 Massive fine grain basalt flows and flow breccias
 - typically amygdaloidal

- SAMPLE TYPES**
- ▲ D-S-01 (soil)
 - ◆ D-R-01 (rock)
 - D-CS-01 (creek silt)
 - Drill Site (1963)

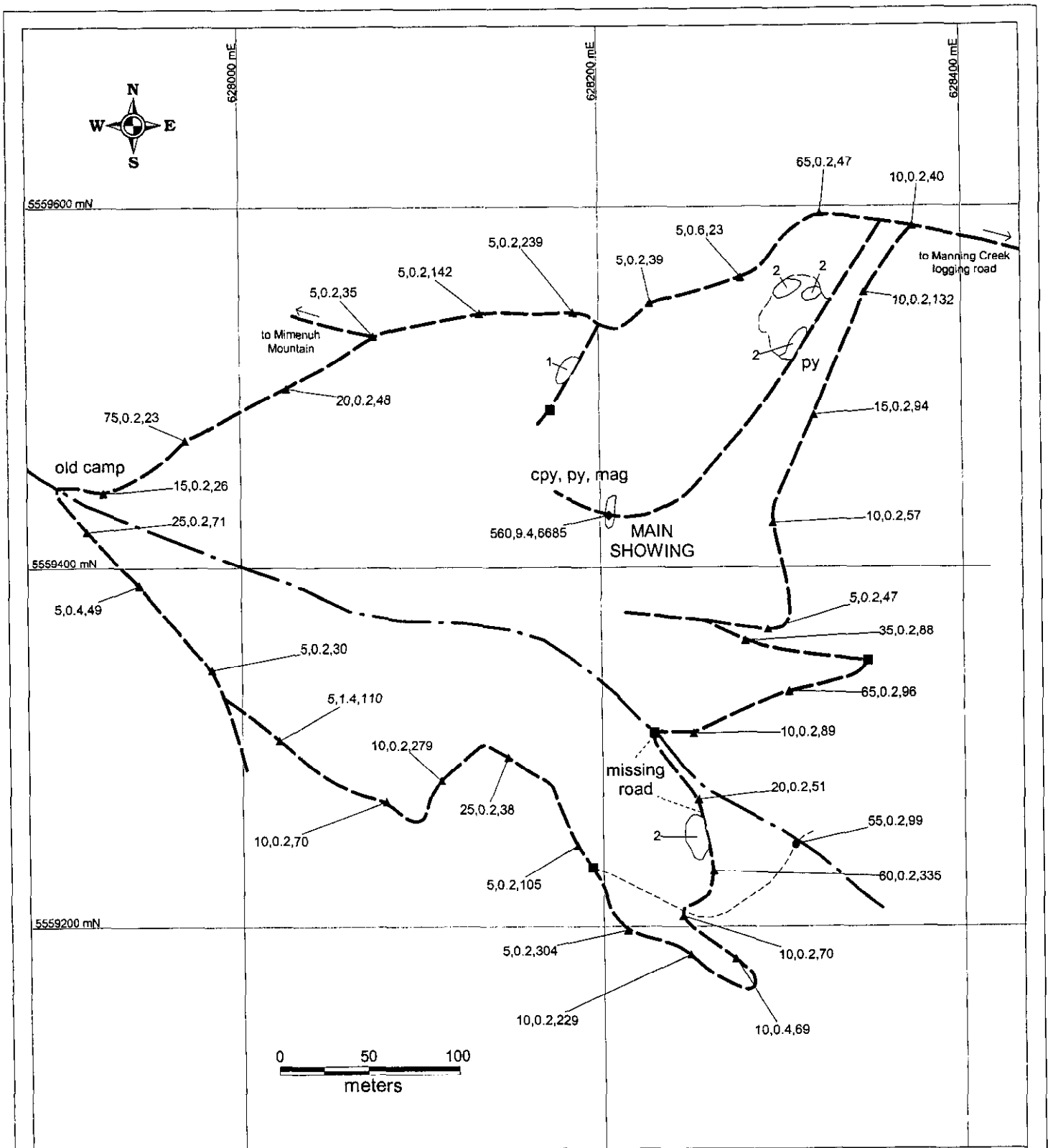
SOUTHERN RIO RESOURCES LTD.

Date: 10/10/2002
 Author: G.T.
 Office:
 Drawing:
 Scale: 1:3000

**DUKE PROPERTY
 SOIL SAMPLE
 LOCATIONS**

Projection: NAD83 - Zone 10

FIGURE: 5

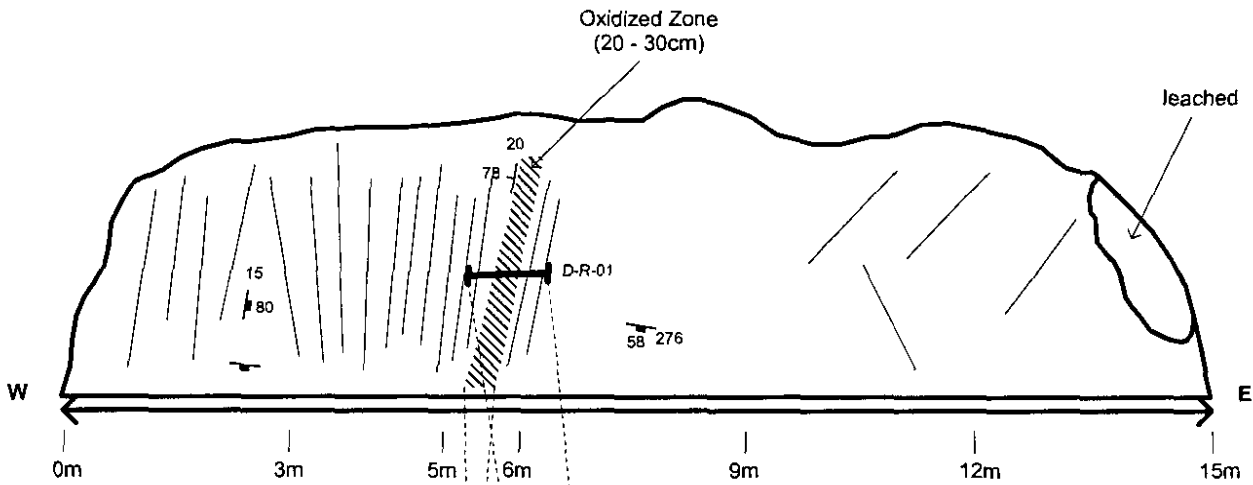


- UNIT 2**
 Kamloops Group - Eocene
 Medium gray, feldspar porphyry, fine to medium grained, phenocrysts of plagioclase and biotite (to 3mm)
- UNIT 1**
 Spies Creek Formation - middle and late Cretaceous
 Massive fine grain basalt flows and flow breccias - typically amygdaloidal
- SAMPLE TYPES**
- ▲ D-S-01 (soil)
 - ◆ D-R-01 (rock)
 - D-CS-01 (creek silt)
 - Drill Site (1963)
- Au ppb Ag ppm Cu ppm
- 10,0,2,229

SOUTHERN RIO RESOURCES LTD.

Date: 10/10/2002	DUKE PROPERTY SOIL GEOCHEMISTRY
Author: G.T.	
Office:	
Drawing:	
Scale: 1:3000	
Projection: NAD83 - Zone 10	

FIGURE: 5a



- gray, weak to moderate silicified plg, porphyry
- sporadic weak anastomosing quartz veinlets (hairline-1 cm)
- localized sporadic malachite stain
- trace anastomosing quartz veinlets (hairline to 0.5 cm)
- bleached or weathered outcrop @ 14-15 m
- greenish gray, med. grain plg, porphyry
- devoid of quartz veining
- minor malachite on joint surfaces @ 276/585
- 1.0 to 1.5 m zone of intense quartz veining and silicification with conspicuous malachite coatings associated with variable f.g dissem. chalcopyrite pyrite, magnetite
- leached zone (20-30 cm) is pervasively limonitic with minor malachite coatings
- strongest copper mineralization lies approx. 1 m to west of leached zone and 0.5 m east of leached zone
- vein intensity increasing to east with narrowed spacings
- minor malachite on joint surfaces
- veining oriented subparallel with oxidized zone at 5-6 m
- gray, fine to med. grain plg, porphyry
- pervasively moderately magnetic
- conspicuous jointing @ 15/80E, 102/60S
- pervasive silicification with sheeted quartz veins 1-3 cm
- veining generally aligned with 15° jointing planes
- weak sporadic malachite

SOUTHERN RIO RESOURCES LTD.

Date: 10/10/2002

Author: G.T.

Office:

Drawing:

Scale: 1:1000

DUKE PROPERTY
MAIN SHOWING

Projection: NAD83 - Zone 10

FIGURE: 6

7. Conclusions and Recommendations

The Duke copper prospect remains an area of strong economic interest. Given the promising results of past diamond drilling on the property, future exploration work is definitely warranted.

The present economic target is that of a structurally controlled vein/ shear related copper-gold-silver system. Copper \pm silver, gold quartz veins are common in copper metallogenic provinces and are often more important as indicators of the presence of other types of copper deposits.

The primary economic target on the Wow #1 mineral claim remains the known area of mineralization, located in the immediate vicinity of the Duke copper showing and diamond drill area.

It is recommended that a limited program of Induced Polarization surveys be carried out over the area of known mineralization. As this type of geophysical survey has not been carried out in the past, it is hoped that mineralized conductive zones can be better defined by such a survey.

Following definition of mineralized zones by the IP surveys, a program of diamond drilling should be carried out. As drill access roads are presently available from the 1963 drill program, these roads can be rehabilitated and used for a new diamond drill program.

It is also recommended that exploration efforts be carried out to locate the source of the copper-silver mineralized float, found along the east side of Mimenuh Mountain. This area should be thoroughly prospected for additional mineralization. Also, it is suggested that a small grid be established in this area, to carry out soil sampling and geophysical surveys. The contact between Spius Creek Formation basalt flow rocks and Tertiary feldspar porphyry, lies in close proximity to where the mineralized float samples were found. The mineralization in this area may be related to the contact between these two rock units.

8. References

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Geology, Ashcroft, B.C. (GSC Map 42-1989) 1:250 000 scale
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Report on the Copper Canyon, PJH, Tent and Eagle Groups of Mineral Claims in the
Merritt Area of British Columbia. Private Report

APPENDIX I

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Gregory R. Thomson, do state that:

1. I reside at Unit 40 – 21928 – 48th Avenue, Langley, British Columbia, V3A 8H1.
2. I have worked as a mineral exploration geologist, since 1970. The majority of my work experience has been in the province of British Columbia.
3. I hold a Bachelors of Science degree in Geology from the University of British Columbia (1970).
4. I was employed as a Senior Project Geologist with Teck Exploration Limited of Vancouver, British Columbia (1989-2000).
5. I am a registered Professional Geoscientist in the Province of British Columbia.



Greg R. Thomson P. Geo



APPENDIX II

COST STATEMENT

APPENDIX II: COST SUMMARY

1. Salaries: (September 16-24/2002)		
	G. Thomson (Geologist) 9 x \$250.00	\$2250.00
	D. Nikirk (Assistant) 9 x \$185.00	\$1665.00
	Report Preparation (G.T.) 4 x \$225.00	\$900.00
	Drafting	\$600.00
2. Motel (Merritt)	8 days	\$662.40
3. Meals	9 days	\$583.78
4. Truck rental, gas	9 days	\$965.00
5. Assays (Eco Tech Labs – Kamloops)		\$502.20
	2 rocks, 8 silt, 31 soils	
6. Supplies		\$75.00
7. Highway Toll		\$20.00
8. Telephone		\$34.25
9. Airplane fare		\$245.00
10. Maps, air photos		\$77.75
TOTAL		\$8580.38

APPENDIX III

ASSAY RESULTS

7-Oct-02

ECO TECH LABORATORY LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 2002-364

SOUTHERN RIO RESOURCES LTD.
Suite 1410 - 650 West Georgia
Vancouver, BC
V6B 4N8

Phone: 250-573-5700
Fax : 250-573-4557

ATTENTION: LINDSAY BOTTOMER

No. of samples received: 39
Sample Type: Soil/Silt
Project #: None given
Shipment #: None given
Samples submitted by: G. Thomson

Values in ppm unless otherwise reported

Et #.	Tag #	Mesh Size	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																											
			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	
1	D-S-01	-48	10	0.2	2.33	<5	125	10	0.83	<1	19	52	40	3.08	20	1.04	668	<1	0.03	37	640	22	<5	<20	83	0.16	<10	74	<10	
2	D-S-02		10	<0.2	2.53	<5	75	5	0.98	1	22	54	132	3.41	20	1.07	939	<1	0.03	41	580	24	<5	<20	88	0.18	<10	76	<10	
3	D-S-03		15	0.2	2.44	<5	90	10	0.62	<1	27	56	94	3.88	20	0.96	526	<1	0.03	40	620	20	<5	<20	106	0.18	<10	89	<10	
4	D-S-04		10	0.2	2.24	<5	120	10	1.10	<1	22	55	57	3.40	20	1.30	643	<1	0.05	44	790	20	<5	<20	144	0.21	<10	87	<10	
5	D-S-05		5	<0.2	1.77	<5	110	5	0.79	<1	15	41	47	2.58	10	0.72	443	<1	0.03	27	400	22	<5	<20	93	0.16	<10	68	<10	
6	D-S-06		35	<0.2	1.98	<5	120	5	1.05	<1	21	50	88	3.45	20	1.19	654	<1	0.04	37	1020	42	<5	<20	130	0.18	<10	82	<10	
7	D-S-07		65	0.2	1.97	<5	115	10	1.46	<1	23	52	96	3.60	20	1.50	589	<1	0.07	45	1160	32	<5	<20	165	0.20	<10	86	<10	
8	D-S-08		10	<0.2	2.09	<5	100	10	1.27	<1	24	53	89	3.60	20	1.54	646	<1	0.08	47	1100	22	<5	<20	160	0.21	<10	88	<10	
9	D-S-09		20	0.2	1.73	<5	110	15	1.08	<1	19	46	51	3.03	20	1.20	547	<1	0.07	38	1050	18	<5	<20	179	0.20	<10	86	<10	
10	D-S-10		60	<0.2	2.26	<5	110	<5	0.83	<1	44	47	335	4.15	20	1.15	779	10	0.05	37	960	24	<5	<20	226	0.17	<10	77	<10	
11	D-S-11		10	<0.2	2.15	<5	95	10	1.03	<1	23	56	70	3.58	20	1.42	603	<1	0.06	46	1090	16	<5	<20	166	0.21	<10	93	<10	
12	D-S-12		10	0.4	2.41	<5	110	10	0.69	<1	22	60	69	3.82	20	1.42	370	<1	0.04	42	720	20	<5	<20	151	0.23	<10	107	<10	
13	D-S-13		10	<0.2	3.81	<5	165	<5	0.83	<1	26	69	229	5.04	20	1.84	412	8	0.03	46	840	30	<5	<20	420	0.19	<10	133	<10	
14	D-S-14		5	<0.2	3.53	<5	105	5	0.43	<1	27	56	304	4.35	10	1.75	263	<1	0.04	46	880	24	<5	<20	98	0.26	<10	121	<10	
15	D-S-15		<5	<0.2	2.53	<5	140	10	0.93	<1	25	61	105	3.99	20	1.52	570	<1	0.06	49	690	26	<5	<20	127	0.23	<10	105	<10	
16	D-S-16		25	<0.2	2.36	<5	150	10	0.51	<1	18	53	38	3.34	10	1.00	298	<1	0.04	37	580	26	<5	<20	80	0.20	<10	92	<10	
17	D-S-17		10	<0.2	3.28	<5	280	<5	1.04	<1	18	72	279	4.98	20	2.42	504	<1	0.06	41	1080	18	<5	<20	585	0.17	<10	140	<10	
18	D-S-18		10	<0.2	2.61	<5	140	10	1.11	1	26	61	70	3.79	20	1.38	788	<1	0.04	49	680	26	<5	<20	109	0.20	<10	86	<10	
19	D-S-19		<5	1.4	2.75	<5	65	5	1.38	7	24	49	110	2.98	30	0.92	873	<1	0.04	50	460	24	<5	<20	85	0.15	<10	61	<10	
20	D-S-20		<5	0.2	2.83	<5	135	10	0.34	2	19	47	30	3.17	10	0.83	434	<1	0.03	38	1310	34	5	<20	42	0.16	<10	73	<10	
21	D-S-21		<5	0.4	2.95	<5	220	10	0.90	1	20	55	49	3.42	20	1.14	466	<1	0.04	42	580	36	<5	<20	73	0.16	<10	79	<10	
22	D-S-22		25	0.2	2.71	<5	200	10	1.22	<1	24	58	71	3.74	30	1.41	755	<1	0.05	48	560	34	<5	<20	102	0.21	<10	89	<10	
23	D-S-23		15	<0.2	2.34	<5	135	10	0.38	<1	17	50	26	3.27	10	0.91	332	<1	0.03	31	740	34	<5	<20	64	0.17	<10	85	<10	
24	D-S-24		75	<0.2	2.15	<5	155	5	0.50	<1	14	44	23	2.91	10	0.76	306	<1	0.03	28	860	50	<5	<20	52	0.12	<10	72	<10	
25	D-S-25		20	0.2	2.34	<5	150	10	0.84	<1	21	60	48	3.62	20	1.25	590	<1	0.04	41	890	36	<5	<20	99	0.21	<10	91	<10	

SOUTHERN RIO RESOURCES LTD.

ICP CERTIFICATE OF ANALYSIS AK 2002-364

ECO TECH LABORATORY

Et #.	Tag #	Mesh Size	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																											
			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	
26	D-S-26		<5	<0.2	2.74	<5	145	5	0.54	<1	19	52	35	3.38	20	0.95	632	<1	0.03	35	990	36	<5	<20	70	0.17	<10	79	<10	
27	D-S-27		<5	<0.2	3.01	<5	165	5	0.82	<1	23	61	142	3.91	20	1.13	526	4	0.02	42	860	32	<5	<20	139	0.18	<10	92	<10	
28	D-S-28		<5	<0.2	2.86	<5	180	<5	0.88	<1	19	54	236	4.07	30	1.28	305	<1	0.03	39	700	16	<5	<20	399	0.15	<10	103	<10	
29	D-S-29		5	<0.2	2.56	<5	125	10	0.86	<1	22	60	39	3.59	20	1.30	467	<1	0.04	44	700	24	<5	<20	104	0.20	<10	90	<10	
30	D-S-30		<5	0.6	2.29	<5	150	10	0.43	<1	16	43	23	2.77	10	0.76	451	<1	0.03	31	860	22	<5	<20	53	0.15	<10	61	<10	

31	D-S-31		65	0.2	2.51	<5	110	10	0.81	<1	19	53	47	3.15	20	0.92	967	<1	0.03	38	840	24	<5	<20	79	0.16	<10	77	<10	18
32	D-CS-O1	-48	55	<0.2	1.63	<5	115	<5	1.03	<1	22	52	99	3.40	20	1.26	677	<1	0.06	40	960	14	<5	<20	165	0.17	<10	96	<10	13
33	D-CS-02	-40	<5	0.2	1.38	<5	80	10	0.82	<1	20	54	46	4.19	20	1.23	467	<1	0.06	38	990	14	<5	<20	87	0.17	<10	130	<10	12
34	D-CS-03	-42	5	0.2	1.90	<5	105	10	1.15	<1	20	48	47	3.23	20	1.22	466	<1	0.07	38	870	14	<5	<20	167	0.22	<10	94	<10	17
35	D-CS-04	-48	<5	0.2	2.19	<5	140	10	1.34	<1	17	48	38	2.78	20	1.12	396	<1	0.06	39	830	16	<5	<20	186	0.19	<10	78	<10	18
36	D-CS-05	-48	<5	0.2	3.35	<5	215	10	1.16	<1	20	56	56	3.56	30	1.40	556	<1	0.04	51	800	20	<5	<20	137	0.17	<10	83	<10	28
37	D-CS-06	-48	45	0.2	1.66	<5	105	5	1.02	<1	18	48	41	3.18	20	1.26	491	<1	0.07	38	960	18	<5	<20	117	0.16	<10	89	<10	14
38	D-CS-07	-48	5	<0.2	1.92	<5	115	<5	1.02	<1	21	52	126	3.49	20	1.49	631	<1	0.07	48	1050	20	<5	<20	102	0.17	<10	95	<10	15
39	D-CS-08	-42	<5	0.4	2.26	<5	125	10	1.09	<1	20	50	87	3.30	20	1.34	546	<1	0.05	44	850	20	<5	<20	103	0.17	<10	84	<10	16

QC DATA:

Repeat:																														
1	D-S-01		10	0.2	2.34	<5	125	10	0.84	<1	19	53	39	3.10	20	1.04	669	<1	0.03	37	630	24	<5	<20	85	0.16	<10	76	<10	14
10	D-S-10		20	<0.2	2.27	<5	115	<5	0.83	<1	44	47	334	4.15	20	1.15	776	10	0.05	38	970	24	<5	<20	226	0.18	<10	78	<10	14
19	D-S-19		<5	1.4	2.82	<5	65	5	1.36	7	24	50	111	3.04	30	0.94	878	<1	0.04	49	460	24	<5	<20	65	0.15	<10	64	<10	26
28	D-S-28		<5	<0.2	2.90	<5	180	<5	0.88	<1	19	54	240	4.08	30	1.28	308	<1	0.04	39	700	14	<5	<20	406	0.15	<10	103	<10	15

Standard:

GEO '02			125	1.6	1.64	50	135	<5	1.54	<1	19	62	86	3.45	10	0.96	601	<1	0.03	30	660	22	<5	<20	41	0.14	<10	72	<10	9
GEO '02			120	1.6	1.63	45	135	5	1.53	<1	18	62	86	3.40	10	0.96	600	<1	0.03	30	660	20	<5	<20	41	0.13	<10	70	<10	9

JJ/kk
dt/353
XLS/02

ECO TECH LABORATORY LTD.
Jutta Jealous
B.C. Certified Assayer

1-Oct-02

ECO TECH LABORATORY LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 2002-356

SOUTHERN RIO RESOURCES LTD.
Suite 1410 - 850 West Georgia
Vancouver, BC
V6B 4N8

Phone: 250-573-5700
Fax : 250-573-4557

ATTENTION: LINDSAY BOTTOMER

No. of samples received: 2
Sample Type: Rock
Project #: None given
Shipment #: None given
Samples submitted by: G. Thomson

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
1	D-R-01	560	9.4	0.47	<5	25	<5	0.10	<1	8	156	6685	3.87	10	0.31	94	18	0.03	8	520	<2	5	<20	13	0.14	10	28	<10
2	D-R-02	75	>30	0.26	5	25	<5	0.18	<1	5	103	5554	1.10	10	0.04	63	47	<0.01	7	770	26	10	<20	5	0.10	<10	5	<10

QC DATA:

Resplit:

1	D-R-01.	515	9.4	0.43	<5	20	<5	0.09	<1	8	144	6620	3.80	10	0.29	96	18	0.02	8	510	<2	5	<20	11	0.14	<10	27	<10
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Repeat:

1	D-R-01	540	9.4	0.46	<5	20	<5	0.10	<1	8	157	6675	3.86	10	0.30	98	18	0.03	9	540	4	5	<20	10	0.14	10	28	<10
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JJ/ejd
df/351
XLS/02

ECO TECH LABORATORY LTD.
Jutta Jealous
B.C. Certified Assayer

CERTIFICATE OF ASSAY AK 2002-355

SOUTHERN RIO RESOURCES LTD.

Suite 1410 - 650 West Georgia

Vancouver, BC

V6B 4N8

2-Oct-02

ATTENTION: LINDSAY BOTTOMER

No. of samples received: 2

Sample Type: Rock

Project #: None given

Shipment #: None given

Samples submitted by: G. Thomson

ET #.	Tag #	Ag (g/t)	Ag (oz/t)
2	D-R-02	136	3.97

JJ/kk
XLS/02

ECO TECH LABORATORY LTD.

Jutta Jealouse

B.C. Certified Assayer

ACME ANALYTICAL LABORATORIES LTD.
(ISO 9002 Accredited Co.)

852 E. HASTINGS ST. VANCOUVER BC V6A 1R6

PHONE (604) 253-3158 FAX (604) 253-1716

AA
LL

ASSAY CERTIFICATE

AA
LL

Southern Rio Resources Ltd. File # A104079
P.O. Box 11584, 1410 - 65, Vancouver BC V6B 4N8 Submitted by: Lindsay R. Bottomer

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag** gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Hg %	Au** gm/mt
SI	<.001	<.001	<.01	<.01	<.3	<.001	<.001	<.01	.01	<.01	<.001	<.001	<.001	<.01	.09	.003	<.001	.01	.01	.40	.01	<.001	<.001	.02
DUKE 101	.001	.606	<.01	<.01	20.6	.001	.001	.02	3.02	<.01	.002	<.001	<.001	<.01	.11	.032	.008	.43	.80	.09	.14	<.001	<.001	.48
DUKE 102	.001	1.364	<.01	<.01	5.9	.001	.001	.02	3.19	<.01	.001	<.001	<.001	<.01	.08	.030	.012	.35	.68	.06	.14	<.001	<.001	.21
DUKE 103	.001	1.084	<.01	<.01	1.7	.001	.001	.01	3.32	<.01	.001	<.001	<.001	<.01	.07	.026	.009	.31	.67	.07	.15	<.001	<.001	.21
RE DUKE 103	.001	1.094	<.01	<.01	1.5	.001	.001	.01	3.35	<.01	.001	<.001	<.001	<.01	.07	.027	.009	.31	.67	.05	.14	<.001	<.001	.21

GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: ROCK R150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 19 2001 DATE REPORT MAILED: *Nov 30/01* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data FA *VLS*