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GEOCHEMICAL REPORT

BRANDY GROUP

92 J/3E

VANCOUVER MINING DIVISION

NORTHAIR MINES LTD.

860-625 Howe Street Vancouver, B.C. V6C-2T6

by

Dave Visagie Senior Geologist Northair Group

January 14, 1998

GEOLOGICAL SURVEY BRANCH ASSESSMENT REPORT

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1.0 INTRODUCTION

On November 22, 1996 a two man crew collected rock chip samples from International Northair's Brandy property, located near Whistler, B.C.. The claims cover the formerly producing Brandywine gold mine. The purpose of the program was to complete assessment work on the claims so as to be able to hold them for another year. Ten rock chip samples were collected and sent for analysis. The cost of the program is calculated to be \$1563.85.

2.0 LOCATION AND ACCESS (Figure 1)

The Brandy property is approximately 100 km north of Vancouver, B.C. It occurs on NTS map sheet 92 J/3 being centred at latitude 50° 07'N, longitude 123° 07'W.

Access to the Brandy property is via Highway 99, to the Callaghan Creek logging road turnoff approximately 100 km north of Vancouver. At approximately 4 km on the Callaghan Creek road a secondary logging road merges that provides access to the property. The abandoned mine site is located at approximately 4 km along this road.

3.0 TOPOGRAPHY AND VEGETATION

The property occurs in the Coast Range of mountains. The area features rounded mountains and deep valleys. It is moderately steep. Local elevations range from 900 to 1200 metres.

Vegetation consists of stands of Douglas fir and red cedar.

4.0 CLAIM STATUS (Figure 2)

The Brandy property consists of 6 mineral claims totaling 11 units. Upon acceptance of this report the expiry date for the claims will be as listed below.

<u>Claim</u>	Record Number	<u>Units</u>	Expiry Date
Clint	342286	6	November 25, 1999
Cody	342287	1	November 25, 1999
Brenda	342288	1	66
Danoha	342289	1	66
Rod	342290	1	66
Kyle	342291	1	56

All the claims occur in the Vancouver Mining Division.

5.0 HISTORY

Anomalous gold-silver values were located in stream sediment samples in 1969 by Dr. M. Warshawski and A. Manifold in 1969. In 1972 Northair Mines Ltd. acquired the property and completed an exploration program that resulted in the outlining of significant gold-silver reserves.

In 1976, Northair opened the Brandywine Mine. The mine operated continuously until 1982 at an operating rate of 300 tons per day. During the seven years of operation, a total of 543,181 tons of ore were mined and processed at an average grade of 0.338 opt gold, 1.84 opt silver, 1.22% lead and 1.77% zinc. The present reserves are estimated to be 51, 968 tons 0.259 opt gold, 0.72 opt silver, 0.37% lead and 1.16 % zinc.



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6.0 **REGIONAL GEOLOGY**

The Brandy claim group occurs in the Callaghan roof pendant. The pendant is one of several northwesterly trending, Cretaceous to Triassic, volcanic and sedimentary roof pendants hosted by the Coast Plutonic Complex. In general these pendants represent the remnants of volcanic and sedimentary island arcs and associated basins. Within these pendants the rocks are usually strongly metamorphosed and characterized by a strong northwesterly trending foliation. Later volcanic activity formed north to northwesterly belts containing local flow and pyroclastic accumulations from basalt through to rhyolite composition

The Coast Plutonic Complex consists of a series of plutons ranging from diorite to quartz diorite to quartz monzonite in composition. The western portion of these intrusions are Cretaceous in age whereas those in the east are Early Tertiary.

7.0 PROPERTY GEOLOGY

Mapping of the Brandy Property has been intermittently completed since been initially located in 1969. The following information is based on data gleaned from existing company reports.

7.1 Lithology

The Brandy claim group occurs within the Callaghan roof pendant. The pendant is composed of Lower Cretaceous Gambier Group rocks. Locally Gambier Group rocks consists of a cyclic sequence of andesite to basaltic volcaniclastic and pyroclastic to coarser debris flow deposits. This sequence of rocks has been subdivided into four assemblages, two of which, the Intermediate and Upper, are present on the Brandy claim group.

The Intermediate Assemblage consists of coarse debris flow volcaniclastics and fine grained volcanic arenites. The Upper Assemblage is composed of primary pyroclastics and secondary volcaniclastic debris. In both units a complex interplay between rock types is demonstrated with units in the Upper Assemblage forming as steeply dipping, northwest trending lenses.

Both the Callaghan roof pendant and Coast Mountain Complex rocks have been intruded by younger diorite and basaltic dykes. A small swarm of narrow, north trending, basaltic dyking occurs along the off-setting fault zone that separates the Maniflod and Warman veins.

7.1 Structure

Faulting and shearing is dominantly north-south with a steep dip. Offset is small and may be in either direction. The largest fault zone occurs between the Warman and Manifold Zones. Within this zone blocks of quartz-carbonate are intermixed with the country rock. Sinistral movement is interpreted to be approximately 60 metres.

7.2 Mineralization

Three mineralized zones, Discovery, Warman and Manifold were previously located and mined by Northair. The zones are tabular in form, strike approximately 040° and have a steep dip. The Warman and Manifold Zones are quartz-calcite veins containing gold and silver values within a sulphide matrix consisting of variable pyrite, sphalerite, galena and chalcopyrite.

Both the Manifold and Warman Zones are 300 metres long with the respective widths being 2 and 2.7 metres. The Manifold Zone has a high Ag:Au ratio with relatively little sulphide content. In comparison the Warman Zone has a much higher gold and base metal and a lower silver content

The Disocvery Zone is 130 metres long with an average width of 5.6 metres. The zone has low gold and silver values however the zinc, lead and silver content is much higher than at the Manifold and Warman Zones.

Elsewhere on the property minor pyrite occurs within small shear zones and narrow quartz veins.

8.0 1996 WORK PROGRAM

The 1997 work program consisted of the taking of eight rock chip samples from various locations on the property. The program was completed on November 22, 1996 by a two man crew consisting of:

Marc Prefontaine	Senior Geologist
Tim Kirby	Geological Technician

9.0 GEOCHEMISTRY (Figure 3)

The sample locations and results are plotted on Figure 3. Appendix 1 is a listing of the sample descriptions while Appendix 2 contains the relevant assay certificates.

9.1 Field Procedure

Grab and measured width rock chip samples were taken from various locations on the property. The samples were collected using a hammer and moyle, identified, described and stored in a plastic bag.

9.2 Assay Procedure

The rock samples were initially sent to Westmin Mines' Premier mine site lab for sample preparation and gold analysis with the pulp being forwarded to Chemex Labs for T24 element LC.P. (Inductively coupled Plasma) analysis. The following is an outline of the procedure used for the preparation ad analysis of the samples.

Sample dried (if necessary), crushed or sieved to pulp size and pulverized to approximately -140 mesh.

For gold analysis a one assay ton sample is preconcentrated by conventional fire assay. The resulting Ag prill is digested in 3 ml of 30% HNO_3 , anything insoluble is dissolved using 3 ml concentrated HCl. The resulting solution is diluted to 10 ml and analyzed by atomic absorption. If the sample assayed >gpt the sample was fire assayed.

For the I.C.P. analysis a prepared sample (0.500 gram) is digested with perchloric, nitric and hydrofluoric acids o dryness. The residue is taken up in a volume of 25 ml of 10% hydrochloric acid and the resulting acid solution is analyzed by inductively coupled plasma-atomic absorption emission spectrometry. Results are corrected for spectral interelement interferences.

9.3 Assay Results

All samples taken from shear zones within the andesitic pyroclastics returned non-anomalous precious and base metal values. Assaying of quartz vein float shows the veins to contain variable precious and base metal content. Maximum sample values are 19.34 gpt Au, 726 gpt Ag, 8.98% Pb, 4.86% Zn and 1.83% Cu. A direct direct correlations between base and precious metals cannot be made.



10.9 SUMMARY AND CONCLUSIONS

The Brandy property, consisting of 6 mineral claims totaling 11 units, covers the formerly producing Brandywine Mine. The property, located 100 km north of Vancouver B.C., is underlain by Lower Cretaceous Callaghan Creek roof pendant rocks consisting of a complex assemblage of volcaniclastics and sediments

On November 22 a two man crew collected ten rock chip samples from various locations on the property. The results show weakly limonitic shear zones to contain no significant base or precious metal values. Samples of quartz vein float, undoubtably from the Brandywine Mine, returned moderate to strongly anomalous precious and base metal values. The results of this and previous sampling program shows anomalous precious and base metal values to be confined to quartz veins.

11.0 RECOMMENDATIONS

It is recommended that systematic prospecting and sampling be completed throughout the property to locate additional zones of significant quartz veining.

12.0 COST STATEMENT

		Total	\$1563,85
	@ 10%		
vii)	Management Fee		<u>\$ 142.17</u>
		Sub Total	\$1421.68
vi)	Report Preparation		<u>\$350.00</u>
	10 samples (prep. gold geochem, I.C.P. analysis and assaying total of all bills	for samples > thre	shold)
v)	Assaying		\$291.68
iv)	Food		\$ 60.00
	plastic bags, field equipment rental etc.		
iii)	Supplies		\$ 20,00
	(includes fuel, vehicle rental, insurance, mileage)		
ii)	Transportation		\$100.00
	M. Prefontaine day @ \$370.00 T. Kirby I day @ \$250.00		
i)	Labour		\$600.00

14.0 STATEMENT OF QUALIFICATIONS

I, David A. Visagie do hereby certify that:

- 1. Egraduated in 1976 from the University of British Columbia with a Bachelor of Science Degree Majoring in Geology.
- 2. Since graduating I have continuosly been employed in the mining industry.
- 3. I am a registered member of the Association of Professional Engineers and Geoscientist of Britis Columbia.
- 4. For the last eight years I have been employed by the Northair Group as a Senior Geologist.

5. J wrote this report based on information supplied to me by the company.

Dave Visagie, P. Geo

Senior Geologist, International Northair Mines

Dated January 14, 1998



WIDTH	Au (gpt)	Ag (gpt)	Cu (ppm)	Pb (ppm)	Zn (ppm)	DESCRIPTION
3 m	0.075	1	34	140	186	N-S Shear Zone, Carb-Ser Alt'd Andesite
2. 3 m	0.05	0.6	30	152	130	As Above
1 m	0.02	<0.02	23	16	52	N-S Fault Zone, Minor Limonite Staining, Andesite
1 m	0.15	<0.02	20	12	82	As Above
5 1 m	<0.005	<0.02	42	4	148	Foliated Andesite
5 Float	<0.005	<0.02	2	4	14	Quartz Vein-Barren
Float	8.76	727	1360	7800	8130	Quartz Vein, Minor Pyrite, 1% Chalcopyrite, 2% Galena
Float	22.9	652	1.83%	8.98%	1.55%	Quartz Vein, 2% Chalcopyrite,15% Galena, 3% Sphalerite, Minor Pyrite
Float	0.88	16.4	5490	1.47%	4.86%	Quartz Vein, 1% Chalcopyrite, Minor Pyrite, 3% Galena, 10% Sphalerite
) Float	2.06	10.8	2580	9700	2.72%	Quartz Vein, 1% Chalcopyrite, 2% Galena, 3% Sphalerite, Minor Pyrite
	WiDTH 3 m 3 1 m 5 1 m 5 Float 7 Float 9 Float 9 Float	WiDTH Au (gpt) 3 m 0.075 3 m 0.075 3 m 0.05 1 m 0.02 1 m 0.15 1 m 0.055 Float <0.005	WiDTH Au (gpt) Ag (gpt) 3 m 0.075 1 3 m 0.05 0.6 1 m 0.05 0.6 1 m 0.02 <0.02	WiDTH Au (gpt) Ag (gpt) Cu (ppm) 3 m 0.075 1 34 3 m 0.05 0.6 30 1 m 0.05 0.6 30 1 m 0.02 203 20 1 m 0.15 <0.02	WiDTH Au (gpt) Ag (gpt) Cu (ppm) Pb (ppm) 3 m 0.075 1 34 140 3 m 0.05 0.6 30 152 1 m 0.05 0.6 30 152 1 m 0.02 <0.02	WiDTH Au (gpt) Ag (gpt) Cu (ppm) Pb (ppm) Zr (ppm) 3 m 0.075 1 34 140 186 3 m 0.05 0.6 30 152 130 1 m 0.02 <0.02



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Chemex Labs Ltd. Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218

To: NORTHAIR MINES LIMITED

860 - 625 HOWE ST. VANCOUVER, B.C. V6C 2T6

Project : BRANDYWINE Comments: ATTN: MARC PREFONTAINE

Page Number 1-A Total Pages 1 Certificate Date27-NOV-97 Invoice No. I-9751348 P.O. Number : Account

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Project : BRANDYWINE Comments: ATTN: MARG PREFONTAINE

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To: NORTHAIR MINES LIMITED

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Project : BRANDYWINE Comments: ATTN: MARC PREFONTAINE Page Number 1 Total Pages 1 Certificate Date01-DEC-97 Invoice No. I-9752100 P.O. Number : Account

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860 - 625 HOWE ST. VANCOUVER, B.C. V6C 2T6

INVOICE NUMBER

I9752100

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			312 - 316 -	Pb Zn	B B	8.00 8.00	16.00	16.00
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	charged on overdue accounts				2	FOTAL PAYABLE	E (CDN) \$	54.57
Please Rer	mit Payments to:							
	CHEMEX LABS LTD. 212 Brooksbank Ave., North Vancouver, B.C. Canada V7J 2C1							
	t a Richard Charles							



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BILLING INFORMATION	# OF SAMPLES	ANZ CODE	ALYSED FOR - DESCRIPTION		UNIT PRICE	SAMPLE PRICE	AMOUNT
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Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts				, ·	TOTAL PAYABLE	(CDN) \$	237.11
Please Remit Payments to:							
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Comments: ATTN: MARC PREFONTAINE

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