

**GEOCHEMICAL REPORT**  
**BRANDYWINE PROPERTY**

**Latitude 50°07'N**  
**Longitude: 123°07'W**  
**NTS: 92J/3E**

**VANCOUVER MINING DIVISION**

**OWNER/OPERATOR:**

**INTERNATIONAL NORTHAIR MINES LTD.**  
**860-625 Howe Street,**  
**Vancouver, B.C.,**  
**V6C-2T6**

**Report By:**

**Dave Visagie, P. Geo.**  
**Exploration Manager**  
**The Northair Group**

**October 17, 2006**

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## 1.0 INTRODUCTION

On July 5 and 6, 2006 the author collected 65 soil samples from International Northair Mines Ltd.'s Brandywine property. The property hosts the formerly producing Brandywine gold-silver-lead-zinc mine. The purpose of the survey was three-fold:

- i. to complete additional soil sampling to the west of the 2003 survey,
- ii. to determine whether some of the soil anomalies previously defined were in situ or transported and
- iii. determine the extent of high grade gold values in the vicinity of the mill site.

The cost of the program is calculated to be \$3,524.00

## 2.0 LOCATION AND ACCESS (Figure 1)

The Brandywine Property is located approximately 100 km north of Vancouver, B.C., being centered at latitude 50°07'N, longitude 123°07'W. It occurs on 1:50,000 NTS Sheet 92 J/3.

Access to the property is via Highway 99 to the Callaghan Creek logging road turnoff located at approximately the 100-km mark. Turning west on to the Callaghan logging road one goes approximately 4 km to the mine access road. The Brandywine mine site is situated 2 km to the north along this road.

## 3.0 TOPOGRAPHY AND VEGETATION

The property occurs within the Coast Range of mountains. The area features rounded mountains and deep valleys. On the property itself topography is relatively moderate. Local elevations range from 900 to 1200 metres.

Extensive clear cutting has occurred throughout the property. Second growth pine and spruce is common. Alder occurs everywhere. Rare stands of primary Douglas Fir and red cedar are also on the property.

## 4.0 CLAIM STATUS (Figure 2)

The Brandywine Property is located in the Vancouver Mining Division. It consist of the following.

Claim	Units	Size	Tenure Number	Due Date
Brandywine	9	225 ha	370791	Aug. 3, 2008*

\* Contingent upon the report being approved.



Figure 1-Brandywine Property Location

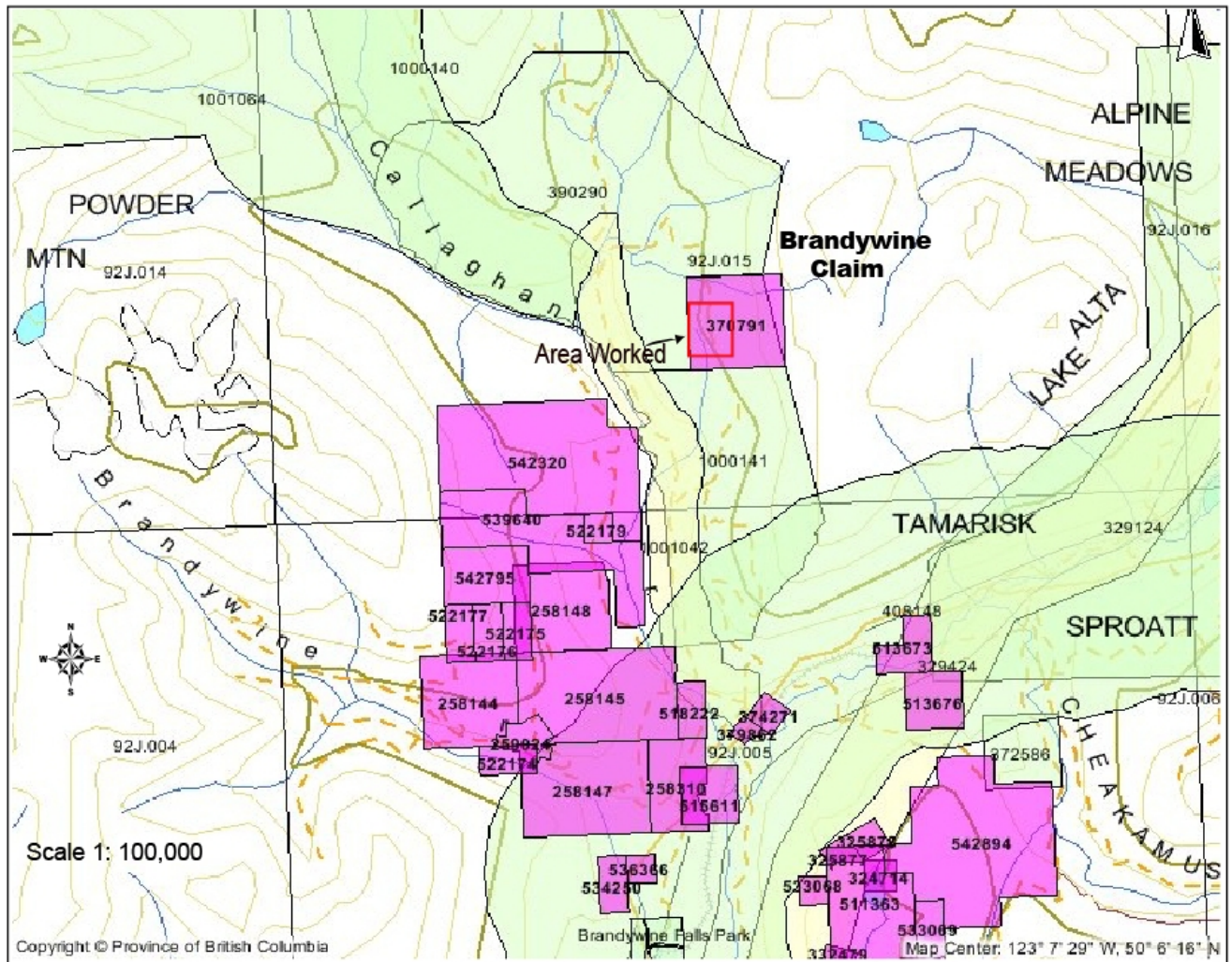


Figure 2: Claim Map-Brandywine Property

## **5.0 PROPERTY HISTORY**

The property's history dates back to 1969 when anomalous gold values were located in stream sediment samples collected by Dr. M. Warshawski and A. Manifold. 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. At closure the reserves were estimated to be 51,968 tons averaging 0.259 opt gold, 0.72 opt silver, 0.37% lead and 1.16% zinc.

Northair has maintained the core of the property since then through the completion of minor exploration programs. In addition the property has been optioned to various companies who through the completion of a variety of exploration programs kept the property in good standing.

## **6.0 REGIONAL GEOLOGY**

The Brandywine property occurs in the Callaghan Roof Pendant. The pendant is one of several, northwesterly trending, Cretaceous to Triassic, volcanic and sedimentary roof pendants hosted within the Coast Plutonic Complex. In general, these pendants represent the remnants of volcanic and sedimentary island arcs and associated basing. 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 ranging from basalt through to rhyolite in 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 is Cretaceous aged while those to the east are early Tertiary.

## **7.0 PROPERTY GEOLOGY**

Mapping of the Brandywine property has been intermittently completed since being located in 1969. The following information is based on data gleaned from assessment and company reports.

### **7.1 Lithology**

The property occurs with the Callaghan Roof Pendant. The Pendant is composed of Lower Cretaceous Gambier Group rocks. Locally, Gambier Group rocks consist of a cyclic sequence of andesitic to basaltic volcanoclastic 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 property.

The Intermediate Assemblage consists of coarse debris flow volcanoclastics and fine-grained volcanic arenites. The Upper Assemblage is composed of primary pyroclastics and secondary volcanoclastic 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.

Younger diorite and basaltic dykes intrude both the Callaghan Roof Pendant and the Coast Mountain Complex rocks. A small swarm of narrow, north trending, basaltic dykes occurs along the offsetting fault zone that separated the Manifold and Warman Veins.

## **7.2 Structure**

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

## **7.3 Mineralization**

Three mineralized zones: Discovery, Warman and Manifold were previously located and mined by Northair. The zones are tabular in form, strike at approximately 130° and have a steep dip. The Warman and Manifold Zones are composed of quartz-carbonate veins containing gold and silver values within a sulphide matrix consisting of various amounts and combinations of pyrite, sphalerite, galena and chalcopyrite.

Both the Manifold and Warman Zones are 300 metres long with respective widths of 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 content with the silver content being lower. The Warman and Manifold Zones are interpreted to have been one ore body that has been offset by faulting.

The Discovery 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.

## **8.0 2006 WORK PROGRAM**

In 2003 Northair personnel completed a soil sample survey that outlined several anomalous sites.

The purpose of the 2006 work program was three-fold:

- i. To complete additional soil sampling to the west of the 2003 survey,

- ii. to determine whether some of the soil anomalies previously defined were in situ or transported and
- iii. to determine the extent of high grade gold values in the vicinity of the mill.

The program resulted in the taking of 65 soil samples. The work was completed on July 5<sup>th</sup> and 6<sup>th</sup> 2006 by the author:

<b>Name</b>	<b>Position</b>	<b>Address</b>
D. Visagie, P. Geo	Exploration Manager-The Northair Group	860-625 Howe Street, Vancouver, B.C. V6C-2T6

## **9.0 GEOCHEMICAL PROCEDURES**

Sampling at the Brandywine property is hampered by contamination resulting from the exploitation of the property.

### **9.1 Field Procedure-Soil Samples**

B-Horizon soil sampling was completed at 25 metre intervals along the eastern bank of the main road that passes between the main portal and mill site. The samples were collected from the B-horizon, generally at a depth of 3-6 inches, using a mattock, identified, stored in kraft sample bags and dried.

The sample descriptions are listed in Appendix 1.

### **9.2 Field Procedure-Soil Profiles**

Soil profiling was completed at selected sites shown in the 2003 survey to host anomalous gold values. Four sites were selected. At the sites the sidewall of the bank was cleared using a mattock and samples collected in the initial 6" then at 6" depths thereafter. The samples were then identified, stored in kraft sample bags and dried. The sample descriptions are located in Appendix 1. The sample descriptions are plotted on Figure 3.

### **9.3 Assay Procedure**

All of the samples were delivered to Acme Analytical Laboratories, 852 East Hastings Street, Vancouver, B.C.

At Acme the samples are dried at 60°C, then sieved (up to ) 100 gm to -80 mesh.

For the ICP analysis, a 15 gram sample is digested with 3 ml of 2:2:2 nitric acid to hydrochloric acid to water at 95° for 1.0 hour after being left in a test tube at room



temperature for a ½ hour. The sample is then diluted to 20 mls with demineralized water and analyzed by ICP-MS (mass spectrometry). The leach is partial for Al, B, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sb, Ti, U and W. The detection limits for Au, Cu, As, Pb, Zn and Ag are respectively 0.5 ppb, 0.1 ppm, 0.5 ppm, 0.1 ppm, 1 ppm and 0.1 ppm.

The sample locations are plotted on Figure 3.

## **10.0 RESULTS**

The results for all of the elements are located in Appendix 2. The gold assay values are plotted on Figure 3. None of the assay values for the other elements were plotted.

### **10.1 Soil Sample Results**

Soil samples collected from the main road show highly anomalous gold to occur between 5+50 and 9+50 W. The values occur in the vicinity of the mine portal possibly reflecting contamination from the operations. Of the eighteen samples collected 9 assayed >1,000 ppb Au with the maximum value being 7724 ppb. In general the highly anomalous gold values are associated with highly anomalous Pb, Zn and Ag values (maximum values >10,000 ppm, >10,000 ppm and 67.9 ppm respectively). Soil samples collected from the millsite area returned highly anomalous gold values. All four samples taken along a 75 metre line assayed >1000 ppb Au to a maximum value of 16,003 ppb Au. The high values probably reflect contamination from the millsite.

### **10.2 Soil Profile Results**

Profiling was completed at four locations. All four profiles showed the values to be relatively constant with depth. As is the case with the soil samples high grade gold values correspond with high base and silver values.

## **11.0 SUMMARY AND CONCLUSIONS**

Two days were spent evaluating the Brandywine Property. The purpose of the evaluation was to:

- i to complete additional soil sampling to the west of the 2003 survey,
- ii to determine whether some of the soil anomalies previously defined were in situ or transported and
- iii to attempt to determine the extent of high grade gold values in the vicinity of the mill site

In order to complete the evaluation, both soil and soil profile sampling were undertaken. The program resulted in 65 samples being taken. It took two man-days to complete.

The soil sample results show widespread, highly anomalous, coincidental gold, silver and base metal values to occur in the vicinity of the mine portal and mill site. The extensive dispersion of the high grade values possibly reflects contamination by haul trucks.

The soil profiling shows no significant increases in precious or base metal content occurs with depth.

It is concluded that in the area is too contaminated for meaningful sampling to be completed.

## **12.0 RECOMMENDATIONS**

No further work is recommended at this time.

## **13.0 STATEMENT OF QUALIFICATIONS**

David A Visagie, B.Sc

**860-625 Howe Street,  
Vancouver, B.C.  
V6C 2T6  
Tel: 604-687-7545  
E-Mail: [visagie@northair.com](mailto:visagie@northair.com)**

I, David A Visagie, do hereby certify that:

I graduated from the University of British Columbia in 1976 with a Bachelor of Science Degree Majoring in Geology.

I have been continuously employed within the mining industry since that time.

I am a member of the Association of Professional Engineers and Geoscientist of B.C. (#19520).

I am currently employed by the Northair Group, which acts as an umbrella group for a group of exploration companies including International Northair Mines Ltd. as Exploration Manager.

Dated this 17<sup>th</sup> day of October, 2006, in Vancouver, B.C.

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Dave Visagie, P. Geo.  
Senior Geologist  
The Northair Group

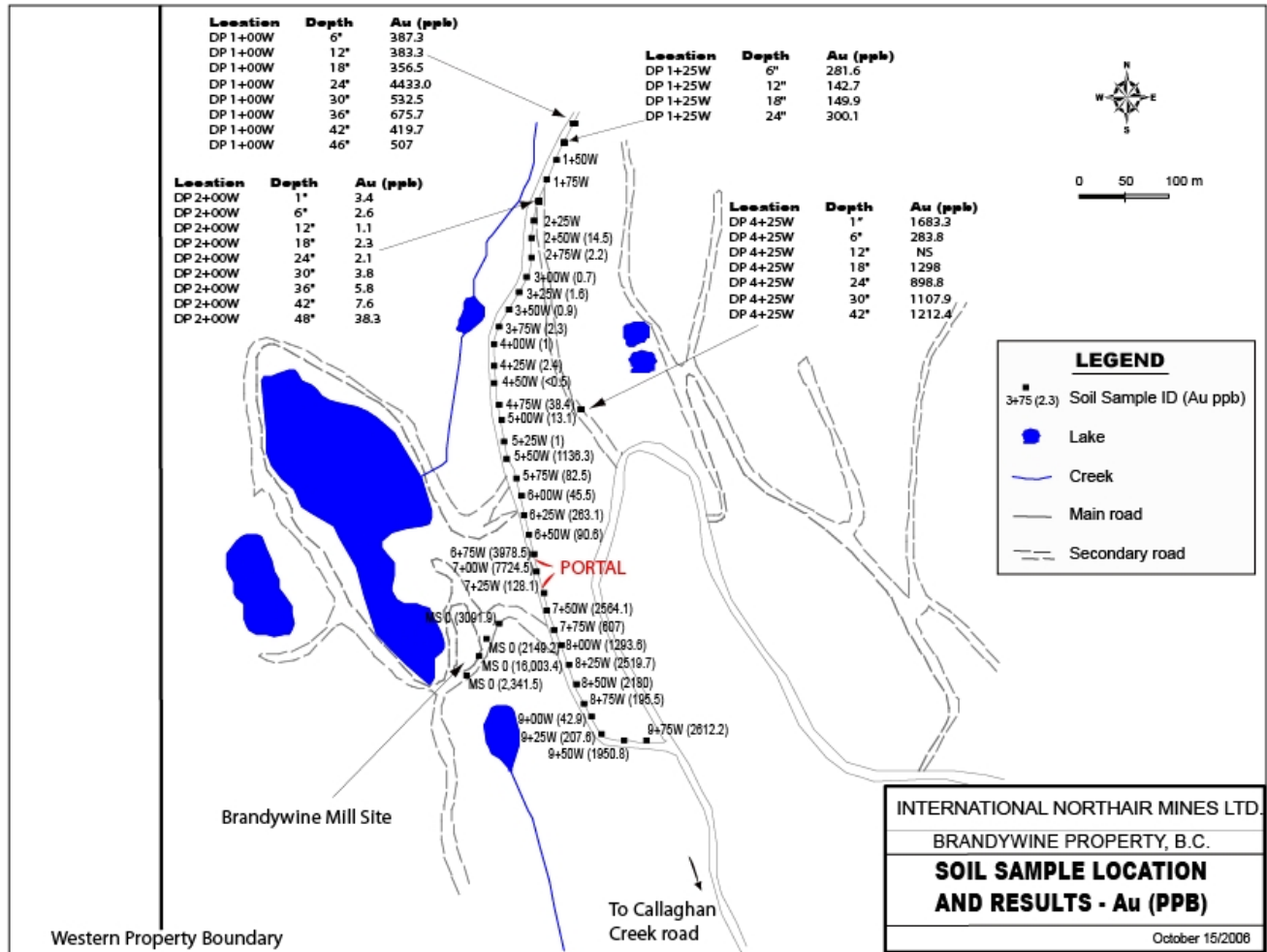


Figure 3

**14.0 COST STATEMENT**

<b>Labour</b>		<b>\$</b>	<b>880.00</b>
D. Visagie	2 man-days @	\$440/manday	
<b>Transportation</b>		<b>\$</b>	<b>200.00</b>
2 days rental, includes gas, insurance and mileage			
<b>Preparation</b>		<b>\$</b>	<b>220.00</b>
0.5 day @ \$440/day			
<b>Assaying</b>		<b>\$</b>	<b>1,154.08*</b>
65 samples Group Prep	\$ 1.75/sample=	\$	113.75
65 samples Group Assay 1DX	\$15.00/sample=	<u>\$</u>	<u>975.00</u>
<ul style="list-style-type: none"> <li>includes GST</li> </ul>			
<b>Room and Board</b>		<b>\$</b>	<b>50.00</b>
<b>Report</b>		<b>\$</b>	<b>700.00</b>
Includes labour, drafting, copying			
	<b>Sub Total</b>	<b>\$</b>	<b>3,204.00</b>
<b>Management</b>		<b>\$</b>	<b><u>320.00</u></b>
10%	<b>Total</b>	<b>\$</b>	<b>3,524.00</b>



**ACME ANALYTICAL LABORATORIES LTD.**

852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

To International Northair Mines

Acme file # A603504 Page 1 Received: JUL 11 2006 \* 69 samples in this disk file.

Analysis: GROUP 1DX - 15.0 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR

DILUTED TO 300 ML, ANALYSED BY ICP-MS.

ELEMENT	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
G-1	0.5	2.5	4	54	<.1	7.7	5.3	628	2.08	<.5	2.1
DP-100W-6	1.8	533.4	3425.3	3209	4.5	26.5	31.5	7631	5.89	2.9	0.2
DP-100W-12	1.9	495.8	3554	2912	4.9	23.8	28.9	7091	5.76	2.9	0.2
DP-100W-18	1.6	437.1	3245.9	2643	4	25.4	27.5	6532	5.7	2.8	0.2
DP-100W-24	2.1	586.9	4319	4248	5.5	24.6	30	7221	5.8	3.3	0.2
DP-100W-30	2.4	651.5	4425.2	3920	7	22.8	28.5	6960	5.99	3.7	0.2
DP-100W-36	2.2	548.1	3826.5	3609	5.2	24.3	30.1	7430	5.79	3.1	0.2
DP-100W-42	2	582.2	4110.1	4205	5.2	24.9	30	7510	5.8	3.3	0.2
DP-100W-48	2	653.6	5645.5	5729	5.7	23.8	29.4	7650	5.79	3.5	0.2
DP125-1	1.4	528.5	3990.4	2633	4.6	23.7	27.4	5777	5.68	2.5	0.2
DP125-6	1.3	537.5	4041.4	2624	4.9	24.3	29.2	5730	5.79	2.8	0.2
DP125-12	1.4	507.1	3787	2668	6	24	25.4	5243	5.74	2.6	0.2
DP125-18	1.5	462.4	3155	2688	4.4	24.2	24	4703	5.61	2.6	0.2
DP125-24	1.4	500.5	3641.8	2851	4.6	24.5	25.3	5099	5.56	2.7	0.2
DP425-1	1.8	300.5	1532	2201	21.9	11.3	20.7	5849	3.52	15.8	0.4
DP425-6	1.9	290	1697.3	2324	26.9	9.9	20.7	6365	3.57	18.2	0.4
DP425-18	1.6	300.6	1559	2006	15.6	11.2	20.8	4971	3.63	12.5	0.5
DP425-24	1.7	315.1	1610.2	2087	6.8	11	21.7	5509	4.09	10.1	0.4
DP425-30	2.6	653.8	5243.3	4665	9.2	11.4	19.1	8158	3.85	12.9	0.5
RE DP425-30	2.6	590.6	5046.5	4512	8.4	11	17.5	7471	3.62	12.3	0.6
DP425-36	2.2	422.5	2589.1	3400	9.5	11.2	21.9	5167	3.95	11.7	0.6
DP425-42	2.2	436.9	2804.7	2917	9.4	12	20.1	5119	3.94	11.7	0.5
DPL425-12	2.2	320.5	1906.8	2536	27.2	10.3	20.6	6842	3.85	18.4	0.4
DPL2-1	0.7	12.7	27.2	41	0.3	2.6	3.9	170	2.06	0.9	0.4
DPL2-3L	0.7	45.6	35.6	119	0.2	4.9	9.8	481	2.83	1.7	0.9
DPL2-6	0.9	17.4	12.9	66	0.2	4	5.5	223	2.82	1.1	0.8
DPL2-12	0.9	21.3	12	59	0.2	4.8	5.9	228	2.7	1.4	1.1
DPL2-18	0.8	26.7	12.4	113	0.2	4.5	7.4	319	2.51	1.4	1.1
DPL2-24	0.8	28.1	18.5	91	0.2	4.4	7.5	321	2.6	1.5	1
DPL2-30	0.6	31.9	15.4	118	0.2	5.5	10.1	416	2.72	1.5	1.1
DPL2-42	0.6	31.4	35.3	88	0.2	4.6	7.8	424	2.86	1.4	0.8
DPL2-48	0.7	40	78.6	131	0.3	4.9	8.6	660	2.57	1.3	0.7
DPL 200	0.8	269.3	1421.4	2149	2.1	7.3	13.2	2513	2.97	2.6	0.4
DPL 250	0.6	33.5	25.7	85	0.3	4.8	7.4	582	2.36	1.4	0.7
DPL 2+75	0.6	33.2	10.6	69	<.1	4.3	5.6	303	2.06	2.4	0.6
STANDARD DS7	20.4	109.7	69.6	408	0.9	55.8	9.6	628	2.38	47.4	4.9
G-1	0.6	2.6	2.8	50	<.1	6.8	4.9	567	1.89	0.5	2.1
DPL 300	0.8	26.2	13.7	62	0.1	5.2	7.4	361	2.72	2	0.7

ELEMENT	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
DPL 3+25	1.2	19.9	14	39	0.1	2.9	4.4	248	2.3	1.8	0.6
DPL 3+50	0.9	24.8	8.3	56	0.2	5.5	8.8	309	2.33	11	0.6
DPL 3+75	1	37.4	9.8	61	<.1	4.7	9.6	416	2.52	3.2	0.6
DPL 4+00	1	40.6	12.6	76	0.2	6.1	10.2	413	2.6	2.8	0.5
DPL 4+25	1	30.5	15	68	0.2	4.4	8.2	343	2.69	3.2	0.8
DPL 4+50	0.5	8.4	6.4	63	0.1	5.2	16.3	426	2.96	1.9	0.5
DPL 4+75	0.5	14.5	52.1	177	0.4	10.8	30.5	944	5.18	1.5	1
DPL 5+00	0.7	36	19.2	81	0.2	6	11.3	510	3.13	2	0.3
DPL 5+25	0.5	19.6	10.4	120	0.2	6.4	13.4	1002	3.26	1.5	0.4
DPL 5+50	1	345.4	1871.3	2645	7.5	8.3	15.4	3316	2.94	7.1	0.3
DPL 5+75	0.6	78	273.3	445	1.5	11.3	18.4	1541	3.4	4.1	1
DPL 6+00	0.2	58.1	128	235	0.7	27.6	28.9	1509	3.73	7.4	0.2
DPL 6+25	0.4	314.1	4066.2	2263	2.9	13.8	20.1	1719	3.47	4.2	0.4
DPL 6+50	0.8	43.6	44.6	87	0.4	5.3	9.3	532	2.79	2.4	0.6
DPL 6+75	3	251.1	1315.4	2270	31.2	8.9	18	8941	4.03	13.7	0.3
DPL 700	6.9	1280.5	>10000	>10000	69.7	9.8	16.8	10160	3.8	29.9	0.5
DPL 725	0.7	52	105.5	160	0.9	5.8	11.4	656	2.59	3.1	0.6
DPL 750	2.4	348.2	2300.8	4998	14	12.8	17.9	6685	3.76	13	1.3
DPL 775	2.2	158.7	500.9	1041	4.2	6.2	10.4	1058	2.33	5.6	0.8
DPL 800	1.4	167.5	1059.1	1309	2.9	4.5	9.2	2206	2.85	9.4	0.7
DPL 825	2.6	381.4	2627.2	4453	18.1	8	16.6	9661	3.86	17.9	0.3
DPL 850	1.9	188.4	1340.3	1475	10.6	8.2	13.3	2517	3.34	9.1	0.6
DPL 875	2.7	68	275.5	490	2.4	5.1	10.7	954	3.85	6.9	0.5
DPL 900	0.7	27.3	70.3	123	0.9	4	5.8	435	1.74	1.3	0.4
DPL 925	1	82.4	149.3	280	2.8	41.9	18.6	1076	2.8	2.9	0.6
DPL 950	2.1	387.9	2135.4	3014	25.5	9.2	15.6	4594	3.48	7.4	0.4
DPL 975	2	488.9	2038.6	3991	35.6	6	9.3	10507	2.59	17	0.4
MS 75W	1.5	364.5	1756.1	2885	9.9	12.2	24.2	1459	3.55	5.4	0.3
MS 50W	7.8	1454.1	9025.5	>10000	51.9	27.5	20	3471	3.63	19.9	0.4
RE MS 50W	7.5	1434.9	9024.6	>10000	51.9	26.3	19.3	3415	3.62	19.3	0.4
MS 25W	2.1	325.7	1492.7	3496	9.3	5.8	12.2	3036	2.67	6.5	0.3
MS 0W	2	410.3	2211.7	3429	11.7	12.7	25	4741	4.68	8.2	1.3
STANDARD DS7	21.2	111.6	70.8	414	0.9	56.1	9.7	639	2.41	49.4	5

ELEMENT	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba
SAMPLES	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm
G-1	<.5	4.1	52	<.1	<.1	0.1	41	0.48	0.094	6	65	0.7	218
DP-100W-6	387.3	0.6	18	18.2	0.6	0.4	100	0.42	0.098	4	89	2.66	132
DP-100W-12	383.7	0.6	17	16.5	0.7	0.4	95	0.42	0.096	3	88	2.64	122
DP-100W-18	356.5	0.6	18	12.9	0.6	0.4	99	0.42	0.096	3	93	2.83	121
DP-100W-24	4433	0.6	18	23.1	0.7	0.4	94	0.42	0.102	4	82	2.68	118
DP-100W-30	532.5	0.6	19	24.7	0.8	0.4	90	0.4	0.104	4	79	2.51	124
DP-100W-36	675.7	0.6	18	22.3	0.6	0.6	94	0.45	0.102	4	81	2.65	122
DP-100W-42	419.7	0.6	17	23.6	0.7	0.4	95	0.43	0.1	4	81	2.63	125
DP-100W-48	507	0.6	17	29.3	0.9	0.5	92	0.45	0.101	4	80	2.61	121

ELEMENT	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba
SAMPLES	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm
DP125-1	124.9	0.5	21	8.4	0.6	0.6	98	0.4	0.093	3	71	2.76	121
DP125-6	281.6	0.6	21	8.6	0.6	0.5	98	0.41	0.098	3	71	2.82	123
DP125-12	142.7	0.5	20	8.6	0.7	0.7	98	0.39	0.094	3	70	2.71	117
DP125-18	149.9	0.6	18	7.7	0.6	0.5	95	0.42	0.097	3	81	2.57	106
DP125-24	300.1	0.6	18	9.3	0.6	0.5	91	0.4	0.098	3	76	2.6	111
DP425-1	1683.3	1	44	11.7	0.5	0.1	52	1.16	0.102	8	10	1.06	62
DP425-6	2483.8	1	25	13.4	0.6	0.1	50	0.52	0.103	8	10	1.03	61
DP425-18	1298	1.1	33	12.4	0.6	0.1	51	0.99	0.102	8	10	1.15	61
DP425-24	898.8	1.1	51	11.4	0.5	0.1	54	1.94	0.096	8	11	1.26	56
DP425-30	1107.9	1.1	135	28.6	1.1	0.1	42	6.03	0.078	9	13	1.06	51
RE DP425-30	1871.6	1	131	26.7	1	0.1	41	5.79	0.077	9	13	1.01	49
DP425-36	1212.4	1.2	51	20.8	0.6	0.1	53	2.05	0.091	8	11	1.13	59
DP425-42	1293.6	1.1	60	16.5	0.6	0.1	52	2.47	0.094	8	12	1.16	62
DPL425-12	2004.6	1	36	14.9	0.7	0.1	54	0.89	0.105	8	10	1.11	66
DPL2-1	3.4	1	15	0.3	0.1	0.2	68	0.17	0.028	3	7	0.19	27
DPL2-3L	5.8	1.3	21	0.3	0.1	0.1	61	0.29	0.075	6	11	0.72	30
DPL2-6	2.6	1.2	15	0.4	0.1	0.1	54	0.2	0.044	4	10	0.41	26
DPL2-12	1.1	1.5	17	0.2	0.1	0.1	51	0.2	0.061	5	11	0.43	28
DPL2-18	2.3	1.1	19	0.2	0.1	0.1	46	0.22	0.068	7	10	0.56	27
DPL2-24	2.1	1.3	20	0.2	0.1	0.1	53	0.26	0.072	6	10	0.53	29
DPL2-30	3.8	1.2	22	0.2	0.1	0.1	58	0.31	0.085	7	10	0.77	29
DPL2-42	7.6	1.3	20	0.3	0.1	0.1	56	0.29	0.061	6	10	0.61	32
DPL2-48	38.6	1.2	20	0.4	0.1	0.1	57	0.28	0.062	5	9	0.58	37
DPL 200	172.1	2	38	14.8	0.3	0.2	58	0.74	0.086	6	11	1.06	64
DPL 250	14.5	1.3	21	0.3	0.1	0.1	47	0.31	0.065	5	8	0.63	40
DPL 2+75	2.2	2.1	17	0.2	0.1	0.1	44	0.23	0.088	5	9	0.5	36
STANDARD DS7	70.2	4.3	66	6.3	5.8	4.4	84	0.92	0.078	10	163	1.05	368
G-1	<.5	4	51	<.1	<.1	0.1	35	0.48	0.089	7	57	0.64	215
DPL 300	0.7	2	15	0.1	0.1	0.2	51	0.15	0.081	4	9	0.7	37
DPL 3+25	1.6	1.6	11	0.2	0.1	0.1	45	0.09	0.086	4	8	0.37	25
DPL 3+50	0.9	1.1	15	0.1	0.1	0.1	35	0.14	0.058	5	7	0.78	31
DPL 3+75	7.3	1.6	20	0.1	0.1	0.2	51	0.25	0.066	5	8	0.72	35
DPL 4+00	1	1.4	16	0.1	<.1	0.2	46	0.2	0.073	5	9	0.96	35
DPL 4+25	2.4	2	14	0.2	0.1	0.1	53	0.14	0.069	5	9	0.58	32
DPL 4+50	<.5	0.6	19	0.1	0.1	0.1	53	0.21	0.046	6	8	0.7	52
DPL 4+75	38.4	0.5	31	0.4	0.1	<.1	99	0.61	0.065	6	14	2.03	95
DPL 5+00	13.1	0.9	29	0.2	0.1	0.1	66	0.32	0.071	4	9	1.25	63
DPL 5+25	1	0.8	20	0.1	0.1	0.1	50	0.27	0.114	3	9	1.22	53
DPL 5+50	1136.3	0.9	44	20.8	0.5	0.1	46	1.72	0.084	5	15	1.13	39
DPL 5+75	82.5	2	37	2.4	0.1	0.1	64	0.57	0.101	7	19	1.39	82
DPL 6+00	45.5	0.6	27	1.1	0.3	<.1	101	0.49	0.101	3	88	2.61	42
DPL 6+25	263.1	1	22	10.8	0.5	0.1	77	0.45	0.1	5	36	2	44
DPL 6+50	10.6	1.5	15	0.3	0.1	0.1	55	0.19	0.117	4	11	0.73	39
DPL 6+75	3978.5	0.8	51	12.7	0.4	0.1	49	2.16	0.076	8	9	1.12	56
DPL 700	7724.5	0.8	110	74.8	2.2	0.2	42	6.13	0.065	10	13	0.97	53
DPL 725	128.1	1.3	21	0.7	0.3	0.1	50	0.35	0.109	6	11	0.84	32



ELEMENT	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba
SAMPLES	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm
DPL 750	2564.1	0.9	26	22.6	0.7	0.1	51	0.49	0.099	6	11	1.07	55
DPL 775	607.1	1.2	23	5.5	0.4	0.1	43	0.34	0.064	6	9	0.72	45
DPL 800	1293.6	1.4	29	8.1	0.3	0.1	53	0.8	0.047	7	9	0.61	32
DPL 825	2519.7	0.7	45	29.7	0.8	0.1	39	1.77	0.068	7	8	0.89	48
DPL 850	2180	1.2	24	7.6	0.5	0.1	54	0.36	0.068	6	11	0.99	46
DPL 875	195.5	1	16	2.4	0.3	0.2	86	0.19	0.056	3	10	0.55	31
DPL 900	42.9	0.6	27	0.4	0.1	0.1	34	0.37	0.064	4	7	0.51	32
DPL 925	207.6	0.4	37	1.7	0.2	0.1	52	0.67	0.114	7	20	1.1	78
DPL 950	1950.8	1.1	32	19.4	0.9	0.2	60	0.72	0.084	6	11	1.29	56
DPL 975	2612.2	0.7	133	26.3	0.7	0.1	31	7.21	0.048	7	6	0.7	38
MS 75W	2341.5	1.2	23	15	0.7	0.1	78	0.42	0.105	5	23	2.15	96
MS 50W	16003.4	1.1	51	94.6	3	0.3	50	2.08	0.079	5	19	1.17	57
RE MS 50W	14115.5	1.2	52	98.2	3.2	0.3	49	2.07	0.081	6	18	1.16	57
MS 25W	2149.2	0.9	42	22.9	0.7	0.1	37	1.71	0.07	4	8	0.74	34
MS 0W	3091.9	1.1	30	22.9	0.4	0.2	71	0.64	0.092	6	15	1.65	93
STANDARD DS7	71.4	4.5	70	6.4	6	4.6	87	0.95	0.08	12	165	1.06	380

ELEMENT	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
SAMPLES	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
G-1	0.135	1	1.04	0.056	0.58	0.1	<.01	2.1	0.4	<.05	5	<.5
DP-100W-6	0.235	<1	2.96	0.005	1.16	0.3	0.09	4.8	1	0.21	7	0.6
DP-100W-12	0.225	<1	2.98	0.006	1.07	0.3	0.1	4.3	1	0.23	7	0.6
DP-100W-18	0.242	<1	3.11	0.006	1.13	0.2	0.08	4.5	0.9	0.19	7	0.5
DP-100W-24	0.235	1	2.98	0.006	1.1	0.2	0.09	4.4	1.1	0.2	7	0.8
DP-100W-30	0.226	<1	2.84	0.006	1.1	0.3	0.1	4.7	1	0.27	7	0.7
DP-100W-36	0.231	<1	2.99	0.005	1.15	0.2	0.09	4.7	1	0.19	7	0.5
DP-100W-42	0.241	<1	2.88	0.006	1.13	0.3	0.09	4.8	1	0.16	7	0.6
DP-100W-48	0.233	<1	2.92	0.007	1.14	0.2	0.09	4.7	1	0.21	7	0.6
DP125-1	0.261	<1	3.07	0.007	1.27	0.1	0.07	4.8	1	0.2	7	0.7
DP125-6	0.262	<1	3.18	0.007	1.32	0.1	0.07	4.8	1	0.21	7	0.6
DP125-12	0.25	<1	3.07	0.007	1.25	0.1	0.08	4.6	0.9	0.27	7	0.6
DP125-18	0.258	<1	3.02	0.005	1.11	0.2	0.07	4.3	0.8	0.17	7	<.5
DP125-24	0.254	<1	3.08	0.005	1.1	0.1	0.07	4.6	0.8	0.21	7	0.5
DP425-1	0.107	1	1.8	0.009	0.3	0.2	0.08	2.9	0.6	0.15	5	0.6
DP425-6	0.1	<1	1.69	0.009	0.29	0.3	0.09	2.8	0.5	0.13	4	0.6
DP425-18	0.108	1	1.91	0.01	0.3	0.2	0.08	2.8	0.6	0.26	5	0.7
DP425-24	0.119	1	2	0.01	0.31	0.1	0.07	3.2	0.6	0.9	5	0.5
DP425-30	0.1	<1	1.46	0.008	0.35	0.1	0.08	3	0.6	1.19	4	0.8
RE DP425-30	0.095	<1	1.45	0.007	0.33	0.1	0.08	2.9	0.6	1.15	3	<.5
DP425-36	0.113	1	1.95	0.008	0.33	0.2	0.09	3.1	0.6	0.55	5	0.8
DP425-42	0.115	<1	1.89	0.009	0.33	0.1	0.07	3.1	0.6	0.67	5	0.7
DPL425-12	0.116	1	1.82	0.011	0.31	0.3	0.07	3.1	0.6	0.3	5	0.5
DPL2-1	0.164	<1	1.66	0.009	0.04	0.1	0.08	1.5	0.1	<.05	8	<.5
DPL2-3L	0.109	<1	2.27	0.009	0.09	0.1	0.06	2.1	0.1	<.05	6	<.5
DPL2-6	0.122	<1	2.64	0.009	0.04	0.1	0.1	2	0.1	<.05	7	0.7
DPL2-12	0.109	<1	2.93	0.011	0.05	0.1	0.09	2.4	0.1	<.05	7	0.8

ELEMENT	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
SAMPLES	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
DPL2-18	0.084	<1	2.59	0.012	0.05	0.1	0.09	2	0.1	<.05	6	0.8
DPL2-24	0.096	<1	2.61	0.01	0.06	0.1	0.08	2.2	0.1	<.05	6	0.8
DPL2-30	0.104	<1	2.47	0.011	0.07	0.1	0.07	2.2	0.1	<.05	6	<.5
DPL2-42	0.124	<1	2.46	0.01	0.08	0.1	0.07	2	0.1	<.05	7	0.5
DPL2-48	0.114	<1	2.09	0.01	0.13	0.1	0.08	1.8	0.1	<.05	6	<.5
DPL 200	0.112	<1	1.74	0.02	0.31	0.1	0.03	2.5	0.4	0.18	4	<.5
DPL 250	0.083	1	2.09	0.01	0.1	0.1	0.07	1.7	0.1	<.05	5	<.5
DPL 2+75	0.081	<1	2.27	0.01	0.08	0.1	0.04	1.9	0.1	<.05	4	0.5
STANDARD DS7	0.12	39	0.94	0.072	0.44	3.9	0.2	2.3	4.2	0.2	5	3.8
G-1	0.122	<1	0.98	0.06	0.54	0.1	<.01	2.3	0.4	0.07	5	<.5
DPL 300	0.11	<1	4.26	0.01	0.08	0.1	0.14	2.8	0.1	0.09	6	0.7
DPL 3+25	0.074	1	3.25	0.006	0.03	0.2	0.12	1.7	<.1	<.05	6	0.6
DPL 3+50	0.029	1	2.41	0.007	0.04	0.1	0.05	2.5	0.1	<.05	4	0.6
DPL 3+75	0.085	<1	1.95	0.01	0.09	0.1	0.03	1.9	0.1	<.05	4	<.5
DPL 4+00	0.079	1	3.09	0.009	0.09	0.1	0.07	1.9	0.1	0.08	5	0.6
DPL 4+25	0.097	<1	3.1	0.009	0.06	0.3	0.09	2.3	0.1	<.05	6	0.6
DPL 4+50	0.092	1	1.93	0.011	0.04	0.1	0.05	1.5	0.1	<.05	7	0.5
DPL 4+75	0.223	<1	2.66	0.006	0.19	1	0.06	1.6	0.3	0.09	8	0.5
DPL 5+00	0.172	1	2.18	0.007	0.22	0.2	0.05	2.3	0.2	<.05	6	<.5
DPL 5+25	0.1	<1	2.58	0.008	0.07	0.1	0.06	1.4	0.1	0.06	8	<.5
DPL 5+50	0.088	1	1.22	0.009	0.19	0.6	0.06	2.2	0.3	0.47	4	<.5
DPL 5+75	0.106	<1	1.82	0.022	0.18	0.5	0.03	3.1	0.2	0.1	5	<.5
DPL 6+00	0.132	2	2.5	0.007	0.14	1.4	0.02	7.3	0.2	0.07	6	<.5
DPL 6+25	0.092	<1	2.38	0.006	0.2	1.8	0.05	4.5	0.2	0.19	7	<.5
DPL 6+50	0.095	<1	2.93	0.007	0.11	2.4	0.1	2	0.1	<.05	6	0.7
DPL 6+75	0.095	2	1.48	0.009	0.3	2.6	0.15	2.4	0.7	0.72	5	<.5
DPL 700	0.074	1	0.99	0.009	0.43	13.8	0.34	2.6	0.7	1.81	4	0.8
DPL 725	0.081	<1	2.66	0.008	0.08	3.6	0.08	2.3	0.2	<.05	5	0.5
DPL 750	0.1	1	1.69	0.01	0.19	4.3	0.33	2.2	0.4	0.25	5	0.5
DPL 775	0.081	1	1.69	0.009	0.11	0.4	0.1	1.8	0.1	<.05	4	<.5
DPL 800	0.107	2	2.43	0.009	0.12	0.4	0.12	2.5	0.2	0.2	6	0.6
DPL 825	0.086	1	0.96	0.009	0.28	1.8	0.18	2.3	0.6	1	3	<.5
DPL 850	0.091	1	1.95	0.011	0.16	1.1	0.29	2.2	0.3	0.11	6	<.5
DPL 875	0.193	1	2.53	0.006	0.06	1.3	0.21	1.8	0.1	<.05	12	<.5
DPL 900	0.072	<1	1.46	0.008	0.06	0.2	0.07	1.3	0.1	<.05	5	<.5
DPL 925	0.073	1	1.59	0.024	0.09	0.1	0.04	1.8	0.1	0.07	4	0.6
DPL 950	0.128	2	2.01	0.009	0.35	0.5	0.31	2.8	0.6	0.26	6	<.5
DPL 975	0.055	1	0.7	0.011	0.33	0.3	0.19	2	0.4	0.93	3	<.5
MS 75W	0.136	1	2.4	0.009	0.43	0.3	1.09	2.8	0.2	0.27	5	<.5
MS 50W	0.095	3	1.34	0.025	0.27	0.9	4.51	2.1	0.3	1.41	4	<.5
RE MS 50W	0.095	3	1.34	0.025	0.29	0.9	4.6	2	0.3	1.38	4	<.5
MS 25W	0.066	2	0.85	0.011	0.2	0.3	1.22	1.4	0.3	0.7	2	<.5
MS 0W	0.138	1	1.9	0.015	0.44	0.1	0.24	2.6	0.5	0.5	5	<.5
STANDARD DS7	0.124	40	0.97	0.076	0.45	4	0.21	2.5	4.3	0.21	5	3.5