

**ASSESSMENT REPORT**  
**On the**  
**APEX 1-39 CLAIMS (YC47182-YC47220)**  
**WOLVERINE CREEK AREA, YUKON**

**Whitehorse Mining District, Yukon**

**Work Completed June 13-28, 2007**

**Location:** 1. 6 km N of Minto Deposit, Yukon  
2. NTS Map Area 115 I-11  
3. Latitude: 62° 40'N  
Longitude: 137° 20'W

**For:** BCGOLD CORP  
Suite 1400, 625 Howe Street  
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**By:** R. Allan Doherty, P.Geo.  
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**December 27, 2007**

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## **1.0 SUMMARY**

The APEX property, comprised of 39 claims, in two groups of 27 and 12 claims located approximately 6 km north of the Minto copper–gold deposits in the Whitehorse Mining District of central Yukon. The claims were originally staked by Shawn Ryan of Dawson City, Yukon and are currently optioned to BCGOLD Corporation. The history of exploration in the area stretches back to the turn of the century when copper mineralization was first discovered at Williams Creek some 40 km south of the Minto copper-gold deposit. Foliated and non-foliated granitic rocks of the Early Jurassic Aishihik Suite underlie most of the property although rock exposures are poor comprising less than 10% of the area. Work completed in 2007 included MMI (Mobile Metal Ion) soil sampling, mapping, prospecting and rock sampling.

## **2.0 INTRODUCTION AND TERMS OF REFERENCE**

The APEX Claim group is owned 100 % by Shawn Ryan of Dawson City Yukon subject to an option agreement with BCGOLD CORP whereby BCGOLD can earn a 100% interest in the APEX Claims as part of a larger 710 claim group located in the Carmacks copper-gold belt which hosts the Minto and Williams Creek deposits.

The purpose of this report is to summarize the work completed between June 13-28<sup>th</sup> on the APEX 1-39 claims to comply with reporting requirements under the Yukon Quartz Mining Act.

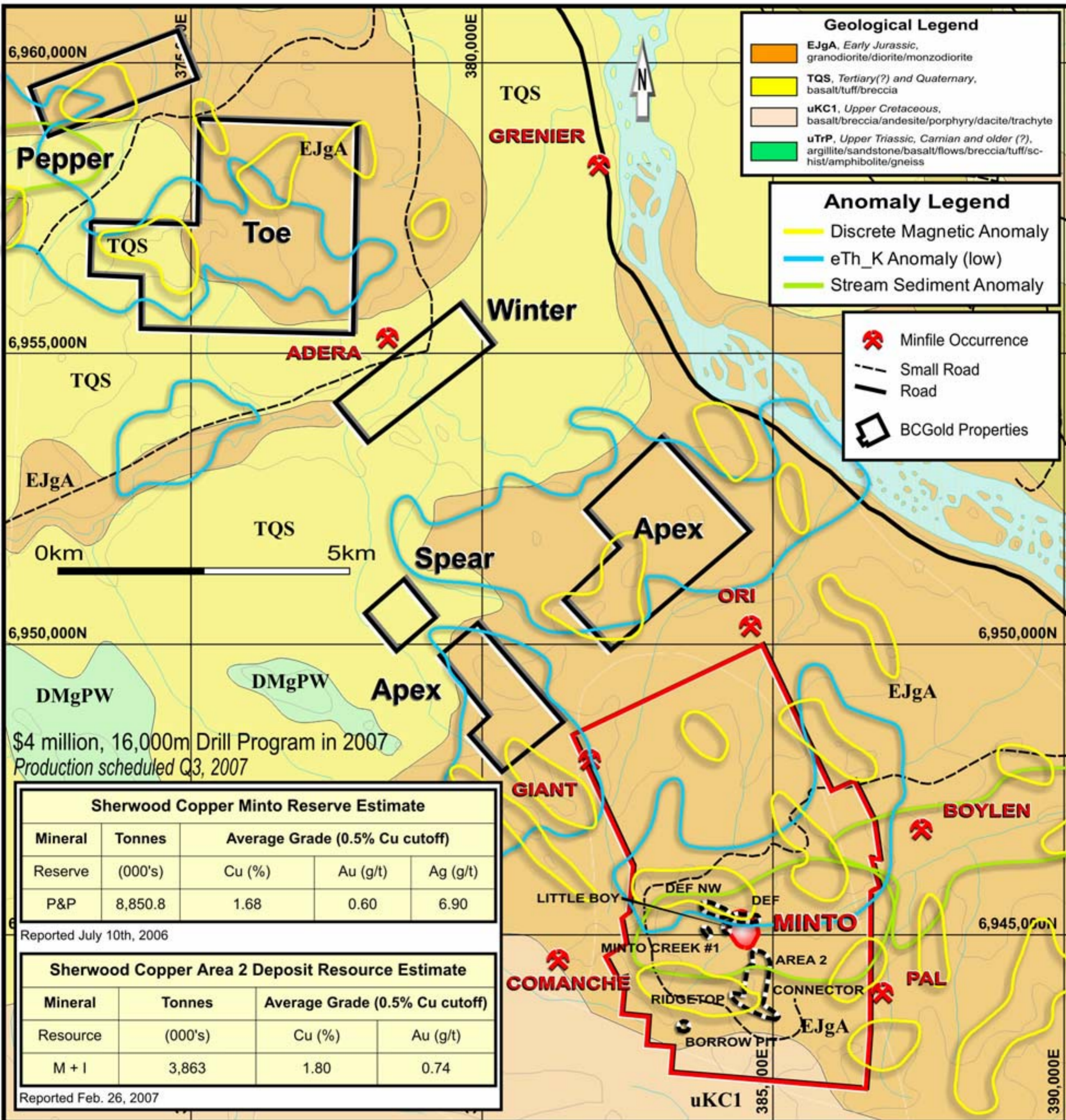
## **3.0 RELIANCE ON OTHER EXPERTS**

This report is based upon the results of fieldwork partially supervised by the author, publicly-available assessment reports, and certain private reports prepared for and provided by BCGOLD CORP. There is no reason to believe that any of this information is incorrect.

The author has relied on information provided by the Yukon Mining Recorder to describe the mineral tenure status of the property and believes, to the best of his knowledge, that this information is correct.

## **4.0 PROPERTY DESCRIPTION AND LOCATION**

The APEX mineral claims are located 6 kilometres north of the Minto Copper Gold deposits, in the central Yukon (Fig. 1). The property falls within the Whitehorse Mining District on NTS map sheets 115I/11 and is centred at 62° 40' north latitude and 137° 20' west longitude. The claims cover favourable geology and regional airborne magnetic anomalies and Regional Stream Sediment anomalies that are prospective for Minto style copper-gold mineralization. The mineral claims are registered to Shawn Ryan of Dawson City, Yukon and are under an option agreement to BCGOLD CORP.



### Geological Legend

- EJgA, Early Jurassic, granodiorite/diorite/monzodiorite
- TQS, Tertiary(?) and Quaternary, basalt/tuff/breccia
- uKC1, Upper Cretaceous, basalt/breccia/andesite/porphyry/dacite/trachyte
- uTrP, Upper Triassic, Carnian and older (?), argillite/sandstone/basalt/flows/breccia/tuff/schist/amphibolite/gneiss

### Anomaly Legend

- Discrete Magnetic Anomaly
- eTh\_K Anomaly (low)
- Stream Sediment Anomaly

- Minfile Occurrence
- Small Road
- Road
- BCGold Properties

0km  5km

\$4 million, 16,000m Drill Program in 2007  
Production scheduled Q3, 2007

Sherwood Copper Minto Reserve Estimate				
Mineral	Tonnes	Average Grade (0.5% Cu cutoff)		
Reserve	(000's)	Cu (%)	Au (g/t)	Ag (g/t)
P&P	8,850.8	1.68	0.60	6.90

Reported July 10th, 2006

Sherwood Copper Area 2 Deposit Resource Estimate			
Mineral	Tonnes	Average Grade (0.5% Cu cutoff)	
Resource	(000's)	Cu (%)	Au (g/t)
M + I	3,863	1.80	0.74

Reported Feb. 26, 2007

**TABLE 1 - CLAIM DATA**

Claim Name	Grant Number	No. Of Claims	Expiry Date
APEX 1-39	YC47182-YC47220	39	June 29, 2009*

Subject to acceptance of this assessment report

In accordance with the Yukon Quartz Mining Act, yearly extensions to the expiry dates of quartz claims are dependent upon conducting \$100 of work per claim or paying the equivalent cash in lieu of work. Work must be filed in the year the work was completed. Excess work can be used to extend expiry dates up to maximum of four years. Assessment costs can be applied to adjoining claims through filing grouping certificates. Filing a statement of work and costs and submission of an assessment report to the Whitehorse Mining Recorder verifying completion of the work, are also required no later than six months after the anniversary date of the claim.

The claims are located within the Traditional Territory of the Selkirk First Nation, which has a land claim settlement Agreement under the Yukon Umbrella Final Agreement.

## **5.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY**

Access to the property is by helicopter from Carmacks. Low precipitation and a wide temperature range characterize the climate. Winters are cold, and temperatures of -30° C to -40° C are common. Summers are moderately cool to hot, with daily highs of 15° C to 30° C. The Town of Carmacks or Pelly Crossing are the closest centre for obtaining groceries, fuel, accommodation and some limited rental and contracted exploration services. Trans North Helicopters maintains a summer helicopter base at Carmacks

## **6.0 HISTORY**

The area covered by the APEX 1-39 claims may have seen some prior reconnaissance exploration work as part of the property work around the Minto deposit but no reference to prior work has been located.

## **7.0 GEOLOGICAL SETTING**

### **7.1 Regional Geology**

The Apex claims are located approximately 6 kilometers north of the Minto copper-gold deposits. This area of the Yukon is bounded by the Stikinia Terrane rocks to the east, Yukon Tanana Terrane rocks to the north and the Coast Plutonic Complex rocks to the west. The Minto and Williams Creek copper-gold deposits are hosted within foliated biotite rich granodiorite and granitic rocks of the early Jurassic Aishihik Suite.

### **7.2 Property Geology**

The APEX 1-39 claims are located north of the Def fault that truncates the northern portion of the Minto deposit. Rocks underlying the property are primarily foliated to non-foliated hornblende-biotite granodiorite with aplite dykes. Traces of malachite were noted in a few locations. Magnetite and 1-2% epidote were noted in a number of locations. To the north and northwest the Aishihik Suite intrusive rocks are overlain by Tertiary (?) and Quaternary Selkirk Volcanics primarily basalt flows.

## **8.0 EXPLORATION PROGRAMS**

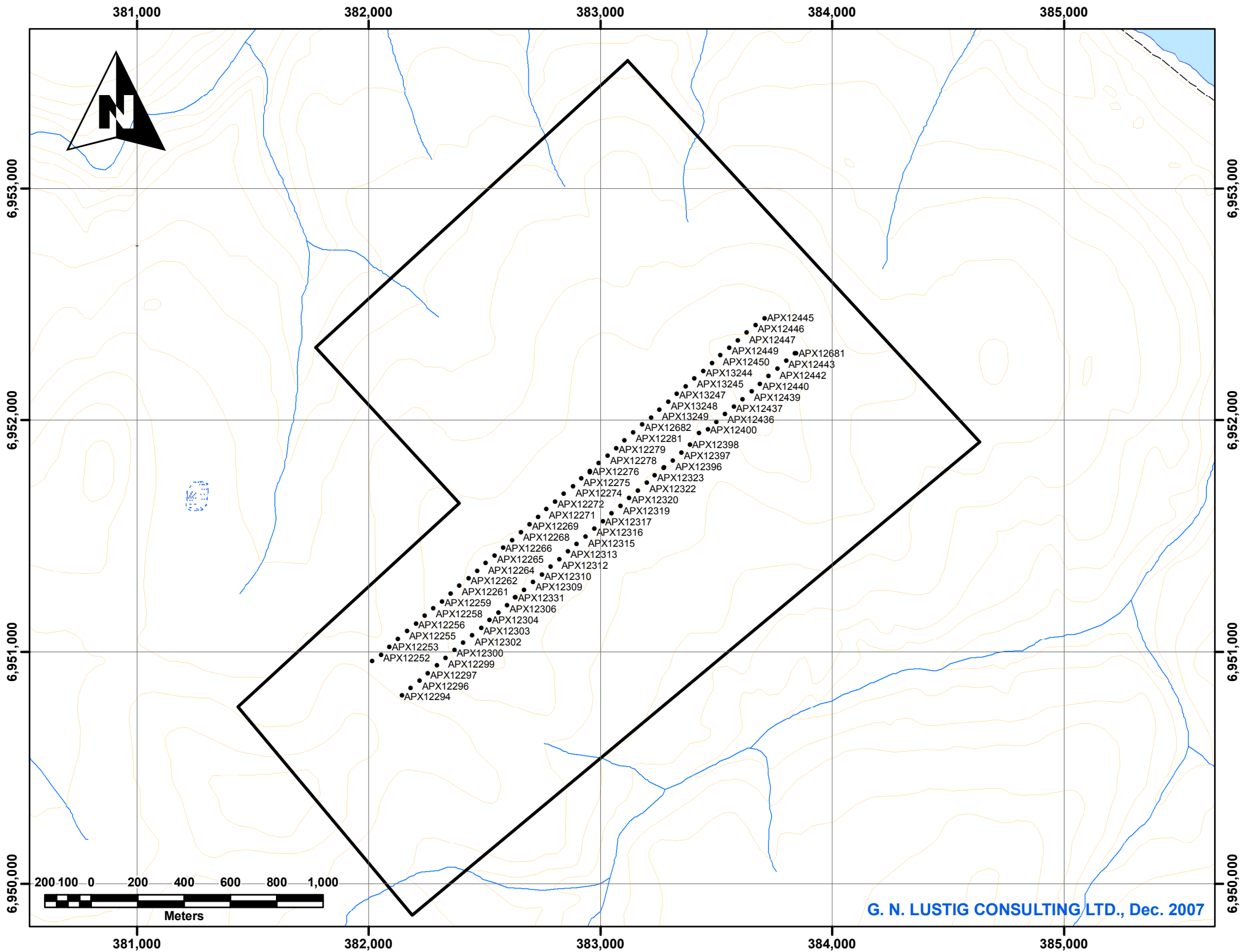
### **8.1 Mobile Metal Ion (MMI) Soil sampling**

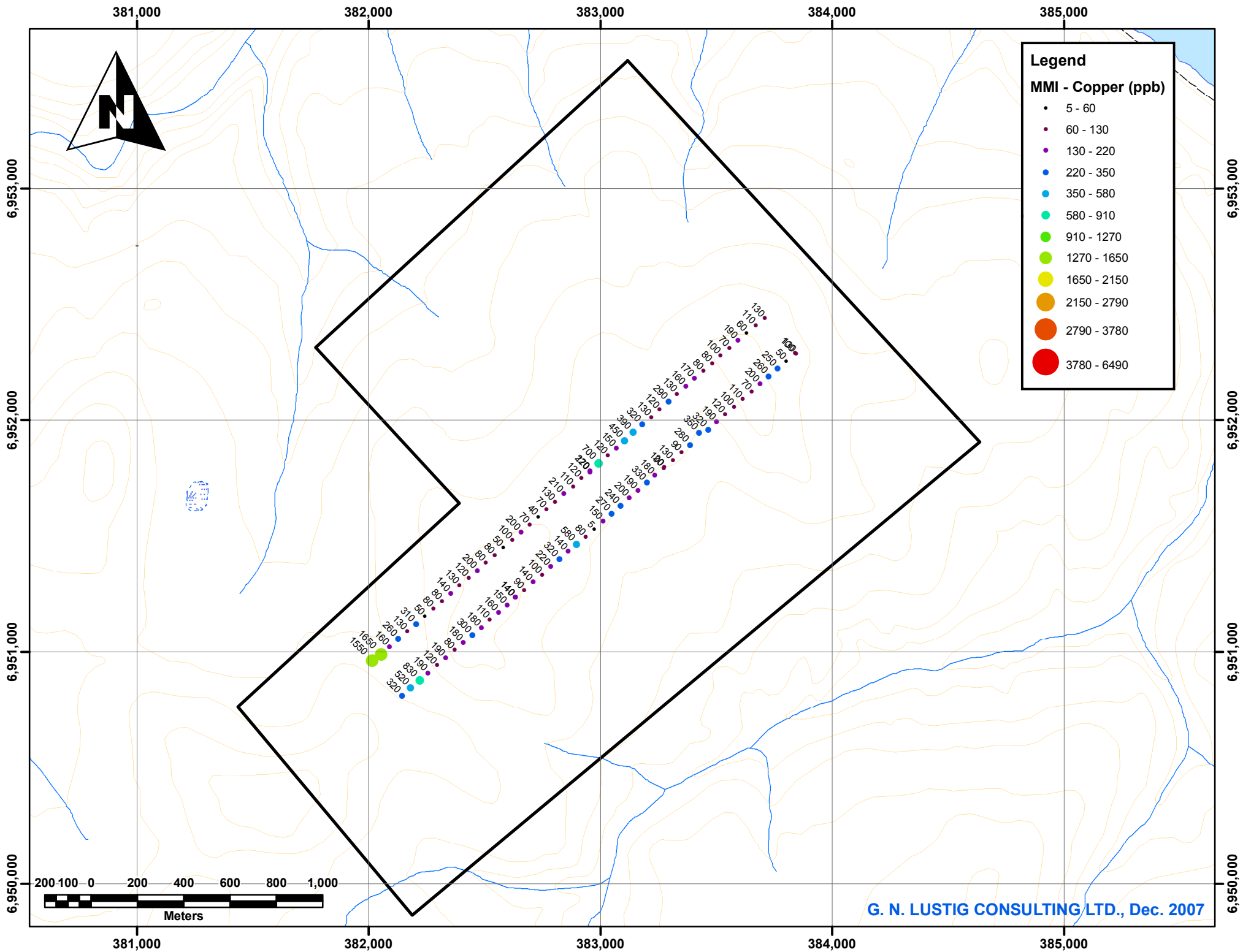
MMI sampling was completed on two lines across the Apex 3-14 claims. A total of 90 samples were collected and processed at SGS Mineral Services in Toronto. MMI sampling is a relatively new analytical process that measures mobile ion elements and is believed to be able to detect deeply buried mineralization. Results from the sampling are shown in Figures 2 – 4 which include sample location plots as well as plots for Cu and Au values. For both copper and gold there are some relatively low-grade anomalies at the southwest end of the lines. This suggests that additional sampling should be completed to the southwest. Raw data for the MMI soil sampling is provided in Appendix A.

### **8.2 Rock Sampling Prospecting and Mapping**

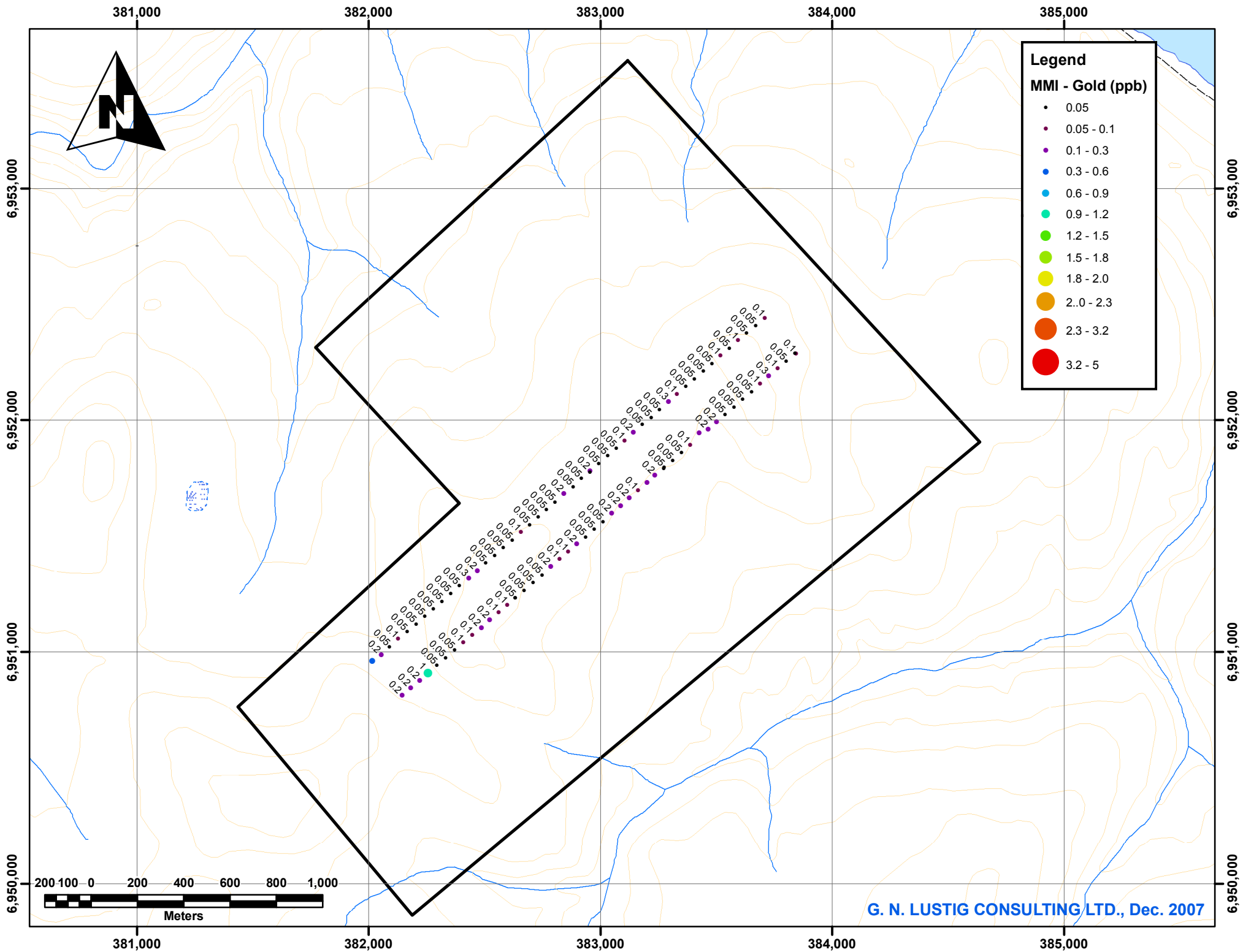
Peter and Ann Ledwidge spent two days prospecting, mapping and rock sampling on the Apex 1-39 Claims. Their work included collecting 16 rock samples on the claims.

Twelve samples were collected on the Apex 1-27 claims and four samples on the Apex 28-39 claims. All samples were from foliated to non-foliated hornblende –biotite granodiorite and no significant anomalies were detected. All samples returned assays of <0.03 in gold and <0.01% copper. A table of sample results and analytical certificates are found in Appendix B.









## **9.0 INTERPRETATION AND CONCLUSIONS**

The area of the APEX 1-39 claims is underlain primarily by Aishihik Suite foliated and non-foliated hornblende-biotite granodiorite with late aplite dykes. Although traces of malachite were observed in a few locations, assay results from 16 rock samples collected on the property failed to return any anomalous values in either copper or gold.

## **10.0 RECOMMENDATIONS**

Additional MMI samples should be collected on the southwest side of the existing sample lines to determine if higher-grade anomalies for copper and gold can be detected.

**Respectfully submitted;**

***R. Allan Doherty, P.Geol.***  
**December 27, 2007**

## 11.0 STATEMENT OF COSTS

### APEX 1-39 Claims, YC47182-YC47220 NTS 115-I-11

Two Certificates of Work were filed in June 2007 covering mineral claims located on NTS 115-I-11 the work was completed June 13-June 29, 2007 on the following claims.

APEX 3 –APEX 14 (YC47184-YC47195)	\$ 7,020.00
APEX 34 –APEX 37 (YC47215-YC47218)	\$ 2,820.00

Renewals were requested for:

APEX 1-27 (YC47182-YC47208)	Renew for 2 yrs to 29/06/2009
APEX 28-39 (YC47209-YC47220)	Renew for 2 yrs to 29/06/2009

Total Exploration Expenditures required \$7,800,00

#### Detailed Statement of Work

##### APEX 3-14.

MMI Soil sampling 3 men @ \$ 330/day	\$ 990.00
MMI Soil sampling analyses (90 samples @ \$ 40/sample)	\$ 3,600.00
3 persons days x \$80/day Accommodation and meals	\$ 240.00
Helicopter Costs (0.8 hrs @ \$1200/hr)	\$ 960.00
Geology and Prospecting, sampling ( 1 day @ \$650)	\$ 650.00
Vehicle rentals	\$ 200.00
Reports	\$ 500.00

**Total \$ 7,140.00**

##### APEX 34-37

Geological Mapping and Sampling (2 day @ \$650/day)	\$ 1,300.00
Food and Lodging ( 2 person days @ \$80/day)	\$ 160.00
Helicopter Costs (0.8 hrs @ \$1200/hr)	\$ 960.00
Analytical (4 Samples @ \$20 each)	\$ 80.00
Report Costs	\$ 400.00

**Total \$ 2,900.00**

**R. Allan Doherty, P. Geo**  
**December 27, 2007**

## 12.0 CERTIFICATE OF QUALIFICATIONS

I, R. Allan Doherty, hereby certify that:

1. I am a consulting mineral exploration geologist with AURUM GEOLOGICAL CONSULTANTS INC., 106A Granite Road, Whitehorse, Yukon, Y1A 2V9.
2. I am a graduate of the University of New Brunswick, with a degree in geology (Hons. B.Sc., 1977). I attended graduate school at Memorial University of Newfoundland, 1978-80. I have been involved in geological mapping and mineral exploration primarily in the Yukon continuously since 1980.
3. I am a "Qualified Person" as defined in Sec 1.2 of National Instrument 43-101.
4. I am a member in good standing of the Association of Professional Engineers and Geoscientists of the Province of British Columbia, Registration No. 20564, and have been registered as a Professional Geologist since 1993.
5. I am the author of this report on the APEX 1-39 Claims. The report is based on fieldwork conducted in 2007 under the author's supervision and on published assessment reports and company files.
6. I am the author of all sections of this report
7. I am not aware of any material fact or material change with respect to the subject matter of this technical report, which is not reflected in the technical report, the omission to disclose makes the technical report misleading.
8. I am independent of the Issuer and have no direct or indirect interest in the properties or securities of BCGOLD Corporation., or affiliated companies, nor do I expect to receive any.
9. I have had direct involvement with the exploration programs conducted on the area discussed in this report .
10. I have read National Instrument 43-101 and Form 43-101F and have prepared this Report on the Apex 1-39 in compliance with this Instrument and Form 43-101F1.

**"R. Allan Doherty, P. Geo."**

**December 27, 2007**

## 13.0 REFERENCES

- Sinclair, W.D., 1977. Geology and mineral deposits of the Minto area, Yukon Territory. In: Yukon Mineral Industry Report 1977, Geology Section, Yukon Region, Indian and Northern Affairs, Canada, p 68-82.
- Tafti, R., and Mortenson, J.K., 2004. Early Jurassic porphyry (?) copper (-gold) at Minto and Williams Creek, Carmacks Copper Belt, western Yukon. In Yukon Exploration and Geology 2003, D.S. Emond and L.L. Lewis (eds) Yukon Geological Survey, p. 289-303.

**APPENDIX A**  
**MMI SAMPLE ANALYTICAL RESULTS**

ANALYTE	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cu
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	1	1	10	0.1	10	1	10	1	5	5	100	10
UNITS	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPB	PPB
APX11354	38	7	60	1.7	13300	<1	480	4	10	18	<100	980
APX11364	19	4	40	1.1	6030	<1	250	2	<5	7	<100	530
APX11370	37	6	40	1.5	7650	<1	400	3	<5	10	<100	870
APX11384	35	5	40	1.2	7320	<1	380	3	<5	8	<100	790
APX12251	14	21	<10	0.4	4810	<1	650	12	284	77	<100	1550
APX12252	11	30	<10	0.2	2880	<1	570	27	198	116	<100	1650
APX12253	5	72	<10	<0.1	3710	<1	330	2	133	26	<100	160
APX12254	3	41	<10	0.1	4730	<1	470	1	176	21	<100	260
APX12255	5	32	<10	<0.1	3270	<1	410	2	23	12	<100	130
APX12256	8	92	<10	<0.1	2870	<1	380	<1	85	24	<100	310
APX12257	4	78	<10	<0.1	2410	<1	350	2	42	16	<100	50
APX12258	4	67	10	<0.1	2590	<1	290	<1	39	12	<100	80
APX12259	8	127	<10	<0.1	1070	<1	200	2	24	26	<100	80
APX12260	3	32	<10	<0.1	6270	<1	490	2	34	14	<100	140
APX12261	4	53	<10	<0.1	5300	<1	450	2	46	16	<100	130
APX12262	7	56	<10	0.3	3720	<1	330	2	41	7	<100	120
APX12263	5	30	<10	0.2	2710	<1	520	1	186	48	<100	200
APX12264	4	89	10	<0.1	3900	<1	270	1	123	14	<100	80
APX12265	4	89	<10	<0.1	3060	<1	440	1	72	17	<100	80
APX12266	4	62	<10	<0.1	3730	<1	260	1	265	11	<100	50
APX12267	4	214	30	<0.1	1350	<1	100	2	55	40	<100	100
APX12268	4	60	<10	0.1	4130	<1	500	<1	362	26	<100	200
APX12269	5	112	10	<0.1	1470	<1	270	3	153	40	<100	70
APX12270	4	185	20	<0.1	1050	<1	160	3	52	37	<100	40
APX12271	4	114	<10	<0.1	4400	<1	290	2	68	63	<100	70
APX12272	2	67	<10	<0.1	2850	<1	450	<1	733	21	<100	130
APX12273	3	144	<10	0.2	2890	<1	270	2	265	61	<100	210
APX12274	3	102	20	<0.1	3040	<1	270	1	50	22	<100	110
APX12275	5	52	<10	<0.1	3850	<1	380	3	36	15	<100	120
APX12276	9	57	<10	0.2	7550	<1	490	4	51	42	<100	220
APX12277	35	34	<10	<0.1	5490	<1	510	4	30	26	<100	700
APX12278	13	39	<10	<0.1	4070	<1	580	2	43	10	<100	120
APX12279	7	39	<10	<0.1	7150	<1	460	2	62	27	<100	150

ANALYTE	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cu
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	1	1	10	0.1	10	1	10	1	5	5	100	10
APX12280	4	24	<10	0.1	8730	<1	400	1	41	160	<100	450
APX12281	3	79	<10	0.2	6360	<1	370	1	424	244	<100	390
APX12283	7	44	<10	<0.1	7220	<1	450	4	50	23	<100	170
APX12294	5	5	<10	0.2	1870	<1	710	1	171	125	<100	320
APX12295	10	25	<10	0.2	1850	<1	610	3	327	45	<100	520
APX12296	5	54	<10	0.2	2420	<1	520	26	49	161	<100	830
APX12297	12	18	<10	1	3790	<1	520	<1	91	18	<100	190
APX12298	7	12	<10	<0.1	3080	<1	530	3	61	29	<100	120
APX12299	9	9	<10	<0.1	2120	<1	480	<1	61	19	<100	190
APX12300	5	8	<10	<0.1	2320	<1	700	1	39	6	<100	80
APX12301	5	18	<10	0.1	2830	<1	500	<1	243	18	<100	180
APX12302	16	29	<10	0.1	5030	<1	520	2	59	43	<100	300
APX12303	14	86	<10	0.2	4440	<1	410	1	121	48	<100	180
APX12304	6	61	<10	0.2	2440	<1	460	1	18	16	<100	110
APX12305	7	91	<10	0.1	1850	<1	390	1	66	20	<100	160
APX12306	6	31	<10	0.1	2300	<1	530	2	31	26	<100	150
APX12307	10	47	<10	<0.1	1940	<1	390	2	199	16	<100	140
APX12308	4	45	<10	<0.1	1520	<1	350	2	101	11	<100	90
APX12309	8	56	<10	<0.1	1940	<1	330	2	189	12	<100	140
APX12310	10	36	<10	<0.1	4520	<1	420	3	77	7	<100	100
APX12311	12	45	<10	0.2	3270	<1	490	1	121	75	<100	220
APX12312	27	79	<10	0.1	4100	<1	440	1	196	42	<100	320
APX12313	9	130	<10	0.1	2310	<1	430	1	226	35	<100	140
APX12314	5	46	<10	0.2	2650	<1	480	<1	553	94	<100	580
APX12315	8	68	<10	<0.1	4210	<1	470	2	142	22	<100	80
APX12316	<1	3	<10	<0.1	710	<1	20	<1	7	<5	<100	<10
APX12317	11	75	<10	<0.1	4510	<1	380	2	368	48	<100	150
APX12318	11	36	<10	0.2	2880	<1	420	<1	139	24	<100	270
APX12319	11	82	<10	0.2	3750	<1	450	1	143	74	<100	240
APX12320	9	105	<10	0.2	12500	<1	470	2	173	54	<100	200
APX12321	11	95	<10	0.1	21100	<1	450	2	230	98	<100	190
APX12322	13	7	<10	0.3	3230	<1	730	2	13	16	<100	330
APX12323	9	40	<10	0.2	11300	<1	600	1	152	27	<100	180
APX12324	10	24	<10	<0.1	5370	<1	590	3	142	14	<100	120



ANALYTE	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cu
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	1	1	10	0.1	10	1	10	1	5	5	100	10
APX12331	9	44	<10	<0.1	2220	<1	370	2	276	13	<100	140
APX12395	7	80	<10	<0.1	4730	<1	350	2	137	35	<100	90
APX12396	6	83	<10	<0.1	3390	<1	410	1	160	84	<100	130
APX12397	4	24	<10	<0.1	3420	<1	400	1	39	10	<100	90
APX12398	9	15	<10	0.1	2270	<1	540	2	35	76	<100	280
APX12399	10	12	<10	0.3	4790	<1	680	<1	48	25	<100	350
APX12400	13	57	<10	0.2	5560	<1	440	1	274	70	<100	320
APX12435	19	12	<10	0.2	4630	<1	410	<1	56	35	<100	190
APX12436	6	28	<10	<0.1	4330	<1	430	2	104	17	<100	120
APX12437	5	33	<10	<0.1	2710	<1	450	2	79	22	<100	100
APX12438	9	36	<10	<0.1	3530	<1	380	2	32	8	<100	110
APX12439	5	76	<10	<0.1	4760	<1	510	2	38	8	<100	70
APX12440	8	55	<10	0.1	4540	<1	380	2	265	121	<100	200
APX12441	5	68	<10	0.3	4560	<1	390	1	87	98	<100	260
APX12442	5	61	<10	0.1	5110	<1	420	<1	134	50	<100	250
APX12443	6	72	<10	<0.1	1080	<1	360	1	188	7	<100	50
APX12444	16	50	<10	<0.1	6300	<1	390	1	42	19	<100	100
APX12445	3	84	<10	0.1	5520	<1	330	<1	90	40	<100	130
APX12446	3	220	20	<0.1	2350	<1	180	3	189	49	<100	110
APX12447	4	128	<10	<0.1	1260	<1	260	<1	57	16	<100	60
APX12448	3	160	20	0.1	3400	<1	140	<1	238	82	<100	190
APX12449	3	58	<10	<0.1	2400	<1	380	1	29	13	<100	70
APX12450	4	54	<10	0.1	5280	<1	320	1	109	15	<100	100
APX12681	16	56	<10	0.1	5940	<1	380	<1	86	22	<100	130
APX12682	2	22	<10	<0.1	2850	<1	540	1	95	27	<100	320
APX13243	8	53	<10	<0.1	3290	<1	260	<1	90	9	<100	80
APX13244	6	31	<10	<0.1	3360	<1	470	2	54	7	<100	80
APX13245	10	43	<10	<0.1	3560	<1	490	3	57	21	<100	170
APX13246	5	13	<10	<0.1	5940	<1	550	3	16	31	<100	160
APX13247	8	41	<10	0.1	4980	<1	610	2	49	23	<100	130
APX13248	5	15	<10	0.3	5930	<1	660	1	26	76	<100	290
APX13249	3	86	<10	<0.1	3560	<1	360	5	100	43	<100	120
APX13250	5	32	<10	<0.1	2960	<1	410	3	37	21	<100	130
APX11354	43	9	50	2	13000	<1	530	5	7	25	<100	1140

ANALYTE	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cu
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	1	1	10	0.1	10	1	10	1	5	5	100	10
APX12259	7	133	<10	<0.1	1410	<1	200	2	25	27	<100	80
APX12271	4	134	<10	<0.1	4540	<1	300	3	63	72	<100	70
APX12294	5	5	<10	0.2	1650	<1	700	1	126	97	<100	270
APX12306	6	25	<10	<0.1	2330	<1	530	2	24	23	<100	140
APX12318	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
APX12399	7	10	<10	0.2	4670	<1	640	<1	58	35	<100	350
APX12445	3	81	<10	0.1	5380	<1	360	<1	101	49	<100	160
APX13247	9	53	<10	0.1	5890	<1	600	2	72	30	<100	170
MMISRM14	20	37	20	45.5	60	<1	260	9	14	48	<100	770
MMISRM14	20	37	10	44.5	130	<1	260	8	14	48	<100	760
MMISRM14	20	37	10	44.9	80	<1	260	9	14	49	<100	760
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5	<100	<10

ANALYTE	Dy	Er	Eu	Fe	Gd	La	Li	Mg	Mo	Nb	Nd	Ni
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	1	0.5	0.5	1	1	1	5	1	5	0.5	1	5
UNITS	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPB
APX11354	3	1.6	<0.5	3	2	2	27	61	13	0.6	4	163
APX11364	1	0.8	<0.5	2	1	<1	12	30	7	<0.5	1	76
APX11370	1	0.8	<0.5	3	1	<1	20	53	8	<0.5	<1	124
APX11384	1	0.8	<0.5	2	<1	<1	18	52	8	<0.5	<1	97
APX12251	62	35.6	14.8	51	75	188	12	68	<5	<0.5	256	826
APX12252	27	17.6	7.9	53	38	132	<5	66	6	<0.5	163	942
APX12253	17	7.6	4.5	19	20	63	<5	61	<5	<0.5	70	76
APX12254	16	7	4.4	10	21	75	<5	91	<5	<0.5	70	73
APX12255	2	1	0.7	12	3	9	<5	56	<5	<0.5	10	56
APX12256	10	4.9	2.5	21	10	42	<5	81	<5	<0.5	32	87
APX12257	5	2.3	1.4	22	5	17	<5	44	<5	<0.5	17	70
APX12258	3	1.4	1	28	4	17	<5	45	<5	1	16	42
APX12259	3	1.7	1.1	59	4	9	<5	22	<5	1.2	12	82
APX12260	4	1.9	1.2	7	6	16	<5	69	<5	<0.5	17	51
APX12261	3	1.4	0.7	16	3	23	<5	88	5	0.6	14	62
APX12262	5	2.5	1.6	23	7	22	<5	52	5	0.8	27	37
APX12263	24	9.9	6.2	10	28	87	<5	84	<5	<0.5	86	139
APX12264	13	6	4.2	29	16	62	<5	40	<5	1.3	64	64
APX12265	3	1.4	1	11	4	55	<5	61	<5	<0.5	18	44
APX12266	7	2.9	2.5	18	12	121	<5	60	<5	2.2	77	21
APX12267	3	1.7	1	105	4	25	14	19	5	5.2	18	91
APX12268	19	8.1	5.3	9	25	253	<5	92	<5	<0.5	122	113
APX12269	9	4.6	2.5	49	11	91	<5	63	<5	2.5	52	54
APX12270	4	1.9	1.2	88	5	30	10	10	5	6.9	20	71
APX12271	9	4	2.3	36	10	30	<5	61	<5	0.5	34	115
APX12272	55	24.2	13.9	14	67	404	<5	80	<5	<0.5	287	130
APX12273	36	18.7	8.3	29	35	160	<5	75	<5	0.7	113	273
APX12274	3	1.3	0.8	29	4	27	<5	46	<5	3.3	15	75
APX12275	3	1.5	1	19	4	18	<5	58	<5	<0.5	15	78
APX12276	9	4.3	1.8	23	9	21	<5	54	<5	<0.5	24	195
APX12277	6	3.2	1.2	12	7	11	<5	71	<5	<0.5	14	163
APX12278	3	1.5	1.1	12	5	28	<5	82	<5	<0.5	19	56
APX12279	8	3.8	2.1	23	11	32	<5	50	<5	<0.5	35	114

ANALYTE	Dy	Er	Eu	Fe	Gd	La	Li	Mg	Mo	Nb	Nd	Ni
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	1	0.5	0.5	1	1	1	5	1	5	0.5	1	5
APX12280	3	1.3	<0.5	105	4	18	<5	55	5	0.6	16	94
APX12281	59	32.2	12.5	46	59	163	<5	68	<5	<0.5	181	299
APX12283	7	3.2	1.5	20	8	18	<5	47	<5	<0.5	22	157
APX12294	10	5.3	3.4	15	16	106	<5	90	6	<0.5	84	103
APX12295	61	44.3	14	43	71	235	9	56	<5	<0.5	252	328
APX12296	18	13.8	3	42	14	18	12	36	<5	<0.5	34	1550
APX12297	11	5.1	2.7	10	14	50	<5	118	<5	<0.5	39	122
APX12298	7	3.2	2	8	9	21	<5	91	<5	<0.5	26	61
APX12299	11	4.5	3.3	4	14	40	<5	155	5	<0.5	42	58
APX12300	3	1.4	1	6	4	15	<5	109	<5	<0.5	18	35
APX12301	22	10.3	6.9	6	34	117	<5	134	<5	<0.5	125	52
APX12302	11	5.1	2.2	8	12	30	<5	99	5	<0.5	28	190
APX12303	29	18.3	5.2	13	24	63	<5	70	<5	<0.5	55	210
APX12304	2	1	0.6	33	3	8	<5	50	<5	0.6	8	62
APX12305	8	4	2.1	27	9	36	<5	54	<5	0.6	29	106
APX12306	3	1.3	0.7	13	3	18	<5	100	<5	<0.5	9	104
APX12307	20	8.1	4.8	15	23	108	<5	65	<5	<0.5	80	73
APX12308	3	1.5	1.1	31	5	36	<5	46	5	0.6	21	27
APX12309	17	7.9	5.2	17	22	107	<5	46	<5	<0.5	90	39
APX12310	8	4.1	2.3	11	11	42	<5	81	<5	<0.5	37	74
APX12311	22	9.5	3.8	7	20	63	<5	97	<5	<0.5	48	136
APX12312	18	9.4	4.2	21	20	106	<5	81	<5	<0.5	67	108
APX12313	22	10.9	5.6	31	23	116	<5	78	<5	<0.5	83	111
APX12314	93	53.2	17.2	8	91	188	6	99	<5	<0.5	215	246
APX12315	8	3.7	1.9	28	9	59	<5	93	<5	<0.5	33	87
APX12316	<1	0.5	<0.5	2	1	1	<5	3	<5	<0.5	3	<5
APX12317	22	10.6	6.4	34	28	162	<5	55	<5	<0.5	118	98
APX12318	20	10.4	5.1	11	25	63	<5	102	<5	<0.5	69	91
APX12319	80	50.1	19.8	26	90	164	11	92	<5	<0.5	229	276
APX12320	27	13.5	6.9	32	31	88	<5	71	<5	<0.5	89	261
APX12321	25	13	5.7	41	28	98	<5	72	<5	<0.5	90	401
APX12322	5	1.9	1.3	6	7	10	<5	43	6	<0.5	18	82
APX12323	12	5.4	3.1	18	16	58	<5	86	<5	<0.5	51	128
APX12324	18	8.7	5.2	13	26	106	<5	107	<5	<0.5	98	91

ANALYTE	Dy	Er	Eu	Fe	Gd	La	Li	Mg	Mo	Nb	Nd	Ni
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	1	0.5	0.5	1	1	1	5	1	5	0.5	1	5
APX12331	20	7.6	5.9	16	26	146	<5	67	<5	<0.5	110	61
APX12395	6	3.1	1.8	33	9	68	<5	28	<5	0.7	44	49
APX12396	21	9.5	5.3	38	25	93	<5	66	<5	<0.5	86	178
APX12397	2	1.1	0.7	16	3	16	<5	48	<5	<0.5	14	37
APX12398	4	2.4	1.4	25	6	23	<5	84	<5	<0.5	21	65
APX12399	13	6.9	2.4	6	14	22	<5	124	<5	<0.5	28	138
APX12400	37	16.3	8.4	17	44	146	<5	103	<5	<0.5	134	335
APX12435	8	3.3	2	11	11	35	<5	64	10	<0.5	32	132
APX12436	6	3	1.6	18	8	35	<5	60	<5	<0.5	31	56
APX12437	3	1.6	1	22	5	26	<5	63	<5	<0.5	19	27
APX12438	2	0.8	0.5	18	3	19	<5	48	<5	<0.5	11	23
APX12439	3	1.7	0.7	28	4	14	<5	62	<5	<0.5	12	65
APX12440	27	11.1	7	31	33	147	5	76	<5	0.6	120	244
APX12441	35	21.7	4.1	4	24	63	<5	59	<5	<0.5	34	528
APX12442	16	7.4	3.9	20	19	88	7	85	<5	<0.5	63	293
APX12443	4	1.6	1.5	32	6	104	<5	70	<5	0.8	36	24
APX12444	6	2.5	1.3	23	7	21	<5	61	<5	<0.5	21	122
APX12445	14	7.1	3.5	12	15	41	<5	73	<5	<0.5	48	203
APX12446	31	17	5.7	75	26	120	<5	50	<5	4.8	82	120
APX12447	3	1.7	0.9	39	4	29	<5	58	<5	2.3	15	63
APX12448	21	9.2	5	50	21	144	5	49	<5	4.5	78	270
APX12449	4	1.9	1	27	5	14	<5	54	<5	<0.5	13	100
APX12450	14	6.8	3.6	22	17	52	<5	58	<5	0.7	54	103
APX12681	12	5.3	3	21	15	45	5	61	<5	0.7	48	135
APX12682	11	5.3	3.1	12	17	60	6	66	<5	<0.5	70	56
APX13243	5	2.4	1.5	30	7	46	<5	38	<5	3.1	30	25
APX13244	2	1.1	0.8	22	3	19	<5	46	<5	<0.5	14	23
APX13245	7	3.4	1.6	28	8	22	<5	77	5	<0.5	24	150
APX13246	3	1.6	0.7	9	4	5	<5	68	<5	<0.5	10	87
APX13247	7	4.3	1.5	8	8	9	<5	77	<5	<0.5	16	135
APX13248	9	5.3	0.9	9	8	13	<5	50	<5	<0.5	13	251
APX13249	10	4.9	2.7	28	12	46	<5	37	<5	1.4	41	71
APX13250	2	1.1	0.7	14	3	12	<5	58	<5	<0.5	12	48
APX11354	2	1.6	<0.5	4	2	<1	25	67	15	<0.5	2	208

ANALYTE	Dy	Er	Eu	Fe	Gd	La	Li	Mg	Mo	Nb	Nd	Ni
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	1	0.5	0.5	1	1	1	5	1	5	0.5	1	5
APX12259	3	1.5	0.9	73	4	10	8	23	<5	3.2	12	80
APX12271	10	4.5	2.2	45	10	27	<5	64	<5	0.7	31	124
APX12294	8	4.7	2.7	12	12	78	<5	85	7	<0.5	63	98
APX12306	2	1	<0.5	9	2	12	<5	84	<5	<0.5	6	91
APX12318	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
APX12399	18	10.9	2.7	5	17	24	<5	114	<5	<0.5	31	133
APX12445	17	8.7	4	14	17	48	<5	80	<5	<0.5	54	195
APX13247	10	6.7	2.2	14	11	17	<5	85	<5	<0.5	25	120
MMISRM14	2	0.6	0.8	2	3	<1	<5	37	35	<0.5	9	271
MMISRM14	2	0.6	0.8	2	3	<1	<5	36	35	<0.5	9	269
MMISRM14	2	0.6	0.8	2	3	<1	<5	37	34	<0.5	9	284
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5
BLANK	<1	<0.5	<0.5	<1	<1	<1	<5	<1	<5	<0.5	<1	<5

ANALYTE	Pb	Pd	Pr	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	10	1	1	5	1	5	1	1	10	1	1	10
UNITS	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
APX11354	80	<1	1	23	3	6	2	<1	1570	<1	<1	<10
APX11364	40	<1	<1	15	1	<5	<1	<1	720	<1	<1	<10
APX11370	40	<1	<1	20	2	<5	<1	<1	1200	<1	<1	<10
APX11384	40	<1	<1	18	2	<5	<1	<1	1150	<1	<1	<10
APX12251	20	<1	55	8	<1	31	60	<1	2780	<1	11	<10
APX12252	10	<1	38	6	<1	22	33	<1	2730	<1	5	<10
APX12253	100	<1	15	25	<1	25	16	<1	2550	<1	3	<10
APX12254	70	<1	15	27	<1	19	15	<1	3900	<1	3	<10
APX12255	30	<1	2	45	<1	<5	3	<1	3450	<1	<1	<10
APX12256	190	<1	8	15	<1	26	7	<1	3360	<1	2	<10
APX12257	70	<1	4	50	<1	10	5	<1	2380	<1	<1	<10
APX12258	50	<1	4	46	<1	7	4	<1	2290	<1	<1	<10
APX12259	80	<1	3	91	<1	12	3	<1	1220	<1	<1	<10
APX12260	40	<1	4	59	<1	<5	4	<1	5670	<1	<1	<10
APX12261	30	<1	4	58	<1	<5	3	<1	5650	<1	<1	<10
APX12262	40	<1	6	73	<1	9	6	<1	2340	<1	<1	<10
APX12263	70	<1	19	7	<1	20	20	<1	3960	<1	4	<10
APX12264	140	<1	14	79	<1	18	14	<1	2180	<1	2	<10
APX12265	80	<1	5	23	<1	11	3	<1	3300	<1	<1	<10
APX12266	30	<1	20	74	<1	11	12	<1	3080	<1	2	<10
APX12267	90	<1	5	85	<1	25	3	1	520	<1	<1	<10
APX12268	140	<1	32	21	<1	22	20	<1	4340	<1	4	<10
APX12269	100	<1	15	35	<1	26	9	<1	3010	<1	2	<10
APX12270	100	<1	6	77	<1	19	4	1	1010	<1	<1	<10
APX12271	200	<1	8	22	<1	15	9	<1	1620	<1	2	<10
APX12272	160	<1	72	31	<1	57	53	<1	2970	<1	10	<10
APX12273	380	<1	27	49	<1	78	26	<1	3070	<1	6	<10
APX12274	100	<1	4	76	<1	10	3	<1	2230	<1	<1	<10
APX12275	60	<1	4	40	<1	6	4	<1	2730	<1	<1	<10
APX12276	140	<1	5	26	<1	13	7	<1	4390	<1	1	<10
APX12277	100	<1	3	21	<1	6	4	<1	3360	<1	1	<10
APX12278	40	<1	5	8	<1	<5	4	<1	4980	<1	<1	<10
APX12279	70	<1	8	32	<1	8	8	<1	2720	<1	2	<10

ANALYTE	Pb	Pd	Pr	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	10	1	1	5	1	5	1	1	10	1	1	10
APX12280	20	<1	4	13	<1	16	3	<1	1620	<1	<1	<10
APX12281	230	<1	41	41	<1	164	45	<1	1730	<1	10	<10
APX12283	100	<1	5	24	<1	9	6	<1	3830	<1	1	<10
APX12294	<10	<1	20	7	<1	7	14	<1	2700	<1	2	<10
APX12295	20	<1	55	12	<1	20	52	<1	2020	<1	10	<10
APX12296	20	<1	7	6	2	20	10	<1	1920	<1	3	<10
APX12297	40	<1	9	11	<1	10	10	<1	4550	<1	2	<10
APX12298	30	<1	5	9	<1	6	7	<1	5190	<1	1	<10
APX12299	20	<1	9	5	<1	11	11	<1	3920	<1	2	<10
APX12300	<10	<1	4	8	<1	6	4	<1	7600	<1	<1	<10
APX12301	30	<1	26	15	<1	12	26	<1	4770	<1	4	<10
APX12302	70	<1	6	11	<1	8	7	<1	4140	<1	2	<10
APX12303	330	<1	12	46	<1	50	15	<1	3680	<1	4	<10
APX12304	60	<1	2	34	<1	<5	2	<1	3680	<1	<1	<10
APX12305	160	<1	7	52	<1	17	7	<1	2850	<1	1	<10
APX12306	50	<1	2	10	<1	<5	2	<1	4150	<1	<1	<10
APX12307	80	<1	19	31	<1	27	16	<1	3400	<1	4	<10
APX12308	30	<1	6	39	<1	9	4	<1	3040	<1	<1	<10
APX12309	60	<1	21	30	<1	26	19	<1	2430	<1	3	<10
APX12310	20	<1	8	51	<1	8	8	<1	3300	<1	2	<10
APX12311	150	<1	11	27	<1	27	12	<1	3160	<1	3	<10
APX12312	230	<1	17	52	<1	45	15	<1	3400	<1	3	<10
APX12313	220	<1	21	27	<1	77	18	<1	2770	<1	4	<10
APX12314	200	<1	47	23	<1	74	61	<1	2870	<1	15	<10
APX12315	80	<1	9	39	<1	18	7	<1	4270	<1	1	<10
APX12316	<10	<1	<1	<5	<1	<5	<1	<1	80	<1	<1	<10
APX12317	70	<1	30	47	<1	56	24	<1	2980	<1	4	<10
APX12318	50	<1	14	14	<1	22	18	<1	3420	<1	4	<10
APX12319	170	<1	49	55	<1	62	63	<1	2280	<1	14	<10
APX12320	230	<1	20	56	<1	44	24	<1	2470	<1	5	<10
APX12321	150	<1	21	46	<1	84	22	<1	2290	<1	4	<10
APX12322	<10	<1	4	11	<1	7	5	<1	2000	<1	<1	<10
APX12323	90	<1	12	40	<1	14	12	<1	3160	<1	2	<10
APX12324	60	<1	22	13	<1	7	20	<1	5080	<1	3	<10



ANALYTE	Pb	Pd	Pr	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	10	1	1	5	1	5	1	1	10	1	1	10
APX12331	60	<1	27	34	<1	29	21	<1	3170	<1	4	<10
APX12395	100	<1	12	23	<1	14	8	<1	2890	<1	1	<10
APX12396	150	<1	20	63	<1	48	20	<1	2060	<1	4	<10
APX12397	20	<1	4	16	<1	<5	3	<1	3000	<1	<1	<10
APX12398	20	<1	5	12	<1	6	5	<1	3960	<1	<1	<10
APX12399	50	<1	6	<5	<1	11	8	<1	4210	<1	2	<10
APX12400	150	<1	31	29	<1	36	33	<1	3090	<1	7	<10
APX12435	20	<1	7	25	<1	8	8	<1	3070	<1	2	<10
APX12436	10	<1	7	30	<1	9	6	<1	3340	<1	1	<10
APX12437	20	<1	5	17	<1	8	4	<1	4550	<1	<1	<10
APX12438	10	<1	3	67	<1	<5	2	<1	3090	<1	<1	<10
APX12439	30	<1	3	81	<1	9	3	<1	5300	<1	<1	<10
APX12440	130	<1	29	33	<1	45	27	<1	3390	<1	5	<10
APX12441	350	<1	8	36	<1	27	11	<1	3550	<1	5	<10
APX12442	180	<1	15	17	<1	23	14	<1	3440	<1	3	<10
APX12443	30	<1	11	36	<1	12	5	<1	2620	<1	<1	<10
APX12444	90	<1	5	110	<1	11	5	<1	3670	<1	1	<10
APX12445	200	<1	10	58	<1	39	12	<1	2360	<1	2	<10
APX12446	280	<1	20	27	<1	39	18	<1	2140	<1	5	<10
APX12447	50	<1	4	77	<1	11	3	<1	1720	<1	<1	<10
APX12448	220	<1	20	39	1	138	18	<1	1190	<1	4	<10
APX12449	50	<1	3	110	<1	11	3	<1	2610	<1	<1	<10
APX12450	110	<1	12	87	<1	22	14	<1	2910	<1	3	<10
APX12681	90	<1	11	69	<1	18	12	<1	3460	<1	2	<10
APX12682	20	<1	15	11	<1	6	14	<1	2620	<1	2	<10
APX13243	50	<1	8	39	<1	10	6	<1	2440	<1	<1	<10
APX13244	10	<1	3	41	<1	5	3	<1	3910	<1	<1	<10
APX13245	40	<1	5	26	<1	12	6	<1	3360	<1	1	<10
APX13246	20	<1	2	42	<1	<5	3	<1	3420	<1	<1	<10
APX13247	30	<1	3	23	<1	10	5	<1	3590	<1	1	<10
APX13248	100	<1	3	<5	<1	6	4	<1	4450	<1	1	<10
APX13249	80	<1	10	52	<1	19	9	<1	2070	<1	2	<10
APX13250	20	<1	3	63	<1	5	3	<1	2550	<1	<1	<10
APX11354	90	<1	<1	24	3	7	1	<1	1760	<1	<1	<10

ANALYTE	Pb	Pd	Pr	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	10	1	1	5	1	5	1	1	10	1	1	10
APX12259	70	<1	3	98	<1	20	3	<1	1160	<1	<1	<10
APX12271	220	<1	7	27	<1	21	8	<1	1710	<1	2	<10
APX12294	<10	<1	15	7	<1	7	11	<1	2690	<1	2	<10
APX12306	30	<1	2	10	<1	<5	1	<1	3980	<1	<1	<10
APX12318	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
APX12399	40	<1	6	6	<1	12	10	<1	3840	<1	3	<10
APX12445	210	<1	12	55	<1	38	14	<1	2570	<1	3	<10
APX13247	50	<1	5	26	<1	16	7	<1	3690	<1	2	<10
MMISRM14	100	48	2	295	1	6	3	<1	500	<1	<1	<10
MMISRM14	90	47	2	289	1	7	3	<1	530	<1	<1	<10
MMISRM14	90	49	2	291	<1	6	3	<1	540	<1	<1	<10
BLANK	<10	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1	<10
BLANK	<10	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1	<10
BLANK	<10	<1	<1	<5	<1	<5	<1	<1	<10	<1	<1	<10

ANALYTE	Th	Ti	Tl	U	W	Y	Yb	Zn	Zr
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	0.5	3	0.5	1	1	5	1	20	5
UNITS	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
APX11354	2.1	12	<0.5	9	<1	19	2	140	23
APX11364	1.1	<3	<0.5	5	<1	10	<1	70	<5
APX11370	1.1	<3	<0.5	7	<1	10	<1	30	<5
APX11384	0.8	<3	<0.5	7	<1	9	<1	30	<5
APX12251	15.5	5	<0.5	43	<1	380	29	80	37
APX12252	8	10	<0.5	105	<1	195	16	60	10
APX12253	8.4	39	<0.5	5	<1	83	5	100	14
APX12254	12.3	<3	<0.5	8	<1	84	4	80	11
APX12255	3.6	11	<0.5	2	<1	11	<1	200	<5
APX12256	15.1	34	<0.5	5	<1	50	4	30	17
APX12257	4.8	115	<0.5	2	<1	24	2	250	9
APX12258	4.9	209	<0.5	1	<1	16	1	70	10
APX12259	5.1	498	<0.5	1	<1	18	1	70	16
APX12260	4.2	<3	<0.5	2	<1	24	1	100	<5
APX12261	6.7	23	<0.5	2	<1	17	<1	160	<5
APX12262	5.3	216	<0.5	2	<1	29	2	170	11
APX12263	7.7	<3	<0.5	11	<1	111	6	130	10
APX12264	12.3	648	<0.5	3	<1	68	4	40	20
APX12265	12.2	44	<0.5	2	<1	16	1	80	10
APX12266	18.2	687	<0.5	3	<1	40	2	120	24
APX12267	14.5	2310	<0.5	2	<1	18	1	130	40
APX12268	15.4	8	<0.5	6	<1	117	5	50	8
APX12269	18.2	1450	<0.5	2	<1	49	4	170	17
APX12270	11.5	3010	<0.5	1	<1	21	2	170	33
APX12271	8.2	228	<0.5	2	<1	42	3	80	11
APX12272	25	5	<0.5	17	<1	303	16	40	15
APX12273	51.6	337	<0.5	13	<1	203	14	90	41
APX12274	19.2	1640	<0.5	2	<1	15	<1	60	22
APX12275	6.9	45	<0.5	3	<1	17	1	110	9
APX12276	7.4	5	<0.5	6	<1	43	3	120	10
APX12277	2.8	<3	<0.5	5	<1	29	2	460	<5
APX12278	4.8	<3	<0.5	2	<1	18	<1	60	<5
APX12279	5.4	22	<0.5	4	<1	41	3	130	5

ANALYTE	Th	Ti	Tl	U	W	Y	Yb	Zn	Zr
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	0.5	3	0.5	1	1	5	1	20	5
APX12280	8.1	72	<0.5	3	<1	15	1	100	12
APX12281	28.2	100	<0.5	28	<1	288	25	160	28
APX12283	6.3	3	<0.5	4	<1	32	2	160	6
APX12294	25	<3	<0.5	17	<1	58	4	40	9
APX12295	11.1	<3	<0.5	27	<1	496	38	200	<5
APX12296	2.9	11	<0.5	26	<1	122	14	100	<5
APX12297	8.5	<3	<0.5	6	<1	63	3	60	<5
APX12298	2.8	<3	<0.5	6	<1	40	2	60	<5
APX12299	5	<3	<0.5	12	<1	49	3	80	<5
APX12300	6.7	<3	<0.5	7	<1	15	1	50	10
APX12301	7.7	<3	<0.5	8	<1	126	6	60	<5
APX12302	2.9	<3	<0.5	9	<1	51	3	190	<5
APX12303	16.6	<3	<0.5	8	<1	164	14	340	7
APX12304	3.2	22	<0.5	2	<1	11	<1	80	6
APX12305	10	166	<0.5	4	<1	44	3	100	12
APX12306	3	3	<0.5	3	<1	17	<1	150	<5
APX12307	6.8	9	<0.5	9	<1	100	4	160	11
APX12308	7.8	189	<0.5	2	<1	16	1	100	9
APX12309	5.1	45	<0.5	6	<1	85	5	160	10
APX12310	3.2	8	<0.5	3	<1	47	3	190	<5
APX12311	4.9	<3	<0.5	11	<1	87	6	220	7
APX12312	16.1	6	<0.5	8	<1	96	7	180	20
APX12313	22.3	28	<0.5	9	<1	118	8	250	19
APX12314	11	<3	<0.5	27	<1	420	42	230	10
APX12315	10.6	12	<0.5	3	<1	41	2	180	7
APX12316	1	<3	<0.5	<1	<1	6	<1	<20	<5
APX12317	16.7	71	<0.5	8	<1	111	8	180	23
APX12318	7.8	28	<0.5	10	<1	117	7	90	9
APX12319	16.7	13	<0.5	42	<1	479	42	260	20
APX12320	18.3	42	<0.5	11	<1	148	10	170	16
APX12321	18	23	<0.5	15	<1	133	10	150	21
APX12322	4.2	<3	<0.5	38	<1	23	1	70	5
APX12323	13.5	6	<0.5	7	<1	61	4	180	11
APX12324	7.1	4	<0.5	4	<1	100	6	230	<5

ANALYTE	Th	Ti	Tl	U	W	Y	Yb	Zn	Zr
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	0.5	3	0.5	1	1	5	1	20	5
APX12331	9.7	27	<0.5	9	<1	99	4	150	15
APX12395	8.7	155	<0.5	3	<1	35	3	170	17
APX12396	12.5	114	<0.5	6	<1	102	7	30	16
APX12397	9.3	15	<0.5	2	<1	13	<1	50	5
APX12398	3	4	<0.5	4	<1	27	2	40	<5
APX12399	4.2	<3	<0.5	13	<1	57	5	<20	<5
APX12400	12.9	31	<0.5	27	<1	169	11	40	16
APX12435	5.3	27	<0.5	5	<1	42	2	30	5
APX12436	6.6	27	<0.5	3	<1	31	2	80	5
APX12437	6	31	<0.5	3	<1	17	1	30	<5
APX12438	4.7	48	<0.5	2	<1	9	<1	50	<5
APX12439	2.5	27	<0.5	1	<1	19	1	80	5
APX12440	20.2	194	<0.5	13	<1	126	7	80	19
APX12441	6.9	<3	<0.5	3	<1	235	15	60	<5
APX12442	14.6	53	<0.5	7	<1	88	5	50	9
APX12443	8.6	143	<0.5	4	<1	20	<1	20	11
APX12444	6.9	129	<0.5	3	<1	29	2	70	9
APX12445	33.5	98	<0.5	8	<1	72	6	30	34
APX12446	34.5	1860	<0.5	5	<1	213	12	120	28
APX12447	14	503	<0.5	1	<1	20	1	30	15
APX12448	64.7	2010	<0.5	13	<1	104	7	50	81
APX12449	3.2	141	<0.5	4	<1	22	1	60	11
APX12450	9.7	245	<0.5	4	<1	78	5	40	17
APX12681	8.3	413	<0.5	5	<1	57	4	80	10
APX12682	12.8	15	<0.5	8	<1	62	4	100	7
APX13243	9.1	819	<0.5	2	<1	26	2	50	11
APX13244	4.5	28	<0.5	2	<1	13	<1	80	<5
APX13245	5.5	44	<0.5	5	<1	38	2	270	9
APX13246	2.2	12	<0.5	3	<1	19	1	30	<5
APX13247	2.6	6	<0.5	4	<1	43	3	20	<5
APX13248	2	<3	<0.5	3	<1	48	4	30	<5
APX13249	7.5	613	<0.5	3	<1	50	4	770	17
APX13250	5.3	75	<0.5	2	<1	12	<1	530	<5
APX11354	1.9	20	<0.5	10	1	20	2	190	23

ANALYTE	Th	Ti	Tl	U	W	Y	Yb	Zn	Zr
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
DETECTION	0.5	3	0.5	1	1	5	1	20	5
APX12259	6	559	<0.5	2	<1	17	1	100	20
APX12271	9.1	330	<0.5	3	<1	47	3	100	13
APX12294	21.6	<3	<0.5	16	<1	46	4	40	<5
APX12306	2.1	5	<0.5	2	<1	11	<1	160	<5
APX12318	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
APX12399	4.4	<3	<0.5	13	<1	73	8	<20	<5
APX12445	28.3	87	<0.5	10	<1	85	7	40	26
APX13247	5.3	13	<0.5	5	<1	64	5	40	7
MMISRM14	13.6	<3	<0.5	33	<1	7	<1	320	8
MMISRM14	13.8	<3	<0.5	34	<1	8	<1	320	7
MMISRM14	13.8	6	<0.5	33	<1	8	<1	310	8
BLANK	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5
BLANK	<0.5	<3	<0.5	<1	<1	<5	<1	<20	<5

**APPENDIX B**  
**ROCK SAMPLE DESCRIPTIONS, LOCATIONS**  
**and**  
**ANALYTICAL RESULTS**

**APEX 1-39 CLAIMS ROCK SAMPLE DESCRIPTIONS AND LOCATIONS**

<b>SAMPLE</b>	<b>EAST</b>	<b>NORTH</b>	<b>Au (g/t)</b>	<b>Cu (%)</b>	<b>TYPE</b>	<b>LITHOLOG<sup>1</sup></b>	<b>MINERALOGY</b>	<b>CLAIM</b>
78856	382839	6951764	<0.03	<0.01	grab	Biotite-hornblende granodiorite, weak foliation?	APEX 7	
78857	382909	6951871	<0.03	<0.01	grab	Non-foliated biotite-hornblende granodiorite	APEX 10	
78858	382688	6951539	<0.03	<0.01	grab	Biotite granodiorite, weakly foliated	APEX 7	
78859	382684	6951499	<0.03	<0.01	float	Biotite granodiorite, trace malachite?	APEX 7	
398004	382516	6950446	<0.03	<0.01	comp grab	Aplite dyke, granodiorite, epidote, hematite	APEX 20	
398005	382490	6950440	<0.03	<0.01	float	Granite, non-magnetic, very fine-grained epidote	APEX 20	
398006	382587	6951334	<0.03	<0.01	grab	Epidote and k-spar vein	APEX 8	
398007	382587	6951334	<0.03	<0.01	comp grab	Granodiorite, very fine-grained biotite	APEX 8	
398008	382516	6950446	<0.03	<0.01	comp grab	Aplite dyke, granodiorite, epidote, hematite	APEX 20	
398009	382490	6950440	<0.03	<0.01	float	Granite, non-magnetic, very fine-grained epidote	APEX 20	
398010	382587	6951334	<0.03	<0.01	grab	Epidote and k-spar vein	APEX 8	
398011	382587	6951334	<0.03	<0.01	comp grab	Granodiorite, very fine-grained biotite	APEX 8	
398012	380016	6948476	<0.03	<0.01	float	Granodiorite	APEX 29	
398013	380453	6948259	<0.03	<0.01	grab	Weakly foliated granodiorite, trace epidote	APEX 28	
398014	380567	6948177	<0.03	<0.01	grab	Granodiorite	APEX 28	
398015	380504	6949113	<0.03	<0.01	grab	Granodiorite, 1% epidote	APEX 34	



## CERTIFICATE OF ASSAY AK 2007- 7081

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**Aurum Geological Cons. Inc.**  
106A Granite Road  
**Whitehorse, YK**  
Y1A 2V9

9-Jul-07

No. of samples received: 70 (only 16 samples listed for APEX Claims)

Sample Type: Rock

Project: **BC Gold - Carmack**

Submitted by: *Al Doherty*

ET #.	Tag #	Au (g/t)	Au (oz/t)	Cu (%)
6	78856	<0.03	<0.001	<0.01
7	78857	<0.03	<0.001	<0.01
8	78858	<0.03	<0.001	<0.01
9	78859	<0.03	<0.001	<0.01
18	398004	<0.03	<0.001	<0.01
19	398005	<0.03	<0.001	<0.01
20	398006	<0.03	<0.001	<0.01
21	398007	<0.03	<0.001	<0.01
22	398008	<0.03	<0.001	<0.01
23	398009	<0.03	<0.001	<0.01
24	398010	<0.03	<0.001	<0.01
25	398011	<0.03	<0.001	<0.01
26	398012	<0.03	<0.001	<0.01
27	398013	<0.03	<0.001	<0.01
28	398014	<0.03	<0.001	<0.01
29	398015	<0.03	<0.001	<0.01

**ECO TECH LABORATORY LTD.**  
Jutta Jealouse  
B.C. Certified Assayer

### Aurum Geological Cons. Inc. - AK7 7081

ET #.	Tag #	Au (g/t)	Au (oz/t)	Cu (%)
<b>QC DATA:</b>				
<b>Repeat:</b>				
19	398005	<0.03	<0.001	<0.01
<b>Standard:</b>				
	SJ32	2.65	0.077	
	SJ32	2.62	0.076	

CU120  
CU120

1.52  
1.53

JJ/jl  
XLS/07

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**ECO TECH LABORATORY LTD.**  
Jutta Jealouse  
B.C. Certified Assayer

## ECO TECH LABORATORY LTD.

10041 Dallas Drive

KAMLOOPS, B.C.

V2C 6T4

## ICP CERTIFICATE OF ANALYSIS AK 2007- 7081

Aurum Geological Cons. Inc.

106A Granite Road

Whitehorse, YK

Y1A 2V9

Phone: 250-573-5700

Fax : 250-573-4557

No. of samples received: 70

Sample Type: Rock

Project: BC Gold - Carmack

Submitted by: Al Doherty

Values in ppm unless otherwise reported

Et #.	Tag #	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	Y	Zn
6	78856	<0.2	0.90	30	225	15	0.39	<1	8	90	13	2.15	<10	0.53	437	3	0.08	6	730	24	10	<20	31	0.12	<10	53	<10	5	49
7	78857	<0.2	0.66	35	145	10	0.23	<1	6	74	19	1.67	<10	0.38	342	2	0.07	4	390	18	10	<20	19	0.09	<10	38	<10	3	37
8	78858	<0.2	0.30	25	65	10	0.11	<1	2	73	3	0.50	<10	0.07	100	1	0.08	2	100	12	<5	<20	25	0.03	<10	9	<10	3	9
9	78859	<0.2	0.40	20	65	10	0.18	<1	3	57	4	0.82	<10	0.12	214	1	0.06	2	90	14	<5	<20	18	0.05	<10	15	<10	4	23
18	398004	<0.2	0.34	25	95	10	0.13	<1	2	53	2	0.50	<10	0.10	123	<1	0.07	2	210	12	<5	<20	37	0.03	<10	7	<10	4	12
19	398005	<0.2	1.41	30	55	15	0.95	<1	13	40	3	1.75	10	0.94	411	2	0.03	7	1030	36	10	<20	200	0.12	<10	34	<10	9	63
20	398006	<0.2	0.93	25	55	10	0.63	<1	10	45	9	1.97	10	0.66	310	2	0.05	5	1120	26	10	<20	65	0.10	<10	43	<10	6	52
21	398007	<0.2	0.32	30	90	10	0.10	<1	2	49	2	0.50	<10	0.06	92	<1	0.07	2	240	14	<5	<20	22	0.03	<10	8	<10	3	16
23	398009	<0.2	0.76	25	165	10	0.35	<1	6	79	3	1.53	<10	0.44	346	1	0.07	4	580	22	<5	<20	29	0.12	<10	34	<10	5	37
24	398010	<0.2	0.79	30	170	15	0.29	<1	7	67	3	1.65	<10	0.45	387	1	0.06	5	570	22	5	<20	21	0.12	<10	37	<10	4	41
25	398011	<0.2	0.86	30	200	15	0.24	<1	8	78	3	1.82	10	0.53	366	2	0.06	5	580	22	10	<20	25	0.12	<10	41	<10	3	46
26	398012	<0.2	0.74	20	170	10	0.35	<1	7	77	3	1.84	10	0.49	407	2	0.06	3	720	20	10	<20	25	0.12	<10	45	<10	4	46
27	398013	<0.2	0.88	20	75	10	0.31	<1	7	49	2	1.52	10	0.60	439	2	0.04	4	630	24	5	<20	45	0.05	<10	27	<10	6	57
28	398014	<0.2	0.22	25	70	<5	0.04	<1	1	81	2	0.47	<10	0.03	90	<1	0.06	1	80	10	<5	<20	15	0.01	<10	9	<10	3	10
29	398015	<0.2	0.88	30	270	15	0.39	<1	8	72	4	2.10	10	0.56	370	2	0.08	4	850	24	10	<20	25	0.15	<10	53	<10	4	44

**QC DATA:****Repeat:**

19	398005	<0.2	1.48	40	65	10	1.04	<1	14	41	4	1.80	20	0.96	420	4	0.03	8	1020	38	20	<20	223	0.12	<10	37	<10	7	64
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**Standard:**

Pb113		10.6	0.28	70	65	<5	1.31	43	4	7	2278	1.15	<10	0.13	1619	76	0.02	4	60	5648	10	<20	70	<0.01	<10	10	10	2	6943
Pb113		10.8	0.29	60	65	<5	0.91	47	3	7	2316	1.17	<10	0.13	1601	69	0.02	2	70	5508	15	<20	66	0.02	<10	9	10	4	6935