**Assessment Report** 

BC Geological Survey Assessment Report 30413

Rock Geochemistry and Geological Mapping

On the

Met 1-14, Met Ext, Met 8-A, Met South and Cherry Mineral Claims

**Omineca Mining Division** 

94E/06

UTM Zone 9 NAD83 602600E 6367500N

**57<sup>0</sup> 26' 19.2''** North Latitude 127<sup>0</sup> 17' 26.7'' West Longitude

For

**Pembrook Mining Corporation** 

By

Michael Hocking M.Sc.

September, 2008

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### Introduction

The Mets Property was examined by the Michael Hocking, Craig Bow, Chris Leslie, Quinn Harper, and Chris Amy on August 24, 2008. The purpose of the visit was to evaluate the economic potential of the claims by validating the location, style and potential of known mineralization as well as assessing the distribution of diamond drill holes relative to mineralized zones. The Cirque, Ridge, BT, Camp, and NW zones were visited and rock samples were collected. The program was helicopter supported. All work including report writing was completed at a cost of \$15 696.29

The work described above successfully identified high-level epithermal alteration and quartz veining that is probably the southern extension of the Mets/Patti system located further to the north. No further work is recommended at this time.

### **Location and Access**

The Met property is located in the Toodoggone District of the Omineca Mining Division with the centre of the claim group located at UTM coordinates 602600 East 6367500 North (UTM Zone 9 NAD83) or  $57^{0}$  26' 19.2'' North Latitude and  $127^{0}$  17' 26.7'' West Longitude (Figure 1).

The property can be accessed by helicopter using the nearest fixed wing airstrip, the Sturdee strip located roughly 30 km south of the property from the Omineca Resource road via Fort St. James. The property is connected to the Cheni mine and Sturdee airstrip by roads that access the Al property to the north. These roads were not traversed by the author and may be in need of repair. At the time of this report there was no bridge in place across the Toodoggone River located south of the property.

#### Physiography, Climate and Vegetation

The property is located in the Intermontane Belt with moderate annual precipitation, cool summers and cold winters. The area consists of a broad erosional plateau with extensive glacial cover incised by gentle drainages. Elevations range from 1500 to 1800 metres above sea level. Tree line is at roughly 1600m. Below tree line the forest is dominated by short subalpine fir and willow while above tree line vegetation is dominantly lichen short grasses and minor clumps of dwarf birch and willow. The claims are largely covered by extensive glacial till although several of the higher areas have distinct areas of good outcrop.

### **Exploration History**

Exploration in the Toodoggone area dates back to 1925 when placer gold was discovered in the McLaren Creek area. Modern exploration for porphyry and epithermal deposits started in 1966 with a regional reconnaissance program by Kennecott that led to the discovery of the Cheni and Lawyers deposits as well as the Kemess porphyry deposits further south. To date minfile records over 70 mineral occurrences in the Toodoggone area.

Recorded exploration work within the Met claim group starts with prospecting and geochemical work for Lacana Mining Corporation (Gower, 1981) on the Metsantan 1-4 claims in 1981 exploring the Chili occurrence as recorded by Kennecott Exploration. This work led to the trenching sampling of the Ridge zone that was subsequently drilled in 1982. Surface sampling from the vein gave significant gold values but results of the drilling were not reported and are presumed to be poor.

The area north of the Ridge showing was acquired by Golden Rule Resources and worked from 1981 to 1990 by Golden Rule as well as via a succession of joint ventures with Manson Creek Resources, Bart Resources and Skeena Resources. This work was all completed by Taiga Consultants Inc. and included mapping, soil geochemistry, rock sampling, trenching and diamond drilling. The soil sampling is best documented in reports by Taiga Consultants (Netolitsky, 1985; Wilson, 1984; Taiga, 1985) with a compilation map provided in AR 20400 (Aussant, 1990).

This work led to the discovery of the Mets deposit located immediately to the north of the Met claims. Golden Rule reported a resource of 158,000 tons @ 0.338 opt Au in 1988 from the A zone and the property was optioned to Cheni Mines in 1992 and 53,518 tons at 0.339 opt Au were mined and trucked to the Cheni Mill (as reported in Hawkins, 1998). Exploration work from 1986 onwards focussed on the A zone at the Mets deposit and little work has been done on the soil anomalies further south and east that are covered by the Met claim group except for some trenching by Bart Resources (Netolitsky, 1985; Taiga Consultants, 1985) and seven shallow holes that were drilled in 1988. The results of this drilling were not reported but the hole collar locations are presented in AR 20400 (Aussant, 1990).

Subsequent work in the area focused on prospecting in the eastern part of the claim block by Mandusa Resources in 1985 and Alpine Exploration in 1995. This work is best summarized by Richards (1995) who provides rough locations for a number of float and suboutcrop samples that assayed as high as 27.7 gpt Au.

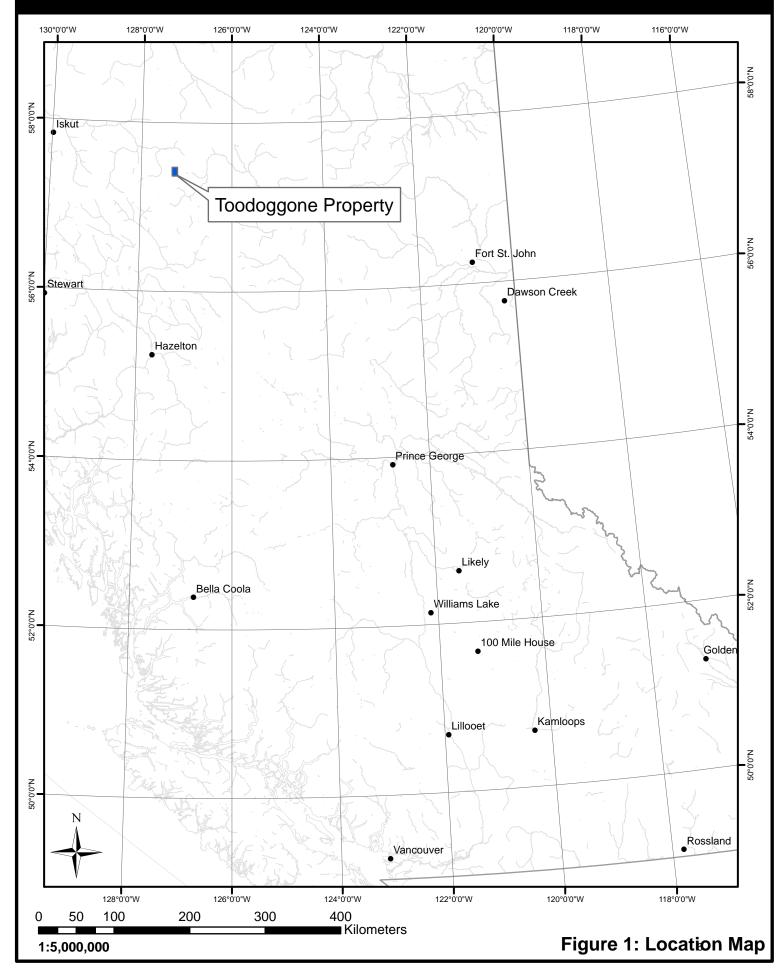
Preliminary rock and soil sampling as well as geological mapping were conducted by Paget Resources Corporation field crews in 2006 (Marsden, 2006). Twenty-five soil samples were collected on a single soil contour line. Gold concentrations were below detection and there were no anomalous concentrations of pathfinder elements. Rock samples from the main mineralized area were consistently anomalous in Au and Ag. Samples of narrow structurally controlled vuggy silica returned values of 0.23 to 0.34 gpt

### **Claim and Ownership**

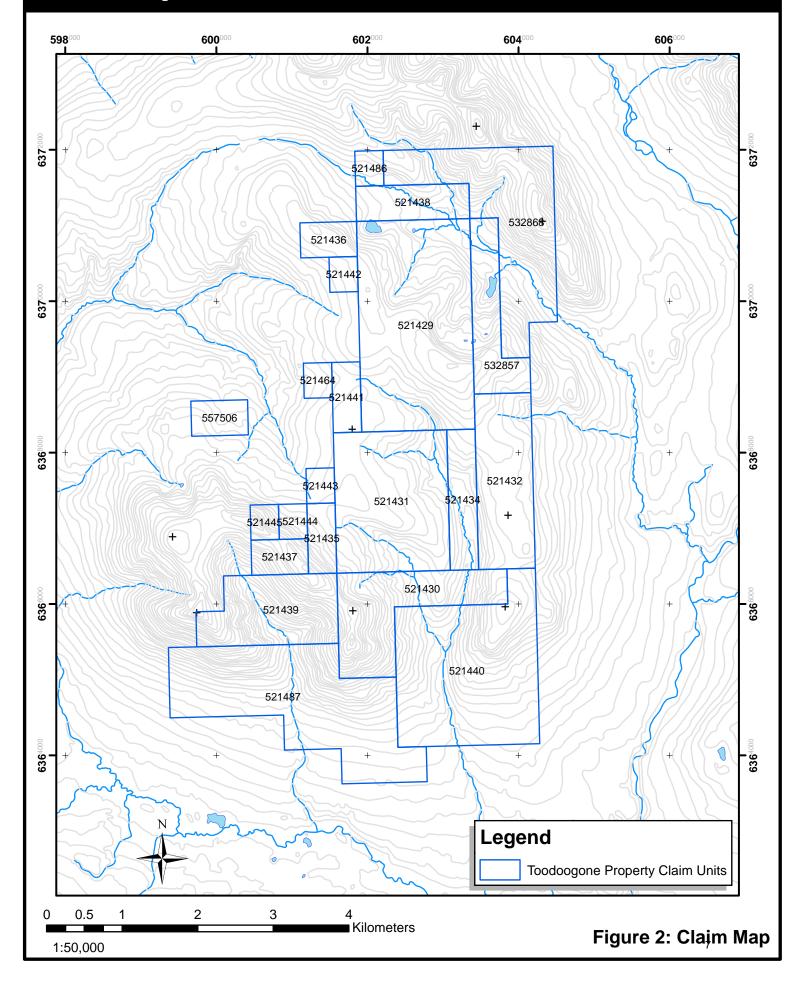
The Met property consists of 20 claims in good standing covering 2734.41 Ha as indicated on Figure 2. They are owned 100% by Paget Resources Corporation (now Pembrook Mining) of 1160-1040 W Georgia St, Vancouver, BC. The claims are currently valid until September 30, October 22, 24, and 25, 2008.

Table 1: Claim Status

		Claim				
Tenure #	Issue Date	Name	Owner	Status	Area	Good-to-date
521429	22-Oct-05	MET 1	201036 (100%)	GOOD	417.78	22-Oct-08
521430	22-Oct-05	CHERRY	201036 (100%)	GOOD	174.24	22-Oct-08
521431	22-Oct-05	MET 2	201036 (100%)	GOOD	278.68	22-Oct-08
521432	22-Oct-05	MET 3	201036 (100%)	GOOD	174.17	22-Oct-08
521434	22-Oct-05	MET 4	201036 (100%)	GOOD	69.67	22-Oct-08
521435	22-Oct-05	MET 5	201036 (100%)	GOOD	34.84	22-Oct-08
521436	22-Oct-05	MET 6	201036 (100%)	GOOD	34.81	22-Oct-08
521437	22-Oct-05	MET 7	201036 (100%)	GOOD	34.84	22-Oct-08
521438	22-Oct-05	MET 8	201036 (100%)	GOOD	69.60	22-Oct-08
521439	22-Oct-05	MET 7	201036 (100%)	GOOD	156.81	22-Oct-08
521440	22-Oct-05	MET 8	201036 (100%)	GOOD	365.97	22-Oct-08
521441	22-Oct-05	MET 10	201036 (100%)	GOOD	34.82	22-Oct-08
521442	22-Oct-05	MET 11	201036 (100%)	GOOD	17.41	22-Oct-08
521443	22-Oct-05	MET 12	201036 (100%)	GOOD	17.42	22-Oct-08
521444	22-Oct-05	MET 13	201036 (100%)	GOOD	17.42	22-Oct-08
521445	22-Oct-05	MET 14 MET	201036 (100%)	GOOD	17.42	22-Oct-08
521464	24-Oct-05	EXT	201036 (100%)	GOOD	17.41	24-Oct-08
521486	25-Oct-05	MET 8-A MET	201036 (100%)	GOOD	17.40	25-Oct-08
521487	25-Oct-05	SOUTH	201036 (100%)	GOOD	366.01	25-Oct-08
532857	21-Apr-06	MET NE MET	201036 (100%)	GOOD	104.44	30-Sep-08
532868	22-Apr-06	EXT 1	201036 (100%)	GOOD	278.43	30-Sep-08
557506	23-Apr-07	MET W	201036 (100%)	GOOD	34.83 <b>2734.41</b>	30-Sep-08



Toodoogone Property Omineca Mining Division

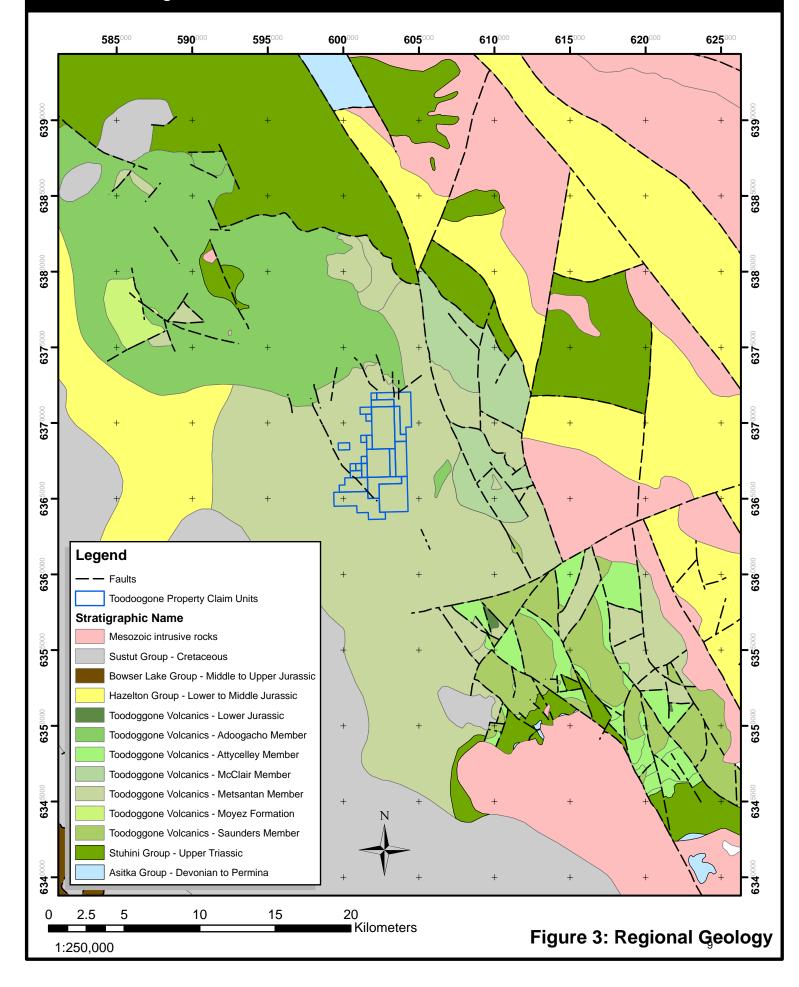


Au. Gold concentration in vein samples ranged from 1.5 to 4.5 gpt Au and 105 - 133 gpt Ag. Rusty, illite-pyrite, rock returned values between 0.4 to 0.88 gpt Au. A single float sampled at the Cirque-Lexim zone contained 11.0 gpt Au and 430 gpt Ag, other samples were not anomalous.

### **Regional Geological Setting**

Mineral deposits in the Toodoggone area are largely related to or hosted by Early to Middle Jurassic volcanics of the Hazelton Group. These rocks unconformably overlie the late Triassic Takla Group mafic volcanics and Permian limestone of the Asitka Group. The Toodoggone Formation was proposed by Daikow et al. (1993). Daikow recognized a belt 90 km long and 15 to 2 km wide underlain by extensive subaerial volcanic rocks of dominantly latite to dacite composition. He proposed dividing the Toodoggone Formation into lower and upper volcanic cycles that could further be divided into six members. The area around the Mets property is underlain by rocks of the lower cycle and dominantly by rocks of the Metsantan Member, consisting of feldspar phyric latite flows and flow breccia with minor interflow laharic deposits and finer grained epiclastic volcanic sediments. K-Ar dating indicated ages from 200 to 197 Ma. The Toodoggone volcanics are bounded to the west by the Sustut basin, a Cretaceous to Paleocoene basin characterized by conglomerate and maroon to green well bedded mudstone to siltstone with interbedded sandstone of probable Albian age. A regional geological map is presented in Figure 3.

Mineral deposits in the Toodoggone River area consist of porphyry occurrences, epithermal vein deposits and quartz barite gold silver bodies associated with high sulphidation alteration. Porphyry deposits include the Porphyry Pearl showing, the Pine showing and, further south, the currently producing Kemess Mine. Epithermal vein deposits have been the most important deposits in the camp. The largest known deposit to date is the Lawyers deposit or Cheni Mine that initiated production in 1989. By the end of 1991 the mine had yielded 499,899 tonnes of ore at 8.6 gpt Au and 190 gpt Ag. Resources remaining in ground consisted of two zones. 279,388 tonnes @ 6.8 gpt Au and The Baker Mine also produced small amounts of ore from the A vein 197 gpt Ag. hosted in the Triassic Takla group volcanic rocks, yielding 77,500 tonnes of ore at 15 gpt Au and 298 gpt Ag between 1981 and 1983. The Shasta deposit was mined from 1989-1991 yielding 106,300 tonnes of ore grading 4.5 gpt Au and 250 gpt Ag. High sulphidation deposits are largely clustered around the north end of the camp adjacent the Met property in an area of roughly 10 km<sup>2</sup> around the Alberts Hump, Thesis and Mets zones. Work by Energex Minerals Ltd up to 1987 indicated a resource of 340,000 tonnes @ 9.6 gpt Au in three zones (Bonanza, BV, and Thesis III). The Mets deposit was reported to contain a resource of 158,000 tons @ 0.338 opt Au in by Golden Rule Resources in 1988. The deposit produced 53,518 tons at 0.339 opt Au in 1992. The Silver Pond deposit showing further south is another high sulphidation showing with a small gold resource of 63,500 tonnes @ 5.83 gpt Au.



#### **Property Geology**

Mapping by Daikow et al (1993) show the Met property to be underlain solely by latite flows of the Metsantan member of the Toodoggone Formation. Along the northwest margin of the claims these rocks are shown to include minor lahric and tuffaceous rocks. Further north near Alberts Hump the underlying tuffaceous rocks of the Adoogacho Member are exposed. A northwest trending fault through the principal showings (Metsantan, Mets, Bonanza) is shown on the maps accompanying the report (see Figures 3 and 4).

Mapping during the 2008 program was very limited and focussed on the mineralized areas. The entire area is underlain by massive green to mauve coloured feldspar phyric rocks with orange to white plagioclase crystals 3-8mm long. These rocks are commonly very massive and lack fragmental textures. Very similar rocks with clear fragmental textures were observed in the outcrops near the Cirque area.

#### Work Completed 2008

The Toodoggone (Met) Property was examined by the author and four other Pembrook employees during the course of a single day in September, 2008. The purpose of the visit was to evaluate the economic potential of the claims with emphasis on mapping and sampling at the Ridge Zone and the on the ridge NW of the North Zone.

Mapping and rock sampling was completed on tenures; 521429,521430, 521437, 521439 and 532857, 532868, 521445, and 521444 (Figures 4, 5, 6, 7, 8). A map of geological observations is presented in Figure 4.

#### Rock Geochemistry

Rock samples were collected from various mineralized zones on the property in order to define the character and location of the better mineralized zones on the property. The samples types vary from selected grab samples of mineralized rock to continuous chip samples across a specific width. Samples were collected in plastic sample bags and sealed with plastic zip ties. Sample locations were recorded by GPS. Samples were shipped to the lab directly from the project area in sealed bags with security tags. Sample locations are marked with flagging tape and embossed aluminum tags.

At the laboratory, the samples were dried crushed and pulverized using standard rock preparation procedures. The pulps were then analyzed for Au using a 30 gram fire assay with AA finish and for 30 elements by ICP. Quality control at the laboratory is maintained by submitting blanks, standards and re-assaying duplicate samples from each analytical batch.

Rock sample descriptions are included in Appendix III and the associated analytical results are in Appendix IV. Rock sample locations for the Main and Cirque Zones are

presented in Figures 5 and 6. Analytical results (Au) for rock samples collected at the Main and Cirque Zones are presented in Figures 7 and 8.

Mineralization and Alteration

A concerted effort was made by two Paget field teams to conduct additional mapping and geological sampling on this remote target. Targets are mooted low sulfidation vein arrays hosted by Jurassic subaerial felsic volcanic rocks. Previous traverse sampling (Marsden, 2006) confirmed the presence of potentially economic grade mineralization at several points along the kilometre long, curvilinear ridge which focused previous exploration efforts.

The 2008 program evaluated most of the known mineralized zones on the property. The area with the most previous work is the Metsantan showing comprising the Ridge, South Silver, North Silver, North and BT zones. These zones all make up a NW trending corridor of localized alteration, veins composed of coarse white coxcomb quartz and structurally controlled, narrow vuggy silica alteration. Alteration around the veins and vuggy silica zones is generally limited to weak to moderate bleaching and iron staining of the volcanics. These are narrow zones, generally less than one metre wide although there are some zones of strong clay pyrite up to several metres wide.

The most significant zones appear to be the Ridge zone, the BT zone, North and North BT Zone.

### Cirque

The Cirque Zone consists is comprised of non-magnetic, pink, feldspar-biotite porhyritic volcanic rocks. Potassic alteration, as noted by previous workers, was not observed. Coarse-grained quartz-pyrite veins with minor iron-carbonate oxide were observed in peripheral talus, a sample returned gold values of 340 ppb. Boulders of quartz-mudstone-porphyry conglomerate were also noted in the area.

### **Camp Zone**

Deteriorating core racks were inspected at the camp zone. Two samples were collected from the DDH 88-7 including one sample of grey vuggy-textured quartz and one sample of clay-pyrite altered volcanic rock. The samples returned gold values of less than 100 ppb; volatile elements are slightly elevated (232-329 ppm Sb, 27-208 ppm As).

#### North Zone

A traverse of the ridge trending northwest from the North Zone revealed a number of trenches and patches ( $\leq 5m^2$ ) of white clay-altered (argillic) volcanic rocks. Open space fill silica, quartz vein, and pyrite-illite alteration were sampled along the dozer track and

in trenches and returned anomalous gold values up to 441 ppb. A single sample of structurally controlled silica/silicification returned a gold value of 1.46 gpt. The silica was observed adjacent to relatively unaltered volcanic rocks. Silica zones are oriented west to southwest and dip steeply to the north. Vuggy textured blocks were observed peripheral to some trenches.

#### **Ridge Zone**

The Ridge Zone occupies the extreme southern end of the system and was not previously sampled by Paget. Shallow hand dug trenches explore multiple zones of narrow, anastamosing quartz veinlets hosted by a crowded k-feldspar porphyritic rhyodacitic volcanic unit. Individual veinlets display comb quartz and locally drusy textures indicative of open space fillings; veinlet arrays trend approximately 010 and dip very steeply westwards. Stockwork or ladder vein arrays are locally conspicuous. Vein fill and immediate wall rocks contain up to 3% fine grained pyrite. Individual vein arrays range to 2.5m in width and are enclosed by visually barren, propylitic altered volcanic rock. Historic drill pads were identified around three sides of the Ridge Zone knob and record clear attempts to drill the target from different directions. Five drill holes were drilled in 1982. Results were not reported and are presumed to be insignificant. Failure to intersect grades and widths of mineralization equivalent to those obtained in trenches suggests discontinuity in the vein system rather than failure to drill from an appropriate platform with appropriate hole direction.

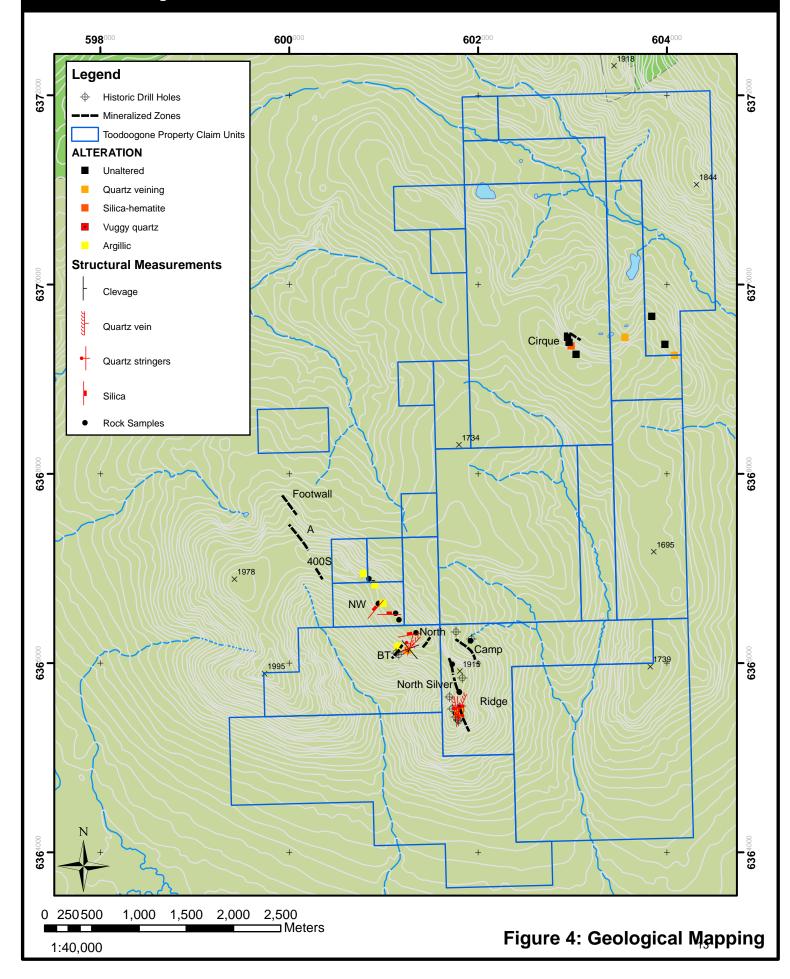
#### **Cenral and BT Zones**

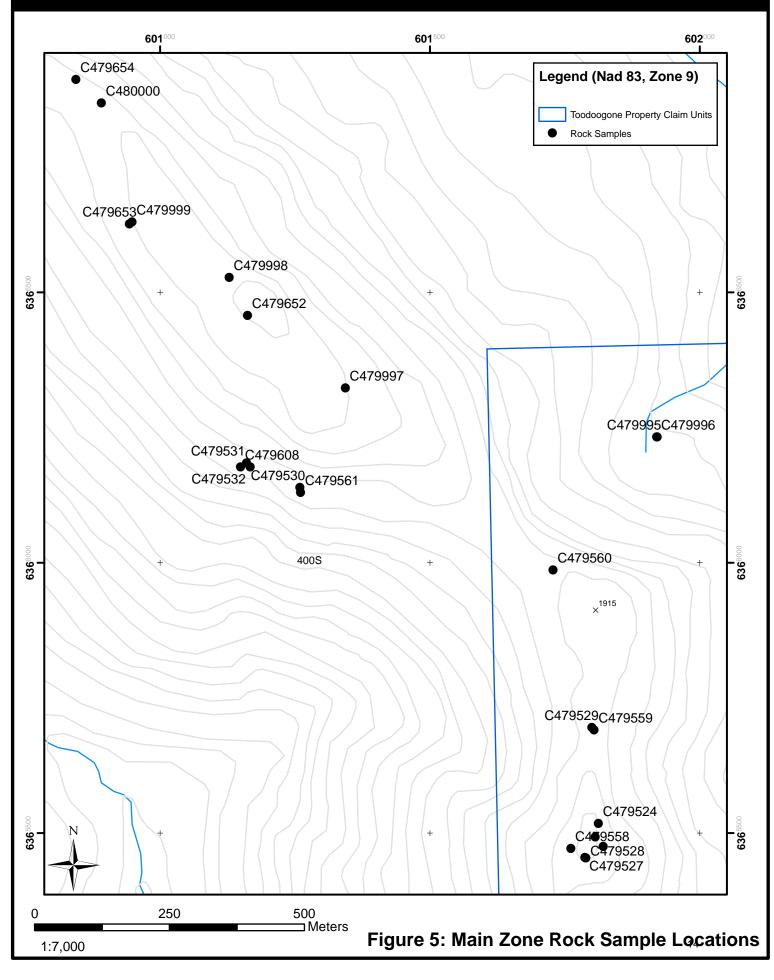
Although less well exposed, similar, narrow veins and areas of sulfidized wall rock were observed and sampled in the Central Silver and BT zones. The traverse ended down slope of BT in an area with multiple historic Au-in-soil anomalies. We encountered only fresh volcanic rock and poorly developed, un-mineralized regolith in this area, and the anomaly remains unexplained.

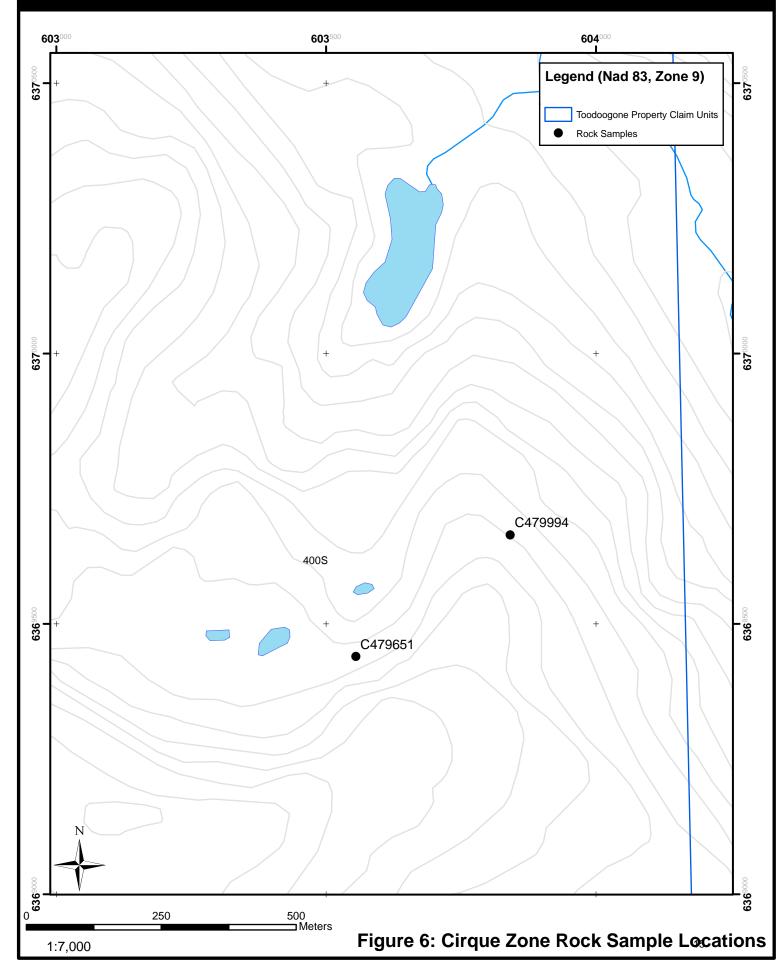
#### Conclusions

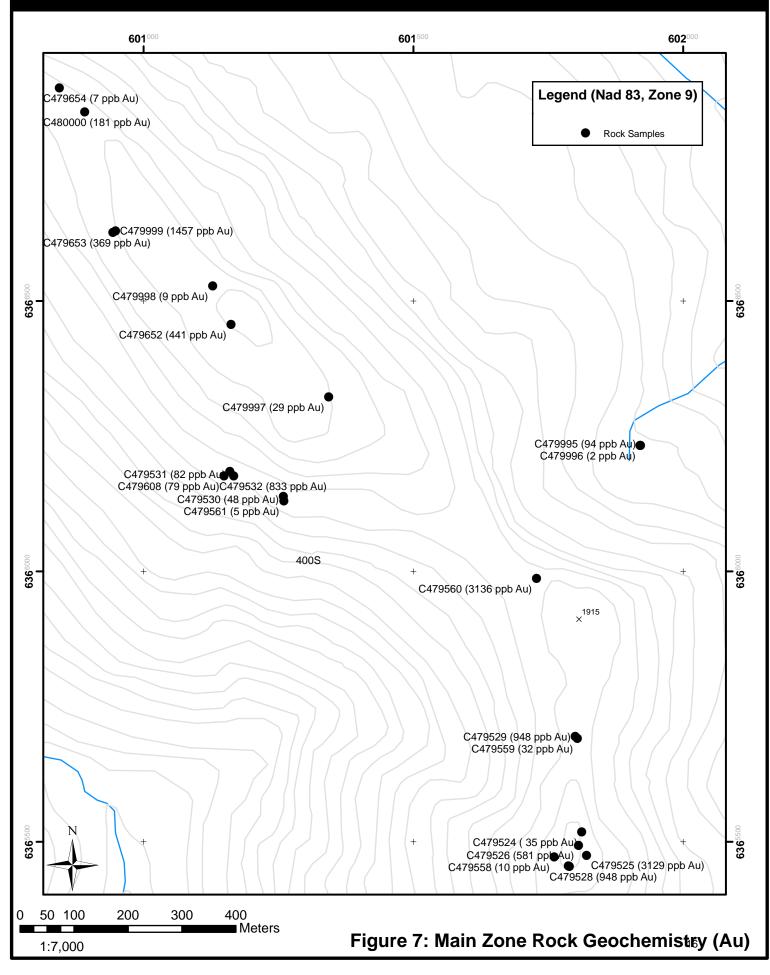
Previous explorations programs have been unable to expand know surface mineralization with diamond drilling. Field mapping did not identify targets that have not already been sufficiently tested at depth.

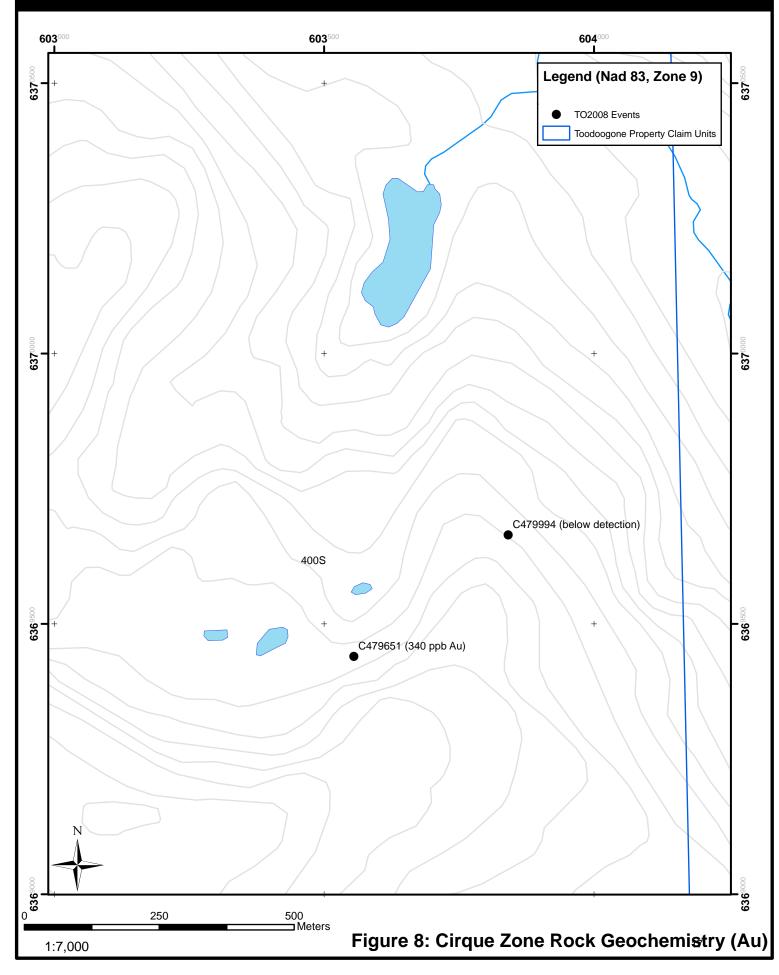
Assay results confirm anomalous Au, base metals and Ba mineralization within narrow veinlets and veinlet stringer zones. The highest Au values are in the 3 g/t range. The absence of high grade Au mineralization, the remote location, and past exploration failures suggests no further work is warranted.











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Appendix I Statement of Qualifications

#### STATEMENT OF QUALIFICATIONS

I, Michael W. A. Hocking, of 77 Charlotte St., Ottawa, ON do hereby certify that:

- 1. I am currently an employee of Pembrook Mining Corporation
- 2. I graduated with a BSc. degree in Earth Sciences from Laurentian University in 2003. In addition, I have obtained a MSc, in Earth Sciences from The University of Ottawa in 2007.
- 3. I have worked as a geologist for a total of five years since my graduation from university.
- 4. I have prepared the attached report for assessment work credit.

Dated this 30th Day of September, 2008

Signature of QP

Name: Michael W. A. Hocking Address: 77 Charlotte St., Ottawa, On, K1N 8J9 Phone (613) 241-5464 Appendix II Statement of Costs

Item	Name Date	#	Cost	Split	Item sub-total		Comment
TOODOGGONE WORK COSTS							
Geological - salaries and wages	Craig Bow 24-Jul Mike Hocking 24-Jul Chris Leslie 24-Jul Chris Amy 24-Jul Quinn Harper 24-Jul	1 1 1 1	450 325 250		660 450 325 250 225	1910.00	
Food & Accommodation: on-site	Camp Food	man-days 10 10	95		950 750	1700.00	
Report	Preparation Materials, maps, binding, copying	days 4 1			2400 50	2450.00	
Geochemical	Rock sample assays Freight	25 1			750 88	838.00	minimum charge Smithers-Vanc
Vehicle	Truck rental Mileage	2 0			160 0	160.00	2400/month = 80/day Since I have no idea of the actual fuel costs for the t I used 0.25/km.
MOB/DEMOB COSTS							
Food & Accommodation: travel to/from site	Hotel Food	man-days 19 19	100	6 3		918.33	4 days travel to Ball Creek for our guys, 3 for Craig Split 3 ways - Lucifer, Ball Creek and Toodoggone
	Air travel CB	1	1485.35	3	495	495.12	
Wages: travel to/from site Denver to Ball Creek camp Vancouver to Ball Creek camp	Craig Bow Mike Hocking Chris Leslie Chris Amy Quinn Harper	days 3 4 4 4 4	450 325 250	3 3 3 3 3 3	600 433 333		
Vehicle	Truck rental Mileage	4 3400	80 0.25	3		2326.67	
	micaye	3400	0.25	3	203	390.00	
Transportation on-site - Helicopter			SUBTOTAL	. work/m	ob-demob[	11188.12	
	Pacific Western SUBTOT Allowable h	3.1 FAL helicop elicopter c		1.05 mum of 5	4508	4508.18	
			Assess	ment wor	k to claim:	15696.29	

Appendix III Rock Sample Descriptions

Sample Project	Area	Geo	UTM E	UTM N	Туре	Width (m)
C479524 Toodoggone	Ridge	СВ	601812	6365518	chip	1.5
C479525 Toodoggone	Ridge	СВ	601821	6365475	chip	1.5
C479526 Toodoggone	Ridge	QH	601806	6365493	grab	
C479527 Toodoggone	Ridge	СВ	601787	6365455	chip	2
C479528 Toodoggone	Ridge	СВ	601789	6365454	chip	0.7
C479529 Toodoggone	<b>Central Silver</b>	СВ	601800	6365695	grab	
C479530 Toodoggone	BT	СВ	601259	6366139	chip	2
C479531 Toodoggone	BT	СВ	601160	6366185	chip	0.5
C479532 Toodoggone	BT	СВ	601167	6366177	grab	
C479558 Toodoggone	Ridge	QH	601761	6365472	Grab	
C479559 Toodoggone	Ridae	QH	601804	6365691	Grab	
C479560 Toodoggone	-	QH		6365987		
C479561 Toodoggone	-	QH	601260	6366130	Grab	
C479608 Toodoggone	-	CA	601149	6366177	Chip	1
C479651 Toodoggone		CL	603555	6369440	Grab	
C479652 Toodoggone	North	CL	601162	6366457	Grab	
C479653 Toodoggone	North	CL	600943	6366627	Grab	
C479654 Toodoggone	North	CL	600844	6366894	Grab	
C479994 Toodoggone	Cirque	MH	603841	6369665	talus	0
C479995 Toodoggone		MH	601921	6366233	core	0
C479996 Toodoggone	Camp	MH	601920	6366233	core	0
C479997 Toodoggone	NW	MH	601343	6366323	talus	0
C479998 Toodoggone	NW	MH	601128	6366528	talus	0
C479999 Toodoggone	NW	мн	600948	6366630	chip	1
C480000 Toodoggone		MH			trench dump	5

#### Sample Sample Description

- C479524 Sheeted quartz vienlets, oriented 190, in massive rhyodacite; open space fill textures; tr-1% diss py
- C479525 As above; wall rocks epidote altered
- C479526 Quartz feldspar intrusive with veins, as c479524
- C479527 Sheeted qtz-pyrite vnlts oriented 355 in rhyodacite
- C479528 Sulfidized, Si-py flooded footwall to sample 479527
- C479529 float block with quartz-pyrite flooding
- C479530 qtz stringer zone on 015/85W; localized lim after py
- C479531 weakly silicified, argillic altered fragmental rhyodacite
- C479532 Strong qtz (barite?) vein float from dozer push
- C479558 Trench. Same quartzofeldspathic intrusive as above.
- C479559 Trench. Same quartzofeldspathic intrusive as above with vuggy qtz veining and sulfide mineralization. Goethite??
- C479560 Outcrop. Quartzofeldspathic intrusive with associated Qtz. Stringers with <1% sulfide mineralization.
- C479561 no description, trench sample, celvage 140/50. 070/88
- C479608 Heavily bleached county rock. White argilic alteration producing chalky sericite w/ light oxidation.
- C479651 from talus, silica +/- pyrite altered, minor qtz flooding
- C479652 from subcrop, fracture/void qtz infil, no evident mineralization
- C479653 from E-W trending trench, small 1m zone of silica/argillic + pyrite alteration
- C479654 from SE-NW trending trench, local zone of pyrite + pink (allunite?) clay alteration
- C479994 small cobble, fg sillica laminated, sinter like
- C479995 ddh b88-7 bx18 408-422td ~1m of core, mixed vuggy textured silica
- C479996 ddh 88-7 b13 288.7-311.2, argillic clay+/- silica, disseminated pyrite assorted sample
- C479997 argillic, silica veinlets, some msv silica, zone is ~ 10m striking 260, volcanic peripheral to zone
- C479998 talus rubble-crop on ridge 1x6m msv silica, sugary, trending n-s

C479999 1.4 m zone silica w/ clay relic feldspars, oriented 220/80 wallrock barley altered, green chloritic rock, not argillic, trench trends 280 degrees C480000 5m composite sample, coarse grained open space fill quartz, locally volcanic breccia texture, porous host

Sample	Weight	Au	Мо	Cu	Pb	Zn	Ag	Ni	Со	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	Р
	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
C479524	2.32	35	10	25	826	384	1.2	2	6	1807	3.55	51	-20	-4	6	197	2	-5	-5	84	0.82	0.07
C479525	2.15	3129	-2	16	309	861	1.9	-2	8	2257	3.4	9	-20	-4	6	161	4.2	-5	-5	90	0.44	0.067
C479526	2.94	581	-2	16	1048	1443	0.8	-2	8	2151	3.48	8	-20	-4	4	143	2.1	-5	-5	92	0.53	0.065
C479527	2.02	3157	-2	9	480	1228	1.8	3	8	2482	3.53	-5	-20	-4	4	208	5.8	-5	-5	81	0.72	0.068
C479528	2.55	948	-2	202	452	589	3	2	6	1748	3.19	12	-20	-4	5	178	2.6	-5	6	82	0.42	0.068
C479529	1.35	963	13	99	1171	978	13.2	5	6	1198	2.51	14	-20	-4	-2	21	5.4	8	-5	54	0.03	0.021
C479530	2.53	48	14	28	101	265	7.8	-2	10	2362	4.18	32	-20	-4	3	140	2.3	-5	-5	124	0.33	0.078
C479531	1.23	82	-2	74	52	266	21.8	2	10	1882	4.01	56	-20	-4	5	91	1.4	-5	-5	160	0.1	0.071
C479532	1.42	833	4	32	48	11	1.5	3	-2	143	0.84	-5	-20	-4	-2	18	-0.4	13	-5	5	0.02	0.008
C479558	2.87	10	-2	3	-5	82	-0.5	2	9	1705	3.89	7	-20	-4	4	178	-0.4	-5	-5	93	0.68	0.081
C479559	3.18	32			123	379	1.8	3	11	1631	3.53	12	-20	-4	5	146	4.1	-5	-5	90	1.15	0.081
C479560	2.23	3136	-2	67	103	1067	5.5	3	16	2979	6.08	-5	-20	-4	4	142	14.6	-5	-5	120	0.28	0.066
C479561	2.19	5	12	118	-5	20	0.6	2	5	292	9.07	13	-20	-4	-2	449		11	-5	150	0.62	0.109
C479608	2.33	79	9	31	67	130	6.6	3	-	305	4.03	23	-20	-4	6	230	0.6	-5	-5	134	0.08	0.097
C479651	1.64	340	-2	13	11	44	29.3	2	4	267	1.61	-5	-20	-4	_	137	0.5	17	-5	80	0.11	0.039
C479652	1.53	441	2	6	145	38	8.9	-2	-2	151	1.54	12	-20	-4	-2	50	-0.4	15	-5	34	0.04	0.035
C479653	1.4	369			442	165	69.2	4	5	127	2.48	111	-20	-4	-2	19		21	7	73	0.07	0.031
C479654	1.65	7	-2		8	34	1.5	-2		187	2.64	-5			5	152	-0.4	5		122	0.11	0.052
C479994	0.26				21	48	-0.5	3		276	0.68	-5	22			1581	-0.4	-5		3		0.005
C479995	1.18	94	14		110	-2	6.1	-2	-2	27	0.46	27	-20	-4	-2	472		232	13	37	0.02	0.027
C479996	1.38	2	5	438	190	21	3.7	-2		-5	2.46	208	-20	-4	5	1672	-0.4	329	-5	192	0.02	0.085
C479997	1.59	29			80	303	2.9	-2	6	347	3.38	61	-20	-4	3	95	1	8	-	104	0.03	0.063
C479998	1.96	9	7	3	16	9	1.1	3	-2	70	0.8	7	-20	-4	-2	50	-0.4	25	-5	43	0.07	0.012
C479999	2.04	-	7	45	175	129	58.2	5				98		-4		20				42		
C480000	2.56	181	-2	30	120	163	7.7	3	6	712	2.37	44	-20	-4	-2	52	0.5	6	-5	66	0.04	0.039

Sample	La	Cr	Mg	Ва	Ti	AI	Na	κ	W	Zr	Sn	Y	Nb	Ве	Sc
	ppm	ppm	ppm	ppm			ppm		ppm	ppm		ppm	ppm	ppm	ppm
C479524	15	5	1.15	1400	0.3		1.14	4.55	-4	44	-2	11	5	-1	11
C479525	12	5	1.19	1877	0.27	6.48	0.91	5	-4	45	-2		4	-1	10
C479526	14	4	1.28	1882	0.27	6.44	0.72	5.42	4	43	2	12	4	-	10
C479527	16	4	1.23	2019	0.29		1.22	4.8	5	45	-2		5	-1	10
C479528	10	3	0.93	1803	0.3		0.56	5.92	-4	• •	3	10	5	-1	10
C479529	4	17	0.02	325	0.06	1.35	0.03	1.02	-4	12	4	4	-2	-1	5
C479530	11	4	1.22	1282	0.34		1.08	4.79	-4	47	-2	13	4	-1	12
C479531	11	9	0.66	1253	0.33	6.64	0.08	5.41	4		3	13	5	1	14
C479532	-2	8	0.01	153	0.01	0.78	0.01	0.4	-4	2	-2	-2	-2	-1	-1
C479558	30	4	1.03	2017	0.32	8.08	1.17	5.88	-4	47	-2	29	5	-1	12
C479559	16	4	0.21	1522	0.33			6.18	10		-2	17	5		12
C479560	13	5	0.48	763	0.34			5.58	-4		-2	12	5	-1	13
C479561	3	6	0.71	256	0.4		4.13	1.15	-4		2	4	4	-1	8
C479608	15	3	0.16	1590	0.41	7.91	0.1	4.49	6	-	-2	11	6		14
C479651	4	10	0.1	842	0.14		0.05	3.11	-4		-2	5	-2		5
C479652	13	8	0.14	732	0.11	2.81	0.05	2.74			-2	-	2		3
C479653	5	41	0.07	95	0.29	2.63	0.04	1.08	6	46	-2	6	5	-1	6
C479654	7	4	0.33	1469	0.43		1.76	4.48	-4	-	-2	-	7	-1	14
C479994	24	-2	0.24	3666	0.05	6.19	0.62	1.65			5	21	32	4	-
C479995	4	14	-0.01	1281	0.32		0.01	0.03	6		-2	2	4		3
C479996	15	3	-0.01	468	0.36	7.78	0.01	0.03	10		-2	3	5	-1	7
C479997	10	4	0.03	971	0.32		0.08	5.46	11	52	-2	11	4		11
C479998	6	8	0.07	570	0.1	2.18	0.04	2.12	10	14	-2	4	-2	-1	4
C479999	5	22	0.03	98					-4	•••	3	7	5		4
C480000	8	6	0.47	950	0.17	4.4	0.12	4.77	5	23	-2	7	3	-1	6

Appendix IV Analytical Certificates

				Client:	Pembrook Mining Corporation 1160-1040 W. Georgia St. Vancouver, B.C. V6E 4H1 Canada	poration
1021 Pho	Phone (604) 253-3158 Fax (604) 253-1716	ABORATORIES LTD.		Submitted By: Receiving Lab: Received:	John Bradford Canada-Smithers July 28, 2008	
		www.acmelab.com		Report Date: Page:	September 23, 2008 1 of 5	
(OHRI	FICALIE OF ANALYSIS					6(59).2
CLIENTJC	ENT JOB INFORMATION	SANPLEPRE	PARATION	SAMPLE PREPARATION AND ANALYTICAL PROCEDURES	ROCEDURES	
Project:	Ball Creek	Method	Number of	Code Description	Test	Report
Shipment ID:		Code	Samples		Wgt (g)	) Status
P.O. Number		R150	103	Crush, split and pulverize rock to 200 mesh	to 200 mesh	
Number of Samples:	ples: 103	3B	103	Fire assay fusion Au by ICP-ES	S 30	Completed
CANDIE DICOCON		1ED	103	4 Acid digestion ICP-ES analysis	sis 0.25	Completed
		G6 Grav	<del>~~</del>	Fire assay Au by gravimetric finish	nish 30	Completed
STOR-PLP	Store After 90 days Invoice for Storage	7TD	*	4 Acid digestion ICP-ES analysis	sis 0.5	Completed
DISP-RJT	Dispose of Reject After 90 days	ADDITIONAL	COMMENT			
Acme does not a days without price	Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.	Version 2: Group 6 Au Grav & 7TD Cu included	Au Grav & 7TD (	Du included		

Invoice To: Pembrook Mining Corporation 1160-1040 W. Georgia St. Vancouver, B.C. V6E 4H1 Canada

CC: B. Booth

Nigel Luckman



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reforence only. All results are consistered the confluential property of the client. Acme assumes the liabilities for actual cost of analysis only.

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	1020 Cordova St. East Vancouver BC V6A 4A3 Canada		(6A 4A3	ACME AI Canad	NALYTIC, Ia	ACME ANALYTICAL LABORATORIES LTD 3 Canada	RATORIE	S LTD.			_ ***	Project: Report Date:	ate:	ٽٽ ٽ	Bail Creek September	Bail Creek September 23, 2008				
Phone (604) 253-3158	53-3158 Fax (60	Fax (604) 253-1716	716			www.	www.acmelab.com	b.com			1.4	900 00		~	a of f		-			
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C479517	Rock	1.71	56	Ŷ	181	512	1261	0.7	: . च	ç	1277	2.46	25	<20	44	Ş	202	6.5	2	S
C479518	Rock	2.12	10	\$	87	26	328	<0.5	c)	ç	1054	2.52	16	<20	4	e	271	1.8	12	55
C479519	Rock	2.07	58	4	21	91	316	0.8	£	Q		3.03	19	<20	4	4	165	1.6		<5
C479520 C470524	Rock	2.01	57	25	54	52	158 20	6.0 0	ଟ୍	4		4.10	59	20 5	4.	∾ '		1.1		Ω γ
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C479523	Rock	2.59	15	i Q	<u>o</u> 0	\$	5 8	<0.5 <0.5	ი ო			4.10	2 <u>7</u>	9. Ş	৾৾৾৾৾৾	, 6		t.o.	°.rô	: مارچ
C479552	Rock	4,74	34	\$	221	154	531	1.3	14			8.00	17	<20	4	\$		2.8	<5	<5 393
C479553	Rock	2.67	26	\$	280	31	599	1.6	4	23	4069	7.78	35	<20	4	22	120	1.8	10	7 435
C479554	Rock	3.02	3108	5.	152	3367	8546	4.3	5	20		6.23	32	<20	₹.	<2	362 5	51.6	10	ŝ
C479555	Rock	5.38	8	8	<u>4</u>	45		<0.5	2			3.60	<u>5</u>	<20	4	Q		<0.4		5
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C479528	Rock	2.55	948	ů	202	452	589	3.0	8	G	1748	3.19	12	<20	4	ŝ	178	2.6	v 2	Ð
C479529	Rock	1.35	963	13	66	1171	978	13.2	с Э	ç	1198	2.51	4 4	<20	4	8	21	5.4	8	\$5
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C479531	Rock	1.23	82	₽.	74	52		21.8	8	10	1882	4.01	56	<20	4	ഹ	91	1.4	<5 5	с,
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This report suparcedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates that approval, preliminary reports are unsigned and should be used for reformed only

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