

**2006 GEOCHEMICAL, PROSPECTING AND TRENCHING REPORT
BROOKMERE PROPERTY**

**(Tenure Nos. 522487-522488, 522892-522894, 525027,
525029-525050, 525072-525076, 525078-525081)**

**Nicola and Similkameen Mining Divisions, British Columbia
NTS: 92H/10, 92H/15; BCGS: 092H/066, 067, 076, 077, 086, 087
Longitude 120°50'24.248" W, Latitude 49°46'10.453" N
UTM Zone 10: 650530m E, 5515250m N (NAD83)**

March 2007

(BC 2006 ASSESSMENT)

by

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and

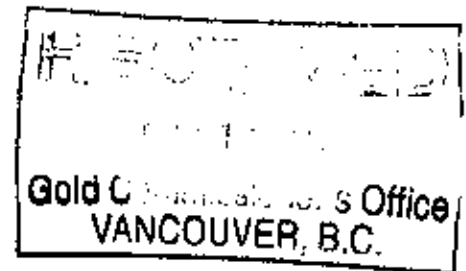
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for

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and

Owner: Almaden Minerals Ltd.
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GEOLOGICAL SURVEY BRANCH
REPORT

2007-03

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1 Introduction

This report describes the results of exploration work conducted during 2006 on the Brookmere claims to substantiate the related expenditures applied for assessment credits.

1.1 Location, Physiography and Access

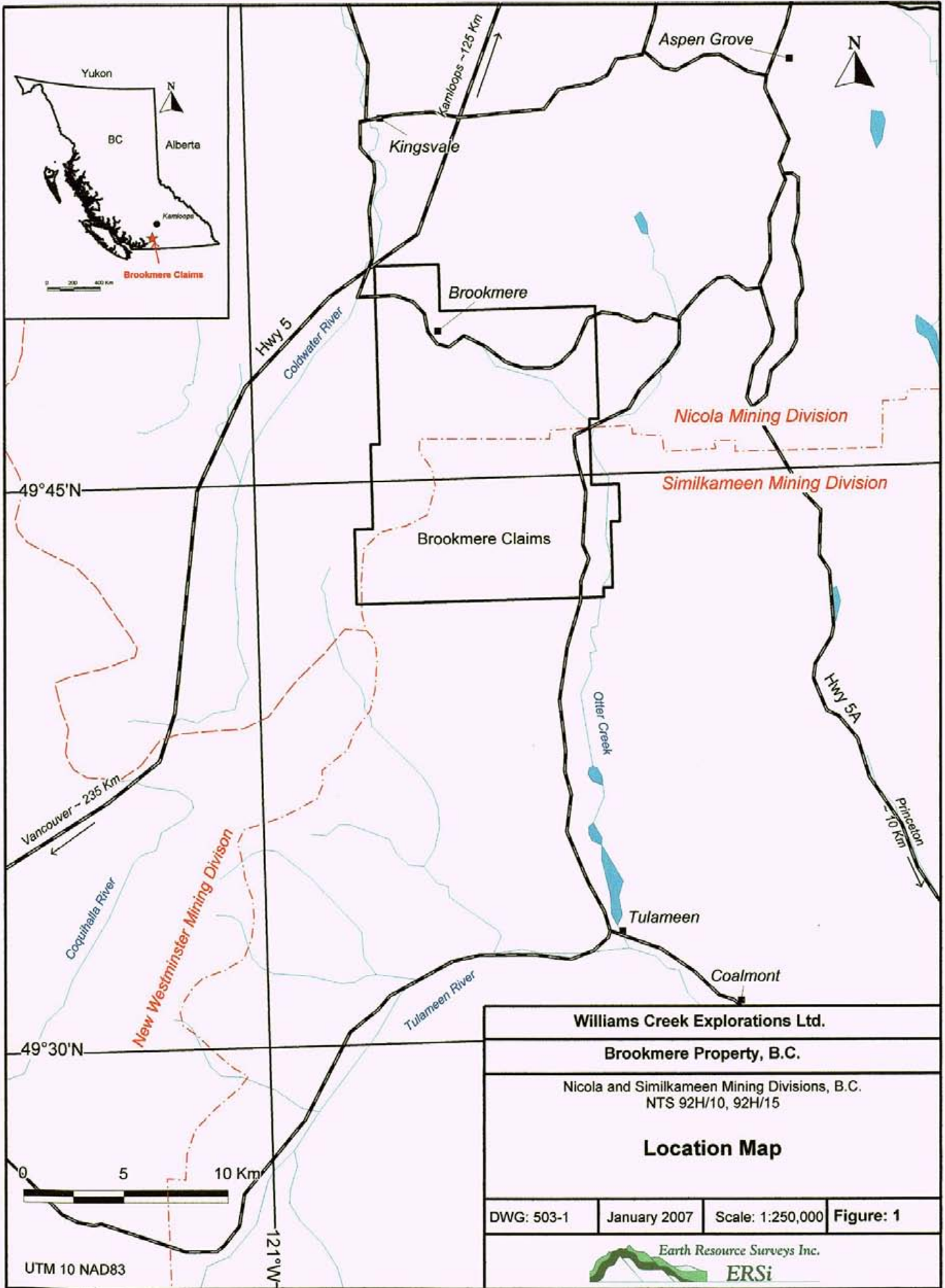
The Brookmere property is located in southern British Columbia east of Highway 5 surrounding the village of Brookmere and is centered at longitude 120°50'24" W and latitude 49°46'10" N (UTM Zone 10, 650530m E, 5515250m N, NAD83). The property straddles NTS map sheets 92H/10 and 92H/15 and also the Nicola and Similkameen Mining Divisions, Figure 1. From the northwest corner of the property, near Highway 5, it is approximately 235km to Vancouver and 125km to Kamloops. The claims are easily accessible from the north and east by the road through Brookmere to Tulameen along the route of the Kettle Valley Railway line. A network of logging roads, Figures 2 and 3, permit access to much of the property.

The area lies within the Thompson Plateau, a gently rolling upland of low relief, for the most part lying between 1200 and 1520m, but with prominences of more resistant rock rising above it. A good example of the latter is Mount Thynne in the southwest corner of the property at 2020m elevation. The lowest elevations on the claims are along the Otter Creek valley on the east, about 900m asl.

The major drainages are Spearing Creek in the north-central part of the property, Otter Creek along the eastern side of the property, McPhail Creek in the central part of the property and Brook Creek in the northwest-central part of the claims. The lower portions of Brook and Spearing Creeks lie in a prominent northwest-southeast trending topographic lineament. Otter Creek lies in a prominent north-south trending topographic lineament.

As can be seen in Figure 2, a Landsat natural color composite acquired August 1, 1999, much of the area south of the Brook Creek – Spearing Creek valley has been logged. The remaining forest patches consist of fairly open stands of pine and fir. The northwest side of the Brook Creek – Spearing Creek valley lacks forest cover, with a variety of grasses and deciduous growth.

The drainage pattern shows evidence of being controlled by bedrock structures; namely the north-northeast trending major drainages like McPhail Creek and the Coldwater River valley to the west and the north-south Otter Creek valley. Other basement fracture sets are implied by numerous northwest trending and north-northeast drainage segments.



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Brookmere Property, B.C.

Nicola and Similkameen Mining Divisions, B.C.
NTS 92H/10, 92H/15

Location Map

DWG: 503-1

January 2007

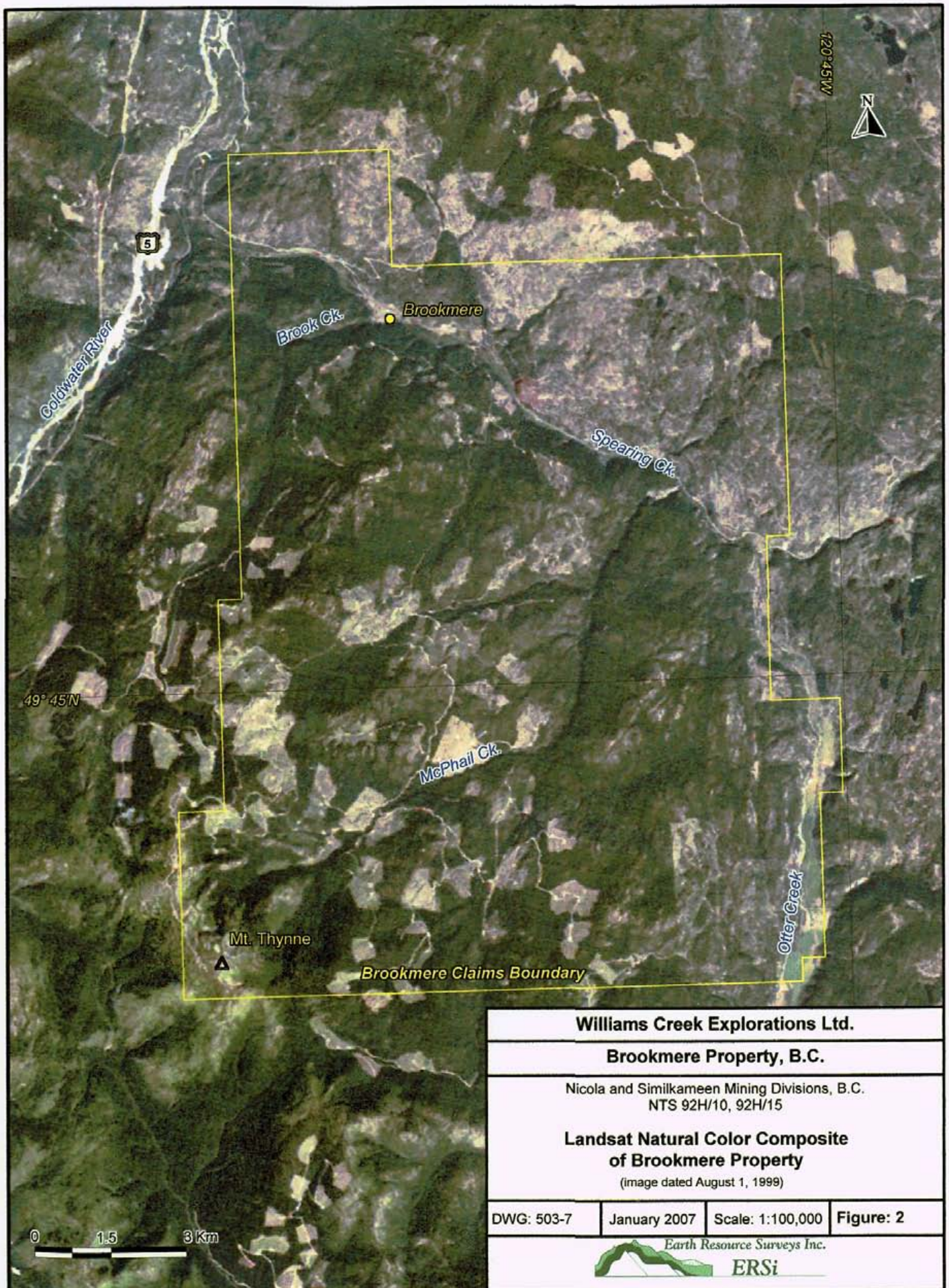
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Figure: 1

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NTS 92H/10, 92H/15

**Landsat Natural Color Composite
of Brookmere Property**

(image dated August 1, 1999)

DWG: 503-7

January 2007

Scale: 1:100,000

Figure: 2

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1.2 Description of Claims

The property consists of 37 contiguous mineral claims with an aggregate land area of 17,113.67 hectares, about 171km². The locations of the claims are shown in Figure 3 and the respective claim data are listed in Table 1. All of the claims are owned by Almaden Minerals Ltd. and held under an option agreement with Williams Creek Explorations Ltd., the current operator.

The initial claims (EZ 1 to 7) were acquired in November of 2005 with claims EZ 8 to 37 being acquired in January of 2006.

Table 1. Claim particulars

Name	Tenure_No	Cells	Area (ha)	Expiry_Date
EZ 1	522487	25	520.967	2007/12/31
EZ 2	522488	24	500.217	2007/12/31
EZ 3	522892	20	416.920	2007/12/31
EZ 4	522893	24	500.322	2007/12/31
EZ 5	522894	25	521.341	2007/12/31
EZ 6	525027	24	500.451	2007/12/31
EZ 7	525029	24	500.451	2007/12/31
EZ 8	525030	16	333.614	2007/10/20
EZ 9	525031	13	271.125	2007/10/20
EZ 10	525032	24	500.642	2007/10/20
EZ 11	525033	25	521.655	2007/10/20
EZ 12	525034	24	500.707	2007/10/20
EZ 13	525035	24	500.707	2007/12/31
EZ 14	525036	24	500.707	2007/12/31
EZ 15	525037	24	500.921	2007/10/20
EZ 16	525038	12	250.460	2007/10/20
EZ 17	525039	24	500.962	2007/10/20
EZ 18	525040	25	521.856	2007/10/20
EZ 19	525041	19	396.547	2007/10/20
EZ 20	525042	25	522.030	2007/10/20
EZ 21	525043	20	417.591	2007/10/20
EZ 22	525044	25	521.989	2007/10/20
EZ 23	525045	24	501.306	2007/10/20
EZ 24	525046	24	501.306	2007/10/20
EZ 25	525047	24	501.305	2007/10/20
EZ 26	525048	24	501.480	2007/10/20
EZ 27	525049	24	501.480	2007/10/20
EZ 28	525050	24	501.479	2007/10/20
EZ 29	525072	24	500.365	2007/10/20
EZ 30	525073	24	500.621	2007/10/20
EZ 31	525074	21	438.285	2007/10/20

Table 1 (continued)

Name	Tenure_No	Cells	Area (ha)	Expiry_Date
EZ 32	525075	18	375.852	2007/10/20
EZ 33	525076	25	522.212	2007/10/20
EZ 34	525078	15	313.436	2007/10/20
EZ 35	525079	20	417.607	2007/10/20
EZ 36	525080	25	522.212	2007/10/20
EZ 37	525081	14	292.538	2007/10/20

1.3 Previous Work

There are no published records of any prior mineral exploration in the area covered by the Brookmere property and there are no documented mineral occurrences on the claims in the BC Minfile database. There are no assessment reports listed in the BC ARIS database that fall within the Brookmere property as of January 1, 2007.

In 1981 a federal-provincial government Regional Geochemical Survey was carried out over the entire Hope (NTS 92H) map sheet. The initial results of this survey were published in 1982 as BC RGS 7/GSC Open File 865. In 1994 archived sediment pulps were re-analyzed by instrumental neutron activation (INAA) and this new data along with the original survey results were re-published in 1994 as BC RGS 39/GSC Open File 2665 which identified five low to moderate (4 to 8ppb Au) gold in silt anomalies on drainages in and proximal to what is now the Brookmere property.

2 2006 Exploration Program

An initial program of high density stream sediment sampling was carried out during July and August of 2006 by Almaden personnel (Mr. E. Balon) and two contract workers. A total of 225 sediment samples were collected and shipped to ACME Analytical Laboratories in Vancouver, B.C. for 36 element geochemical analysis by the ICP-MS method. This number includes five field duplicate sediment samples. Reconnaissance prospecting conducted concurrently with the sediment sampling generated 8 rock grab samples and located a banded quartz vein float occurrence (sample K-R34) about 2.8 km southwest of Brookmere in the mid section of Brook Creek.

A follow-up program consisting of detailed prospecting and sampling of anomalous drainages ran from September 30th to the end of October, 2006. This work generated an additional 9 stream sediment samples, 47 rock grab samples, and 9 bedrock chip samples. A zone of alteration and quartz vein breccia mineralization was located in the northwest corner of the property about 3.5

km northwest of Brookmere and about 4.9 km north-northeast of the banded quartz vein float occurrence.

Hand trenching was performed at this zone on the north margin of the claims where five continuous chip samples were taken. Four other continuous chip samples were collected from outcrops near the trench site. Mr. E. Balon, as Almaden's employee, conducted and supervised the exploration efforts. All UTM grid locations were recorded in NAD83 using Garmin 12XL or Map 76 handheld GPS receiver units.

3 Geologic Setting

3.1 Regional Geology

The regional bedrock geology is shown in Figure 4, covering part of the southern Intermontane Belt of the Canadian Cordillera. It was compiled and simplified from the Digital Geology Map of British Columbia, Geological Survey Branch Open File 2005-2, compiled by Massey et al, 2005.

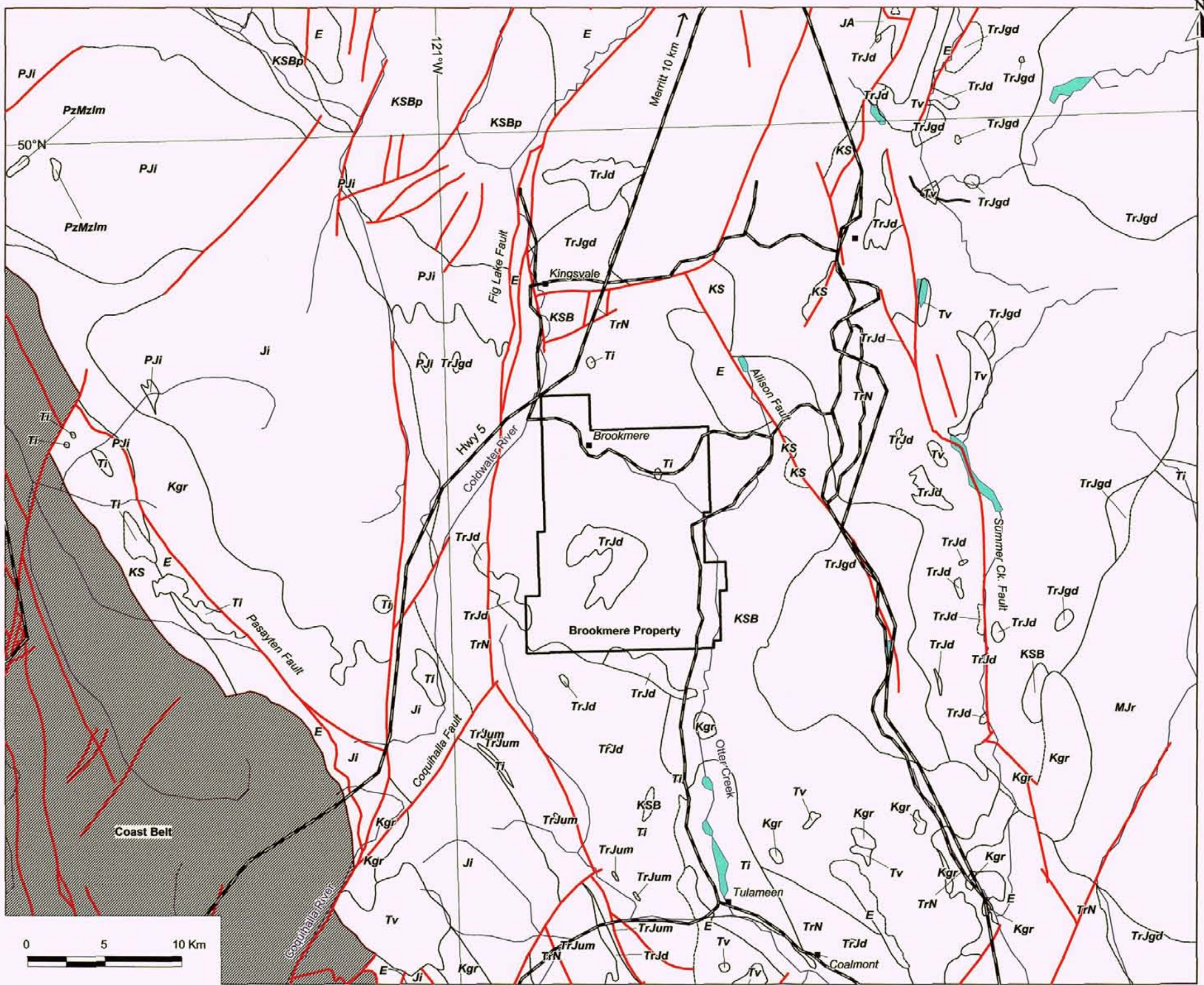
Lithologies within Figure 4 map area, east of the Coast Belt, include successions of predominantly Mesozoic to Tertiary volcanic and sedimentary rocks which have been intruded by plutons of various compositions and ages from Permian to Miocene. Locally thick deposits of Pleistocene and Recent glacial drift and alluvium are commonly found in all of the major creek and river valleys. Much of the region was covered during the last Pleistocene glaciation by ice moving almost due south in the vicinity of the Brookmere property.

The dominant rock assemblage underlying the Brookmere property is the Cretaceous Spences Bridge Group (KSB) lower division, a broad northwest-trending thick sequence of gently folded volcanics with lesser sediments, dipping shallowly to the northeast (Thorkelson, 1985). This assemblage includes intermediate, locally felsic and mafic flows and pyroclastics with some sandstone, shale and conglomerate. An upper division of amygdaloidal basaltic andesite was formerly called the Kingsvale Group by earlier government geologists (Rice, 1947).

The Spences Bridge Group unconformably overlies Late Triassic to Early Jurassic dioritic to granodioritic plutonic rocks (TrJd, TrJgd), such as the two bodies northwest and northeast of Mount Thynne. The Spences Bridge Group is unconformably overlain by the Eocene Princeton Group (E), intermediate flows, volcanoclastics, sandstone, conglomerate and argillite.

3.2 Property Geology

No effort has been made to systematically map the geology of the Brookmere property and no observations have been made that add to the regional description other than the occurrence of intense hematitic silica and iron-rich carbonate alteration of andesitic and rhyolitic volcanics with associated coarsely crystalline quartz veins in the northwest corner of the property. This is



Explanation	
Tv	Tertiary: basaltic volcanics
Ti	Tertiary: intermediate intrusives
E	Eocene: Princeton Group: clastic sediments and andesitic volcanics
Kgr	Cretaceous: granitic intrusives
KS	Cretaceous: undivided sediments
KSB	Cretaceous: Spences Bridge Group; undivided volcanics
KSBp	Cretaceous: Spences Bridge Group; Pimainus Fm; andesitic volcanics
MJr	Middle Jurassic: granitic intrusives
JA	Jurassic: Ashcroft Fm; clastic sediments
Ji	Jurassic: tonalite intrusives
TrJd	Triassic - Jurassic: dioritic intrusives
TrJgd	Triassic - Jurassic: granodioritic intrusives
TrJum	Triassic - Jurassic: ultramafics
TrN	Upper Triassic: Nicola Group; undivided volcanics and clastics sediments
PJI	Permian - Jurassic: dioritic intrusives
PzMzlm	Paleozoic - Mesozoic: carbonate sediments
/ fault	

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Brookmere Property, B.C.

Nicola and Similkameen Mining Divisions, B.C.

Regional Geology
(adapted and simplified from BC GSB Open File 2005-2)

DWG: 503-3	January 2007	Scale 1:250,000	Figure: 4
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described in more detail in Section 4.1, Hand Trenching. A few other occurrences of similar alteration and/or quartz vein float have also been noted in the southwest and southeast quadrants of the claim block, near gold in (-150 mesh) silt anomalies that remain to be prospected (i.e. K-208S, K-279S, K-293S).

4 Geochemistry

4.1 Introduction

Geochemical sampling on the Brookmere property in 2006 included the collection of stream sediment and rock samples in a number of localities. In addition to conventional silt samples, 43 sediment samples were sieved in the field for later laboratory size fraction analysis. These samples are denoted with an "S" suffix in the sample numbers. Thirty-six element geochemical analysis was conducted on all of the conventional stream sediments and the rock samples. Similar multielement analysis was carried out on nine -230 mesh fractions and nine -150 mesh fractions produced from ten of the field-sieved sediment samples and eight of the conventional silt samples. Additionally, -150 mesh fractions from 33 of the field sieved sediment samples were tested only for gold.

Table 2 lists the sample types and sample numbers.

Table 2. Listing of stream sediment and rock samples collected in 2006.

Sample Type	Sample Number Series	Number of Samples
stream sediments	K-101 to K-177	77
	K-183	1
	K-186	1
	K-192 to K-196	5
	K-198 to K-199	2
	K-201 to K-207	7
	K-209 to K-213	5
	K-215 to K-227	13
	K-229	1
	K-231	1
	K-233 to K-242	10
	K-244 to K-250	7
	K-252 to K-256	5
	K-258 to K-262	5
	K-264 to K-288	5
	K-271 to K-276	6
	K-283 to K-285	3
	K-287	1
	K-290	1
	K-292	1
	K-294 to K-295	2
	K-298 to K-311	14
	K-323 to K-327	5
K-329 to K-331	3	
	Total: 181	
stream sediment sieved in field	K-120S	1
	K-129S	1
	K-142S	1

	K-175S	1
	K-177S to K-182S	6
	K-184S to K-185S	2
	K-187S to K-191S	5
	K-197S	1
	K-200S	1
	K-208S	1
	K-214S	1
	K-228S	1
	K-230S	1
	K-232S	1
	K-243S	1
	K-251S	1
	K-257S	1
	K-263S	1
	K-270S	1
	K-277S to K-282S	6
	K-286S	1
	K-288S to K-289S	2
	K-291S	1
	K-293S	1
	K-296S to K-297S	2
	K-328S	1
	Total:	43
rock grab sample	K-R32 to K-R39	8
	K-R51 to K-R60	30
	K-R87 to K-R90	4
	K-R93 to K-R105	13
	Total:	55
continuous rock chip	K-R106 to K-R109	4
	BMT061-R1 to R5	5
	Total:	9

Abbreviations used in the course of describing the sediment and rock samples collected in the field are given in Appendix I.

Complete analytical results for all samples are listed on the ACME Analytical Laboratories Ltd. (Acme) Geochemical Analysis Certificates contained in Appendix II. Sample locations, brief descriptions, and results for nine selected elements are also provided in the Reconnaissance Sample Summary tables included in Appendix II.

4.2 Sampling and Analytical Procedures

Sample locations were marked in the field with pink flagging and labeled Tyvek tags. UTM coordinates (NAD83) were determined for all of the reconnaissance sample locations using a handheld GPS instrument.

Conventional stream sediment samples (about 1.0kg) were collected from the finest silt/sand material available in the active channel, with minimum organic matter. Most of the sediment samples were collected in labeled 14cm x 27cm Hubco cloth bags; a few were collected in labeled 10cm x 15cm Kraft paper bags. Forty-three field-sieved sediment samples were also

collected. This involved the collection of a bulk sample (~5kg) over 5m of stream bed and wet-sieved to collect more abundant fines for later (laboratory) generation of a minus (-) 230 mesh or minus (-) 150 subsample. The field-sieved samples (denoted with an "S" suffix in the sample numbers) were handled and analyzed in the same fashion as the conventional smaller sized (unsieved) samples from which only -80 mesh subsamples were generated.

Sample preparation at the laboratory involved drying at up to 60°C and sieving up to 100 grams from each sample to -80 mesh. Depending on the amount of -80 mesh material obtained, a 7.5, 15 or 30 gram subsample was cut and then leached with 90ml or 180ml of 2-2-2 HCl-HNO₃-H₂O solution at 95°C for one hour, followed by dilution to 300ml or 600ml and 36 element ICP-MS analysis.

Rock sample individual weights varied from 1 - 3kgs for float samples and 2.5 - 8 kgs for bedrock (continuous chip) samples. Float samples consisted of chips taken from one or two larger cobbles, or of several smaller fragments collected from an area of a few square meters. Individual samples were placed in labeled plastic bags, with a label also placed within the bag, and shipped to the Acme laboratory in Vancouver. At the lab each rock sample was crushed to 70% passing 10 mesh followed by pulverizing a 250gm split to 95% passing 150 mesh. A 30gm subsample of each was then digested and analyzed as above.

4.3 Quality Control

All of the silt sampling was conducted by very experienced samplers, with spot field checks by the Qualified Person (QP). Rock samples were collected by or under the direct supervision of the QP. All samples were accounted for, packed with due diligence and personally delivered to the Acme laboratory by the QP or shipped to Acme by Greyhound Bus.

Acme runs standards and provides re-samples at varying intervals for each sample shipment analyzed. A re-sample consists of analyzing a second cut (subsample) from the same sample pulp (or occasionally reject portion), and is reported as a rerun (RE) or reject rerun (RRE) on the analysis certificate. In most cases there has been good reproducibility of results between the original subsamples and re-samples, with the exception of gold at the lower end of the detection range in some stream sediment samples.

Duplicate stream sediment samples were collected at five sites (K-120, 129, 142, 175, 177) in the northwestern sector of the property. The "S" numbered duplicates were field-sieved to obtain more abundant fines for laboratory generation of -230 mesh subsamples. The -230 mesh fractions were then subjected to the same digestion and analytical procedures as those employed for the conventional smaller sized original samples from which only -80 mesh subsamples were produced. The results from these sets of samples compare favorably at all five locations, despite

the analysis of different size fractions and respective subsample weights (30 grams of -80 mesh vs. 15 grams of -230 mesh).

4.4 Stream Sediment Results

Figures 5 and 6 present the locations of the stream sediment and rock samples collected in the 2006 program. Figure 6 is a 1:10,000 scale map covering the northwest corner of the property where the density of sampling cannot be shown readily at the 1:15,000 scale of Figure 5.

Appendix II includes a summary of the sediment samples together with abbreviated descriptions of site lithology and stream bed/flow characteristics.

Histograms for molybdenum, arsenic, gold, antimony and mercury are presented in Figure 7.

Table 3 summarizes the statistics of these.

Table 3. Summary statistics of 220* stream sediments.

Element	Minimum	Maximum	Mean	Standard Deviation	Anomalous**
Mo	0.2 ppm	3.5 ppm	0.724 ppm	0.447 ppm	1.6 ppm
As	2.0 ppm	19.2 ppm	4.267 ppm	1.792 ppm	7.8 ppm
Au	<0.5 ppb	823.8 ppb	0.392*	3.318*	6 ppb
Sb	0.1 ppm	1.4 ppm	0.322 ppm	0.150 ppm	0.6 ppm
Hg	<0.01 ppm	0.13 ppm	0.042 ppm	0.018 ppm	0.07 ppm

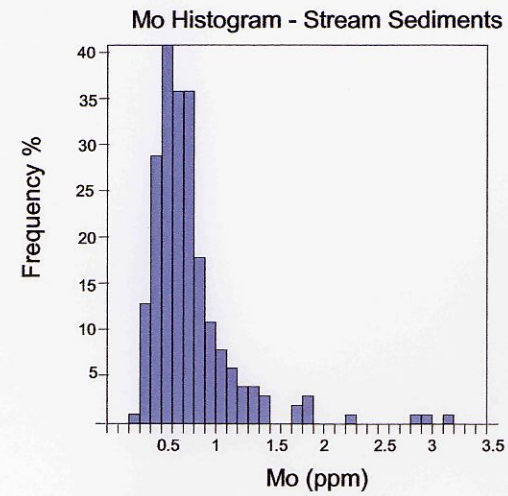
(*) minus erratic high values in the case of gold

(**) for Mo, As, Sb and Hg this = (mean + 2STD).

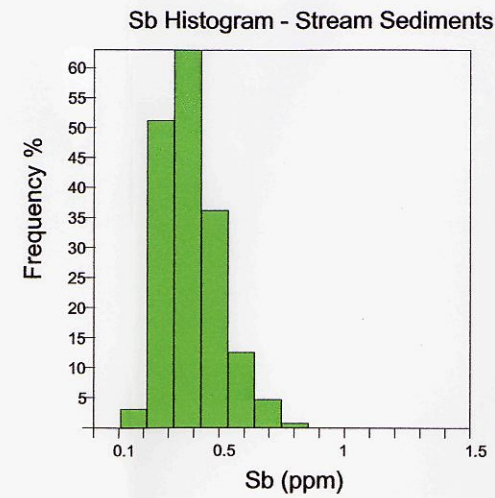
Sediment sample K-107 reported the highest gold value, 823.8 ppb Au, from a tributary of Brook Creek, on the north side of the Brook Creek valley. The second highest gold value was that reported for sediment sample K-125, 112 ppb Au, in the mid-section of Brook Creek, south of the Brook Creek – Spearing Creek valley. Sediment samples K-111 (87.3 ppb Au) and K-104 (55.4 ppb Au) were reported from creeks draining the hill in the northwest corner of the property, as does K-107. Significant gold anomalies in stream sediments have been identified by -150 mesh size fraction analysis, at four sites in other areas of the property: K-190S (187.9 ppb) – northwest corner; K-208S (67.3 ppb) – southwest corner; K-279S (6.7 ppb) – southeast corner; K-293S (74.1 ppb) – central east boundary area.

4.5 Prospecting and Rock Geochemical Sampling

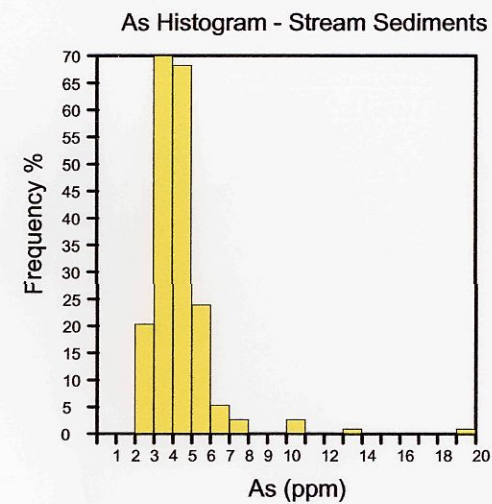
Fifty-five reconnaissance rock grab samples were collected from the Brookmere property during the course of prospecting. These were primarily from the hill northeast of Brook Creek in the northwest corner of the property and from the mid-section of Brook Creek towards the western boundary of the claims. The most significant of these rock grab samples was K-R34 which reported 11,260.5 ppb Au from the mid-section of Brook Creek, about 700 meters upstream from sediment sample K-125. This rock sample is float, a single subrounded to subangular boulder,



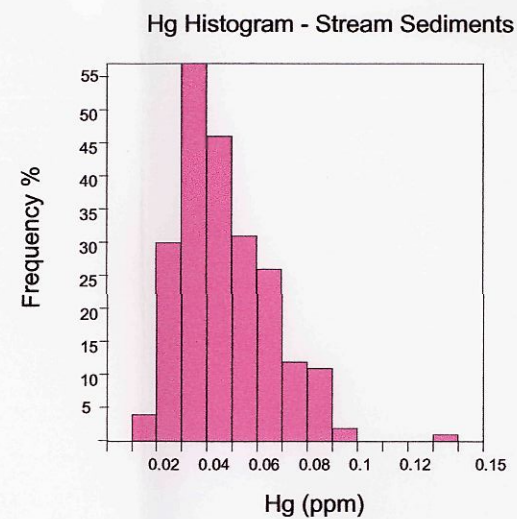
Summary Statistics Mo (ppm)
 Stream sediments
 Count = 220
 Mean = 0.724545
 Median = 0.6
 Standard Deviation = 0.446945
 Minimum = 0.2
 Maximum = 3.5



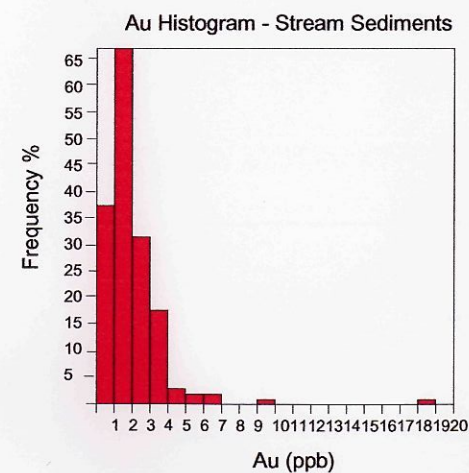
Summary Statistics Sb (ppm)
 Stream sediments
 Count = 220
 Mean = 0.322273
 Median = 0.3
 Standard Deviation = 0.149899
 Minimum = 0.1
 Maximum = 1.4



Summary statistics As (ppm)
 Stream sediments
 Count = 220
 Mean = 4.26682
 Median = 4
 Standard Deviation = 1.72704
 Minimum = 2.0
 Maximum = 19.2




Summary Statistics Hg (ppm)
 Stream sediments
 Count = 220
 Mean = 0.0424091
 Median = 0.04
 Standard Deviation = 0.0185087
 Minimum = 0.01
 Maximum = 0.13



Summary Statistics Au (ppb)
 Stream sediments
 Count = 213
 Mean = 0.392488
 Median = 1.2
 Standard Deviation = 3.31782
 Minimum = <5
 Maximum = 18.2

Note: 7 samples reported > 20 ppb Au.
 These are not included in statistics above.

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Brookmere Property, B.C.		
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Stream Sediment Histograms minus (-) 80 fraction		
DWG: 503-9	January 2007	Figure: 7
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about 10x25x25cm in size, of banded chalcedonic vein quartz with a trace of fine pyrite. Four other rock samples of float material with 87 to 124 ppb Au were found in the northwest corner of the property near the headwaters of the anomalous gold drainages there. All of these were characterized by altered volcanic hostrock with abundant quartz veining and/or chalcedonic stringers. The rock samples with anomalous gold values all contain elevated levels of Ag+/- As+/- Mo+/- Pb.

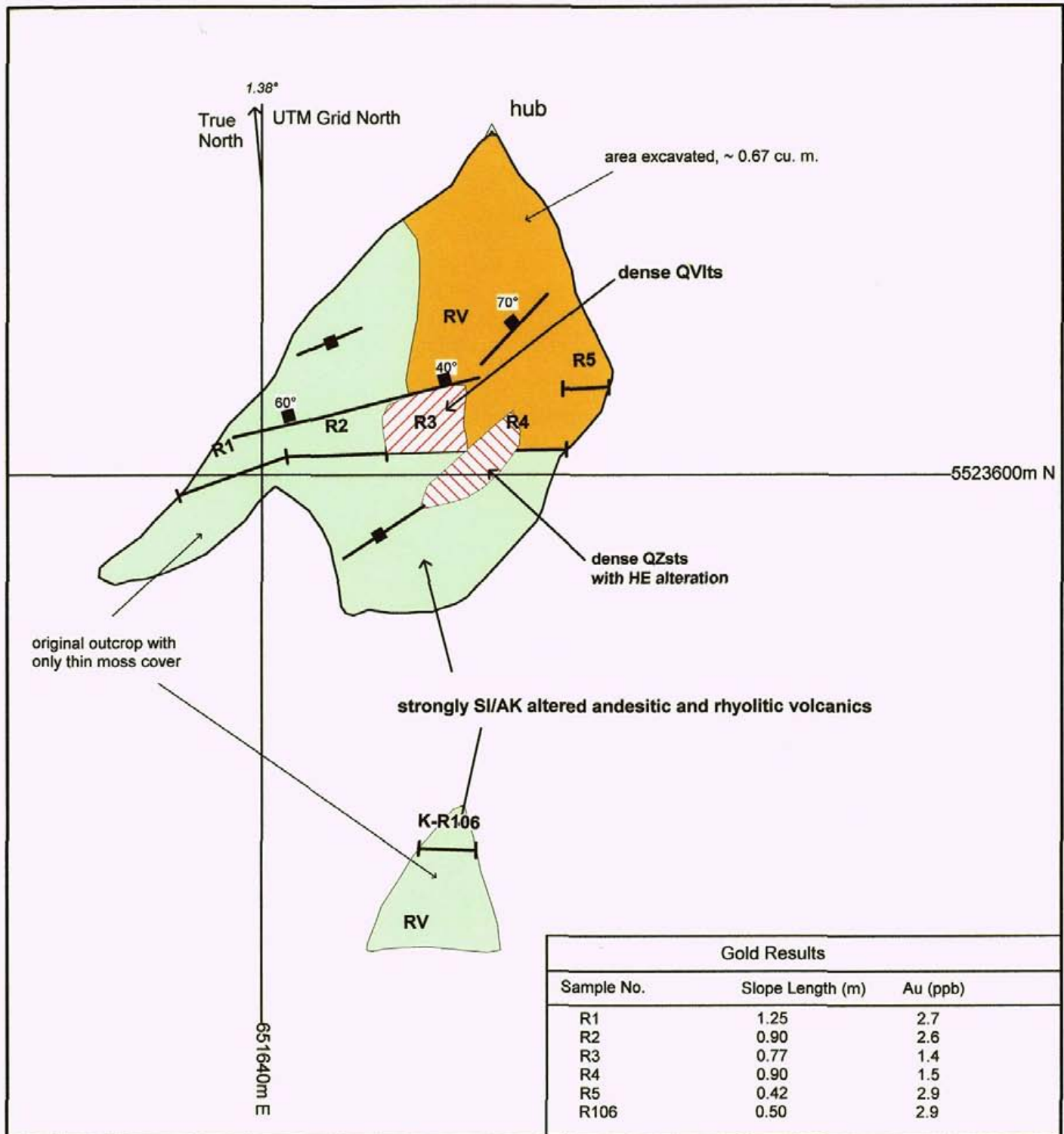
5 Physical Work

5.1 Hand Trenching

A single trench, BMT06-1, was excavated by hand near the ridge crest in the northwest corner of the Brookmere property. Its general location is shown in Figure 6 and in detail in Figure 8. Five continuous chip samples were collected in the trench; four others were taken from nearby altered and veined outcrops. Approximately 0.67m³ of material were excavated from the site. The underlying material is characterized by locally intense hematitic silica (jasper) and iron-rich carbonate alteration with networks of coarsely crystalline comb-textured quartz veins hosted in bleached andesitic and/or rhyolitic (?) pyroclastic rocks. Six of the nine continuous chip samples, are shown in Figure 8; the three others are located off to the south of the Figure 8 area. All of these bedrock chip samples are from intensely silicified hostrock with quartz veinlet stockworks. The local attitude of the host volcanics is indeterminate. The predominant fracture orientation strikes southwest. Dips are either vertical or steeply northwest.

Table 4. Results of chip sampling in and nearby trench BMT06-1.

Sample	Slope Length (m)	Horizontal Length (m)	Au (ppb)	Ag (ppm)	As (ppm)	Sb (ppm)	Hg (ppm)	Mo (ppm)
BMT06-R1	1.25	1.00	2.7	0.8	12.2	0.7	<0.01	116.4
BMT06-R2	0.90	0.85	2.6	0.6	10.5	0.6	<0.01	97.1
BMT06-R3	0.77	0.70	1.4	0.3	8.8	0.4	<0.01	72.1
BMT06-R4	0.90	0.85	1.5	0.4	5.3	0.7	0.01	63.8
BMT06-R5	0.42	0.40	2.9	0.2	7.2	0.3	<0.01	33.3
K-R106	0.50	0.50	2.9	0.3	9.5	0.4	<0.01	49.5
K-R107	1.00	1.00	0.7	<0.1	2.8	0.3	<0.01	14.4
K-R108	0.70	0.70	6.5	0.2	20.6	0.3	0.01	15.8
K-R109	1.05	1.05	6.2	<0.1	10.3	0.3	<0.01	15.5



Gold Results		
Sample No.	Slope Length (m)	Au (ppb)
R1	1.25	2.7
R2	0.90	2.6
R3	0.77	1.4
R4	0.90	1.5
R5	0.42	2.9
R106	0.50	2.9

Explanation

RV - rhyolitic volcanics
 O/B - overburden
 SI - silica alteration
 AK - ankerite alteration
 HE - hematite alteration

—■— vertical fracture
 —┐— dipping fracture

—|— channel sample location (horizontal distance)

Rxxx rock sample; number prefix BMT06 omitted

Note: Outcrop chip samples K-R107 to K-R109 are off map area, to south.

Williams Creek Explorations Ltd.

Brookmere Property, B.C.

Nicola and Similkameen Mining Divisions, B.C.
 NTS 92H/15

TRENCH BMT06-1
EZ 1 Claim, Tenure No. 522487

DWG: 503-8	January 2007	Scale: 1:50	Figure: 8
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6 Conclusions and Recommendations

- The sediment sampling program has identified eighteen gold in silt anomalies defined by gold values ranging from 5 ppb to 823.8 ppb along with nine other sites with threshold values of 3.5 to 4.9 ppb Au. Most of these gold anomalies have coincident elevated levels of the associated epithermal vein system pathfinder elements As, Sb, Hg, Mo and/or Se.
- Reconnaissance prospecting located banded quartz vein float in the mid-section of Brook Creek that returned assays of 11.23 g/t Au and 17.0 g/t Ag. The source of this material remains to be determined. In addition, a zone of alteration and quartz vein and breccia mineralization was found near the northern margin of the Brookmere property. This zone is characterized by locally intense hematitic silica and iron-rich carbonate alteration with networks of coarsely crystalline comb-textured quartz veins hosted in andesitic and rhyolitic (?) pyroclastic rocks. None of the nine continuous rock chip samples from a single hand trench and nearby outcrops at this locale returned significant gold or silver analyses. However, most of these samples reported highly anomalous molybdenum values and some also reported anomalous barium. This geochemical signature, as well as the nature of the widespread silicification and quartz veining in this general area, suggests that the exposed horizon (erosional level) here is considerably above the main zone(s) of precious metals deposition in a low sulphidation epithermal system.
- A program of grid soil sampling is recommended with east - west grid lines having a line spacing of 200m and initial sample station spacing of 50m. The grid would comprise 34 east-west lines between 5517000mN and 5523600mN, from 650000E to 653000E. In addition to this gridded soil sampling, detailed prospecting and possibly local soil grids are recommended around the other isolated but strong gold-in-sediment anomalies in the southwest, southeast and northeast parts of the property.
- It is also recommended that the minus (-) 150 mesh fractions from the conventional sediment samples collected in 2006 be analysed for gold.

7 Personnel and Days Worked

Name	Work Period	Days Worked
E.A. Balon, P. Geo North Vancouver, B.C. Project Mgr. (QP) Prospector / Sampler	July – November 2006	38.0
Barrie W. Sullivan Barewest Enterprises Inc Vancouver, B.C. Prospector / Sampler	October 2006 (reconnaissance and demobilization)	0.75
James MacLean Burnaby, B.C. Geologist / Draftsman	January – February 2006	2.0
Yvonne Thornton Pemberton, B.C. Sampler / Prospector Cook / First Aid personnel	July – October 2006	29.5
Jan Tindle Whistler, B.C. Sampler / Prospector Cook / First Aid personnel	July – October 2006	25.5
		Total Person Days: 95.75

8 Statement of Costs

(All items rounded to the nearest dollar; expenditures for the period January 31, 2006 to December 22, 2006.)

Salary and Benefits:

E.A. Balon (includes November 20 to December 31, 2006) ----- \$ 9,518

Contract Technical Services:

Barewest Enterprises Inc. ----- \$ 225

James MacLean ----- \$ 460

Jan Tindle ----- \$ 6,375

Yvonne Thornton ----- \$ 7,375

Sample Preparation and Geochemical Analyses:

Acme Analytical Laboratories Ltd. (includes shipping charges) ----- \$ 5,586

Truck Rentals, Fuel and Miscellaneous Travel Expenses: ----- \$ 4,720

Accommodation and Meals: ----- \$ 5,929

Communications: ----- \$ 432

General Field Supplies: ----- \$ 548

Total Expenditures: \$ 41,168

(Note: Expenditure total does not include cost of report preparation incurred during January and February, 2007)



9 Statements Of Qualifications

I, Edward A. Balon, of North Vancouver, British Columbia, hereby certify that:

1. I am a prospector and geological/mining technician residing at 501-250 West First Street, North Vancouver, BC, and am employed by Almaden Minerals Ltd. of 1103-750 West Pender Street, Vancouver, British Columbia, V6C 2T8.
2. I am a graduate of Northern College – Haileybury School of Mines, Haileybury, Ontario (1970), with a diploma in Mining Engineering Technology (integrated Geology, Mining and Metallurgy).
3. I have attended numerous Continuing Education Courses in Geoscience since 1970, including Exploration Geochemistry at the University of British Columbia, Vancouver, BC, in 1984/1985.
4. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC), license number 20265, since 1993.
5. I have worked continuously in mineral exploration for thirty-seven years in British Columbia, Yukon, Northwest Territories, USA and Mexico.
6. I am a co-author and the editor of this report, and I have been the supervisor (Qualified Person) for all of the fieldwork performed to date on the BROOKMERE property.

ALMADEN MINERALS LTD.

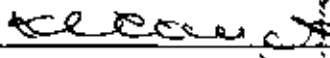



Edward A. Balon, P. Geo

I, K. Vincent Campbell, of Horsefly, British Columbia, hereby certify that:

1. I am a consulting geologist residing at 6599 Millar Rd., Horsefly, BC, Canada, V0L 1L0 and am employed by ERSi Earth Resource Surveys Inc. of the same address.
2. I graduated with a degree of Bachelor of Science, Honours Geology, from the University of British Columbia in 1966; a degree of Master of Science, Geology, from the University of Washington in 1969 and a degree of Doctor of Philosophy, Geology, from the University of Washington in 1971.
3. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC), license number 19411, since 1992.
4. I have worked as a geologist for over 40 years since my graduation from university.
5. I am a director of Williams Creek Explorations Ltd., the current operator of the Brookmere property.
6. I have reviewed all of the field notes, maps, sample descriptions and analyses collected during the 2006 exploration program on the Brookmere property and am a co-author of this report.

ERSi Earth Resource Surveys Inc.

K. Vincent Campbell, Ph.D., P. Geo.

10 References

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APPENDIX I
LIST OF ABBREVIATIONS USED IN SAMPLE DESCRIPTIONS

2006 REGIONAL EXPLORATION SAMPLE DESCRIPTION ABBREVIATIONS

MISCELLANEOUS			
ang	angular	altd, altn	altered, alteration
alt	altitude	abut	abundant
adj	adjacent		
b	base	bldr	boulder
bx	breccia	bnd	band (eg alteration)
br	branch		
cavs	cavities	ct	contact
chalced	chalcedonic	chnt	channel
cobls	cobbles	colform	coliform
crsgr	coarse grained	ck	creek
clr	clear	comp	composite
crs	coarse	cy	clay
drk	dark	diss	disseminated
dfall	deadfall	dnstrm	downstream
dup	duplicate	dom	dominantly
fgr	fine grained	frx	fractures
ft	fault	flt	float
fgmnts	fragments	FS	Field sieved
fpar(s)	feldspar(s)	frd	fractured
grad	gradient	grvl	gravel
gent	gentle		
intrsv	intrusive	irreg	irregular
incls	inclusions	incl	include
immed	immediately		
jct	junction		
lt	light	locn	location
loc	located	locl	local, locally
lge	large	lndg	landing
lstn	limestone		
mtrl	material	msv	massive
medgr	medium grained	max	maximum
mod	moderate	med	medium

nt	non-transported		
oc	outcrop	org(s)	organic(s)
OB	overburden		
pc(s)	piece, pieces	pyro-	pyroclastic
pebls	pebbles	ppt	precipitate
rnd	round	rd	road
rectang	rectangular	repl	replaced
sc	subcrop	silic	siliceous or silified
st	stringer	sh	shear
svf	several	segs	sediments
sfcs	surfaces	smpl	sample
strm	stream	snd	sand
sed	sedimentary	silt	silt
tab	tabular	tw	true width
Tr	trench		
vgr	very fine grained	vn	vein
volc(s)	volcanic(s)	vltz	veinlets
wtln	crystalline	xl	crystal
COLOUR			
brn	brown	brng	orange
grn	green	yel	yellow
wht	white	gy	grey
blk	black	blu	blue
ROCKTYPES			
AD	andesite dyke	AV	andesilic volcanic
AP	aplite	AB	andesitic breccia
BV	basaltic volcanic	BX	breccia
DV	dacitic volcanic	DR	diorite
DB	diatreme breccia	FP	feldspar porphyry
FV	felsic volcanic	GD	granodiorite
GR	granite	PV	porphyritic volcanic
PG	pegmatite	QM	quartz monzonite
QT	quartzite	RV	rhyolitic volcanic
VB	volcanic breccia		

Intrusive till: Till composed of predominantly intrusive components

Volcanic till: Till composed of predominantly volcanic components

MINERALOGY

A ALTERATION					
AD	adularia	CY	clay	OX	oxides (Fe, Mn)
AK	ankerite	EP	epidote	PH	phlogopite
BI	biotite (2)	HE	hematite	QZ	quartz (2)
CA	calcite	KF	K-spar 2	SE	sericite
CB	carbonate	LI	limonite	SS	saussurite
CL	chlorite	ML	malachite	SI	silica
CV	carbonate vein	QV	quartz vein		
QVIts	quartz veinlets	QZsts	quartz stringers		

("2") after mineral name indicates secondary origin

B OXIDE, SULPHIDE, NATIVE			
- listed in decreasing amount			
AS	arsenopyrite	HE	hematite
AU	native gold	MO	molybdenite
BN	bornite	PO	pyrrhotite
CP	chalcopyrite	PY	pyrite
EL	electrum	SL	sphalerite
GL	galena	TT	tetrahedrite

C GANGUE			
- listed in decreasing amount			
AK	ankerite	FL	fluorite
BA	barite	KF	K-feldspar
CA	calcite	QZ	quartz
CB	carbonate	SD	siderite
Chalced	chalcedony	SE	sericite
CL	chlorite	WR	wall rock fragments
GG	gouge (fault, shear)		

APPENDIX II
BROOKMERE AREA RECONNAISSANCE SAMPLE SUMMARY TABLES
AND ACME ANALYTICAL GEOCHEMICAL CERTIFICATES

BROOKMERE PROPERTY AREA RECONNAISSANCE STREAM SEDIMENT SAMPLE SUMMARY

Sample Number	Existing NAD83	Northing NAD83	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au ppb	Sb ppm	Hg ppm	Material	Rock Type	Note
Stream Sediments														
K-101	650430	5521440	0.9	38.5	6.7	47	0.3	4.7	4.9	0.4	0.07	crs sand	Till, some and KSB pyroc flt.	Side ck, 50-75cmx15cm, dry, low grad, grv/cobls atop org mat.
K-102	650728	5521276	0.8	33.8	6.6	55	0.2	7.4	5.1	0.3	0.07	crs sand	Till, some ang volc flt	Side ck, 1.5mx20cm, seep, gent grad, grv org mat b. some orgs in sample.
K-103	650759	5521140	1	33.8	6.5	62	0.3	10.2	28.1	0.4	0.06	snd grvl	Till, KSB volc flt	Side ck, 75cmx10cm, fl flow, gent grad, grvl b, taken below jct.
K-104	650383	5522018	0.9	28.2	8	59	0.2	3.3	55.4	0.4	0.06	slt, crs snd	Till, KSB volcs	Side ck, 60cmx20cm, dry, mod grad, grv/sand b.
K-105	650827	5521846	1.4	29	7.5	60	0.2	3.4	1.5	0.2	0.05	crs snd	KSB volc rubble	Main ck, dry, mod grad; grvl /obl b, 60cmx10cm
K-106	651065	5521700	0.8	16.2	6.2	46	<1	2.5	2.7	0.2	0.03	crs snd	Till cover	Small side gully, dry, turf covered chnl 50x10cm, flat-mod grad. Poor sample (nt seeds).
K-107	652007	5521636	1	23.9	6.7	60	0.2	4.1	823.8	0.6	0.07	crs snd	Dom KSB pyroc & PV flt	Side ck, 1.5mx50cm, weak flow, mod grad, grv/obl b.
K-108	652555	5521362	0.7	33	11.5	58	0.2	3.6	2.2	0.4	0.05	crs snds/ilt	Till, dom PV flt, some pyrocs.	Side ck, 1.5mx30cm, dry, mod grad, minor org, grvl/cobl b.
K-109	652874	5522050	0.9	21.4	6.4	58	<1	5.5	6.6	0.5	0.03	crs snd silt	KSB pyrocs & PVs; local RV rubble	Side ck, 60cmx20cm, gent grad, grvl/org mat b. K-12 site also.
K-110	652148	5522713	0.7	28.5	5.7	61	0.2	3.4	8	0.3	0.05	silt/snd org	KSB pyrocs & PVs	Same br as K-107, 2mx20cm, low flow, gent grad, sand/mud b.
K-111	652150	5523450	0.7	21.3	7.3	72	0.3	5.1	67.3	0.3	0.04	silt/snd org	Till, KSB pyrocs	Upper rt br of 4, 60x15cm, mainly dry, gent grad, sand/grvl atop orgs. Disrupted.
K-112	653640	5520390	0.9	38.2	9.8	58	0.2	6.9	2.3	0.4	0.05	crs snd	KSB pyrocs, PV oc both sides	Side ck, 60cmx30cm, dry, mod grad, grv/cobl b.
K-113	654028	5519290	0.7	19.9	6.2	45	0.1	4.9	0.8	0.4	0.04	slt snd	KSB volcs, various types	Side ck, 1.5mx20cm, dry, gent grad, sand/grvl b.
K-114	653344	5519470	1	29.3	7.2	57	0.3	4.8	1.9	0.3	0.08	crs sand	KSB volcs, various types	Side ck, 1.2mx20cm, low flow, mod grad, sand/grvl b.
K-115	651729	5517542	0.8	24.8	6.4	50	0.1	4.2	9.6	0.2	0.05	slt snd	KSB volcs, various types	Side ck, 1.3mx20cm, low flow, gent grad, sand/grvl b.
K-116	651610	5517254	2.8	20.8	7.8	50	0.2	6.1	<5	0.3	0.08	crs snd/orgs	KSB volc flt (pyrocs)	Side ck, 50x20cm, boggy tuckler, gent grad, sand/grvl atop org mat.
K-117	650710	5516230	0.5	9.8	7.6	55	0.1	2.5	3.1	0.2	0.03	slt snd	KSB volcs, mostly pyrocs.	Side ck, 75cmx20cm, dry, gent grad, sand/grvl atop org mat.
K-118	650310	5515740	1.1	10.1	5.6	49	0.1	4	0.9	0.2	0.04	slt snd	KSB volcs, mostly pyrocs	Side ck, 1mx30cm, low flow/grad, sand/grvl b.
K-119	654096	5519691	0.8	25.3	6.2	71	0.1	5.4	24.2	0.4	0.06	slt snd	KSB volcs flt, various types	Side ck (lower K-113) 1mx40cm, dry, mod grad, sand/grvl b.
K-120	651122	5519011	0.8	18.2	5.4	75	<1	3.8	1.1	0.2	0.03	slt snd	KSB AV oc both sides	Main ck, 4-7mx70cm, mod flow, gent grad, cobl/sand b.
K-121	650788	5518047	0.8	21.4	4.9	56	<1	2.8	1.2	0.3	0.03	slt snd	AV oc	Side ck, 70cmx30cm, mod flow, steep grad, bldr/cobl b.
K-122	650692	5517666	0.6	17.3	6.2	75	<1	5.4	0.8	0.3	0.03	slt snd	KSB volcs	Side ck, 2mx1m, seep, mod grad, grv/cobl b.
K-123	650830	5517509	0.5	25	7.2	66	<1	5	3.6	0.3	0.06	crs snd	KSB volcs, various types	Side ck, 60cmx15cm, dry, mod grad, org/grvl b, soil in sample, poor chnl.
K-124	650674	5517474	1	15.8	5.7	70	<1	4.1	<5	0.2	0.02	slt snd	KSB volcs	Main ck, 4mx70cm, mod flow, gent grad, cobl/grvl b.
K-125	651095	5519240	1.1	24.9	6.6	49	0.2	5.2	112	0.4	0.08	crs snd	KSB mixed AV/BV	Side ck, 1.5mx70cm, dry, mod grad, cobl/grvl b. Poor sample.
K-126	651143	5519788	0.7	15.5	5.2	67	<1	4	<5	0.2	0.03	slt snd	KSB pyroc oc nearby	Main ck, 7mx50cm, low flow, gent grad, sand/grvl b. Several points sampled.
K-127	651782	5518935	0.6	15.1	5.1	70	<1	3.9	<5	0.2	0.01	slt snd	KSB pyroc oc nearby	Main ck, 8mx75cm, low flow, gent grad, sand/grvl b. Several points sampled.
K-128	655200	5518565	0.7	21.8	6	53	0.1	4	<5	0.3	0.04	crs snd	Till, KSB mixed volcs (dom pyrocs)	Side ck, 75x40cm, dry, mod grad, cobl/A-B soil b. Little transported seeds.

BROOKMERE PROPERTY AREA RECONNAISSANCE STREAM SEDIMENT SAMPLE SUMMARY

Sample Number	Easting NAD83	Northing NAD83	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au ppb	Sb ppm	Hg ppm	Material	Rock Type	Note
K-129	655164	5517690	0.4	16.9	6.1	57	<1	4.7	<5	0.2	0.03	slt snd	Till, KSB mixed volc flt (dom pyrocs)	Large br. 1-2mx50cm, pools/trickle, gent grad, sand/grvl b.
K-130	655174	5517695	0.6	14.9	6.2	71	0.1	3.7	<5	0.3	0.02	slt snd	Till, KSB mixed volc flt (dom pyrocs)	Right br. 80x25cm, trickle, gent grad, sand/grvl b.
K-131	654525	5517690	0.7	22.1	6.6	61	0.1	4.3	0.7	0.3	0.04	snd silt orgs	KSB pyroc oc 20m SSW	Same br as K-130, 0.5-1.5mx0.2-0.5m, dry, gent grad, grv/A-B soil b.
K-132	654560	5517703	0.6	31.8	7.4	54	0.3	5.2	1.3	0.3	0.05	snd silt orgs	KSB mixed volc flt	Side pup from NNW, 50x25cm(max), boggy trickle, gent grad, grvl/org mat b.
K-133	654415	5516550	0.7	24.5	6.1	56	0.2	4.7	2.7	0.4	0.08	snd orgs	KSB mixed volc flt (dom pyrocs)	W side br. 50x25cm(max), dry, gent grad, cobl/grvl/org mat b.
K-134	653709	5515345	0.7	19.2	6.8	54	0.1	4.8	<5	0.3	0.02	slt snd	Various KSB volcs	Side ck. 2.5mx20cm, low flow, gent grad, sand/grvl b.
K-135	653261	5515545	1.3	35	7.4	61	0.2	5.9	<5	0.2	0.04	crs snd	Various KSB volcs	Right br of side ck. 1mx20cm, low flow, gent grad, mud/silt/sand b.
K-136	653028	5515522	0.6	17.1	6.8	64	0.1	3.9	<5	0.2	0.04	slt snd	Various KSB volcs	Side ck. 1mx30cm, dry, mod grad, grvl/cobl b.
K-137	653021	5515528	0.8	19	6.1	50	0.2	5.3	<5	0.3	0.05	crs snd	Various KSB volcs	Side ck mid br, 1mx50cm, low flow, mod grad, grvl/cobl b.
K-138	652669	5515425	0.9	17.6	6.9	58	0.2	5.1	0.6	0.2	0.06	crs snd	Various KSB volcs	Side ck. 90cmx20cm, very low flow, mod grad, cobl b, some soil in sample
K-139	653290	5514480	0.7	22.1	6	58	<1	3.5	0.8	0.3	0.02	slt snd	Various KSB volcs	Side ck. 1.2mx20cm, dry, mod grad, cobl/grvl b.
K-140	652821	5513847	0.7	28.5	5.6	54	<1	3.5	2	0.2	0.04	slt snd	Various KSB volcs	Side ck. 1.5mx40cm, dry, mod grad, sand/grvl b.
K-141	652774	5513834	0.4	29	4.3	53	0.1	2.5	<5	0.2	0.02	slt snd	KSB volcs some intrav flt	Side ck. 75cmx40cm, dry, mod grad, sand/grvl b.
K-142	652616	5513784	0.7	19.7	6	62	<1	4.3	0.6	0.3	0.03	slt snd	Mafic volc oc w/CA stringers drs/itm	Main ck, 4mx50cm, low flow, gent grad, cobl/grvl/sand b.
K-143	653162	5513792	0.6	45.1	5.7	41	0.1	4.5	0.8	0.2	0.03	slt snd	KSB volc flt (dom pyrocs)	South side ck, 60x35cm, seep, gent grad, cobl/grvl/org mud b.
K-144	654193	5514217	0.6	33.2	5.3	44	0.1	3.2	1.4	0.3	0.03	crs snd	Various KSB volcs	Side ck. 70cmx30cm, low flow, mod grad, grvl/cobl b.
K-145	654567	5514464	0.6	51	5.3	49	0.1	4	<5	0.2	0.06	slt snd/orgs	Various KSB volcs	Side ck, 60cmx30cm, dry, mod grad, grvl/cobl b.
K-146	654626	5514535	0.6	19.9	5.5	71	<1	4	1.7	0.2	0.02	slt snd	KSB volcs (PV, pyrocs)	Main ck, 4mx50cm, mod flow, gent grad, sand/grvl b.
K-147	654062	5514530	0.5	25.1	5.8	61	0.1	4.4	1.8	0.2	0.06	crs snd	Various KSB volcs	Side ck, 90cmx30cm, dry, mod grad, cobl/sand b.
K-148	653635	5514350	0.9	23.3	5.4	64	<1	4	<5	0.3	0.03	slt snd	Various KSB volcs (PV, pyrocs)	Main ck, 4mx60cm, low flow, gent grad, grvl/sand b.
K-149	654690	5514735	0.4	25.6	6.2	59	0.1	4.2	1.2	0.3	0.06	crs snd silt	Till, mixed KSB volc flt	Side ck, 60x20cm, dry, mod grad, minor silt/sand atop org mat.
K-150	654985	5514480	0.5	19.6	6.9	69	<1	4.4	<5	0.3	0.04	Moss Mat	Till, KSB volcs near DR contact (LT r/dr)	Side ck, 50x25cm, dry, mod grad, cobl/grvl atop org mat.
K-151	655351	5514712	0.4	17.4	5	62	<1	3.1	<5	0.2	0.02	slt snd	KSB volcs, dom PV	Main ck, 4mx70cm, mod flow, gent grad, cobl/grvl b.
K-152	655892	5514965	0.6	22.2	5.5	56	<1	4.1	<5	0.3	0.05	crs snd silt	KSB volcs, dom PV	Side ck, 60cmx20cm, dry, sleep grad, cobl/grvl b.
K-153	656180	5515100	0.5	18.3	6.1	57	<1	3	<5	0.2	0.03	slt snd	Various KSB volcs	Main ck, 75x40cm, low flow, gent grad, cobl/grvl b.
K-154	656200	5515105	0.7	19.5	5.7	64	<1	3.4	<5	0.2	0.05	slt snd	Various KSB volcs	Side ck, 1mx30cm, dry, sleep grad, sand/grvl b.
K-155	656510	5515140	0.6	24.8	5.8	65	<1	3.9	<5	0.3	0.06	crs snd silt	Till, KSB volc flt incl pyrocs	Side ck, 75x40cm, dry, mod grad, A-B soil base.
K-156	656897	5514983	0.8	32.6	6.6	75	0.1	3.2	<5	0.3	0.07	crs snd	Various KSB volcs	Side ck, 70cmx20cm, dry, mod grad, cobl grvl b, poor channel.
K-157	657167	5514956	0.5	19.2	5.8	62	<1	3.7	1.1	0.3	0.05	slt snd	GD oc	Main ck, 3mx70cm, mod flow/grd, cobl/grvl b.
K-158	657161	5514698	0.6	27.3	5.1	55	<1	3.8	0.7	0.4	0.04	slt snd	KSB volcs, GD	Side ck, 75cmx30cm, low flow, gent grad, sand/grvl b.
K-159	657152	5514897	0.7	18.9	4.3	47	<1	4.1	5.2	0.4	0.01	slt snd	KSB volcs, GD	Main ck, 5mx1m, mod flow, gent grad, cobl/sand b.

BROOKMERE PROPERTY AREA RECONNAISSANCE STREAM SEDIMENT SAMPLE SUMMARY

Sample Number	Easting NAD83	Northing NAD83	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au ppb	Sb ppm	Hg ppm	Material	Rock Type	Note
K-160	656880	5514037	0.7	40.5	7.6	59	0.1	4.4	<.5	0.4	0.06	slt snd	KSB volcs, GD	Side ck, 1.5mx20cm, dry, gent grad, cobl/sand b.
K-161	657000	5513968	1.8	37.1	5.7	55	<.1	4.1	1.2	0.4	0.06	crs snd	GD, KSB volcs	Side ck, 75cmx30cm, dry, mod grad, cobl/grvl b.
K-162	656902	5513750	0.7	23.2	5.3	51	<.1	4.7	2.1	0.4	0.02	slt snd	GD oc	Main ck, 5mx70cm, mod flow, gent grad, cobl/grvl b.
K-163	657445	5515507	0.5	19.5	4.5	48	<.1	4	3.3	0.3	0.02	slt snd	KSB volcs, GD	Main ck, 8mx1.5m, mod flow, gent grad, blk/cobl/grvl b.
K-164	657465	5515507	1	67.9	7.6	62	0.3	3.7	1.2	0.4	0.09	crs snd orgs	Lt gm silic volc oc	Side ck, 90cmx30cm, dry, steep grad, cobl/sand b.
K-165	657373	5515556	0.6	25.5	5.6	50	<.1	2.2	1.4	0.3	0.06	slt snd orgs	Various KSB volcs	Side ck, 70cmx20cm, seep, mod grad, mud/sand/grvl b.
K-166	655872	5517589	0.7	21.3	7.3	55	0.1	3.9	3.1	0.2	0.05	slt snd	KSB volcs (PV, pyrocs)	Side ck, 70cmx20cm, dry, mod grad, sand/grvl b.
K-167	651750	5513700	0.5	21.2	7.1	67	0.1	3.6	2.6	0.3	0.05	snd silt	Till, KSB pyroc & crs fspcr PV flt	North side ck, 75x30cm, dry, mod grad, cobl/grvl b.
K-168	651528	5513600	0.6	16.2	7.6	90	<.1	4.1	1.2	0.4	0.03	snd silt	Till, KSB pyroc & crs fspcr PV flt	North side ck, 1.2mx40cm, dry, mod grad, cobl/grvl b.
K-169	652225	5513415	0.7	36.6	6.1	76	0.1	3.6	3.1	0.3	0.06	snd silt orgs	Till, KSB pyroc & crs fspcr PV flt	South side ck, 50x30cm, tinkle, mod grad, sand/grvl atop org mat.
K-170	651875	5513285	0.5	18.1	5.8	69	<.1	3.6	1.5	0.2	0.03	slt snd	Till, KSB pyroc & crs fspcr PV flt	Left (main) br, 1.25mx40cm, tinkle/pools, gent grad, sand/grvl b.
K-171	651738	5513290	0.7	17.2	6.2	67	<.1	4	2.9	0.3	0.03	slt snd	Till, KSB pyroc & crs fspcr PV flt	Right br, 1.25mx40cm, tinkle/pools, gent grad, sand/grvl b.
K-172	650925	5513460	0.7	17.5	6.9	57	<.1	4.3	1.6	0.3	0.03	slt snd	Till cover	SW side br, 75x15cm, dry, gent grad, silt/sand atop org mat.
K-173	650850	5513540	1.2	22.7	6.7	73	0.2	5.2	3.7	0.2	0.05	Moss Mat	Till, KSB pyroc flt	Right br, 80x50cm, dry, gent grad, blk/cobl/org mat b.
K-174	656410	5517396	0.6	28.3	7.2	100	0.2	3.2	3.4	0.3	0.05	slt snd orgs	KSB volcs (PV, pyrocs)	South side ck, 60cmx10cm, dry, gent grad, cobl/org mat b. Old Indg area, cattle disturbed
K-175	655023	5520145	0.5	16.5	6.8	60	<.1	4.8	2.3	0.5	0.04	slt snd	Till bench, KSB volcs higher up.	Lge side br below RGS 5 (Bppb Au) site, 2-3mx0.5m, gent grad, low flow, sand/grvl b.
K-176	655230	5519853	0.6	28.3	7.6	60	<.1	4.4	2.5	0.5	0.04	crs snd silt	Till banks, mixed volc/intrsv flt	Another lge north br. Dry cobbly chnl, mod grad, grvl b. Thick till both sides.
K-177	655520	5519867	0.6	20.2	7.1	59	0.1	4.4	1.9	0.4	0.05	slt crs snd	Various KSB volc flt	Side ck, 2.5mx40cm, dry, steep grad, cobl/grvl b, deep till
K-183	658762	5517735	0.7	23.7	8.2	76	<.1	2.7	3.8	0.3	0.04	slt soil	Till; mixed KSB volcs and pyrocs, PV	Dry shallow pull-y-50x20cm, mod grad. No worm chnl. Poor sample.
K-188	658260	5519000	0.4	25.1	6.3	50	0.2	2.5	2.9	0.3	0.04	slt snd	Till banks, felsic pyroc oc <50m E.	Short Side br Buggy tinkle, gent grad, cobl/org mat b. Good seds atop the blk mud.
K-192	659952	5518531	0.4	17.2	6.3	56	<.1	5.2	2.4	0.2	0.06	sltsnd	Various KSB volc	Lge north side br, 2mx40cm, low flow, gent grad, sand/grvl b.
K-193	659331	5517815	1.4	22.4	6.4	73	0.1	13.7	0.9	0.4	0.06	snd grvl	Various KSB volc	Lge north side br, 2mx70cm, low flow, gent grad, cobl/grvl b, below rd
K-194	660083	5517003	0.7	31.6	6.2	61	0.1	3.4	0.6	0.3	0.07	sltsnd org	KSB volc in DC	Side br, 1mx20cm, dry, gent grad, cobl/grvl org b.
K-195	660776	5516674	0.7	26	5.6	53	<.1	2.7	<.5	0.3	0.05	sltsnd org	Various mid KSB volc	Side br, 3mx30cm, damp, gent grad, mud/grvl b.
K-196	660909	5517612	0.5	33.2	5.5	62	0.1	2.9	0.8	0.2	0.04	sltsnd org	Various KSB volc	Side br, 3mx30cm, dry, gent grad, sand/grvl b.
K-198	656215	5520452	0.5	23.1	5.3	48	0.1	3.1	1.1	0.3	0.05	slt snd	Various KSB volc	Side ck, 3.0mx30m, low flow, gent grad, cobl/grvl b.
K-199	656709	5520826	0.6	24.5	4.6	47	<.1	3.2	0.8	0.3	0.07	slt snd	Various KSB volc	Side ck, 2.0x40m, dry, gent grad, cobl/grvl b.
K-201	653325	5512375	0.4	29.9	4.4	56	<.1	3.1	1.2	0.2	0.04	sltsnd	ORL KSB volcs	Side ck, 2mx30cm, low flow, gent grad, sand/grvl b.
K-202	653428	5512425	0.4	46.9	5	54	0.1	3.1	1.4	0.4	0.06	grav snd	Various KSB volc	Side ck, 1.0x20m, seep, mod grad, sand/grvl.
K-203	652780	5512157	0.3	13.1	4.4	46	<.1	2.9	1.1	0.2	0.02	slt snd	Mixed KSB volc flt, nearby AV/PV oc.	Cattle disturbed chnl-80x30cm, gent grad, cobl/mud b. Good seds atop the org muck.

BROOKMERE PROPERTY AREA RECONNAISSANCE STREAM SEDIMENT SAMPLE SUMMARY

Sample Number	Easting NAD83	Northing NAD83	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au ppb	Sb ppm	Hg ppm	Material	Rock Type	Note
K-204	653305	5510843	0.4	30	4.9	57	<.1	3.4	1.7	0.3	0.03	crs sand	DR intrsv / KSB volc contact zone	Dry chnl, 1.0x3m, mod grad, gnl/cobl base w/bk muddy sections.
K-205	653083	5510743	0.4	25.1	4.8	54	<.1	3.2	0.9	0.2	0.03	silt snd	DR, KSB volcs	Side ch, 1.0mx20cm, seep, mod grad, sand/gnl b
K-206	652786	5510703	0.4	29.3	5.2	61	<.1	3	0.7	0.3	0.04	snd silt	Till, various KSB volc fit	Dry chnl, 75x35cm, mod grad, gnl/cobl base w/orig mat sections.
K-207	652679	5510700	0.7	25.9	5.8	53	<.1	4.2	1.4	0.3	0.03	snd silt	Till, various KSB volc fit	Dry chnl, 0.75-1.0mx25cm, mod grad, s and/gnl base. Short Side pup.
K-209	652008	5510598	0.5	15.3	5.9	54	<.1	4.2	0.9	0.2	0.06	silt snd	KSB volcs	Side ch, 1.0mx20cm, seep, gent grad, sand/gnl b
K-210	651975	5510639	0.8	13.5	4.8	83	<.1	4	0.5	0.2	0.04	silt snd	KSB volcs	Side ch, 2mx30cm, seep, gent grad, sand/gnl b
K-211	651890	5511072	0.7	25.2	8.1	52	0.1	4.6	38.1	0.2	0.03	snd silt	Mixed KSB volc fit	Dry chnl, <50-75cm x 10-40cm, gent grad, variable base from blk mud to sand/gnl.
K-212	651881	5510014	0.6	21.7	4.8	55	<.1	3.4	<.5	0.4	0.02	silt snd	KSB volcs	Side ch, 2mx50cm, low flow, gent grad, sand/gnl b
K-213	651413	5510157	0.7	17.9	5.4	59	<.1	3.9	2.2	0.4	0.02	snd silt	Till, mixed KSB volc fit	Chnl 0.7-1.0m x down to 0.5m, gent flow, mod grad, sand/gnl b.
K-215	651700	5509520	0.8	18.9	6	60	<.1	5.9	4.4	0.3	0.03	silt snd	KSB volcs, intrsvs	Side ch, 4mx50cm, mod flow, gent grad, cobl/gnl b
K-216	651750	5509513	1	23.5	4.8	65	<.1	4	2.2	0.4	0.02	silt snd	KSB volcs, intrsvs	Main trunk, 5mx60cm, mod flow, gent grad, cobl/gnl b.
K-217	650400	5509900	0.8	29	4.9	65	<.1	4.1	2.1	0.5	0.02	silt snd	Dom KSB volcs and PV, also intrsv fit (DR/GO)	Left br, 1.5x0.3m, gent flow/grad, sand/gnl b. Poor GPS Reading. Base map error for jct
K-218	650390	5509920	0.8	22.8	5	68	<.1	4.2	3	0.5	0.02	silt snd	Dom KSB volcs and PV, also intrsv fit (DR/GO)	Right br, 1.7x0.4m, gent flow, mod grad, sand/gnl b. Loan measured relative to 217.
K-219	650756	5509575	1	29.3	5	56	<.1	4.9	1.3	0.3	0.03	silt snd	KSB volcs, intrsvs	Side ch, 3.0x70cm, mod flow, mod grad, cobl/gnl b.
K-220	650257	5508010	3.1	26.6	7.1	64	0.1	5.1	1.9	0.4	0.05	snd grav	KSB volcs, some intrsvs.	Side ch, 1.0x40cm, mod flow, mod grad, sand/gnl b.
K-221	650040	5509060	2.9	35.2	11.8	88	0.1	10.8	3.2	0.5	0.05	silt sand	KSB volcs, some intrsvs.	Side ch, 1.0x40cm, mod flow, gent grad, cobl/gnl b
K-222	650040	5509120	1.3	36.8	6.1	58	<.1	5.1	3.1	0.3	0.03	silt sand	KSB volcs, some intrsvs.	Side ch, 1.5x30cm, low flow, gent grad, cobl/gnl b.
K-223	650757	5509594	0.8	25.1	4.9	78	<.1	4.3	1.5	0.6	0.03	silt snd	Dom KSB volcs, also intrsv fit (DR/GO)	Left br, 1.5x Trunk below 217/218. 1.5-2.0x0.5m, mod flow/grad, sand/gnl b
K-224	651817	5508702	0.8	22	7.3	53	0.1	4.3	1.5	0.2	0.05	silt sand	KSB volcs, intrsvs.	Side ch, 1.0x80, damp, mod grad, sand/gnl b.
K-225	651628	5508671	1.2	22.7	7.1	100	0.2	5.4	2.2	0.3	0.08	silt sand	KSB volcs, intrsvs.	Side ch, 2.0x80cm, dry, mod grad, cobl/gnl b.
K-226	651628	5508672	1.1	18	8.2	69	<.1	6	2.1	0.3	0.03	silt sand	KSB volcs, intrsvs.	Side ch, 3.0x70, mod flow, mod grad, cobl/gnl b.
K-227	653518	5510585	0.8	23.3	4.7	45	<.1	8.1	0.9	0.3	0.03	snd grav	KSB volcs, intrsvs.	Side ch, 1.0x50, dry, mod grad, sand/gnl b.
K-229	654094	5509178	0.4	20.2	6.7	61	0.3	2.5	0.9	0.1	0.04	snd grav	KSB volcs, intrsvs.	Side ch, 1.0mx20cm, gent grad, seep, sand/gnl b
K-231	653588	5508687	0.7	20	7	56	0.3	4.5	<.5	0.2	0.05	silt snd	Pyroc, KSB volcs, intrsvs	Side ch, 1.0mx30cm, seep, gent grad, sand/gnl b
K-233	653962	5507852	1.7	18.7	8.2	227	0.2	4.4	4.2	0.2	0.03	silt snd	Till, KSB volc fit and pyrocs, PV	Long west br, 1-1.5x0.5m chnl, gent grad, trickle, sand/gnl b.
K-234	653258	5507306	3.5	21.2	10	407	0.2	5.3	2.8	0.2	0.05	silt snd	AV (lapilli luff) oc in stream bed	Same br as 233. 1-1.5x0.35m, mod grad, gent flow, cobl/gnl/bedrock b.
K-235	651617	5512780	0.4	18.1	5.3	49	<.1	3.6	2.9	0.2	0.02	silt snd	KSB volcs, intrsvs	Side ch, 2.5mx70cm, dry, mod grad, cobl/gnl b
K-236	651622	5512785	0.9	38.6	7.7	52	0.3	5.6	1.1	0.2	0.05	silt snd	KSB volcs	Side ch, 75cmx30cm, dry, mod grad, cobl/silt b
K-237	651116	5511849	0.6	15.7	6.5	49	0.1	3.1	0.5	0.3	0.05	silt snd	KSB volcs, pyroc, intrsvs	Side ch, 70cmx10cm, dry, gent grad, sand b
K-238	651066	5511825	0.6	15.3	6.2	45	<.1	3.4	<.5	0.2	0.03	silt snd	KSB volcs, intrsvs	Side ch, 70cmx10cm, dry, gent grad, sand b. poor channel
K-239	650637	5512209	0.4	14.4	5.7	70	<.1	3.6	0.8	0.2	0.02	snd gnl	KSB volcs, pyroc	Side ch, 1.5mx20cm, dry, gent grad, cobl/gnl b
K-240	650775	5512380	0.3	15.6	5.7	53	0.1	3.2	1.5	0.2	0.03	snd silt	KSB volc fit, various types	Dry chnl disturbed by old logging, 75x15cm, gent grad, sand/gnl atop org mat.

BROOKMERE PROPERTY AREA RECONNAISSANCE STREAM SEDIMENT SAMPLE SUMMARY

Sample Number	Existing NAD83	Northing NAD83	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au ppb	Sb ppm	Hg ppm	Material	Rock Type	Notes
K-241	650537	5513837	0.5	13.7	7.7	63	0.1	3.8	2.7	0.2	0.06	crs snd	KSB R & drk pyroc flt, local oc.	Dry cobbly chnl 35-85x10-30cm, mod grad, crs sand/grvl atop org mat. Poor sed.
K-242	650164	5513385	0.7	23	4.6	65	<1	4.4	2	0.2	0.03	snd slt	Tilt, KSB volc flt	Mainly dry, 1-1.5x0.2m, gent grad, small stagnant pools, good clean sed atop org mat.
K-244	654516	5506685	0.8	24.9	6.2	51	<1	4.6	1.6	0.3	0.03	slt snd	KSB volc oc, intrsv	Side ck, 1.0mx50cm, low flow, mod grad, cobi b
K-245	654516	5506700	0.8	20.6	6.5	54	0.2	3.4	0.9	0.2	0.03	slt snd	KSB volc, intrsv	Side ck, 75cmx30cm, low flow, mod grad, grv/sand b
K-246	654677	5506706	0.9	21.7	5.7	57	0.1	4.3	1.4	0.2	0.03	snd grvl	KSB volc, intrsv	Side ck, 1mx40cm, mod flow, gent grad, grv/sand b
K-247	654835	5506450	1.1	21.6	8.1	239	0.2	4.4	1.3	0.2	0.03	slt snd	KSB volc, intrsv oc	Side ck, 1.5mx75cm, mod flow/grad, cobi/grvl b
K-248	654900	5506425	1.2	23.2	7.7	188	0.2	4.4	3.3	0.2	0.04	slt snd	KSB volc, intrsv	Main Side ck, 2.5mx1m, dry, gent grad, s and/grvl b
K-249	655096	5506025	1.8	23.7	10.1	82	0.2	5.3	1	0.3	0.03	snd grvl	Cy alt, KSB volc oc	Side ck, 75cmx30cm, seep, steep grad, cobi/grvl b
K-250	654974	5507649	1.4	25.4	7.1	141	0.2	4.4	1.2	0.2	0.04	slt snd	KSB volc, intrsv	Main Side ck, 3mx30cm, low flow, gent grad, sand/grvl b
K-252	655040	5507060	1.3	25.5	8.1	137	0.2	4.3	1	0.2	0.04	snd slt	KSB volcs, PV & pyroc in local oc	Main trunk 1.5-3.0x0.2-0.5m, gent flow/grad, sand/grvl b.
K-253	655545	5509966	0.9	25.6	7	68	0.2	4.8	3.1	0.3	0.04	crs snd	KSB volcs, PV & pyroc in local oc	Nearly dry cobbly chnl 1-1.5x0.3-0.7m, gent grad, stagnant pools, grv/org mud b. m
K-254	655752	5510553	0.9	30	6.4	71	0.2	5.2	1.6	0.4	0.06	snd grvl	All PV OC	Side ck, 1.5mx40cm, seep, gent grad, grv/sand b, below rd
K-255	655992	5510438	0.4	17.3	5.7	57	<1	3.1	1.2	0.3	0.03	slt snd	KSB volcs, intrsv	Side ck, 2mx20cm, gent grad, grv/sand b, all PV in area
K-256	656129	5511140	0.5	29.8	5.8	39	0.1	4.1	1.9	0.3	0.04	snd slt	OB cover, dom DR pebbles/cobb	Dry chnl 50-75x20-40cm, gent grad, grv/org mat b.
K-258	656114	5510020	0.4	16.2	5	48	<1	2.6	<5	0.3	0.01	slt snd	KSB volc, intrsv	Side ck, 2.0x40m, dry, gent grad, bldr/cobi b.
K-259	656189	5509618	0.5	16.3	4.8	48	<1	2.6	<5	0.3	0.03	slt snd	KSB volc, intrsv	Side ck, 2.0x40m, dry, gent grad, sand/grav b.
K-260	656089	5509082	1.8	29.1	8.6	82	0.4	7.6	0.9	0.4	0.08	slt snd	Pyroc, PV, intrsv.	Side ck, 1.0x30m, dry, gent grad, cobi/grvl b, some orgs, poor sample.
K-261	656561	5506757	0.5	23.7	6.3	51	0.1	3.3	<5	0.3	0.03	slt snd	Pyroc, PV, KSB Volcs, intrsv.	Side cr. 75x20m, dry, gent grad, sand/grav b
K-262	656534	5506752	0.4	17.4	5.5	54	0.1	3.5	0.7	0.4	0.02	slt snd	Pyroc, PV, KSB Volcs, intrsv.	Side cr. 75x20m, dry, gent grad, sand/grvl b
K-264	653993	5511577	0.4	26.4	4.9	62	<1	4.6	<5	0.2	0.02	slt snd	KSB volcs	Side cr, 1.0mx30cm, dry, gent grad, sand/grvl b
K-265	654361	5511571	0.5	52.7	6.4	36	0.1	4.3	<5	0.2	0.04	slt snd	KSB volcs, DR	Side cr, 70cmx20cm, dry, gent grad, sand/grvl b, some orgs
K-266	655047	5511829	0.4	53.2	4.6	52	0.1	2.9	1.1	0.2	0.04	slt snd	KSB volcs, DR	Side cr, 70cmx20cm, dry, gent grad, grvl b
K-267	656273	5507166	0.3	25.2	5.2	52	0.1	2.5	1.1	0.2	0.08	snd slt	OB cover	Dry chnl 50x15cm, gent grad, sand/grvl patches atop A-B soil b.
K-268	656870	5507250	0.4	20.8	4.7	61	<1	3.7	1.4	0.4	0.03	slt snd	KSB volcs, DR	Main side ck, 2.0mx60cm, low flow, mod grad, cobi/grvl b
K-269	658911	5507273	0.4	20.7	4.8	64	0.1	2	0.8	0.3	0.13	slt snd	KSB volcs	side ck, 70x30cm, seep, gent grad, sand/grvl b
K-271	657763	5507341	0.6	19.7	4.8	57	<1	3.5	1	0.4	0.04	slt snd	KSB volcs, DR	Main side ck, 2.5mx50cm, dry, mod grad, sand/grvl b
K-272	657744	5507360	0.3	18.4	5	63	<1	2.6	<5	0.3	0.03	slt snd	KSB volcs, DR	Side cr, 70cmx40cm, seep, gent grad, cobi/grvl b
K-273	657996	5507437	0.5	28.3	5.3	55	0.1	3.3	18.2	0.3	0.03	snd slt	OB cover, mixed volc & intrsv (DR) flt	Dry chnl 50x10-40cm, mod grad, sand/grvl patches atop A-B soil b.
K-274	659678	5508572	0.4	19.5	3.6	65	0.1	2.1	<5	0.3	0.07	slt snd	PV, pyroc	Main side ck, 2mx20cm, low flow, gent grad, slt/sand b, some orgs
K-275	659265	5508400	0.3	19.9	4.8	73	<1	2.6	1.1	0.3	0.03	slt snd	KSB volcs, DR	Side ck, 3.0mx20cm, dry, gent grad, sand/grvl b
K-276	656778	5508328	0.3	22.4	5.2	48	0.1	2.9	0.7	0.3	0.02	slt snd	KSB volcs	Side ck, 1.5mx50cm, dry, gent grad, sand/grvl b

BROOKMERE PROPERTY AREA RECONNAISSANCE STREAM SEDIMENT SAMPLE SUMMARY

Sample Number	Easting NAD83	Northing NAD83	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au ppb	Sb ppm	Hg ppm	Material	Rock Type	Note
K-283	659210	5511828	0.3	20.8	4.3	74	<.1	4.7	0.5	1.4	0.03	silt sand	Tuff, KSB pyroc & VB #1, also some RV	Small dry gully. 40x100cm, gent grad, gravel/sand b.
K-284	658586	5511878	0.5	25.4	5.8	81	<.1	3	0.5	0.5	0.04	sand silt	Tuff, dom KSB volc ft	V-gully w/0.75-1.0x0.25m chnl, mod grad, stagnant pools, blk mud w/sand/grvl patches.
K-285	658402	5511465	0.5	29.9	6	57	<.1	4.8	1.4	0.4	0.04	silt sand	PV, KSB volcs, DR.	Main side ck, 1.0mx40cm, seep, gent grad, cobb/sand b.
K-287	657874	5510958	0.3	21.4	6.7	56	<.1	3.5	<.5	0.2	0.02	silt sand	KSB Volcs.	Side ck, 75cmx30cm, dry, mod grad, sand/grvl b.
K-290	657207	5512771	0.4	37.6	5.8	42	0.2	4.1	1	0.2	0.07	silt sand	OB cover, KSB volc ft	Side ck, 70cmx20cm, seep, mod grad, sand/grvl b.
K-282	660175	5514091	0.5	27.4	5.8	41	0.1	4.4	<.5	0.3	0.07	sand grav	Mafic pyroc oc	Side ck, 1.0mx50cm, seep, mod grad, cobb/grvl b.
K-294	659134	5513306	0.4	22.5	6.6	49	0.1	3.7	0.8	0.4	0.07	silt sand	KSB volcs incl RV	Side ck, 1.0mx30cm, seep, mod grad, cobb/grvl b.
K-295	658842	5513435	0.5	27.4	5.7	47	0.2	3.5	0.9	0.4	0.09	grav sand	KSB volcs, mafic, pyroc, DR	Side ck, 1.0mx40cm, dry, mod grad, cobb/grvl b.
K-298	660416	5510852	0.5	27.5	5.3	53	<.1	4.3	1.8	0.6	0.04	sand silt	OB cover	Chnl 1-2mx0.3m, gent flow/grad, sand/grvl b.
K-299	660402	5516056	0.6	26.3	6.8	64	<.1	3.9	<.5	0.3	0.05	grav sand	KSB volcs.	Side ck, 1.0mx40cm, dry, mod grad, cobb/grvl b.
K-300	660111	5515899	0.6	28.3	8	69	<.1	3.4	<.5	0.2	0.04	silt sand	KSB volcs.	Side ck, 70cmx40cm, dry, mod grad, cobb/grvl b.
K-301	660507	5517386	0.4	20.8	5.8	68	<.1	4.3	3.7	0.3	0.05	silt sand	KSB volcs, DR	Main side ck, 2.5mx70cm, dry, mod grad, cobb/grvl b.
K-302	660682	5508851	0.5	24.1	4.5	54	<.1	3.4	0.5	0.4	0.05	silt sand	KSB volcs, DR	Main side ck, 2.0mx25cm, mod flw, gent grad, cobb/grvl b.
K-303	661488	5511400	0.8	20.5	4.8	49	<.1	3.9	2.1	0.4	0.04	silt sand orgs	Mafic tuff, KSB volcs.	Side ck, 60cmx25cm, dry, steep grad, cobb/grvl b. Poor sample.
K-304	661441	5512300	2.2	26	14.5	82	0.2	19.2	3.9	0.8	0.08	sand silt orgs	KSB volcs, tuff	Side ck, 60cmx25cm, dry, steep grad, cobb/grvl b. Poor sample, partial moss mat w/B soil.
K-305	660545	5509390	0.5	28.8	4.6	55	0.1	3.8	1.1	0.5	0.05	sand silt	Dom KSB volc ft, also some DR/GD	Main br 1-2mx0.3-0.5m, gent flow/grad, sand/grvl b.
K-306	649723	5515349	0.7	16	6.9	48	0.2	3.5	1	0.2	0.05	silt sand	KSB volcs, PV	Side ck, 50cmx20cm, seep, mod grad, sand/grvl b.
K-307	649871	5515405	0.5	11.5	6.4	55	<.1	3.1	<.5	0.2	0.03	sand grvl	KSB volcs, pyrocs & PV	Side ck, 1.5mx50cm, low flow, mod grad, cobb/grvl b.
K-308	650687	5515368	0.6	13.8	7.2	66	0.2	4.7	<.5	0.1	0.05	sand grvl org	KSB volcs, pyrocs	Side ck, 60cmx20cm, dry, mod grad, grvl/org b. Poor sample.
K-309	650696	5515327	0.6	13.2	7.2	62	0.2	4.2	<.5	0.2	0.04	sand grvl	KSB pyroc oc	Side ck, 60cmx20cm, dry, mod grad, cobb/grvl b.
K-310	650819	5515359	0.7	12.3	4.9	57	<.1	3.2	<.5	0.2	0.02	sand grvl	KSB volcs, pyrocs	Side ck, 75cmx40cm, low flow, mod grad, sand/grvl b.
K-311	652602	5519687	0.5	11.5	6.7	58	<.1	3.4	<.5	0.1	0.03	sand grvl	KSB volcs, dom pyrocs	Side ck, 85cmx30cm, dry, mod grad, cobb/grvl b.

BROOKMERE PROPERTY AREA RECONNAISSANCE SIEVED SEDIMENT SAMPLE SUMMARY

Sample Number	Eastng NAD83	Northing NAD83	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au ppb	Sb ppm	Hg ppm
Silt Size Fraction Analysis											
K-120S -230	651122	5519011	1.40	24.60	7.10	74.00	<0.1	4	2.4	0.2	0.03
K-128S -230	655164	5517680	0.60	22.00	7.40	70.00	<0.1	6	2.1	0.2	0.04
K-142S -230	652612	5513786	1.00	22.50	6.90	82.00	<0.1	4.9	1.6	0.3	0.03
K-175S -230	655023	5520145	0.60	18.50	6.90	61.00	<0.1	5	1.5	0.5	0.03
K-177S -230	655520	5519887	0.80		24.40	8.40	<0.1	5.4	3.8	0.3	0.04
K-178S -230	655842	5519138	0.80	25.70	7.30	54.00	0.1	3.4	1.3	0.3	0.03
K-178S -80+230	655842	5519138	0.6	23.1	6.3	60	0.1	3.3	<5	0.3	0.03
K-179S -230	656877	5518718	0.6	31.8	9	64	0.1	3.3	1.6	0.4	0.04
K-179S -80+230	656877	5518718	0.6	27.1	8.8	68	<1	3.7	2.4	0.4	0.04
K-180S -230	657020	5518752	0.8	33.4	8	62	0.2	4.1	1.8	0.2	0.05
K-180S -80+230	657020	5518752	0.6	29.3	7.7	68	0.2	4.3	<5	0.3	0.04
K-181S -230	657666	5518694	0.6	36.4	10.9	68	0.2	5.1	2.5	0.4	0.04
K-181S -80+230	657666	5518694	0.6	34.7	10.3	76	0.2	4.9	<5	0.5	0.04
K-182S -80+150	658460	5517849	0.7	30.2	6.9	64	<1	5.8	3.6	0.5	0.04
K-184S -80+150	658814	5517710	0.8	22.7	7.9	79	0.1	3.8	1.7	0.3	0.05
K-185S -80+150	658820	5517663	1	32.9	21.7	119	0.2	10.7	2.7	0.3	0.08
K-187S -80+150	658646	5519064	0.5	31.4	8.2	73	0.3	6.1	2.6	0.4	0.07
K-188S -80+150	658619	5518555	0.6	21.1	7.5	68	<1	4.5	1.2	0.4	0.06
K-189S -80+150	659412	5518754	0.5	26.3	6.8	64	0.2	5.3	2	0.2	0.06
K-190S -80+150	660267	5520220	0.5	16.8	6.5	49	<1	4.6	1.7	0.3	0.03
K-191S -80+150	658965	5520863	0.5	16.9	7.6	68	<1	5.1	1.6	0.4	0.01
K-197S -80+150	655353	5520718	0.3	37.3	6.7	56	0.1	3.3	2	0.3	0.05
K-200S -80+150	654002	5512029	0.4	32.2	4.4	56	0.1	3.5	1.2	0.3	0.04
K-208S -80+150	652465	5510634	0.4	21.9	5	58	<1	3.7	2.4	0.3	0.03
K-214S -80+150	652530	5509790	0.6	23.7	5.7	56	<1	4.7	1.4	0.3	0.03
K-223S -80+150	654550	5510787	0.6	30	4.9	54	<1	6.9	1.9	0.4	0.06
K-230S -80+150	653810	5508773	0.5	18.4	6	69	0.2	3.4	0.9	0.1	0.04
K-232S -80+150	655615	5508342	1.3	22.2	5.8	57	0.2	4.6	2	0.3	0.04
K-243S -80+150	654672	5509415	0.7	26.4	5.2	80	0.2	4.2	1.8	0.2	0.06
K-251S -80+150	656022	5507630	0.7	48.5	8.8	113	0.2	5.4	3.1	0.4	0.03
K-257S -80+150	656040	5510300	0.5	24.5	6.1	69	<1	3.2	0.7	0.3	0.03
K-263S -80+150	656595	5508775	0.6	30.9	5.7	59	0.2	4.2	0.9	0.3	0.04
K-270S -80+150	658024	5507553	0.5	16.8	4.9	95	<1	3.2	2	0.4	0.03
K-277S -80+150	659622	5509398	0.3	20.8	5	77	<1	3.4	1.3	0.4	0.02
K-278S -80+150	659666	5509472	0.4	32.2	5	60	0.2	4.7	2.4	0.3	0.03
K-279S -80+150	659407	5510396	0.3	20.4	5.3	60	<1	4.1	1.1	0.5	0.02
K-280S -80+150	659364	5510483	0.3	25.4	5.2	62	<1	3.3	2.4	0.4	0.02
K-281S -80+150	659072	5511800	0.5	21	4.8	63	<1	3.8	1.4	0.6	0.02
K-282S -80+150	659027	5511523	0.4	18.2	4.9	72	<1	3.2	1.3	0.7	0.02
K-286S -80+150	658069	5511062	0.3	29	6.1	78	<1	3.1	1.8	0.5	0.02
K-288S -80+150	657853	5511076	0.5	23.2	5.3	75	0.1	5	0.6	0.3	0.03
K-289S -80+150	657075	5510815	0.2	35.5	5.6	63	0.1	3.8	0.5	0.2	0.02
K-291S -80+150	660329	5514849	0.7	22.6	5.6	74	<1	4.6	1.7	0.4	0.02
K-293S -80+150	660201	5513950	0.5	21.1	5.4	61	<1	3.2	1.7	0.3	0.04
K-296S -80+150	660287	5512388	0.5	45.4	5.8	50	0.3	5.7	1.1	0.3	0.08
K-297S -80+150	660480	5513065	0.7	27.5	6.5	68	<1	7.7	0.8	0.4	0.04
K-323 -80+150	650607	5516784	0.7	22.7	14.1	62	0.2	4.3	1.9	1.4	0.08
K-324 -80+150	650597	5516790	0.8	12.4	6.2	66	<1	3.7	1.5	0.5	0.03
K-325 -80+150	650383	5516439	0.5	15	7.9	66	<1	2.6	1.2	0.5	0.06
K-326 -80+150	650141	5516081	0.6	23.9	5.9	79	0.1	2.8	<5	0.2	0.04
K-327 -80+150	650220	5517366	1.2	24.6	7.5	57	0.1	3.4	<5	0.4	0.03
K-328S -80+150	651823	5523409	1.1	23.9	9.3	95	0.2	5.3	3.6	0.5	0.04
K-329 -80+150	651136	5519138	0.5	27.9	8	84	0.2	4.5	1.5	0.6	0.07
K-330 -80+150	651034	5522277	1.1	27.4	7.1	59	0.2	2.5	<5	0.4	0.05
K-331 -80+150	651037	5522272	1.1	23.3	8	53	0.1	3.4	0.8	0.5	0.04

BROOKMERE PROPERTY AREA RECONNAISSANCE ROCK SAMPLE SUMMARY

Sample Number	Easting NAD83	Northing NAD83	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au ppb	Sb ppm	Hg ppm	Rock Type	Note
Rock Samples													
K-R32	651117	5519020	13.4	3.6	1.8	10	0.1	5.3	1	0.2	<.01	QVbx	Single pc, quite mded, 15-20cm diameter.
K-R33	651121	5519034	0.9	1.3	2.4	7	<.1	1.5	<.5	0.1	<.01	QV/ST network in volc host	Single pc, quite mded, 7x9x16cm. Vns <0.5-3cm width
K-R34	650984	5518591	2.3	2.5	22.6	21	19.5	1.1	11260.5	0.2	0.07	QV	Single pc, submd/subang. ~10x10x25cm. 11260 ppb Au!
K-R35	650770	5509623	1.6	1	5.3	48	0.5	1.4	13.9	0.1	0.03	AV hosted QZ vls	Single subang pc ~10x10x15cm. Vague stb/vns 2-12mm.
K-R36	653988	5507687	1.3	2.6	1	5	<.1	0.9	2	0.1	<.01	AV (w/?)QV	Single ang lgnrl 3-4. 5x8x15cm. Minor lry drusy cavs. No flag/tag at site
K-R37	650876	5515327	7.9	1.7	5.3	11	0.1	3.3	15.2	0.2	0.02	RV hosted QV	Ang ltr. Grassy, drusy w/brkr QV 2.5-4cm wide 2nd, smaller pc w/1mm stb. No flag/tag.
K-R38	650780	5515618	0.4	4.7	2.1	29	<.1	2.1	1.9	0.1	0.01	Tuffaceous AV	Single tab pc 4.5x8x10cm, mded edges. No flag/tag.
K-R39	650680	5516205	0.3	1.4	5.8	7	<.1	3.5	1.8	0.1	0.01	AV pyroc	Subang lgnrl 4x10x10.5cm loc on rd-200m N'arly from R38. No flag/tag.
K-R51	651051	5518330	0.6	1.5	1.3	3	<.1	<.5	0.6	<.1	0.03	QV	Single pc, subang 25x18x12cm, found in ck.
K-R52	650963	5518380	5.2	2.3	0.8	19	<.1	<.5	<.5	0.1	<.01	?	1pc 28x28x11cm subang. Highly silic bx w/brkr green matrix. Found in ck
K-R53	650963	5517654	14.7	2.8	7.7	6	<.1	31	2	1	0.27	Rhyolite	1pc 16x8x6cm subang. Buff wht, medgr. Found in ck.
K-R54	652010	5521752	23	1.9	7.1	53	0.1	2.7	<.5	0.2	0.01	RV tuff	1mm-scale comb-texture QZ vls w/some intergrown CA.
K-R55	652125	5522282	31.3	5.1	7.4	70	0.3	10.5	3.2	0.4	0.01	Volc Tuff	1pc 90x70x15cm, subang.
K-R56	652170	5522930	17.1	3.8	7.5	7	1.6	16.5	3.4	0.4	0.01	QV	Comp of chips from 3 pcs, 4x7x10cm to 7x7x10cm, over 3x4m area. Abund drusy cavs.
K-R57	652155	5522935	2.7	6	3.8	21	<.1	8.1	1.9	0.2	<.01	PV w/QZ stb	Numerous pcs taken over 1 sq m area. Minor bx throughout.
K-R58	652159	5522978	3.3	11.3	6.3	41	0.1	8.4	0.8	0.4	0.01	QVbx	Subang 12x12x15cm lgnrl. Drusy cavs, radial comb-text QZ ground and hostrock clasts.
K-R59	652153	5522960	4.8	15.1	5	44	0.2	23.6	6.7	0.3	0.01	AV porph	Drusy, glassy QVls 1mm-2cm width.
K-R60	652159	5522920	17.2	4.5	8.1	44	0.3	27.3	3.3	0.6	<.01	Porph AV	1 ang pc 10x12x15cm.
K-R61	652080	5523150	3.2	1.5	9.6	6	<.1	3.6	0.8	1.2	<.01	QZ	1 pc 14x10x8cm mded.
K-R62	652195	5523208	33.4	8.8	9	47	0.2	20.1	4.6	0.5	<.01	AV porph(?)	Network of bry QZ stb. Bleached rock. Ang rubble, essentially broken sc.
K-R63	652188	5523221	0.5	12.7	4	89	<.1	5.8	<.5	0.1	<.01	QZbx/AV	Sample taken in 1mu 1m area of broken subcrop.
K-R64	652150	5523340	0.4	3.4	7.7	7	<.1	0.7	0.6	0.1	<.01	AV taphi tuff	Tabular pc 5x15x18cm. Rock mass cut by maroon silic band w/Cl-std lgnrls.
K-R65	651820	5523500	35.1	9.3	32.5	47	19.8	6	37.6	0.6	0.12	RV (rhyolitic volc?)	QZ stb up to 1cm width.
K-R66	651853	5523585	82.3	3.9	14	17	1.8	54.1	42	1.1	<.01	QV/AV	Sample taken in 1mu 1m area of broken outcrop.
K-R67	651854	5523590	3	13.1	8.6	27	0.4	92.2	31.4	1	0.01	AV	Broken cc. Sampled material cut by bry drusy QZ stb/cavs.
K-R68	651895	5523538	26.8	6.3	3.8	18	0.8	16.8	4.1	0.2	0.01	AV/QV	QVs to 2cm width.
K-R69	651981	5523601	62.7	4.7	8.2	11	1.3	11.8	5.3	0.5	<.01	QVbx rubble	Chips from several pcs, 20-30cm in width. Some w/alter stage w-cutting stb.

BROOKMERE PROPERTY AREA RECONNAISSANCE ROCK SAMPLE SUMMARY

Sample Number	Easting NAD83	Northing NAD83	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au ppb	Sb ppm	Hg ppm	Rock Type	Note
K-R70	651979	5523588	89.2	4.7	8.5	8	1.8	8.9	8	0.5	0.01	QV rubble	1 ang pc 15x13x8cm.
K-R71	651942	5523834	121.1	4.3	14.8	22	1.8	27.5	6.5	0.9	0.01	QV in AV &/or DV-RV(?)	Local source ang rubble. Mn/Alc host pcs 10-13cm width. Loc on SBW's claim.
K-R72	651917	5523694	24.8	9	6.7	28	0.7	3.2	1.7	0.5	<.01	QV-salic AV (lapilli tuff)	RW 15/755W, FW 17/0-183-80W. Irreg Mn/Alc host band 20cm tw. Loc on SBW's claim.
K-R73	651915	5523703	49.2	3.2	7.5	14	1	7.6	2.1	0.6	0.01	QV-salc AV	Ang/rounded rubble near source. Comp of chips from several bldrs up to 27x50x80cm. SBW claim.
K-R74	652892	5522447	0.7	1.8	2.9	5	<.1	<.5	0.5	0.2	<.01	QZ-CA vn in RV	Single ang pc 7.5x10x20cm. In part skeletal QZ network w/irreg open cavs coated by MnO.
K-R75	652632	5523040	1.5	2.3	1.7	10	2.9	4.7	124.8	0.3	0.02	QVbx	Single ang pc 4.5x5x7cm. ~50% may w/ht chalcid QZ w/irreg druses, 40% HE SI bx matrix.
K-R76	652998	5523609	1	7.4	1.1	3	0.5	21.4	120.4	0.4	0.01	QV	1 pc 12x7x8cm ang. Fgr & xls QZ, some banding.
K-R77	653006	5523651	1.3	2	0.7	3	0.2	6.6	17	0.4	0.04	QV	1 pc 11x7x5cm. Some light gy banding.
K-R78	653224	5522110	2.6	5.8	2.8	5	0.1	22.7	38.8	0.4	<.01	QVbx, RV	1 pc 15x5x5cm, tabular. QZ matrix, rhyolite fgrnts.
K-R79	652273	5522795	3.4	11.4	8	36	0.1	8.9	14.6	0.3	0.02	Porph AV, QZ vts	Single ang pc 5x15x18cm. Altd AV w/irreg network of comb-texture vts mm-scale to 2-cm width.
K-R80	651099	5519240	24.1	3	3.8	33	0.5	4.3	5.9	0.2	0.01	QZ floored RV	1 pc 13x9x5cm subang. Flt found in dk K-125.
K-R87	650989	5523010	1.6	3.3	12.2	45	<.1	2.4	1.4	0.1	<.01	PV w/QZ sls	Numerous pcs taken over 3x2m area in road cut.
K-R88	650980	5523000	0.5	23.8	2.7	41	<.1	9.8	<.5	0.8	0.01	PV w/QZ sls	1 pc 15x14x7cm tabular. Similar look to K-R87. Found in rdcut.
K-R89	650715	5522929	12.4	1.1	11.4	19	<.1	1.7	0.5	0.4	<.01	RV	Comp sample taken over 2x2m area.
K-R90	651546	5523625	7.5	1.6	24.4	36	<.1	0.6	<.5	0.3	0.02	RV(?) w/QZ sls	Chips from several ang pcs up to 8x10x12cm. On SBW's of CB/OX altd AV cc-30m to SSW.
K-R93	651640	5521660	1.2	3.1	5.2	59	<.1	2.9	0.7	0.1	<.01	RV w/QZ sls	Comp sample from many pcs over ~30m of rdcut. Networks of sls 1-6mm width.
K-R94	651648	5521662	4.9	1.4	5.8	9	<.1	9.4	12.9	0.3	<.01	RV w/QZ sls	Single subang fgrnt - 10x12x12cm high up in rdcut.
K-R95	651639	5521664	3.1	1.7	4.9	16	0.3	18.1	9.9	1	<.01	RV(?) w/QZ sls	Comp of several ang to partly submd pcs. up to 7x8x17cm, over-10m radius area.
K-R96	651779	5517813	5.2	7.1	25.8	9	0.5	10.6	3.8	0.8	0.01	RV/QVbx	Single submd cobble 8x10x16cm in fill bank. Drusy cavs.
K-R97	652210	5517408	0.5	5.2	8.1	28	0.5	20.2	114.4	0.7	0.02	RV w/QZ sls	Single submd/subang pc 5x7x8cm on buf bank. Small size sample.
K-R98	651616	5517597	100.6	2.4	33.8	11	2.1	14.7	37.9	2	0.01	RV-AV/QVbx	Comp of 2 subang/submd pcs 5x7x8cm & 3x3.5x6cm in fill, near jct w/main rd. Small sample.
K-R99	651308	5523047	2.5	2.8	2.3	25	0.1	1.9	1.3	0.1	<.01	AV, lapilli tuff	Chips from 18x30x30cm cobble. mded one side.
K-R100	650722	5522913	15.7	8.9	10.3	39	0.8	1.9	17.4	0.1	<.01	AV, lapilli tuff	Selected chips from several pcs ang rubble within 7-8m of similar oc.
K-R101	651643	5523430	6.8	2.2	8.3	30	<.1	1.1	5.1	0.3	<.01	RV(?)	Ang rubble, close to source. Sheeted QZ flts, several cm apart.
K-R102	651602	5523576	12.2	61.7	5.2	65	0.1	10.3	17.9	0.1	0.03	AV	Ang rubble/broken pc on E side of tholomge w/axial trans 020 az.
K-R103	651615	5523620	26.7	1.7	9.9	20	0.3	14.8	11.5	0.5	<.01	RV or bleached AV(?)	Irreg network of sls in silc, pale gm-gy hostrock.
K-R104	651527	5523621	6.7	2.2	4.1	13	<.1	2.8	0.8	0.3	<.01	RV or bleached AV(?)	Whit, semi-clear & rosy, submd textured QZ in highly tilted pale grey hostrock.

BROOKMERE PROPERTY AREA RECONNAISSANCE ROCK SAMPLE SUMMARY

Sample Number	Easting NAD83	Northing NAD83	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au ppb	Sb ppm	Hg ppm	Rock Type	Note
K-R105	651643	5523600	34.6	9.7	9.4	15	0.9	5.7	0.6	1.3	<0.01	QV	7-12cm QV thickness. Sample located within drift of trench sample BMT061-R4, from D-15cm.
Continuous Chip Samples													
K-R106	651644	5523597	49.5	5	6.3	48	0.3	9.5	2.9	0.4	<0.01	RV(?) or bleached AV	Strongly silic pale grey hostrock. QVils sparse overall.
K-R107	651636	5523580	14.4	3.1	6.4	40	<.1	2.8	0.7	0.3	<0.01	RV(?) or bleached AV	Silic pale grey, tan, green hostrock. QVils (mm-scale) sparse overall.
K-R108	651653	5523578	15.8	8.9	6	57	0.2	20.6	6.5	0.3	0.01	AV, (epilit) tan (70%); RV(?) (30%)	Western 30% of sample (20cm width) very rusty orange weathered.
K-R109	651651	5523578	15.5	8.3	5.2	53	<.1	10.3	6.2	0.3	<0.01	Altd AV or RV(?)	LI tan to gy-brn very hard, tenacious rock. QVil density > than in R108 (contig to E.)
Trench Samples													
BMT061-R1	651643	5523600	116.4	2.8	18.6	85	0.8	12.2	2.7	0.7	<0.01	Si-AK altd RV (?)	Irreg network of xtn QZ sts <1cm width
BMT061-R2	651643	5523600	97.1	3.4	23.7	101	0.6	10.5	2.6	0.6	<0.01	Si-AK altd RV (?)	HE, LI and MnO siln
BMT061-R3	651643	5523600	72.1	2.9	19	96	0.3	8.8	1.4	0.4	<0.01	Si-AK altd RV (?)	HE, LI and MnO siln
BMT061-R4	651643	5523600	63.8	10.8	13.4	59	0.4	5.3	1.5	0.7	0.01	Si-AK altd RV (?)	HE, LI and MnO siln, intense silic and QV-flooded
BMT061-R5	651643	5523600	33.3	2.3	16.3	109	0.2	7.2	2.9	0.3	<0.01	Si-AK altd RV (?)	same gy-rusty brn rock as above



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Aq ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Hg ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Co ppm	Se ppm	Sample gm
K-167	.5	21.2	7.1	67	1	17.0	9.9	1055	3.03	3.6	1.5	2.6	1.1	88	.3	.3	1	58	.94	.063	43	21	.65	172	.046	1	2.79	.023	.12	1	.05	9.9	1	<.05	8	<.5	15
K-168	.8	16.2	7.6	90	<.1	14.0	9.9	784	2.86	4.1	.6	1.2	1.1	72	.1	.4	.1	71	.63	.056	18	18	.52	142	.075	2	1.53	.029	.09	1	.03	5.0	1	<.05	6	<.5	15
RE K-168	.8	15.3	7.5	87	<.1	13.2	9.3	754	2.58	3.6	.6	1.4	1.1	73	.2	.3	1	65	.61	.060	19	17	.53	143	.069	1	1.57	.027	.08	1	.03	4.9	1	<.05	5	<.5	15
K-169	.7	36.6	6.1	76	1	15.5	10.0	769	2.80	3.6	1.2	3.1	.8	59	.2	.3	1	75	1.02	.058	23	25	.64	153	.068	3	2.45	.021	.06	1	.05	6.8	1	.06	7	.6	30
K-170	.5	18.1	5.8	69	<.1	12.3	9.6	738	2.61	3.6	.6	1.5	.9	62	.1	.2	.1	71	.63	.057	13	19	.60	126	.078	1	1.85	.021	.06	1	.03	5.3	1	<.05	6	<.5	30
K-171	.7	17.2	6.2	67	<.1	15.9	9.8	831	2.58	4.0	.7	2.9	.9	73	.2	.3	.1	65	.71	.058	18	20	.61	135	.082	2	1.80	.025	.07	1	.03	5.0	1	<.05	6	<.5	30
K-172	.7	17.5	6.9	57	<.1	12.5	9.3	814	2.70	4.3	.7	1.8	1.1	63	.2	.3	.1	67	.67	.048	16	18	.59	144	.073	<.1	1.78	.019	.07	1	.03	4.9	1	<.05	6	<.5	30
K-173	1.2	22.7	6.7	73	2	23.8	12.0	2630	3.00	5.2	1.1	3.7	.6	81	.4	.2	.1	62	1.01	.076	24	25	.89	146	.063	2	2.59	.020	.07	1	.05	5.3	1	.06	7	.6	30
K-174	.6	28.3	7.2	100	2	16.1	8.9	847	3.04	3.2	.6	3.4	1.2	60	.2	.3	.1	94	.93	.058	24	23	.53	141	.068	2	1.80	.020	.14	1	.05	5.1	1	<.05	6	<.5	15
K-175	.5	16.5	6.8	60	<.1	8.0	6.1	510	2.49	4.8	1.1	2.3	1.2	70	.2	.5	.1	74	.57	.058	12	14	.31	171	.069	3	.86	.022	.08	1	.04	3.3	1	<.05	3	<.5	30
K-176	.6	28.3	7.6	60	<.1	12.2	8.7	872	2.72	4.4	.6	2.5	1.0	72	.2	.5	.1	72	1.00	.067	14	20	.42	191	.062	4	1.34	.018	.13	1	.04	4.6	1	.06	5	<.5	30
K-177	.6	30.2	7.1	59	1	12.7	7.1	839	2.67	4.4	.6	1.9	1.0	77	.2	.4	.1	61	.90	.058	15	18	.43	207	.055	3	1.95	.022	.13	1	.05	5.3	1	<.05	6	<.5	30
STANDARD DS?	21	114.1	72.4	428	9	57.3	9.7	643	2.44	48.6	5.2	75.2	4.6	72	6.6	6.0	4.7	86	.95	.080	15	178	1.05	377	.128	41	.98	.086	.45	3.9	.20	2.5	4.1	.19	5	3.8	30

Sample type: SEO, 5580 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

ACME ANALYTICAL LABORATORIES LTD.
(ISC 301 Accredited Co.)

852 E. HASTINGS ST. VANCOUVER BC V6A 1R6

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GEOCHEMICAL ANALYSIS CERTIFICATE



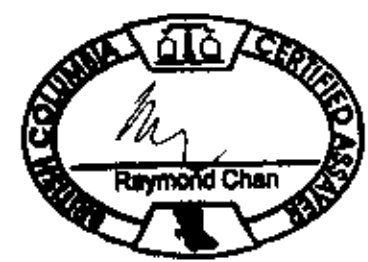
Almaden Minerals Ltd. PROJECT BM06-1 File # A604513

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sample														
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm														
G-1	3	2	8	4.7	44	<.1	3.9	4.4	543	1.99	.8	2.6	1.6	3.8	60	<.1	<.1	.1	37	.51	.075	7	19	.58	223	.124	1	.98	.090	.49	1<.01	1.0	4<.05	5<.5	30																
K-1205	1	4	24	6	7.1	74	<.1	38.0	14.4	870	3.25	4.0	1.0	2.4	1.7	114	.1	.2	.1	90	1.04	.107	21	36	.99	129	.138	2	1.77	.047	.07	1	.03	5.4	1<.05	6<.5	15														
K-1295	6	22	0	7.4	70	<.1	14.6	13.5	1010	3.55	6.0	1.0	2.1	1.4	142	.1	.2	.1	88	1.06	.062	22	22	.77	219	.083	1	2.54	.061	.11	.1	.04	7.5	1<.05	8<.5	15															
K-1425	1.0	22	5	6	9	82	<.1	23.1	16.5	1324	3.68	4.9	.7	1.6	1.2	143	2	.3	.1	96	1.19	.074	17	30	.88	201	.129	1	2.49	.045	.09	1	.03	6.9	1<.05	7<.5	15														
<-1755	.6	16	5	6	9	61	<.1	11.2	7.1	686	2.80	5	0	1	1	1.5	1.3	80	2	.5	.1	85	.69	.071	13	23	.31	193	.078	2	.91	.029	.08	.1	.03	3.5	1<.05	3<.5	15												
K-1775	8	24	4	8.4	61	<.1	11.5	7.6	883	2.38	5.4	.5	3.6	1.1	89	.3	.3	1	53	.94	.071	17	19	.38	211	.046	3	1.56	.019	.13	.1	.04	4.3	1<.05	5<.5	15															
STANDARD 057	20	8	108	3	68	6	408	9	56	7	9	6	623	2.39	46	4	4	8	63	1	4	2	66	6	2	5	8	4	4	86	.92	.078	12	170	1.05	364	.119	39	.96	.073	.44	3.9	.20	2.4	4	2	22	5	3	4	30

GROUP 1DX - 30.0 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: SED. S230 60C

Data 1 FA DATE RECEIVED: JUL 31 2006 DATE REPORT MAILED:.....



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



GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT BM06-1 File # A604514
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
G-1	.3	5.8	12.5	50	<.1	4.7	4.4	555	2.02	2.8	2.7	.9	4.1	74	.1	.2	.1	42	.56	.080	9	33	.62	219	.134	1	1.08	.113	.54	.1	<.01	3.1	.4	<.05	5	<.5
K-178S -80+230	.6	23.1	6.3	60	.1	8.1	6.4	600	2.96	3.3	.5	<.5	1.0	44	.2	.3	.1	88	.59	.034	15	17	.26	124	.086	3	1.17	.015	.12	.1	.03	3.3	<.1	<.05	4	<.5
K-179S -80+230	.6	27.1	6.8	68	<.1	10.0	7.9	775	3.10	3.7	.6	2.4	.9	59	.4	.4	.1	90	.86	.050	14	18	.30	162	.076	3	1.34	.015	.13	.1	.04	3.7	.1	<.05	5	<.5
K-180S -80+230	.6	29.3	7.7	68	.2	10.7	7.2	734	2.58	4.3	.8	<.5	.9	60	.3	.3	.1	55	.82	.063	28	14	.34	180	.053	2	1.94	.015	.19	.1	.04	4.6	.1	.08	5	<.5
K-181S -80+230	.6	34.7	10.3	76	.2	12.4	9.3	824	3.23	4.9	.7	<.5	1.3	55	.2	.5	.1	88	.67	.048	17	20	.36	131	.087	2	1.83	.019	.14	.1	.04	5.3	.1	<.05	6	.5
STANDARD DS7	21.0	111.8	71.0	417	.9	55.9	9.8	649	2.42	49.0	4.9	71.4	4.7	73	6.5	6.2	4.7	87	.96	.082	14	174	1.08	375	.129	40	1.00	.080	.45	3.8	.20	2.6	4.1	.19	5	3.7

GROUP 10X - 15 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.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: SED. SS80 60C

Data FA _____ DATE RECEIVED: JUL 31 2006 DATE REPORT MAILED:





GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT BM06-1 File # A604515
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
G-1	.3	2.5	5.5	48	<.1	4.9	4.7	577	2.10	.6	2.7	3.2	4.1	72	<.1	.1	.1	40	.60	.068	10	30	.62	246	.139	1	1.10	.128	.53	.1	<.01	3.1	.4	<.05	5	<.5
K-178S -230	.6	25.7	7.3	54	.1	11.7	6.2	665	2.26	3.4	.5	1.3	1.0	46	.2	.3	.1	54	.63	.043	17	17	.27	137	.064	1	1.32	.017	.14	.1	.03	3.7	.1	<.05	4	<.5
K-179S -230	.8	31.8	9.0	64	.1	13.0	7.8	877	2.15	3.3	.6	1.6	.9	68	.4	.4	.1	47	1.05	.068	16	20	.31	180	.047	3	1.47	.017	.14	.1	.04	3.7	.1	<.05	4	<.5
K-180S -230	.6	33.4	8.0	62	.2	11.5	6.8	746	2.19	4.1	.8	1.8	.9	55	.3	.2	.1	42	.81	.061	27	15	.32	177	.050	3	1.84	.016	.20	<.1	.05	4.4	.1	<.05	6	<.5
K-181S -230	.6	36.4	10.9	68	.2	13.4	8.1	775	2.53	5.1	.8	2.5	1.4	61	.3	.4	.1	55	.75	.051	19	17	.37	153	.072	2	2.17	.019	.15	.1	.04	5.5	.1	<.05	6	.6
STANDARD DS7	21.0	111.8	71.0	417	.9	55.9	9.8	649	2.42	49.0	4.9	71.4	4.7	73	6.5	6.2	4.7	87	.96	.082	14	174	1.08	375	.129	40	1.00	.080	.45	3.8	.20	2.6	4.1	.19	5	3.7

GROUP 10X - 15 GM SAMPLE LEACHED WITH 90 ML 2-2-2 NCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: SED. S230 60C

Data FA _____ DATE RECEIVED: JUL 31 2006 DATE REPORT MAILED:.....





GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT BM06-1 File # A604516
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Belon

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
G-1	.2	2.1	2.8	48	<.1	3.8	4.4	536	1.95	.5	2.9	1.3	4.4	63	<.1	<.1	.1	36	.56	.077	8	12	.58	210	.121	2	1.03	.098	.52	.1	<.01	2.1	.4	<.05	5	<.5
K-R32	13.4	3.6	1.8	10	.1	1.1	1.7	227	.72	5.3	.2	1.0	.3	3	<.1	.2	.1	6	.04	.012	2	10	.02	19	.001	1	.14	.002	.06	.2	<.01	.6	<.1	<.05	1	<.5
K-R33	.9	1.3	2.4	7	<.1	.8	.3	180	.46	1.5	.3	<.5	1.0	8	<.1	.1	.1	3	.40	.006	5	10	.01	48	.004	1	.25	.005	.04	.1	<.01	.3	<.1	<.05	1	<.5
K-R34	2.3	2.5	22.6	21	19.5	1.1	.2	38	.41	1.1	.1	11260.5	.1	2	.8	.2	<.1	2	.03	.002	<1	16	.01	13	<.001	1	.09	.002	.06	.2	.07	.1	<.1	<.05	<1	1.0
STANDARD	21.2	109.9	71.1	413	1.0	57.3	9.9	645	2.44	49.7	4.9	84.1	4.5	71	6.5	5.9	4.6	86	.94	.081	12	171	1.08	381	.122	40	.99	.078	.46	3.9	.20	2.7	4.3	.22	5	3.9

Standard is STANDARD DS7.

GROUP 10X - 30 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-KNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.

(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.

- SAMPLE TYPE: ROCK R150

Data † FA _____ DATE RECEIVED: JUL 31 2006 DATE REPORT MAILED:



ASSAY CERTIFICATE



Almaden Minerals Ltd. PROJECT BM06-1 File # A604516R
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Ag** gm/mt	Au** gm/mt
K-R34	17	11.23
STANDARD R-2a/SL20	155	6.03

GROUP 6 - PRECIOUS METALS BY FIRE ASSAY FROM 1 A.T. SAMPLE, ANALYSIS BY ICP-ES.
- SAMPLE TYPE: Rock Pulp

Data ^t FA _____ DATE RECEIVED: SEP 1 2006 DATE REPORT MAILED:





GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT BM06-2 File # A605824
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	Le	Cr	Hg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
G-1	.1	1.9	5.5	42	.1	3.1	3.9	491	1.72	<.5	2.8	4.9	3.9	57	<.1	.2	.1	34	.60	.071	9	15	.53	201	.112	1	1.04	.066	.48	.2	.01	2.3	.3	<.05	6	<.5
K-R35	1.6	1.0	5.3	48	.5	.4	.6	713	1.04	1.4	.1	13.9	.4	17	.2	.1	.1	4	2.04	.015	11	3	.14	67	.001	2	.85	.003	.04	<.1	.03	1.3	<.1	<.05	1	<.5
K-R36	1.3	2.6	1.0	5	<.1	.7	1.2	170	.47	.9	.5	2.0	2.2	2	<.1	.1	<.1	2	.03	.010	3	7	.02	18	<.001	1	.23	.002	.18	<.1	<.01	.5	<.1	<.05	1	<.5
K-R37	7.9	1.7	5.3	11	.1	1.1	.6	182	.48	3.3	.2	15.2	1.0	6	.1	.2	.1	2	.05	.004	9	7	.01	101	.001	1	.29	.014	.15	<.1	.02	.4	<.1	<.05	1	<.5
K-R38	.4	4.7	2.1	29	<.1	3.5	2.5	458	1.28	2.1	.2	1.9	.5	6	.1	.1	.1	18	.27	.029	10	12	.03	49	.017	1	.39	.029	.11	<.1	.01	2.5	<.1	<.05	2	<.5
K-R39	.3	1.4	5.8	7	<.1	.8	.3	193	.41	3.5	.2	1.8	.6	19	.1	.1	<.1	2	.11	.004	2	8	.02	49	.002	5	.44	.017	.13	<.1	.01	.5	<.1	<.05	1	<.5
STANDARD DS7	21.7	109.8	70.8	419	.9	56.0	9.7	648	2.45	49.4	5.1	101.8	4.6	75	6.6	5.8	4.6	86	1.10	.081	16	217	1.08	437	.130	37	1.20	.090	.53	4.7	.20	3.7	4.3	.19	6	3.4

GROUP 10X - 30.0 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: ROCK R150

10-11-01 10:04:00 (11)

Data f FA _____ DATE RECEIVED: AUG 29 2006 DATE REPORT MAILED:





Almaden Minerals Ltd. PROJECT BM06-2 FILE # A605825



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Fl	S	Co	Se	Sample
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm
G-1	.1	1.8	4.4	45	<1	3.8	4.4	541	1.94	<5	2.6	<5	4.1	59	<1	<1	.1	39	.52	.081	.7	.7	.60	.247	.129	<1	.97	.086	.52	<1	<.01	1.9	.4	<.05	5	<.5	15
K-227	.6	23.3	4.7	45	<1	11.3	10.3	600	2.72	6.1	.6	.9	.8	68	.1	.3	.1	.76	.69	.061	13	25	.57	.122	.050	<1	1.66	.023	.05	.1	.03	4.8	<1	<.05	5	<.5	30
K-229	.4	20.2	6.7	61	.3	11.4	10.8	761	2.83	2.5	1.5	.9	.9	52	.3	.1	.1	.61	.80	.059	30	23	.77	.89	.066	<1	2.69	.016	.05	.1	.04	6.6	1	.07	9	<.5	15
RE K-234	3.1	20.8	9.4	395	.2	16.5	29.3	3675	2.63	5.6	.5	2.4	.3	42	6.9	.2	.1	.48	.38	.082	23	15	.43	.136	.028	1	1.93	.015	.05	.1	.06	2.5	1	<.05	5	.8	15
K-231	.7	20.0	7.0	56	.3	10.5	8.6	771	2.73	4.5	1.5	<.5	.6	65	.3	.2	.1	.57	.81	.056	42	19	.58	.138	.022	<1	2.54	.017	.05	<.1	.05	5.7	1	<.05	8	.5	15
K-233	1.7	18.7	8.2	227	.2	11.1	15.3	1521	2.61	4.4	.6	4.2	.4	47	2.1	.2	.1	.61	.48	.067	25	17	.45	.131	.037	1	1.79	.015	.05	.1	.03	3.5	1	<.05	5	.5	15
K-234	3.5	21.2	10.0	407	.2	17.1	30.6	3873	2.74	5.3	.6	2.8	.3	43	6.9	.2	.1	.50	.40	.083	24	15	.43	.138	.029	1	1.95	.014	.05	<.1	.05	2.7	1	.06	5	.8	15
K-235	4	18.1	5.3	49	<.1	10.7	9.6	728	2.61	3.6	.6	2.9	1.0	65	.1	.2	.1	.68	.59	.051	11	20	.54	.121	.075	<1	1.75	.019	.05	.1	.02	4.9	<.1	<.05	5	<.5	30
K-236	.9	38.6	7.7	52	.3	17.7	10.6	1268	3.21	5.6	1.4	1.1	1.2	69	.3	.2	.1	.67	1.01	.061	24	24	.53	.221	.036	<1	3.26	.018	.08	<.1	.05	8.0	1	.07	9	<.5	30
K-237	.6	15.7	6.5	49	.1	11.3	10.1	762	2.76	3.1	.7	.5	.7	70	.1	.2	.1	.64	.79	.050	15	15	.53	.127	.060	<1	2.16	.020	.04	.1	.05	5.2	1	.08	6	.5	30
K-238	.6	15.3	6.2	45	<.1	12.1	10.0	683	2.78	3.4	.7	<.5	.9	68	.2	.2	.2	.66	.76	.039	11	18	.52	.126	.065	<1	2.04	.021	.05	<.1	.03	5.1	1	<.05	6	<.5	30
K-239	.4	14.4	5.7	70	<.1	12.9	10.6	758	3.00	3.6	.8	.8	.8	70	.1	.2	.1	.86	.79	.037	11	21	.69	.128	.122	<1	1.93	.019	.05	.1	.02	5.1	<.1	<.05	6	<.5	30
K-240	.3	15.8	5.7	53	.1	13.0	10.2	819	2.83	3.2	.8	1.5	.7	74	.1	.2	<.1	.81	.91	.034	15	22	.66	.097	.101	1	2.03	.019	.05	.1	.03	5.6	<.1	<.05	7	<.5	30
K-241	.5	13.7	7.7	63	.1	9.3	6.2	741	2.33	3.9	.8	2.7	.6	80	.2	.2	.1	.56	.84	.069	33	16	.41	.104	.093	1	2.26	.020	.07	.1	.06	5.7	<.1	.10	7	<.5	15
K-242	.7	23.0	4.6	65	<.1	39.1	16.8	1197	3.10	4.4	.6	2.0	.7	67	.2	.2	.1	.69	.86	.052	11	44	1.28	.090	.086	1	2.38	.019	.05	1	.03	5.1	<.1	<.05	7	.5	30
K-244	.8	24.9	6.2	61	<.1	10.9	12.8	1204	3.05	4.6	.7	1.6	1.0	59	.3	.3	.1	.78	.69	.067	18	23	.62	.109	.073	<1	1.91	.019	.06	<.1	.03	5.6	1	<.05	6	<.5	15
K-245	.8	20.6	6.5	54	.2	9.8	10.0	1188	2.67	3.4	1.6	.9	.9	66	.2	.2	.1	.66	.74	.056	27	22	.58	.116	.092	<1	2.28	.020	.06	.1	.03	6.7	1	<.05	7	.5	30
K-246	.9	21.7	5.7	57	.1	12.7	14.4	1306	3.38	4.3	.8	1.4	.7	56	.2	.2	.1	.77	.67	.068	20	27	.77	.114	.059	<1	2.07	.017	.05	.1	.03	5.9	1	.06	7	<.5	30
K-247	1.1	21.6	8.1	239	.2	13.9	13.4	1166	2.70	4.4	.8	1.3	.7	59	1.7	.2	.1	.63	.56	.068	23	22	.56	.154	.041	<1	1.94	.015	.04	.1	.03	4.4	1	<.05	5	.5	15
K-248	1.2	23.2	7.7	188	.2	13.3	13.4	1637	2.91	4.4	.9	3.3	.8	55	1.6	.2	.1	.60	.56	.080	26	22	.61	.151	.040	<1	2.17	.017	.06	.1	.04	5.1	1	<.05	6	<.5	30
K-249	1.8	23.7	10.1	82	.2	10.9	15.5	1290	3.67	5.3	.8	1.0	1.0	108	.3	.3	1	.62	.97	.074	18	17	.80	.186	.029	<1	2.35	.017	.07	.1	.03	5.0	<.1	.12	7	.5	30
K-250	1.4	25.4	7.1	141	.2	12.6	12.6	999	2.90	4.4	.9	1.2	.7	52	.8	.2	.1	.65	.58	.067	22	22	.63	.123	.038	<1	2.05	.015	.05	1	.04	5.1	1	<.05	6	.5	30
K-252	1.3	25.5	8.1	137	.2	13.1	12.3	1002	2.88	4.3	1.0	1.0	.7	59	.9	.2	.1	.64	.66	.065	26	23	.64	.147	.037	<1	2.19	.016	.05	1	.04	5.2	1	<.05	6	.6	15
K-253	.9	26.6	7.0	68	.2	11.6	13.4	840	3.69	4.8	1.1	3.1	1.2	76	.2	.3	.1	.90	.83	.068	17	24	.69	.154	.081	<1	2.39	.024	.06	.1	.04	7.1	1	<.05	7	<.5	30
K-254	.9	30.0	6.4	71	.2	9.8	11.9	2627	3.19	5.2	1.5	1.6	.8	59	.3	.4	.1	.73	.87	.093	28	21	.52	.155	.039	<1	1.99	.016	.06	.1	.06	6.3	1	.07	6	<.5	15
K-255	.4	17.3	5.7	57	<.1	7.4	8.5	628	2.62	3.1	.8	1.2	1.0	63	.1	.3	.1	.74	.58	.053	12	17	.43	.124	.068	<1	1.66	.019	.06	.1	.03	4.6	<.1	<.05	6	<.5	30
K-256	.5	29.8	5.8	39	.1	9.7	7.7	589	2.37	4.1	2.8	1.9	1.1	59	<.1	.3	.1	.57	.72	.051	22	20	.47	.120	.056	<1	2.52	.018	.06	.1	.04	8.1	1	<.05	7	<.5	15
K-258	4	16.2	5.0	46	<.1	7.5	7.0	577	2.22	2.6	.8	<.5	.9	57	.2	.3	.1	.63	.53	.033	11	15	.43	.116	.078	<1	1.51	.021	.05	.1	.01	4.3	<.1	<.05	5	<.5	30
K-259	.5	16.3	4.8	46	<.1	7.3	7.2	544	2.36	2.6	.9	<.5	1.0	53	.1	.3	.1	.73	.53	.035	11	16	.41	.106	.094	<1	1.49	.019	.04	.1	.03	4.5	<.1	<.05	5	<.5	15
K-260	1.8	29.1	8.6	62	.4	7.8	10.4	5346	3.62	7.6	1.9	.9	.6	104	.7	.4	.1	.67	1.52	.150	46	14	.33	.324	.031	1	2.75	.015	.07	.1	.08	5.3	1	.17	7	.7	15
K-261	.5	23.7	5.3	51	.1	9.4	9.9	972	2.75	3.3	.9	<.5	1.0	69	.2	.3	.1	.72	.68	.051	14	18	.53	.129	.070	<1	1.92	.023	.06	.1	.03	5.8	<.1	<.05	6	<.5	15
K-262	.4	17.4	5.5	54	.1	7.4	8.8	784	2.69	3.5	1.5	.7	.9	80	.2	.4	.1	.78	.70	.047	17	16	.47	.174	.074	<1	1.91	.020	.06	.1	.02	5.4	<.1	<.05	6	<.5	15
K-264	4	26.4	4.9	62	<.1	16.4	13.1	1154	3.33	4.6	.7	<.5	.9	63	.1	.2	.1	.77	.81	.064	14	27	.87	.134	.067	<1	2.36	.022	.07	.1	.02	7.3	<.1	<.05	7	<.5	30
K-265	.5	52.7	6.4	36	.1	15.2	11.3	915	3.08	4.3	1.3	<.5	1.5	56	<.1	.2	.1	.78	.52	.036	19	32	.60	.143	.050	<1	2.75	.017	.07	.1	.04	9.7	1	<.05	7	<.5	30
K-266	.4	53.2	4.6	52	.1	20.0	13.2	694	3.45	2.9	.8	1.1	1.0	64	.1	.2	.1	.96	.72	.050	16	44	.80	.107	.058	<1	2.97	.022	.09	1	.04	9.0	1	<.05	8	<.5	30
STANDARD DS7	20.6	109.2	69.4	403	.9	55.9	9.6	624	2.38	48.0	4.8	83.7	4.3	67	6.3	5.9	4.6	86	.92	.078	12	162	1.05	371	.120	39	.95	.073	.44	3.9	.20	2.5	4.1	.27	5	3	30

Sample type: STREAM SED. SSB. Samples beginning 'RE' are Reruns and 'ARE' are Reject Reruns.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Hg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Se ppm	Tl ppm	S %	Ga ppm	Ge ppm	Sample gm			
G-1	.1	2.1	4.7	46	<.1	3.6	4.6	557	2.00	<.5	2.5	<.5	3.9	64	<.1	<.1	.1	41	.55	.078	7	8	.59	244	.131	1	.97	.093	.55	<.1	<.01	2.3	4	<.05	5	<.5	15.0			
K-267	.3	25.2	5.2	52	.1	9.8	9.2	611	3.01	2.5	1.2	1.1	1.4	70	.1	.2	.1	88	.66	.037	14	23	.46	100	.092	2	2.67	.034	.69	<.1	.08	8.0	.1	.08	8	<.5	15.0			
K-268	4	20.8	4.7	61	<.1	10.6	10.5	685	2.97	3.7	.6	1.4	1.1	78	.1	4	1	96	.66	.048	10	22	.52	115	.105	1	3.63	.041	.07	.1	.03	5.2	<.1	<.05	6	<.5	30.0			
K-269	4	20.7	4.8	64	.1	8.8	9.8	612	3.32	2.0	1.1	.6	1.3	62	.1	.3	.1	127	.56	.036	14	23	.50	96	.177	1	1.89	.041	.07	<.1	.13	6.6	<.1	.07	6	<.5	39.0			
X-271	.6	19.7	4.8	57	<.1	9.2	9.5	598	3.03	3.6	.6	1.0	1.1	73	.1	4	.1	105	.61	.048	10	22	.51	106	.107	1	1.64	.034	.07	.1	.04	5.0	<.1	<.05	5	<.5	30.0			
K-272	.3	18.4	5.0	63	<.1	9.0	8.8	603	2.89	2.6	.6	<.5	1.0	67	.1	.3	.1	100	.60	.034	8	19	.46	92	.142	1	1.64	.045	.05	.1	.03	4.9	<.1	.07	5	<.5	30.0			
K-273	.5	28.3	5.3	55	.1	12.3	9.9	1240	3.05	3.3	.8	18.2	1.3	76	.1	3	.1	89	.77	.051	13	24	.47	144	.099	1	2.29	.032	.07	.1	.03	6.8	.1	.08	7	<.5	15.0			
K-274	4	19.5	3.6	65	.1	9.3	8.2	556	1.96	2.1	1.2	<.5	.9	115	.1	.3	<.1	45	1.13	.070	9	17	.52	189	.054	3	2.03	.043	.06	<.1	.07	5.8	<.1	.18	6	<.5	15.0			
K-275	.3	19.9	4.8	73	<.1	9.3	10.3	978	3.16	2.8	1.0	1.1	1.2	68	.1	.3	.1	113	.73	.049	11	21	.51	121	.164	2	1.98	.061	.07	.1	.03	6.2	<.1	.07	6	<.5	30.0			
K-276	.3	22.4	5.2	48	.1	9.9	8.7	476	3.05	2.9	1.7	.7	1.3	49	1	.3	.1	97	.62	.038	12	21	.44	102	.140	2	2.33	.041	.06	.1	.02	7.1	<.1	.07	7	<.5	30.0			
K-283	.3	20.8	5.3	74	<.1	7.4	9.1	758	2.94	4.7	.5	.5	1.1	56	.2	1.4	.1	79	.85	.044	11	17	.46	210	.064	2	2.26	.024	.12	.2	.03	7.9	.1	.06	8	<.5	15.0			
K-284	.5	25.4	5.8	61	<.1	10.0	9.8	809	3.33	3.0	1.3	.5	1.4	65	.1	.5	.1	102	.64	.038	16	21	.44	119	.111	2	1.70	.025	.10	.1	.04	6.0	1	.05	6	<.5	30.0			
K-285	.5	29.9	6.0	57	<.1	11.6	10.7	1095	2.88	4.8	1.1	1.4	1.4	66	.2	.4	1	75	.75	.066	12	22	.49	134	.085	2	2.07	.026	.08	1	.04	6.7	.1	.06	6	<.5	15.0			
K-287	.3	21.4	6.7	56	<.1	8.0	7.0	576	2.46	3.5	1.3	<.5	1.5	133	.2	.2	.1	55	.74	.037	16	14	.47	228	.067	2	2.68	.023	.11	<.1	.02	7.4	.1	.07	8	<.5	30.0			
K-290	.4	37.6	5.8	42	.2	12.4	8.4	802	2.78	4.1	4.0	1.0	1.3	58	.1	.2	.1	59	.86	.052	37	18	.50	113	.056	1	2.86	.021	.10	<.1	.07	10.7	1	.09	8	<.5	7.5			
K-292	.5	27.4	5.8	41	.1	6.9	7.6	805	2.56	4.4	1.0	<.5	1.1	65	.3	.3	.1	53	1.15	.033	15	13	.41	116	.055	4	2.20	.032	.09	.1	.07	6.6	1	.09	7	.6	15.0			
RE K-302	.5	24.2	4.8	57	<.1	10.3	8.9	798	2.48	3.5	1.2	.8	1.1	76	.1	.4	.1	70	.80	.054	11	19	.51	124	.074	2	1.76	.037	.07	.1	.05	5.3	<.1	.07	6	<.5	15.0			
K-294	4	22.5	6.6	49	.1	10.2	7.4	755	2.61	3.7	2.0	.8	1.3	63	.1	.4	.1	61	.86	.037	26	16	.40	174	.067	2	2.41	.024	.07	<.1	.07	7.0	.1	.07	7	<.5	15.0			
X-295	5	27.4	5.7	47	.2	10.2	7.0	747	2.39	3.5	1.6	.9	1.2	74	.1	.4	.1	52	1.07	.054	24	16	.43	179	.050	2	2.22	.024	.07	<.1	.09	6.4	.1	.10	6	<.5	7.5			
X-298	5	27.5	5.3	63	<.1	10.7	10.3	1206	2.95	4.3	1.3	1.8	1.2	80	.1	.6	.1	82	.75	.059	12	20	.54	139	.092	2	1.97	.037	.08	.1	.04	5.8	<.1	.06	6	<.5	15.0			
K-299	.6	26.3	6.8	64	<.1	9.4	9.2	723	2.89	3.9	.5	<.5	.8	68	.2	.3	.1	81	1.00	.064	11	19	.43	168	.074	4	1.42	.020	.14	<.1	.05	4.7	1	.08	5	<.5	30.0			
K-300	6	28.3	8.0	69	<.1	11.4	7.8	664	2.62	3.4	.7	<.5	1.1	66	.2	.2	.1	69	.92	.048	16	18	.36	90	.097	4	1.64	.023	.13	1	.04	4.0	1	.06	6	<.5	30.0			
K-301	.4	20.8	5.8	68	<.1	9.8	10.9	819	2.95	4.3	.5	3.7	1.1	82	.1	.3	.1	86	.76	.058	9	19	.61	120	.080	2	1.78	.041	.09	1	.05	5.6	<.1	<.05	6	<.5	30.0			
X-302	5	24.1	4.5	54	<.1	10.4	9.0	783	2.39	3.4	1.2	.5	1.1	72	.1	4	.1	65	.77	.053	11	17	.48	123	.062	1	1.60	.033	.07	.1	.05	4.9	<.1	<.05	5	<.5	15.0			
K-303	6	20.5	4.8	49	<.1	8.8	7.1	679	2.55	3.9	.9	2.1	.8	86	.1	.4	.1	82	.99	.055	8	16	.42	86	.087	4	1.33	.036	.09	1	.04	3.3	<.1	.08	5	<.5	15.0			
X-304	2.2	28.0	14.5	82	.2	5.7	7.0	845	2.00	19.2	1.2	3.9	.5	81	.5	.6	.3	31	1.19	.063	29	7	.29	103	.022	3	1.27	.011	.14	.1	.08	2.6	.1	.08	4	.6	15.0			
K-305	.5	26.8	4.6	55	.1	9.5	8.4	738	2.54	3.8	1.4	1.1	1.1	72	.1	.5	.1	68	.74	.055	12	18	.47	134	.073	2	1.96	.035	.08	.1	.05	5.6	<.1	<.05	6	<.5	30.0			
K-306	7	16.0	6.9	46	.2	12.7	8.2	562	2.37	3.5	1.1	1.0	.8	83	.2	.2	.1	63	1.00	.042	16	17	.54	110	.098	1	2.73	.022	.05	.1	.05	5.6	<.1	<.05	8	.5	30.0			
K-307	.5	11.5	6.4	55	<.1	12.0	6.9	627	2.26	3.1	.8	<.5	.8	79	.2	.2	.1	56	.70	.043	16	16	.45	107	.107	1	1.92	.029	.06	.1	.03	4.3	<.1	<.05	6	<.5	15.0			
K-308	.6	13.8	7.2	66	.2	14.3	7.4	895	2.43	4.7	1.3	<.5	.8	49	.3	.1	.1	57	.71	.051	35	19	.54	75	.073	1	2.43	.020	.05	<.1	.05	5.5	1	<.05	8	<.5	15.0			
K-309	.6	13.2	7.2	62	.2	9.4	5.8	909	2.28	4.2	1.2	<.5	.7	75	.3	.2	.1	46	.72	.064	37	14	.40	239	.029	1	2.43	.020	.08	<.1	.04	5.6	<.1	.06	7	<.5	7.5			
K-310	7	12.3	4.9	57	<.1	19.4	9.6	699	2.56	3.2	.9	<.5	.9	67	.1	.2	.1	77	.74	.048	12	16	.65	87	.128	1	1.66	.066	.05	<.1	.02	3.7	<.1	<.05	6	<.5	30.0			
K-311	.5	11.5	6.7	58	<.1	12.0	6.6	515	2.28	3.4	.6	<.5	1.0	74	.1	.1	1	54	.64	.048	12	18	.45	120	.094	1	1.86	.034	.08	<.1	.03	4.1	1	<.05	6	<.5	15.0			
STANDARD DS7	21.1	109.9	68.3	405	.9	56.2	9.7	632	2.41	48.4	4.8	67.4	4.4	69	6.3	5.9	4.5	87	.95	.078	13	166	1.05	374	.124	39	.98	.075	.45	3	9	20	2	6	4	2	.71	5	3.7	30.0

Sample type: STREAM SED. SSB. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT BM06-2 File # A605826
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W %	Hg ppm	Se ppm	Te ppm	S %	Ge ppm	Ce ppm	Sample gm				
G-1	.7	2.5	3.2	58	<1	7.5	5.9	756	2.21	.6	3.2	<.5	4.9	77	<.1	<.1	1	51	.78	.115	9	92	.80	228	.162	<1	1.11	.075	60	<.1	<.01	2.9	4	<.05	7	.6	30.0				
K-1825 -80+150	7	20.2	6.9	64	<.1	9.5	8.1	672	3.60	5.6	.7	3.6	.9	65	.1	.5	.1	121	.75	.060	9	21	.43	106	.094	3	.90	.023	.09	1	.04	3.1	<.1	1.10	4	.8	30.0				
K-1845 -80+150	6	22.7	7.9	79	.1	9.9	6.6	675	2.83	3.6	4	1.7	1.0	62	4	3	1	77	.95	.060	14	17	.36	124	.076	5	1.90	.020	17	1	.05	4.3	1	.58	6	.6	30.0				
K-1855 -80+150	1.0	32.9	21.7	119	.2	15.2	13.6	3747	4.47	10.7	1.2	2.7	1.4	107	.4	.3	.1	78	1.36	.102	22	29	.51	360	.045	3	3.11	.020	.16	1	.08	8.9	1	1.3	9	.9	30.0				
K-1875 -80+150	5	31.4	8.2	73	.3	9.7	7.4	1213	2.30	6.1	1.3	2.9	.7	88	.3	.4	.1	43	1.06	.094	37	12	.42	266	.025	3	2.20	.019	.19	1	.07	4.4	1	1.10	6.1	1	30.0				
K-1885 -80+150	6	21.1	7.5	68	<.1	8.7	6.5	944	2.80	4.5	.5	1.2	.9	69	3	.4	.1	74	1.18	.055	20	16	.32	182	.063	6	1.84	.020	.13	1	.06	4.3	1	.06	5	.6	30.0				
K-1895 -80+150	5	28.3	6.8	64	.2	8.8	6.3	786	2.80	5.3	.8	2.0	1.1	64	.3	.2	.1	65	.96	.075	15	16	.35	133	.035	1	2.59	.021	.13	1	.06	5.1	1	.07	7	.5	15.0				
K-1905 -80+150	5	16.8	6.5	49	<.1	9.0	8.3	712	3.52	4.6	.9	1.7	1.3	61	1	.3	.1	113	.53	.051	10	19	.32	134	.109	2	1.12	.025	.08	1	.03	4.7	1	.05	5	.5	30.0				
K-1915 -80+150	5	16.8	7.6	68	<.1	8.8	9.3	724	4.41	5.1	1.1	1.6	1.3	64	1	.4	.1	164	.52	.045	9	26	.31	124	.132	2	.98	.021	.12	1	.01	4.3	<.1	.05	5	.5	30.0				
K-1975 -80+150	3	37.3	6.7	56	.1	12.8	7.1	1250	2.70	3.3	.5	2.0	1.0	80	1	.3	.1	62	1.19	.062	18	18	.44	261	.056	6	2.23	.021	.15	<.1	.05	5.1	1	.07	6	.8	30.0				
K-2005 -80+150	.4	32.2	4.4	56	.1	16.2	12.2	963	3.32	3.5	.8	1.2	.9	67	2	.3	.1	92	.95	.062	13	33	.80	106	.099	1	3.24	.026	.08	1	.04	8.6	1	.05	9	.5	30.0				
K-2085 -80+150	4	21.9	5.0	58	<.1	14.2	11.7	729	3.61	3.7	.5	2.4	.9	69	1	.3	.1	123	.62	.041	10	32	.68	86	.121	1	2.18	.021	.07	1	.03	5.6	1	.05	7	.7	30.0				
K-2145 -80+150	.6	23.7	5.7	56	<.1	12.9	12.4	891	3.16	4.7	.7	1.4	.8	63	2	.3	.1	92	.73	.065	16	29	.72	115	.071	1	2.40	.019	.08	1	.03	5.4	1	.06	7	.5	30.0				
K-2285 -80+150	.6	30.0	4.9	54	<.1	16.4	15.8	3080	3.48	6.9	.5	1.9	.9	66	2	.4	.1	86	1.20	.091	12	32	.90	129	.031	2	2.59	.015	.08	<.1	.06	6.6	1	.18	8	.5	15.0				
K-2335 -80+150	.5	18.4	6.0	89	.2	9.5	9.2	1126	3.11	3.4	.9	.9	1.1	42	5	.1	.1	80	.50	.044	32	21	.58	74	.050	1	2.83	.015	.06	<.1	.04	6.8	1	.05	9	.6	30.0				
K-2325 -80+150	1.3	22.2	5.8	57	.2	10.8	9.6	970	2.65	4.6	1.1	2.0	.5	58	2	.3	.1	73	.66	.086	28	19	.58	95	.065	2	2.12	.017	.07	<.1	.04	4.7	1	.05	7	.5	30.0				
K-2435 -80+150	7	26.4	5.2	80	.2	13.8	14.1	2290	3.82	4.2	.8	1.8	.7	61	.3	.2	.1	100	.77	.105	20	22	.61	165	.053	2	2.86	.018	.13	<.1	.06	6.2	1	.18	8	.7	30.0				
K-2515 -80+150	.7	46.5	8.8	113	.2	14.1	14.0	908	3.61	5.4	1.0	3.1	1.6	65	.3	.4	.1	97	.84	.052	20	27	.81	161	.065	2	2.98	.018	.09	<.1	.03	7.8	1	.08	8	.8	15.0				
K-2575 -80+150	5	24.5	6.1	68	<.1	9.4	10.4	1855	3.23	3.2	1.1	.7	1.4	76	2	.3	.1	93	.65	.042	15	20	.46	104	.126	2	2.07	.026	.09	1	.03	6.0	<.1	.05	7	.5	30.0				
K-2635 -80+150	6	30.9	5.7	59	.2	15.2	11.2	1611	3.29	4.2	1.3	.9	1.2	60	2	.3	.1	93	.86	.058	14	23	.55	119	.111	3	3.23	.028	.08	<.1	.04	7.6	1	.08	9	.5	30.0				
K-2705 -80+150	5	16.6	4.9	95	<.1	8.7	11.3	643	4.44	3.2	.7	2.0	1.1	77	1	.4	.1	180	.59	.037	8	27	.53	82	.228	1	1.78	.048	.08	1	.03	4.9	<.1	.06	8	.5	30.0				
K-2775 -80+150	3	20.8	5.0	77	<.1	11.5	12.1	839	4.23	3.4	.9	1.3	1.3	70	1	.4	.1	153	.66	.047	10	30	.62	103	.192	3	2.24	.054	.09	1	.02	7.0	1	.07	8	.5	30.0				
RE K-2775 -80+150	4	18.9	5.4	81	<.1	11.3	12.0	856	4.00	3.2	1.0	1.0	1.3	71	1	.3	.1	149	.68	.041	10	28	.65	109	.149	1	2.07	.048	.08	<.1	.02	6.3	<.1	.07	7	.5	15.0				
K-2785 -80+150	4	32.2	5.0	60	.2	10.7	7.4	618	2.91	4.7	1.4	2.4	1.4	50	1	.3	.1	71	.67	.055	12	20	.47	99	.080	2	3.24	.031	.08	1	.03	7.4	1	.08	8	.5	30.0				
K-2795 -80+150	3	20.4	5.3	60	<.1	9.1	10.2	758	3.67	4.1	.7	1.1	1.6	80	1	.5	.1	121	.72	.035	11	20	.52	125	.151	3	2.18	.050	.09	1	.02	7.9	1	.07	8	.5	30.0				
K-2805 -80+150	.3	25.4	5.2	62	<.1	9.8	10.0	673	3.51	3.3	1.0	2.4	1.5	64	.1	.4	.1	101	.67	.032	18	21	.48	124	.111	3	2.98	.026	.11	<.1	.02	8.0	1	.06	8	.6	30.0				
K-2815 -80+150	.5	21.0	4.8	63	<.1	10.0	8.7	662	3.34	3.8	.8	1.4	1.2	63	.1	.6	.1	103	.63	.042	11	24	.45	102	.111	2	2.02	.026	.08	1	.02	5.6	1	.05	7	.5	15.0				
K-2825 -80+150	4	18.2	4.9	72	<.1	8.7	9.5	691	3.77	3.2	.6	1.3	1.3	60	1	.7	.1	117	.50	.031	10	22	.39	97	.136	2	1.95	.035	.09	1	.07	5.2	1	.06	6	.5	30.0				
K-2865 -80+150	.3	25.0	6.1	79	<.1	11.0	8.6	840	3.10	3.1	.7	1.8	1.5	54	2	.5	.1	71	.79	.048	13	20	.55	136	.087	3	3.87	.033	.10	<.1	.02	8.1	1	.09	4	.5	15.0				
K-2885 -80+150	.5	23.2	5.3	75	.1	10.6	9.7	1475	3.87	5.0	1.4	.6	1.5	72	.2	.3	.1	111	.82	.059	14	22	.46	113	.135	2	2.86	.023	.10	1	.03	7.1	1	.07	9	.6	30.0				
K-2895 -80+150	.2	35.5	5.6	63	.1	15.7	11.5	676	3.51	3.8	1.2	.5	1.8	52	.1	.2	.1	82	.86	.042	14	30	.77	102	.128	2	5.10	.026	.10	1	.02	10.6	1	.06	13	.5	30.0				
K-2935 -80+150	5	21.1	5.4	61	<.1	9.2	8.0	576	3.62	3.2	1.1	1.7	1.3	70	1	.3	.1	96	.75	.046	14	20	.49	138	.095	3	2.22	.029	.08	<.1	.04	5.7	1	.07	7	.7	15.0				
K-2915 -80+150	7	22.6	5.8	74	<.1	11.1	12.8	877	3.69	4.6	.6	1.7	1.1	55	.2	.4	1	117	.59	.053	11	28	.48	85	.121	3	1.29	.022	.11	1	.02	4.6	<.1	.05	5	.5	30.0				
K-2965 -80+150	5	45.4	5.8	50	.3	13.6	8.4	653	2.97	5.7	4.6	1.1	1.2	61	2	.3	.1	61	1.14	.091	30	22	.59	109	.055	3	4.44	.021	.12	1	.08	9.0	1	.14	11	.9	7.5				
K-2975 -80+150	.7	27.5	6.5	68	<.1	9.4	12.2	980	3.48	7.7	1.4	.6	1.4	54	1	.4	.1	79	.88	.087	13	18	.66	128	.010	<.1	2.12	.016	.12	<.1	.04	6.9	1	.08	7	.5	15.0				
STANDARD DS7	21.0	107.7	69.3	398	.9	54.5	9.4	621	2.39	48.7	5.0	85	6.4	8	86	6.4	6.1	4	6	85	.96	.079	15	197	1.04	380	.126	39	1.01	.080	46	3.9	20	2	8	4	3	20	5	3.5	30.0

GROUP 10X - 30.0 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
* SAMPLE TYPE: STREAM SED. SSB Samples beginning 'RE' are Retruns and 'RRE' are Reject Retruns.



Data PA _____ DATE RECEIVED: AUG 29 2006 DATE REPORT MAILED:

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



GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT BM06-2 File # A605827

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Au* ppb	Sample gm
G-1	.7	15.0
K-182S -150	2.4	15.0
K-184S -150	1.9	15.0
K-185S -150	1.2	15.0
K-187S -150	1.6	15.0
K-188S -150	.7	15.0
K-189S -150	.8	15.0
K-190S -150	187.9	15.0
K-191S -150	<.5	15.0
K-197S -150	1.2	15.0
K-200S -150	.7	15.0
RE K-200S -150	1.3	15.0
K-208S -150	67.3	15.0
K-214S -150	1.1	15.0
K-228S -150	1.6	7.5
K-230S -150	<.5	15.0
K-232S -150	<.5	15.0
K-243S -150	1.9	15.0
K-251S -150	1.2	15.0
K-257S -150	<.5	15.0
K-263S -150	.5	15.0
K-270S -150	.9	15.0
K-277S -150	<.5	15.0
K-278S -150	<.5	15.0
K-279S -150	6.7	15.0
K-280S -150	<.5	15.0
K-281S -150	<.5	15.0
K-282S -150	.5	15.0
K-286S -150	<.5	15.0
K-288S -150	<.5	15.0
K-289S -150	.6	15.0
K-293S -150	74.1	7.5
K-291S -150	2.5	15.0
K-296S -150	1.1	7.5
K-297S -150	1.8	15.0
STANDARD DS7	84.4	15.0

AU* GROUP 3A - ACID LEACHED, ANALYZED BY ICP-MS. (15 gm)
- SAMPLE TYPE: STREAM SED. SS1
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



Data 1 PA _____ DATE RECEIVED: AUG 29 2006 DATE REPORT MAILED:

GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT BM06-3 File # A607992 Page 1

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	V ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
G-1	.2	2.4	2.8	63	.1	6.1	3.7	472	1.62	.6	2.6	.9	3.8	49	.2	.2	.1	32	.44	.067	6	7	.53	165	.108	1	.92	.078	.42	<.01	1.8	.3	<.05	4	<.5	
K-R51	.6	1.5	1.3	3	<.1	2.7	.4	266	.30	<.5	.1	.6	<.1	146	<.1	<.1	<.1	1	6.24	.002	<1	14	2.85	14	.001	1	.01	.003	<.01	2.0	.03	.1	<.1	<.05	<1	<.5
K-R52	5.2	2.3	.8	19	<.1	5.8	3.7	288	1.03	<.5	<.1	<.5	<.1	29	.1	.1	<.1	28	1.17	.012	<1	29	.54	4	.083	1	.87	.002	.01	1.7	<.01	1.5	<.1	<.05	4	<.5
K-R53	14.7	2.8	7.7	6	<.1	3.1	.3	32	.61	31.0	1.1	2.0	1.9	9	<.1	1.0	.1	2	.04	.002	2	9	.02	35	.001	1	.25	.074	.10	.7	.27	.4	.3	<.05	1	<.5
K-R54	23.0	1.9	7.1	53	.1	1.0	2.2	605	1.74	2.7	.2	<.5	1.0	11	.1	.2	.2	7	.21	.042	23	3	.03	109	.001	1	.25	.028	.14	<.1	.01	1.0	.1	<.05	1	<.5
K-R55	31.3	5.1	7.4	70	.3	1.2	3.7	492	2.33	10.5	.2	3.2	.4	13	.2	.4	.1	12	.23	.096	11	4	.05	91	.001	1	.41	.021	.16	.9	.01	1.7	.1	.18	1	.5
K-R56	17.1	3.8	7.5	7	1.6	1.2	1.1	85	.40	16.5	<.1	3.4	.1	4	<.1	.4	<.1	8	.06	.009	2	7	.02	15	<.001	1	.18	.001	.13	.1	.01	.5	.1	<.05	1	<.5
K-R57	2.7	6.0	3.8	21	<.1	1.4	4.5	282	1.10	8.1	.1	1.9	.2	5	<.1	.2	<.1	10	.30	.038	6	9	.08	38	.001	<1	.27	.001	.13	<.1	<.01	1.0	<.1	<.05	1	<.5
K-R58	3.3	11.3	6.3	41	.1	2.0	8.6	537	2.07	8.4	.1	.8	.3	11	.1	.4	<.1	29	.33	.059	7	10	.52	73	.001	1	1.01	.012	.16	.7	.01	2.1	<.1	<.05	4	<.5
K-R59	4.8	16.1	5.0	44	.2	1.9	11.4	722	2.84	23.6	.2	6.7	.4	11	.1	.3	.1	26	.17	.078	5	6	.07	131	.001	1	.51	.005	.19	.9	.01	2.4	.1	.06	1	.5
RE K-R59	4.7	17.3	5.0	45	.3	2.0	11.7	709	2.88	25.4	.2	8.0	.4	10	.1	.3	.1	26	.17	.083	5	6	.07	132	.001	1	.52	.005	.21	.9	<.01	2.4	.1	.06	1	.6
K-R60	17.2	4.5	8.1	44	.3	.9	2.5	420	1.64	27.3	.1	3.3	.5	29	.1	.6	.1	6	.26	.061	23	3	.18	1067	.001	<1	.62	.015	.22	.1	<.01	1.3	.1	<.05	3	<.5
K-R61	3.2	1.5	9.6	6	<.1	1.6	.5	154	2.44	3.6	.7	.8	.4	7	<.1	1.2	.2	15	.03	.007	2	15	.03	62	.011	6	.17	.021	.11	7.3	<.01	.3	<.1	<.05	1	<.5
K-R62	33.4	8.8	9.0	47	.2	.8	6.3	292	2.54	20.1	.2	4.6	.8	10	.1	.5	.1	14	.17	.108	7	3	.03	59	.002	1	.53	.022	.18	.1	<.01	2.2	<.1	<.05	1	<.5
K-R63	.5	12.7	4.0	85	<.1	.4	13.5	1191	5.10	5.9	.2	<.5	.7	40	.1	.1	<.1	39	1.50	.134	15	3	.27	52	.003	2	.92	.034	.15	.5	<.01	4.6	<.1	.43	3	.5
K-R64	.4	3.4	7.7	7	<.1	1.6	.6	220	.50	.7	.1	.6	1.2	13	<.1	.1	.1	3	.42	.005	4	3	.02	23	.001	1	.36	.004	.10	<.1	<.01	.6	<.1	<.05	1	<.5
K-R65	35.1	9.3	32.5	47	19.8	.9	.4	184	.84	6.0	.1	87.6	1.3	3	.2	.6	.1	2	.02	.014	10	11	.01	25	.001	1	.17	.023	.09	.9	.12	.3	.1	<.05	1	.9
K-R66	82.3	3.9	14.0	17	1.8	.8	1.2	80	1.31	54.1	.1	42.0	.3	11	<.1	1.1	.1	6	.04	.038	5	8	.06	246	.001	<1	.24	.003	.15	<.1	<.01	.5	.1	<.05	1	<.5
K-R67	3.0	13.1	8.6	27	.3	1.3	3.9	134	3.85	92.2	.1	31.4	.4	11	<.1	1.0	.1	36	.08	.047	4	15	.16	115	.003	<1	.65	.003	.16	1.9	.01	1.6	<.1	.34	3	<.5
K-R68	26.8	6.3	3.8	18	.8	.8	1.5	90	1.34	16.8	.1	4.1	.2	6	<.1	.2	<.1	11	.05	.042	3	13	.09	35	.002	<1	.32	.007	.11	.1	.01	.7	<.1	<.05	1	<.5
K-R69	62.7	4.7	8.2	11	1.3	1.0	1.9	153	.61	11.8	<.1	5.3	.1	10	<.1	.5	<.1	6	.18	.024	3	15	.04	45	<.001	<1	.16	.001	.11	1.9	<.01	.4	.1	<.05	1	<.5
K-R70	89.2	4.7	8.5	8	1.8	1.3	1.9	174	.47	8.9	<.1	8.0	<.1	3	<.1	.5	<.1	6	.06	.006	2	18	.01	25	<.001	<1	.11	.001	.10	.1	.01	.3	.3	<.05	1	<.5
K-R71	121.1	4.3	14.8	22	1.8	1.1	1.4	203	.67	27.5	.1	6.5	.5	20	<.1	.9	<.1	2	.34	.019	9	12	.05	601	<.001	<1	.19	.008	.15	1.5	.01	.2	.2	<.05	1	<.5
K-R72	24.8	9.0	6.7	28	.7	.9	3.1	302	.94	3.2	<.1	1.7	.1	3	.1	.5	<.1	9	.09	.025	3	9	.13	49	.001	<1	.39	.005	.11	.1	<.01	.7	.1	<.05	2	<.5
K-R73	49.2	3.2	7.5	14	1.0	.8	1.6	186	.62	7.6	<.1	2.1	.1	19	<.1	.6	<.1	3	.22	.016	3	15	.04	785	.001	<1	.19	.005	.09	1.9	.01	.3	.1	<.05	1	<.5
K-R74	.7	1.8	2.9	5	<.1	1.7	.7	1884	.49	<.5	1.0	.5	.5	17	.1	.2	<.1	2	4.15	.008	4	10	.01	56	.001	<1	.14	.002	.03	.1	<.01	.4	<.1	<.05	<1	<.5
K-R75	1.5	2.3	1.7	10	2.8	1.5	.7	81	.45	4.7	<.1	124.6	<.1	3	.1	.3	<.1	2	.03	.003	1	28	.01	17	<.001	<1	.10	.001	.09	3.9	.02	.1	<.1	<.05	<1	.5
K-R76	1.0	7.4	1.1	3	.5	1.2	.4	35	.50	21.4	.1	120.4	<.1	4	<.1	.4	<.1	1	.05	.018	1	26	.01	22	<.001	<1	.09	.001	.04	.1	.01	.1	<.1	<.05	<1	.5
K-R77	1.3	2.0	.7	3	.2	2.0	.6	61	.37	6.6	<.1	17.0	<.1	2	<.1	.4	<.1	1	.02	.004	<1	34	.01	13	<.001	<1	.05	.001	.02	3.2	.04	.2	<.1	<.05	<1	<.5
K-R78	2.6	5.8	2.8	5	.1	1.4	.8	94	.59	22.7	.1	38.8	.4	5	<.1	.4	<.1	3	.02	.006	5	15	.01	22	.001	<1	.14	.002	.10	.1	<.01	.3	<.1	<.05	1	<.5
K-R79	3.4	11.4	6.0	36	.1	1.7	7.1	379	1.88	8.9	.1	14.6	.2	11	.1	.3	<.1	29	.26	.053	9	12	.46	51	.001	<1	.96	.013	.17	1.1	.02	2.1	<.1	<.05	4	<.5
K-R80	24.1	3.0	3.6	33	.4	1.6	4.4	503	1.60	4.3	.1	5.9	.1	9	.1	.2	<.1	12	.21	.058	5	9	.03	83	.001	<1	.27	.015	.11	.1	.01	1.6	.1	.20	1	.8
K-R87	1.6	3.3	12.2	45	<.1	.8	2.5	652	1.64	2.4	.2	1.4	.8	7	.2	.1	.2	7	.12	.052	11	4	.03	48	.001	<1	.40	.032	.24	.7	<.01	1.4	.1	.08	1	<.5
K-R88	.5	23.8	2.7	41	<.1	6.0	9.3	798	2.53	9.8	.2	<.5	.7	8	.2	.6	<.1	58	.19	.055	9	16	.06	57	.008	2	.37	.031	.03	<.1	.01	4.9	<.1	<.05	3	<.5
K-R89	12.4	1.1	11.4	19	<.1	1.0	1.5	337	.86	1.7	.3	.5	2.4	6	.1	.4	<.1	2	.06	.020	10	10	.01	93	<.001	<1	.34	.014	.18	1.1	<.01	.4	<.1	<.05	1	<.5
STANDARD	20.0	105.4	69.8	400	.8	49.7	9.3	617	2.37	47.6	5.0	59.4	4.6	69	6.4	6.0	4.6	84	.92	.076	14	162	1.04	364	.125	40	.97	.075	.44	3.9	.19	2.4	4.1	.19	5	3.3

Standard is STANDARD 057.

GROUP 10X - 30.0 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.

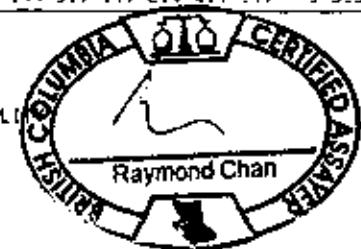
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.

- SAMPLE TYPE: ROCK R150 Samples beginning 'RE' are Retruns and 'RRE' are Reject Retruns.

11-01-01 11:01:14 AM

Data 1 PA DATE RECEIVED: OCT 18 2006 DATE REPORT MAILED:

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





SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Be ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
G-1	.4	2.4	2.3	56	.3	7.5	3.9	447	1.63	.9	2.2	1.3	2.7	38	.4	.4	.2	29	.40	.059	4	7	.49	173	.097	1	.76	.109	.41	.2	<.01	1.4	.3	<.05	4	<.5
K-R90	7.5	1.6	24.4	36	<.1	.4	.7	236	.55	.6	.2	<.5	1.0	8	.1	.3	.2	1	.11	.012	13	4	.01	76	<.001	1	.22	.010	.18	.8	.02	.3	.1	<.05	1	<.5
K-R93	1.2	3.1	5.2	59	<.1	1.7	2.2	697	1.59	2.9	.2	.7	.6	9	.2	.1	.1	11	.10	.052	15	3	.03	59	.001	1	.24	.026	.14	.1	<.01	1.2	<.1	<.05	1	<.5
K-R94	4.9	1.4	5.8	9	<.1	1.3	.5	116	.52	9.4	.4	12.9	1.8	5	.1	.3	.1	1	.04	.005	13	10	.01	53	<.001	1	.18	.003	.16	1.6	<.01	.3	<.1	.06	<.1	<.5
K-R95	3.1	1.7	4.9	16	.3	1.0	.9	198	.65	18.1	.1	9.9	.8	9	.1	1.0	.1	2	.06	.023	8	8	.01	175	<.001	1	.18	.003	.15	<.1	<.01	.2	<.1	<.05	<.1	<.5
K-R96	5.2	7.1	25.8	9	.4	1.2	.4	61	.47	10.6	.2	3.6	1.1	4	<.1	.8	.1	2	.01	.005	8	12	.01	24	.001	<.1	.13	.019	.09	1.9	.01	.3	.1	<.05	<.1	<.5
K-R97	.5	5.2	6.1	28	.5	2.1	2.1	108	.84	20.2	.2	114.4	1.0	5	<.1	.7	.1	7	.11	.049	6	9	.02	51	.002	<.1	.22	.003	.21	.1	.02	.6	.1	<.05	1	<.5
K-R98	100.6	2.4	33.8	11	2.1	1.0	1.9	77	1.16	14.7	.1	37.9	.2	6	<.1	2.0	.4	4	.06	.026	2	14	.04	86	.001	<.1	.18	.003	.11	1.6	.01	.6	.1	<.05	1	1.2
STANDARD DS7	20.4	111.0	66.8	415	.9	54.7	9.8	628	2.42	49.9	4.6	57.7	3.6	67	6.4	5.6	4.4	85	.92	.081	11	168	1.06	364	.117	40	.96	.071	.43	3.9	.19	2.4	4.3	.18	5	3.6

Sample type: ROCK R150.

GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT BM06-3 File # A607993
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMP. #	Hg	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Tl	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Se	Te	S	Ge	Gr	Sample													
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm												
<-323-80-150	7	27	14	82	2	11	4	6	8	826	2.40	4.3	1.7	1.8	.9	72	3	1.4	1	47	1.23	.067	56	15	.51	.115	.045	1	2.55	.021	.07	2	38	8	0	1	11	7	1	15										
<-324-80-150	8	12.4	6.2	66	<1	12	1	7	8	777	2.44	3.7	.8	1.5	.9	90	1	5	1	76	70	.051	13	14	.49	.113	.153	1	1	36	.027	.05	1	23	4	1	2	35	6	1	30									
<-325-80-150	5	15	7	9	66	<1	11	4	6.6	879	2.36	2.6	1.0	1.2	.7	85	2	5	1	54	.87	.061	33	15	.53	.118	.089	1	2	28	.028	.07	1	26	6	0	1	27	7	1	7									
<-326-80-150	6	23	9	5	79	1	24	4	10	7	842	2.67	2.8	1.3	<.5	1.2	95	2	2	1	67	99	.074	26	22	.75	.131	.088	<1	2	25	.032	.07	1	24	6	7	1	26	6	1	7								
<-327-80-150	1	2	24.6	7.5	57	1	24	9	10	1	261	2.89	3.4	1.2	<.5	1.1	76	1	4	1	77	.86	.034	18	30	.69	.150	.112	1	2	38	.031	.06	<1	23	6	2	1	26	8	1	30								
<-3280-80-150	1	7	23	9	9	2	10	1	8	5	1333	2.57	5.3	.6	3.6	.8	77	.3	.5	1	56	.93	.078	19	16	.39	.274	.048	3	1	.83	.013	.16	1	24	4	2	1	28	1	15									
<-329-80-150	6	27	9	8	0	64	2	13	9	8	4	986	2.78	4.5	.9	1.5	1	0	78	2	6	1	68	79	.053	33	19	.49	.174	.073	3	1	.93	.018	.12	1	27	7	1	1	26	1	6							
<-330-80-150	1	1	27	4	7	1	59	2	12	3	6.5	747	2.25	2.5	.8	<.5	.9	64	2	4	1	51	.87	.049	44	17	.32	.237	.056	3	1	.83	.014	.16	1	25	4	9	1	2	25	1	9							
<-331-80-150	1	1	23	3	8	0	53	1	7	9	5.5	699	1.93	3.4	.5	.6	6	77	.3	5	1	48	1	23	.058	34	13	.27	.239	.047	3	1	18	.011	.14	1	34	2	7	1	22	1	15							
STANDARD DS7	20	1	110.6	71	4	411	9	54	6	9	8	620	2.33	46	7	5	0	72	9	4	5	71	6.1	6	0	4	7	84	92	.076	12	.68	1.02	.360	123	39	.93	.078	.44	3	8	19	2	4	1	21	4	3	1	30

GROUP 10X - 30.0 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: STREAM SED. SSB

Data *[Signature]* FA _____ DATE RECEIVED: OCT 18 2006 DATE REPORT MAILED: 11-27-06 10:50 AM





GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT BM06-3 File # A607994
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Au* ppb	Sample gm
G-1	<.5	15.0
K-323 -150	1.6	.5
K-324 -150	1.0	15.0
K-325 -150	1.9	.5
K-326 -150	.9	.5
K-327 -150	.7	15.0
K-328S -150	2.0	.5
K-329 -150	2.5	.5
K-330 -150	2.0	7.5
K-331 -150	1.9	7.5
STANDARD DS7	65.3	15.0

AU* GROUP 3A - ACID LEACHED, ANALYZED BY ICP-MS. (15 gm)
- SAMPLE TYPE: STREAM SED. S15 - 150 mesh

Data 1 PA _____ DATE RECEIVED: OCT 18 2006 DATE REPORT MAILED:11-21-06 P03:01 OUT





GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT BM06-3 File # A607994
 1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

P. 02

FAX NO. 6042531716

NOV-22-2006 WED 09:17 AM ACME ANALYTICAL

SAMPLE#	Au* ppb	Sample gm	Au-gpb (-80 + 150m)	Sub SZ gm
G-1	6.5	15.0		
K-323 -150	1.6	.5	1.8	7.5
K-324 -150	1.0	15.0	1.5	30.0
K-325 -150	1.9	.5	1.2	7.5
K-326 -150	.9	.5	<0.5	7.5
K-327 -150	.7	15.0	<0.5	30.0
K-328S -150	2.0	.5	3.6	15.0
K-329 -150	2.5	.5	1.5	7.5
K-330 -150	2.0	7.5	<0.5	15.0
K-331 -150	1.9	7.5	0.6	15.0
STANDARD DS7	65.3	15.0		

AU* GROUP 3A - ACID LEACHED, ANALYZED BY ICP-MS. (15 SP)
 - SAMPLE TYPE: STREAM SED. SIS - 150 mesh

Date 1 FA _____ DATE RECEIVED: OCT 18 2006 DATE REPORT MAILED:11-21-06 P03:51 OUT





GEOCHEMICAL ANALYSIS CERTIFICATE



Almaden Minerals Ltd. PROJECT BM06-4 File # A608035

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	θ ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
G-T	.3	18.1	5.4	41	<.1	8.4	4.3	494	1.51	.5	2.1	1.4	3.1	31	<.1	.1	<.1	33	.39	.075	4	10	.61	182	.106	<1	.81	.027	.44	.1	<.01	1.5	.3	<.05	4	<.5
BMT061-R1	116.4	2.8	18.6	85	.8	.6	2.7	282	2.46	12.2	.2	2.7	.6	16	.1	.7	.2	14	.11	.095	8	2	.04	36	.001	1	.34	.037	.14	<.1	<.01	2.0	.1	<.05	1	<.5
BMT061-R2	97.1	3.4	23.7	101	.6	.6	4.4	412	2.73	10.5	.3	2.6	.6	30	.1	.6	.2	17	.14	.099	8	3	.04	43	.002	1	.40	.042	.14	<.1	<.01	2.4	.1	<.05	1	<.5
BMT061-R3	72.1	2.9	19.0	96	.3	.5	4.2	456	2.59	8.8	.3	1.4	.5	21	.1	.4	.3	15	.13	.095	7	3	.03	107	.001	1	.36	.036	.13	.1	<.01	1.9	.1	<.05	1	<.5
BMT061-R4	63.8	10.6	13.4	59	.4	.8	3.0	380	1.92	5.3	.2	1.5	.4	16	<.1	.7	.2	10	.12	.075	6	6	.02	99	.001	1	.35	.029	.16	<.1	.01	1.4	.1	<.05	1	<.5
BMT061-R5	33.3	2.3	16.3	109	.2	.6	5.1	942	2.95	7.2	.3	2.9	.5	10	.2	.3	.3	16	.19	.108	14	2	.04	113	.002	2	.39	.038	.15	.1	<.01	2.3	.1	<.05	1	<.5
K-R99	2.5	2.8	2.3	25	.1	1.2	1.9	355	.97	1.9	.1	1.3	.4	7	.1	.1	<.1	7	.09	.030	12	9	.14	142	.001	<1	.42	.021	.14	<.1	<.01	.5	<.1	<.05	2	<.5
K-R100	15.7	8.9	10.3	39	.6	1.6	2.7	436	1.44	1.9	.1	17.4	.8	36	.1	.1	.1	8	.09	.043	9	4	.06	721	.001	1	.34	.027	.14	<.1	<.01	.5	.1	.14	1	<.5
K-R101	6.8	2.2	8.3	30	<.1	.7	.8	265	.87	1.1	.3	5.1	2.0	51	.1	.3	.1	2	.05	.029	19	3	.01	1784	.001	1	.25	.032	.18	<.1	<.01	.5	<.1	<.05	1	<.5
RE K-R101	6.8	2.0	8.4	29	<.1	.8	.8	261	.86	1.2	.3	.8	1.9	50	<.1	.3	.1	2	.05	.029	19	3	.01	1859	.001	1	.25	.033	.18	<.1	<.01	.5	<.1	<.05	1	<.5
K-R102	12.2	61.7	5.2	65	.1	14.6	22.8	1266	4.55	10.3	.1	17.9	.6	90	.2	.1	.1	76	3.90	.069	11	28	.90	212	.001	3	1.06	.021	.15	.1	.03	8.0	.1	.11	4	<.5
K-R103	26.7	1.7	9.9	20	.3	.8	.8	201	.70	14.8	.3	11.5	1.7	33	.1	.5	.1	1	.63	.008	12	2	.02	1432	<.001	1	.29	.005	.17	.1	<.01	.3	.1	.06	1	<.5
K-R104	6.7	2.2	4.1	13	<.1	.8	.5	79	.53	2.8	.1	.8	.6	11	<.1	.3	<.1	1	.04	.008	7	12	.01	434	<.001	1	.19	.008	.12	<.1	<.01	.2	<.1	<.05	<1	<.5
K-R105	34.6	9.7	9.4	15	.9	.9	.7	89	.83	5.7	.1	.6	.1	9	<.1	1.3	.1	4	.04	.024	1	10	.01	62	.001	1	.15	.008	.11	<.1	<.01	.5	<.1	<.05	<1	<.5
K-R106	49.5	5.0	6.3	48	.3	.5	3.1	409	1.93	9.5	.1	2.9	.3	16	<.1	.4	.1	8	.12	.089	7	6	.03	322	.001	1	.32	.028	.16	.1	<.01	1.3	.1	<.05	1	<.5
K-R107	14.4	3.1	6.4	40	<.1	.6	.7	202	.65	2.8	.2	.7	1.7	25	.1	.3	.1	1	.05	.018	15	4	.02	1614	.001	1	.34	.025	.24	<.1	<.01	.4	.1	<.05	1	<.5
K-R108	15.8	8.9	6.0	57	.2	.5	10.1	702	3.45	20.6	.1	6.5	.7	20	.1	.3	.1	19	.22	.098	10	4	.06	384	.002	2	.48	.015	.17	<.1	.01	2.4	.1	.10	1	<.5
K-R109	15.5	8.3	5.2	53	<.1	.8	4.6	541	2.31	10.3	.2	6.2	.6	19	.1	.3	.1	12	.14	.085	11	5	.03	254	.001	1	.38	.016	.17	<.1	<.01	1.9	.1	<.05	1	<.5
STANDARD	20.3	106.3	69.3	394	.9	54.4	10.0	610	2.34	49.0	4.8	80.5	4.2	66	6.5	6.0	4.5	81	.89	.080	11	158	1.04	359	.117	38	.92	.070	.43	3.8	.20	2.3	4.2	.20	4	3.6

Standard is STANDARD DS7.

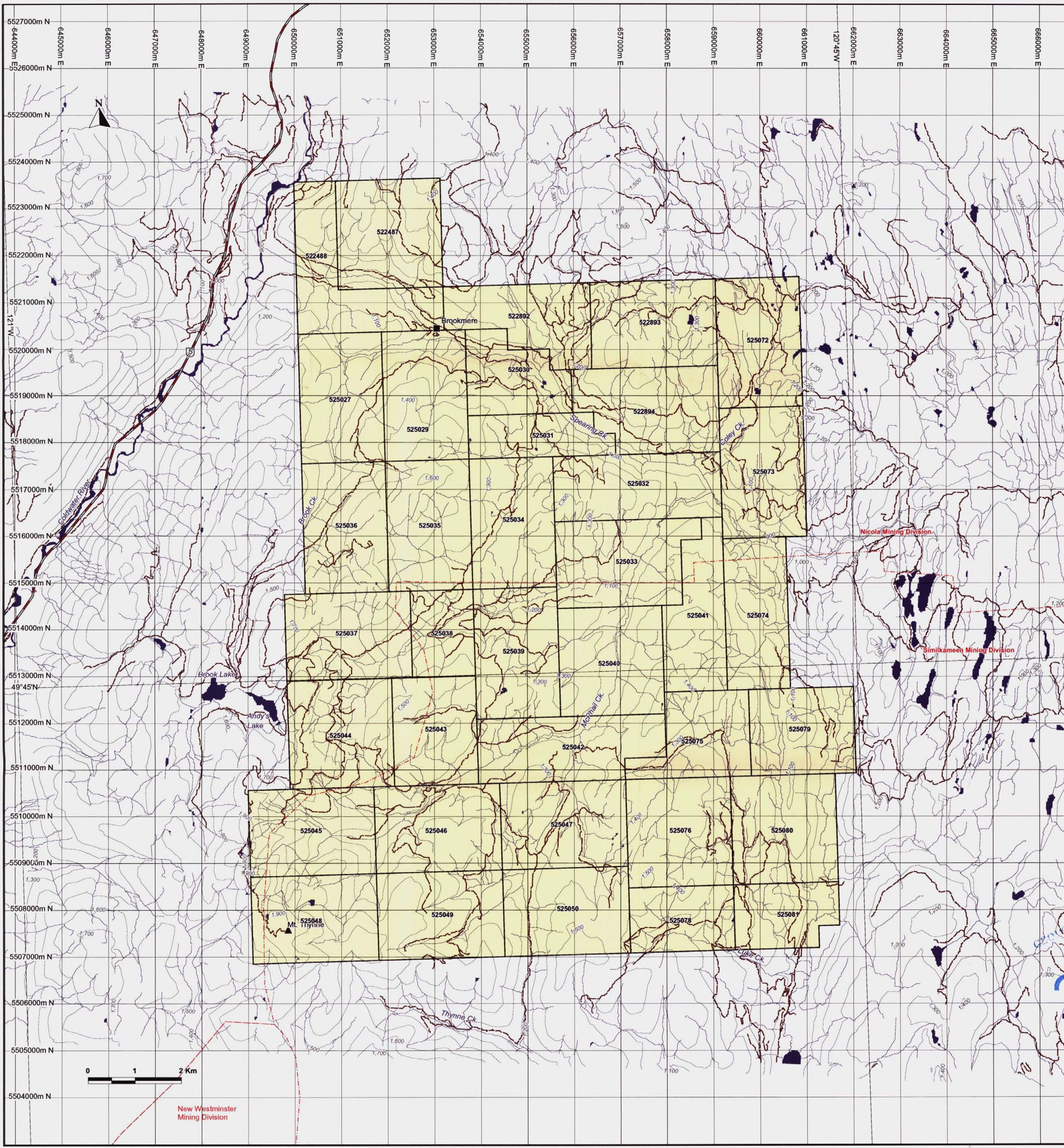
GROUP 1DX - 30.0 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.

(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.

- SAMPLE TYPE: ROCK R150 Samples beginning 'RE' are Retruns and 'RRE' are Reject Retruns.

Data 1 PA _____ DATE RECEIVED: OCT 30 2006 DATE REPORT MAILED: _____





Claims List

Name	Tenure_No	Cells
EZ 10	525032	24
EZ 11	525033	25
EZ 12	525034	24
EZ 13	525035	24
EZ 14	525036	24
EZ 15	525037	24
EZ 16	525038	12
EZ 17	525039	24
EZ 18	525040	25
EZ 19	525041	19
EZ 20	525042	25
EZ 21	525043	20
EZ 22	525044	25
EZ 23	525045	24
EZ 24	525046	24
EZ 25	525047	24
EZ 26	525048	24
EZ 27	525049	24
EZ 28	525050	24
EZ 29	525072	24
EZ 30	525073	24
EZ 31	525074	21
EZ 32	525075	18
EZ 33	525076	25
EZ 34	525078	15
EZ 35	525079	20
EZ 36	525080	25
EZ 37	525081	14

GEOLOGICAL SURVEY BRANCH
 CLAIM REPORT
 28,926

Williams Creek Explorations Ltd.
Brookmere Property, B.C.
 Nicola and Similkameen Mining Divisions, B.C.
 NTS 92H/10, 92H/15
Claim Plan

DWG: 503-2 | January 2007 | Scale: 1:50,000 | Figure: 3



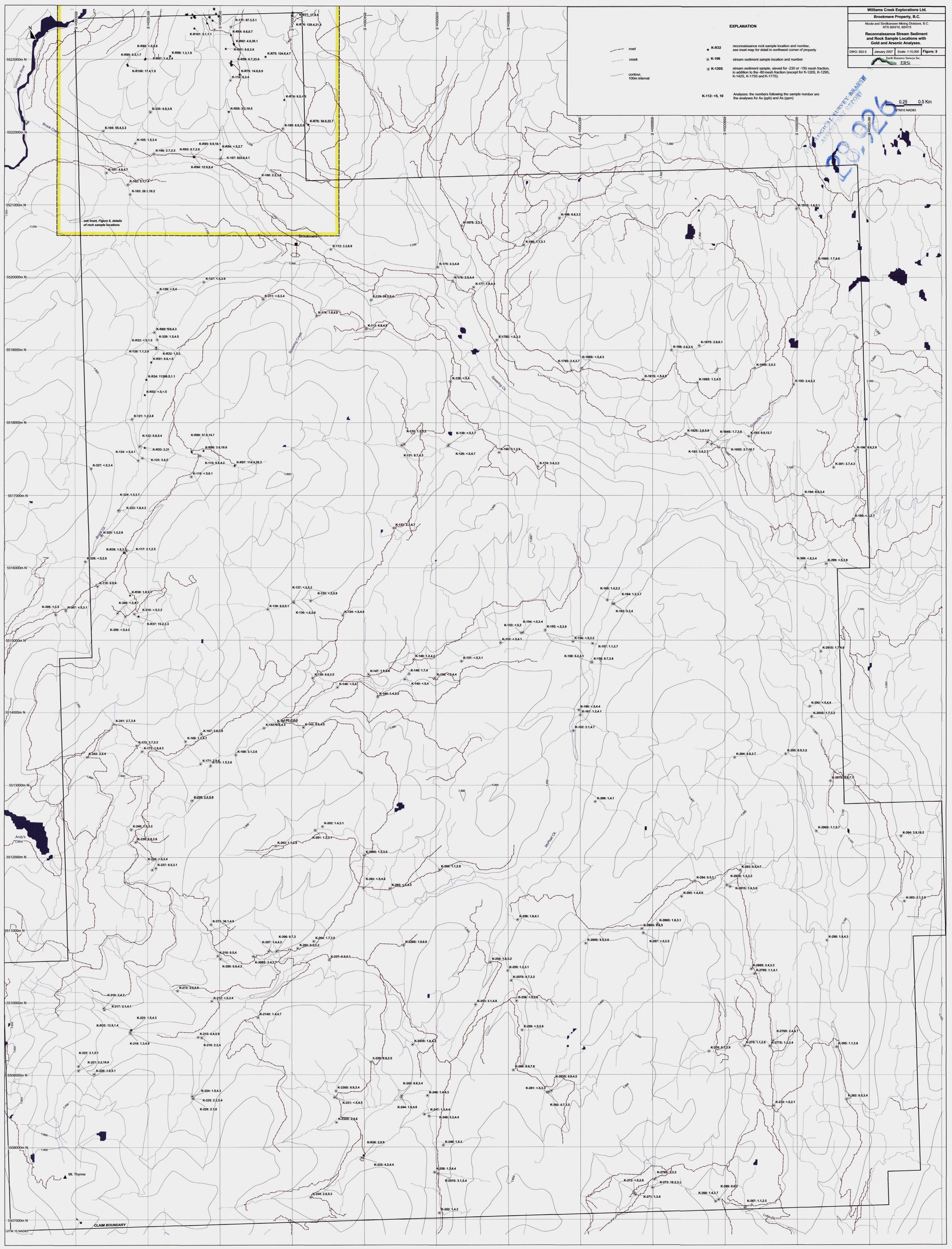
EXPLANATION

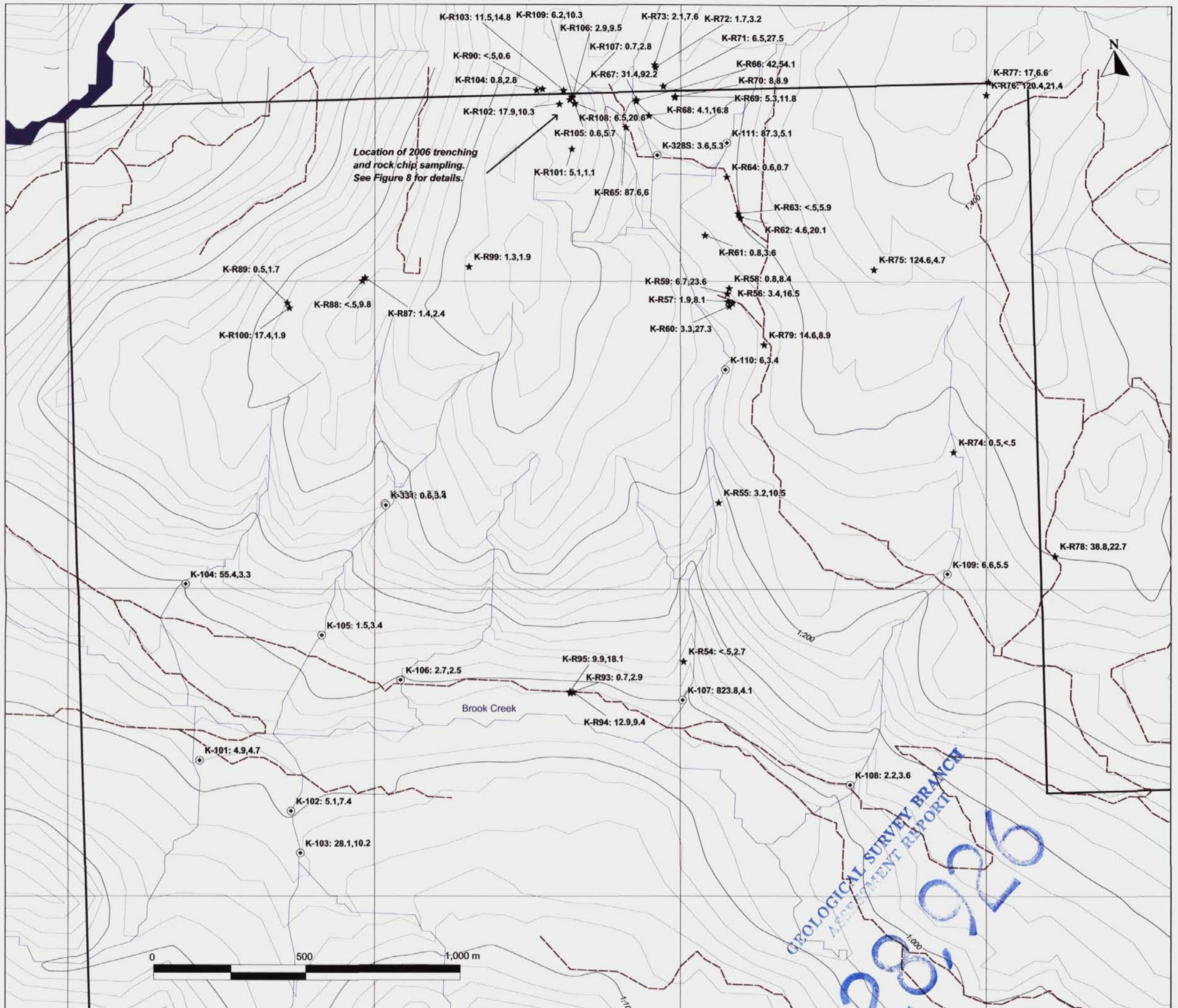
- ★ K-R32 reconnaissance rock sample location and number, see inset map for detail in northwest corner of property
- K-106 stream sediment sample location and number
- K-120S stream sediment sample, sieved for >200 or >100 mesh fraction, in addition to the <60 mesh fraction (except for K-120S, K-120S, K-142S, K-175S and K-177S).

K-112 <5, 10 Analyses: the numbers following the sample number are the analyses for Au (ppb) and As (ppm)

road
 creek
 contour
 100m interval

0.25 0.5 Km
 UTM10 NAD83





UTM10 NAD83

- road
- creek
- contour, 100m interval
- ★ K-R32 reconnaissance rock sample location and number. K-R106 to R109 are continuous chip samples; all others shown are grab samples.
- K-106 stream sediment sample location and number
- K-120S stream sediment sample, sieved for -230 or -150 mesh fraction, in addition to the -80 mesh fraction.
- K-112: <5, 10 Analyses: the numbers following the sample number are the analyses for Au (ppb) and As (ppm)

Williams Creek Explorations Ltd.

Brookmere Property, B.C.

Nicola and Similkameen Mining Divisions, B.C.
NTS 92H/15

Reconnaissance Stream Sediment with
Gold and Arsenic Analyses,
NW Brookmere Property

DWG: 503-6

January 2007

Scale: 1:10,000

Figure: 6

Earth Resource Surveys Inc.
ERSi