1997 DRILLING ASSESSMENT REPORT ON THE CALM 4, 5, 6, 8 & 9 MINERAL CLAIMS

CARIBOO MINING DIVISION BRITISH COLUMBIA

NTS: 93 A/12

LATITUDE: 52° 35' NORTH LONGITUDE: 121° 47' WEST

OPERATOR: BIG VALLEY RESOURCES INC.
BOX 4210
WILLIAMS LAKE, B.C. V2G 2V2

REPORT BY: S.J. TENNANT, GEOLOGIST

DATE: DECEMBER 22, 1997

TABLE OF CONTENTS

LIST OF FIGURES, TABLES AND APPENDICES

Page

FIGURES

APPENDICES

SUMMARY

In July 1997, Big Valley Resources diamond drilled three holes on the Calm 4 claim located 57 kilometres NE of Williams Lake in the Cariboo Mining Division.

The property is located three kilometres south of the QR gold deposit and six kilometres north-west of the Mt. Polley copper-gold porphyry deposit. The property is underlain by Upper Triassic to Lower Jurassic volcanic and sedimentary rocks of the Quesnel River Group. These rocks have been intruded by comagmatic monzonite intrusions. This geologic environment is host to the QR deposit. Massive maroon basaltic breccia underlies most of the Calm 4 claim.

In 1985, E & B Explorations drilled five short reverse circulation rotary holes with weakly encouraging gold results.

Gold assay results of the diamond drill holes completed by Big Valley Resources were very low. Maroon and grey-green polylithic breccias consisting of monzonite and basalts were intersected in all three drill holes.

INTRODUCTION

i. Location, Access and Physiography

The Comb group of claims are located 57 kilometres north-east of the city of Williams Lake in central British Columbia (Figure 1). The centre of the claims is at latitude 52° 35' north and longitude 121° 47' west in the Cariboo Mining Division.

The property is readily accessible from Williams Lake via 76 kilometres of paved highway on the Likely road. Morehead Lake is located just east of the Calm 3 claim. At the west end of Morehead Lake, a dirt road heads north-west to old placer workings and drill sites located in 1985.

The property lies in the Quesnel Highland physiographic region of the central British Columbia interior. This region is characterized by broad valleys and gently rolling hills with elevations on the property ranging from 1,006 metres (3,300 feet) to 1,220 metres (4,000 feet) above sea level.

The claims occur in a moist vegetative zone dominated by combinations of coniferous (cedar-pine-spruce-fir) and deciduous (birch-popular) forests with undergrowths of alder and devil's club.

ii. Claim Status

The property consists of five mineral claims (90 mineral claim units) located in the Cariboo Mining Division. The mineral claims are shown on Figure 2 and details are as follows:

Claim	No. of Units	Record Number	Record Date
CALM 4	18	351827	Oct 8, 1997
CALM 5	18	351945	Oct 12, 1997
CALM 6	18	351946	Oct 12, 1997
CALM 8	18	355459	May 4, 1997
CALM 9	18	355460	May 1, 1997

The claims are part of a large block of claims in the area registered to Big Valley Resources Inc.

iii. Property History

Mining activity in the region has a long history starting with placer operations in 1890, which have continued with varying intensity to the present. From 1960 to the present time, the area has been the target of various exploration programs looking for porphyry copper-gold and gold mineralization.

In 1964, the Cariboo Bell porphyry gold-copper deposit was discovered during exploration of a prominent aeromagnetic anomaly. Today, the Mount Polley deposit is owned by Imperial Metals Corp. and is scheduled to start production in 1997. It adjoins Big Valley Resources Inc. to the east and south.

In 1975, during the investigation of a similar aeromagnetic anomaly, Dome Mines Ltd. discovered the QR gold deposit. The QR deposit is presently in production and adjoins Big Valley Resources Inc. to the north.

The Bullion Mine, some five kilometres north-east of the property operated from 1894 – 1905 producing 59,000 ounces from 12 million yards of Pleistocene gravels.

The old Prior placer leases are located on Morehead Creek on the Calm 4 claim.

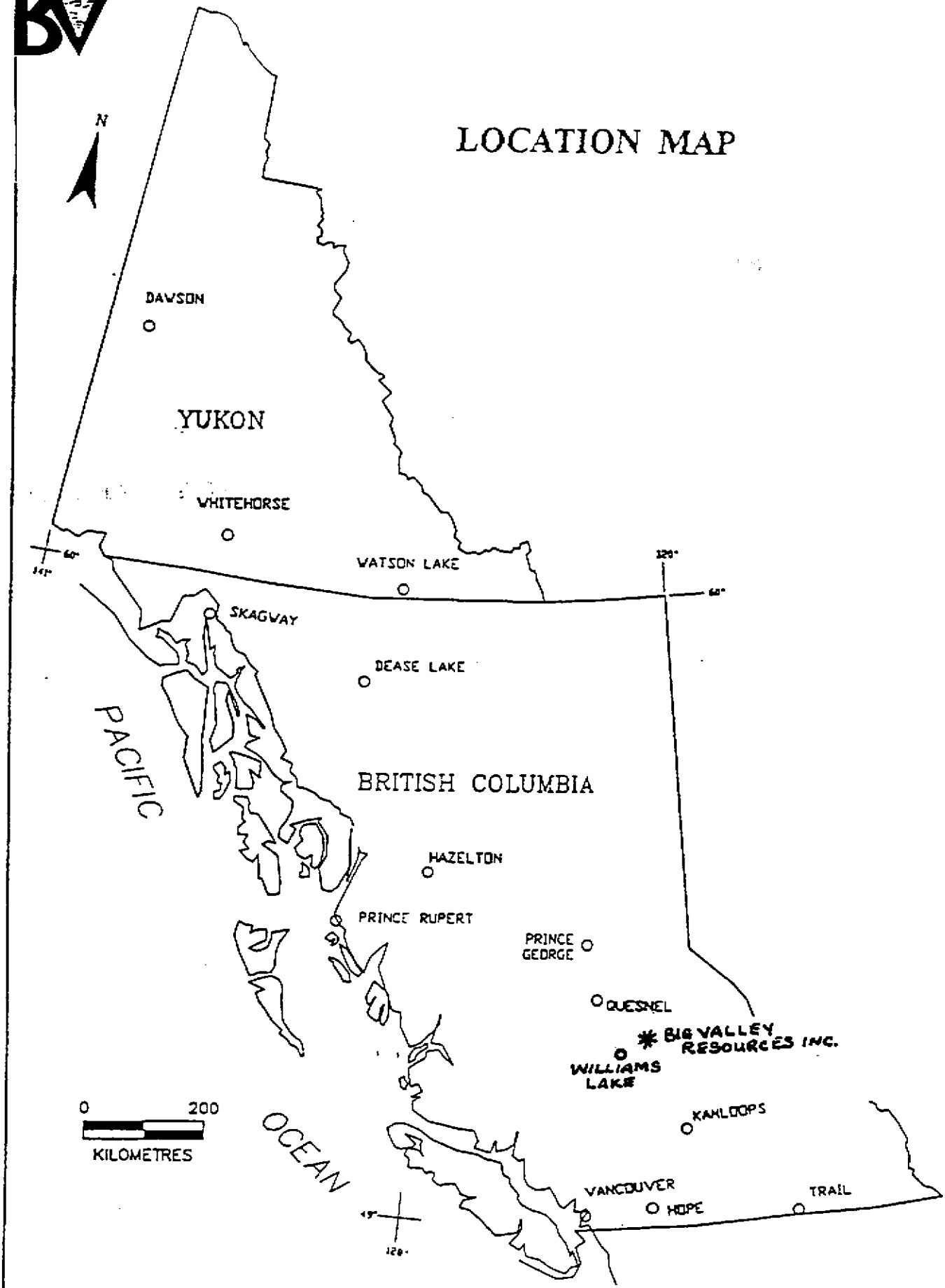
LOCATION MAP
N
DAWSON
YUKON
WHITEHORSE
WATSON LAKE
SKAGWAY
DEASE LAKE
PACIFIC
BRITISH COLUMBIA
HAZELTON
PRINCE RUPERT
PRINCE GEORGE
QUESNEL
BIG VALLEY RESOURCES INC.
WILLIAMS LAKE
KAMLOOPS
VANCOUVER
HOPE
TRAIL
OCEAN
0
200
KILOMETRES

Figure 1

CALM 6
351946
3NX6W
207942

CALM 5
351945
3NX6W
207941

CALM 4
351827
6NX3E

CALM 3
351826
6NX3E

CALM 2
348155
5NX4W

CALM 1
348154
5NX4E

207952
207951
207940
207939

Jackpine L.
Jackpine Cr.
Warren Creek
Horehead Creek
Little Lake Cr.
Jackbone Cr.
Morehead Lake
Little Lake
MT. MOREHEAD

MT 6
319834
5NX4W
232456

MINERAL RESERVE
O/C 641
80 MAR 20
NO STAKING

PM 13
207244
•10891•
6NX2W
210414

BC 7260
BC 7259

Big Valley Resources Inc.
Claim Map
Calm 4, 5, 6, 8 & 9 Claims
Scale: 1:31,680

Figure 2

BIG VALLEY RESOURCES INC.

REGIONAL GEOLOGY

1 : 50,000

Figure 3

LEGEND

SEDIMENTARY AND VOLCANIC ROCKS

TERTIARY	PLEISTOCENE	11	*Glacial, fluvioglacial and fluvial gravel and sand*
	MIOCENE	10	*Green, grey and maroon plateau basalt (alkali olivine basalt)*
CRETACEOUS			
JURASSIC	PLIENSBACHIAN	6	*Cobble conglomerate: clasts of chert, limestone, sandstone: carbonaceous shale and sandstone*
		5	*Well bedded dark grey siltstone and sandstone*
	SINEMURIAN	4	*Maroon, vesicular alkali olivine basalt, commonly analcite-rich*
		3C	*Feldspathic tuffaceous siltstone and sandstone: minor breccia*
		3B	*Latitic crystal tuff, tuff breccia and tuffaceous sandstone: minor latite flow breccia*
		3A	*Maroon and grey polylithic breccia; clasts of mafic and intermediate compositions in chloritic and feldspathic matrix*
TRIASSIC	NORIAN	2H	*Coarse-grained greenish grey and brown sandstone, grey medium - grained sandstone and dark grey siltstone and argillite*
		2G	*Massive grey limestone and calcareous sandstone*
		2F	*Interbedded dark grey mafic sandstone and siltstone*
		2E	*Analcite-bearing maroon and greenish grey alkali basalt; feldspathic in places*
		2D	*Hornblende-bearing pyroxene basalt*
		2C	*Polylithic, grey and maroon mafic breccia; minor feldspathic clasts*
		2B	*Maroon, pyroxene-phyric alkali basalt*
		2A	*Green and grey pyroxene-phyric alkali olivine basalt and alkali basalt*
	CARNIAN	1	*Dark grey siltstone, brown and grey sandstone; unit becomes volcaniclastic towards top. Minor conglomerate and dark grey limestone*

INTRUSIVE ROCKS

9	*Grey hornblende granodiorite and quartz monzonite*
8	*Fine- to coarse-grained grey nepheline syenite: locally orbicular*
7	*Grey and pink, medium fine grained monzonite, monzodiorite, syenodiorite and syenite; pyroxene and/or hornblende-bearing*

Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources
PRELIMINARY MAP NO. 67

GEOLOGY OF THE HYDRAULIC MAP AREA NTS 93A/12

1:50 000

0 1 2 3 4 5

KILOMETRES

Geology by Bailey (1987, 1975); Fox et al. (1986), Bailes (1977)
Geology compiled by D.G. Bailey, 1987

REFERENCES:

Bailey, D.G. 1976: Geology of the Morehead Lake area, Central British Columbia. Preliminary Map No. 20; *B.C. Department Mines and Petroleum Resources.*

Bailes, R.J., (1977): The Cariboo-Bell Alkaline Stock, British Columbia. M.Sc. Thesis (unpubl.) *University of Manitoba.*

Fox, P.E., R.S. Cameron and S.J. Hoffman, 1986; Geology and Soil Geochemistry of the Quesnel River Gold Deposit, British Columbia. In 'Geoexpo '86' Proceedings, *Association of Exploration Geochemists*, Vancouver, May 1986.

GEOLOGY AND MINERALIZATION

Big Valley Resources property is located in a structural feature known as the Quesnel Trough, a 30 kilometre wide, north west trending, volcanic-sedimentary belt of regional extent of Early Mesozoic age. It is fault bounded on the west by Paleozoic rocks of the Cache Creek Group and on the east by older Paleozoic and Pre-Cambrian strata.

Locally within the Trough, intrusive rocks in part coeval to the volcanics occur on cross cutting structures. The Mount Polley intrusions, representing one such centre, are of interest for their potential of hosting porphyry copper/gold mineralization. The QR gold deposit is associated with a pyrite-epidote zone in basaltic breccia near an alkalic stock.

Regional geological mapping of the Quesnel Trough in the claims area is taken from work recently completed by Dr. D. Bailey for the British Columbia Department of Mines (Figure 3).

The property is underlain by Upper Triassic to Lower Jurassic volcanic and sedimentary rocks of the Quesnel River Group. These rocks have been intruded by comagmatic alkali stocks and dyke complexes. Maroon and grey polylithic volcanic breccia underlies most of the Calm 4 claim. A small monzonite stock outcrops in the south-west corner of the claim. The Calm 8 and 9 claims are largely covered by unsolidated glacial sediments.

At the QR gold deposit, mineralization occurs with sulphides in basaltic volcanic rocks along or near the margins of a monzonite porphyry intrusion. With the QR gold deposit located just north of the Calm claims and the old Prior placer leases on the Calm 4 claim; bulk tonnage disseminated gold deposits similar to the QR deposit is the present exploration target.

CALM-4

CALM-5

CALM-9

CALM-3

Qal

2f

3a

Moreheed

R-2
97-2
R-3
97-3
R-1
R-4
97-1
R-5

Big Valley Resources Inc.
Drill Hole Location Map
Scale: 1:10,000

Figure 4

DIAMOND DRILLING

During July 1997, Big Valley Resources Inc. diamond drilled three holes on the Calm 4 mineral claim. The purpose of the drilling was to test an area for possible disseminated gold mineralization. In 1985, E & B Explorations drilled five short reverse circulation rotary holes. Results of this drilling gave weakly encouraging results.

In July 1997, Big Valley diamond drilled three holes in the vicinity of the 1985 rotary holes. A unitized Longyear Super 38 drill was used to recover NQ sized core. The contractor was Beaupre Drilling of Princeton, B.C. Water for drilling was pumped from a stream close to the drill sites. The core was transported to camp (Beaver Valley Road) for logging, sampling and permanent storage. Intervals to be assayed were split using a manual splitter and shipped to Eco-Tech Labs in Kamloops where they were crushed, pulverized and analyzed for Cu and Au along with 31 element ICP. Drill logs and assay sheets are attached as Appendix I and II respectively.

Drilling cored maroon to green polylithic breccias. Breccia fragments consisted of medium grained monzonite and maroon to grey-green basalt. Minor quartz veining and abundant carbonate veining existed in all three holes. Gold assay results were low.

CONCLUSIONS AND RECOMMENDATIONS

The Calm 4, 5, 6, 8 and 9 claims are located in a geologically favourable area of the Quesnel Trough. The QR gold deposit is located just north of the claims, the Mt. Polley copper-gold deposit is six kilometres to the south-east and the Bullion Pit placer mine is located to the east.

The property is underlain by Upper Triassic to Lower Jurassic volcanic and sedimentary rocks of the Quesnel River Group. These rocks have been intruded by comagmatic monzonite intrusions.

During July 1997, Big Valley Resource Inc. diamond drilled three holes on the Calm 4 mineral claim. In 1985, the area had been tested by five short rotary drill holes completed by E & B Exploration.

Diamond drilling cored maroon to grey-green polylithic breccias. Breccia fragments consisted of medium grained monzonite and maroon basalts. Minor quartz veining and abundant carbonate veining existed in all three drill holes. Due to the very low gold assay results, no further drilling is recommended.

Future exploration should concentrate on the Calm 5 and 6 claims where three magnetic anomalies exist, one of which coincides with a mapped body of syenitic intrusive.

STATEMENT OF COSTS

Diamond Drilling	
641.1 metres @ $59/metre -- all inclusive	$37,824.90
Sample Prep and Assay 201 @ $20.40/sample	
(Prep $5.00, Assay ICP $6.90, Au $8.50)	4,100.40
Freight to Kamloops	125.00
Report Preparation	
(S. Tennant -- 3 Days @ $250/Day)	750.00
	$42,800.30

AUTHOR'S QUALIFICATIONS

I, STUART J. TENNANT, do hereby certify that:

1. I am a geologist residing at 600 Garrow Drive, Port Moody, British Columbia, V3H 1H5.

2. I am a 1959 graduate of the University of British Columbia with a Bachelor of Science degree in geology.

3. I have practiced my profession in exploration since 1959, primarily in British Columbia.

4. Since May 1996, I have been employed as an exploration geologist with Big Valley Resources Inc.

5. I personally supervised and participated in the field work and have compiled, reviewed and assessed the data resulting from the work.

Stuart J. Tennant

STUART J. TENNANT

DATED at Vancouver, British Columbia, this 22 day of December, 1997.

REFERENCES

1. Bailey, David G. (1976): Geology of the Morehead Lake Area, Central British Columbia, BCMEMPR. Notes to Accompany Preliminary Map No 20.

2. Bailey, David G. (1987): Geology of the Central Quesnel Belt, Hydraulic, South-Central British Columbia (93A/12), BCMEMPR, Geological Fieldwork, 1987, Paper 1988-1.

3. Fox, Peter E., Cameron, R.S.: Geology of the QR Gold Deposit, Quesnell River area, British Columbia, CIM Special Volume 46.

4. Panteleyev, Andre, Hancock, Kirk D. (1988), Quesnel Mineral Belt: Summary of the Geology of the Beaver Creek - Horsefly River Map Area, BCMEMPR, Geological Fieldwork, 1988, Paper 1989-1.

5. Montgomery, A., Todoruk, S., Darney, R., 1991 Geological and Geochemical Assessment Report. No 21,584 BCMEMPR.

6. Arnold, R.W., 1985, Reverse Circulation Drill Report on the LL 1-14 Mineral Claims. Assessment Report No. 14,401 BCMEMPR.

Appendix I

Drill Logs

CALM

GRID: ____

HOLE No. 97-1
SHEET No. 1 of 3

LOCATION: CALM CLAIM BEARING: ____ LATITUDE: ____ PROPERTY: ____

DATE COLLARED: ____ LENGTH: 213.7 m DEPARTURE: ____ CORE SIZE: NQ LOGGED BY: S. Tennant

DATE COMPLETED: ____ DIP: (-90°) ELEVATION: ____ SCALE OF LOG: ____ DATE: July '97

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG (Rock Type Alteration / Footage / Structure)	JOINT OR CONTACT ANGLES	% PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS SAMPLE No.				EST. GRADE
0 - 38.1 Casing 38.1 - 114 Polylithic Breccia UNIT 3 -45.72 Very Oxidized	(Overburden) (Maroon colored) Few pieces Core - mainly semi rounded fragments				Non Magnetic Abundant spot	20% Core washed away								
Breccia fragments to 4cm (diorite)	Strong K-Spar alt. + specks epidote, carbonate stringers				grey mineral — also black diss spotty mineral.	Hematite								
from 45.7 - 76. Maroon colored Soft whole core Series of narrow slips (maybe part of wide shear zone) definite movement.	Contains fragments — (partly destroyed). Strong K-Spar alt. + epidote, chl. carbonate				Spots of Grey and black minerals finely diss	Non Magnetic								
	Majority of fragments tend to be diorite.													
From 76 - 114 Maroon colored fragments contain fine feldspar laths. Couple narrow slips Minor maroon gouge	Breccia fragments to 4cm Some angular - majority sub rounded. Strong K-spar alt - some chl - epidote - calcite				Finely diss grey and black mineral	Non magnetic Some Hematite								

GRID: ____

CALM
HOLE No. 97-1
SHEET No. 2 of 3

LOCATION: ____ BEARING: ____ LATITUDE: ____ PROPERTY: ____
DATE COLLARED: ____ LENGTH: ____ DEPARTURE: ____ CORE SIZE: ____ LOGGED BY: ____
DATE COMPLETED: ____ DIP: ____ ELEVATION: ____ SCALE OF LOG: ____ DATE: ____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG (Rock Type Alteration / Footage / Structure)	JOINT OR CONTACT ANGLES	% PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS SAMPLE No.	EST. GRADE
114–118 Polylithic Breccia Transitional maroon colored to pale grey Colored.	Fragments (generally gy-green) more obvious. is less oxidized							95%			
118–141 Core more competent. Pale grey-green fragments to 5cm. Matrix? Maroon colored	Majority of fragments of intrusive origin. (Strongly altered) Less carbonate than in oxidized maroon breccia				@ 140 blebs of native copper						
Poorly sorted and no indication of stratification. (Slump feature)											
141–152 Strongly maroon colored core.	Abundant carbonate vn's and irreg. stringers. Alot of fragments altered barely distinguishable							95%			
Lower Contact fairly crushed and healed together. (Fragments themself broken up)	Fragments generally maroon colored – some fainly grey-green. Texture and composition of fragments lost to alteration.										

GRID: ____

CALM

HOLE No. 97-1
SHEET No. 3 of 3

LOCATION: ____ BEARING: ____ LATITUDE: ____ PROPERTY: ____

DATE COLLARED: ____ LENGTH: ____ DEPARTURE: ____ CORE SIZE: ____ LOGGED BY: ____

DATE COMPLETED: ____ DIP: ____ ELEVATION: ____ SCALE OF LOG: ____ DATE: ____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG (Rock Type / Alteration / Footage / Structure)	JOINT OR CONTACT ANGLES	% PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS SAMPLE No.				EST. GRADE
153.3–169 Polylithic Breccia. Maroon Matrix? but abundant grey-green fragments up to 4cm.	Breccia fragments well altered. Majority of fragments are intrusive. Epidote blebs throughout				Diss spots and blebs hematite. Maybe other fine diss black minerals	Non magnetic								
Fragments generally Subrounded. Size varies in sections. Core generally appears grey-green.					Native Cu smears 139–140.5 165									
169–190.5 Polylithic Breccia. Core Maroon colored	Core has a "sugary" appearance. Entire hole basically				Hematite finely diss. Few blebs									
190.5–203 Core appears Grey-Green	the same. Majority of fragments grey-green. Fragments to 4 cm					Top, middle and bottom of core								
	Majority less than 1.5 cm. Fragments mainly of					Crushed and sampled. Few fine flakes in matrix.								
203–213.7 Core appears Maroon.	intrusive. Some basaltic frag. with olivine.													
213.7 EOH.														

GRID: ____

CALM.

HOLE No. 97-2
SHEET No. 1 of 3

LOCATION: ____ BEARING: ____ LATITUDE: ____ PROPERTY: ____

DATE COLLARED: ____ LENGTH: 213.7m (701ft) DEPARTURE: ____ CORE SIZE: NQ LOGGED BY: S Tennant.

DATE COMPLETED: ____ DIP: -90° ELEVATION: ____ SCALE OF LOG: ____ DATE: July '97

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG (Rock Type, Alteration, Footage, Structure)	JOINT OR CONTACT ANGLES	% PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS SAMPLE No.				EST. GRADE
0-34.1 Casing	(Overburden)													
34.1-62 Polythic Breccia? Sugary Texture	Highly altered – Bleached Feldspar Beige colored Random irreg. Qtz				Upper section Spotty bright Py	Very blocky Short runs								
Core generally crushed Number of narrow slips/shears. Trace of maroon gouge.	stringers. Some with minor carbonate on edges.					Some core loss up to 30%								
Strong fractures etc. very steep to CA														
62-72.5 Major Shear Zone Soft (not much gouge) Crumbly. Beige colored to 64.5 Mixture beige/maroon 64.5-	66.7													
66.7-72.5 Soft maroon Gouge (clayey?)	Contains large blebs of soft greenish mineral.													
72.5-102.7 Polylithic Breccia? Strongly maroon Variety of fragments up to ≈ 10cm	Generally highly altered Matrix? appears monzonitic at times													

GRID: ____ CALM

HOLE No. 77-2
SHEET No. 2 of 3

LOCATION: ____ BEARING: ____ LATITUDE: ____ PROPERTY: ____

DATE COLLARED: ____ LENGTH: ____ DEPARTURE: ____ CORE SIZE: ____ LOGGED BY: ____

DATE COMPLETED: ____ DIP: ____ ELEVATION: ____ SCALE OF LOG: ____ DATE: ____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG: Rock Type / Alteration	GRAPHIC LOG: Footage	GRAPHIC LOG: Structure	JOINT OR CONTACT ANGLES	% PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS: SAMPLE No.	ASSAY RESULTS	ASSAY RESULTS	ASSAY RESULTS	EST. GRADE
to 88m Numerous fine irreg. qtz stringers, (cut across fragments) 72-102m section contains a number of narrow	Minor carbonate vning Strong feldspar alt'n. Many rock fragments grey-green color						Fine spotty hematite?	Recovery 90+								
Shears (up to 40cm). Core very crushed at shears. Difficult to distinguish alot of the fragments. Contact of shears - steep to C.A.								Core ran in pieces								
102-132.8 Polylithic Breccia Fairly Maroon colored grey-green fragments Fragments up to 7cm.	Well altered Feldspars brown Random irreg carbonate stringers - cut across fragments						Fine spotty hematite	Fairly Competent Whole core.		95%						
Non sorted fragments (large and small)	Chl and Carbonate on fractures.															
132.8 - 159.7 Fault/Shear Zone. (Contacts ≈ 70° to C.A. (Steep) to 151 Core crushed - still See carbonate veining but fragments not visible																

GRID: _____

CAL-M
HOLE No. 97-2
SHEET No. 3 of 3

LOCATION: _____ BEARING: _____ LATITUDE: _____ PROPERTY: _____
DATE COLLARED: _____ LENGTH: _____ DEPARTURE: _____ CORE SIZE: _____ LOGGED BY: _____
DATE COMPLETED: _____ DIP: _____ ELEVATION: _____ SCALE OF LOG: _____ DATE: _____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG (Rock Type / Alteration, Footage, Structure)	JOINT OR CONTACT ANGLES	% PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS: SAMPLE No.				EST. GRADE
151-159.7 Stongy Maroon Soft – clayey – gouge All textures destroyed	Highly oxidized				Fine specks hem.	Barely magnetic Geotechnical								
159.7-171 Polylithic Breccia Maroon colored Fragments very crowded generally less than 2cm.	Alteration fairly strong. Red Hematite stain on fractures.													
Partially crushed Couple 50cm sections altered														
171-213.6. Polylithic Bx Maroon colored Matrix? appears at times to be Monzonite	Strong alt. Pelspars tan colored Olive clasts to 4mm throughout.													
Some fragments (up to 2cm) have sharp edges, many irreg. shapes from angular to rounded.	Minor amount of Carbonate stringers													
Some basalt in section Fragments types varies. Intrusive to Lasaltic														

EOH 213.6

GRID: CALM

CALM

HOLE No. 97-2

SHEET No. 1 of ___

LOCATION: ___ BEARING: 0

DATE COLLARED: ___ LENGTH: 213.7m (701ft)

DATE COMPLETED: ___ DIP: -90°

LATITUDE: ___ PROPERTY: BIG VALLEY RESOURCES.

DEPARTURE: ___ CORE SIZE: NQ

ELEVATION: ___ LOGGED BY: S. Tennant.

SCALE OF LOG: ___ DATE: July '97

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG (Rock Type / Alteration, Footage, Structure)	JOINT OR CONTACT ANGLES	% PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS: SAMPLE No.	ASSAY RESULTS	ASSAY RESULTS	ASSAY RESULTS	EST. GRADE
0-82.6 (Casing). Boulders, pebbles till.	Overburden.					Recovery Variable								
82.6- Maroon Basaltic Breccia?	Some spotty partly developed olivine.													
84-86.5 Bleached section (Monzonite?) full of qtz vns (up to 50% qtz)	Altered and bleached: Mixture of Monzonite and qtz. Trace carbonate throughout.				Blebs of py + diss py. Fine dark hairline stringers with									
Contacts very steep to CA. (FW 50cm soft	gouge				possible mineralization.									
96.8-102.5 very shear...	soft mushy core													
To 114.9	Heavily veined - mainly carbonate - some qtz vns													
114.9-117.5 light HW .5m gouge. FW to 120.5 - gouge highly broken.	colored bleached qtz - carbonate vn. Contacts 70° to CA maybe some Br garnets													

CALM
97-3

GRID: ____

HOLE No. ____
SHEET No. 2 of ____

LOCATION: ____ BEARING: ____ LATITUDE: ____ PROPERTY: ____

DATE COLLARED: ____ LENGTH: ____ DEPARTURE: ____ CORE SIZE: ____ LOGGED BY: ____

DATE COMPLETED: ____ DIP: ____ ELEVATION: ____ SCALE OF LOG: ____ DATE: ____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG (Rock Type Alteration / Footage / Structure)	JOINT OR CONTACT ANGLES	% PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS SAMPLE No.	EST. GRADE
From 120 - Carbonate vns - few irreg stringers	Texture destroyed Fragments altered. Basaltic - spotty olivine										
fairly strong maroon colored. slight sugary texture. to 148 relatively strongly oxidized.					Fine diss py + hematite	Generally no magnetite					
Generally unsorted - no layering Fragments angular to sub rounded Most fragment < 3cm. odd one to 10cm											
148.4 - 172.8 Not much texture (sugary) Maroon to grey-green color. Most fragments 2-3cm Not much matrix - all fragments											
Fragments of intrusive and mainly basaltic origin. 172 - 213.7. Generally the same as above but											
monzonite with the fragments.											

Appendix II

Assay Sheets

ASSAYING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ENVIRONMENTAL TESTING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4 Phone (250) 573-5700
Fax (250) 573-4557

CERTIFICATE OF ASSAY AK 97-625

BIG VALLEY RESOURCES
BOX 4210
WILLIAMS LAKE, B.C.
V2G 2V2

8-Jul-97

Post-it™ Fax Note 7671E	Date July 8	# of pages ▸ 3
To Stu Tennant	From	
Co./Dept.	Co.	
Phone #	Phone #	
Fax #	Fax #	

ATTENTION: LLOYD TATTERSALL/STU TENNANT

No. of samples received: 70
Sample type: CORE
PROJECT #: LLOYD/NORDIK
SHIPMENT #: NONE GIVEN
Samples submitted by: BIG VALLEY

ET #.	Tag #		Au (g/t)	Au (oz/t)	Cu (%)
1	279251	38.1 – 42	<.03	<.001	<.01
2	279252		<.03	<.001	<.01
3	279253		<.03	<.001	<.01
4	279254		0.03	0.001	<.01
5	279255	48 – 50	<.03	<.001	<.01
6	279256		<.03	<.001	<.01
7	279257		<.03	<.001	<.01
8	279258		<.03	<.001	0.01
9	279259		<.03	<.001	0.01
10	279260	53 – 60	<.03	<.001	<.01
11	279261		<.03	< 001	<.01
12	279262		<.03	< 001	0.01
13	279263		<.03	<.001	<.01
14	279264		<.03	<.001	<.01
15	279265	68 – 70	<.03	< 001	<.01
16	279266		<.03	<.001	<.01
17	279267		<.03	<.001	<.01
18	279268		<.03	< 001	<.01
19	279269		<.03	< 001	<.01
20	279270	78 – 80	<.03	< 001	<.01
21	279271		<.03	<.001	<.01
22	279272	82 – 84	<.03	<.001	0.01

CALM – 97-1

per ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

BIG VALLEY RESOURCES AK 97-625

8-Jul-97

ET #.	Tag #		Au (g/t)	Au (oz/t)	Cu (%)
23	279273	84 – 86	<.03	<.001	0.01
24	279274		<.03	<.001	0.01
25	279275	88 – 90	<.03	<.001	0.01
26	279276		<.03	<.001	0.01
27	279277		<.03	<.001	0.01
28	279278		<.03	<.001	0.01
29	279279		<.03	<.001	0.02
30	279280	98 – 100	<.03	<.001	0.02
31	279281		<.03	<.001	0.01
32	279282		<.03	<.001	0.01
33	279283		<.03	<.001	0.01
34	279284		<.03	<.001	0.02
35	279285	108 – 110	<.03	<.001	0.02
36	279286		<.03	<.001	0.01
37	279287		<.03	<.001	0.01
38	279288		<.03	<.001	0.01
39	279289		<.03	<.001	<.01
40	279290	118 – 120	<.03	<.001	0.01
41	279291		<.03	<.001	0.01
42	279292		<.03	<.001	0.03
43	279293		<.03	<.001	0.10
44	279294		<.03	<.001	<.01
45	279295	128 – 130	<.03	<.001	<.01
46	279296		<.03	<.001	<.01
47	279297		<.03	<.001	<.01
48	279298		<.03	<.001	<.01
49	279299		<.03	<.001	<.01
50	279300	138 – 140	<.03	<.001	0.04
51	279301		<.03	<.001	0.02
52	279302		<.03	<.001	<.01
53	279303		<.03	<.001	<.01
54	279304		<.03	<.001	<.01
55	279305	148 – 150	<.03	<.001	<.01
56	279306		<.03	<.001	0.01
57	279307		<.03	<.001	<.01
58	279308		<.03	<.001	0.01
59	279309		<.03	<.001	0.01
60	279310	158 – 160	<.03	<.001	0.01
61	279311		<.03	<.001	0.01
62	279312		<.03	<.001	0.01
63	279313		<.03	<.001	0.02
64	279314	166 – 168	<.03	<.001	<.01

CALM 97-1

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

BIG VALLEY RESOURCES AK 97-625 8-Jul-97

ET #.	Tag #		Au (g/t)	Au (oz/t)	Cu (%)
65	279315	168-170	<.03	<.001	<.01
66	279316		<.03	<.001	<.01
67	279317		<.03	<.001	<.01
68	279318		<.03	<.001	0.01
69	279319		<.03	<.001	<.01
70	279320	178-180	<.03	<.001	<.01

QC/DATA:

Repeat:

1	279251	<.03	<.001	<.01
10	279260	<.03	<.001	-
19	279269	<.03	<.001	-
36	279286	<.03	<.001	-
37	279287	-	-	0.01
45	279295	<.03	<.001	-
54	279304	<.03	<.001	-

Resplit:

1	279251	<.03	<.001	<.01
36	279286	<.03	<.001	0.01

Standard:

STD-M	1.30	0.038	-
STD-M	1.50	0.044	-
Mp-IA	-	-	1.44
Mp-IA	-	-	1.44

ECO-TECH LABORATORIES LTD.
per Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/97Big Valley
fax: 243-2335
cc: fax: 257-3650 stu tennant

18-Jul-97

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax : 604-573-4557

ICP CERTIFICATE OF ANALYSIS AK 97- 672

BIG VALLEY RESOURCES
BOX 4210
WILLIAMS LAKE, B.C.
V2G 2V2

ATTENTION: LLOYD TATTERSALL/STU TENNANT

No. of samples received:67
Sample type: Core
PROJECT #: Lloyd/Nordik
SHIPMENT #: not given
Samples submitted by: not given

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	279361	<0.2	0.51	20	50	<5	5.55	<1	17	13	22	4.35	<10	1.41	1229	2	0.05	2	1250	<2	55	<20	315	0.05	<10	151	<10	39	48
2	279362	<0.2	0.57	85	40	5	5.45	<1	20	11	24	5.16	<10	1.54	1265	3	0.05	1	1250	2	55	<20	357	0.06	<10	167	20	39	57
3	279363	<0.2	0.65	25	190	<5	4.69	<1	17	10	107	5.19	<10	1.51	1057	3	0.06	1	1250	<2	60	<20	381	0.05	<10	161	10	39	50
4	279364	<0.2	0.44	15	200	<5	5.49	<1	15	16	25	3.81	<10	1.86	1155	2	0.05	<1	1090	2	55	<20	217	0.05	<10	99	<10	34	53
5	279365	<0.2	0.42	40	120	10	3.51	<1	13	11	16	4.34	<10	1.10	959	2	0.04	<1	1180	4	45	<20	137	0.07	<10	105	10	34	46
6	279366	<0.2	0.37	70	60	5	4.64	<1	16	15	24	4.60	<10	1.43	1256	3	0.04	<1	1180	4	60	<20	190	0.06	<10	116	<10	36	54
7	279367	<0.2	0.37	70	160	10	3.11	<1	11	13	34	3.68	<10	1.02	956	1	0.05	<1	1200	6	45	<20	218	0.05	<10	99	30	37	40
8	279368	<0.2	0.36	35	110	<5	2.84	<1	12	14	50	4.08	<10	0.92	910	2	0.05	<1	1210	2	40	<20	234	0.06	<10	104	20	32	46
9	279369	<0.2	0.33	50	45	<5	3.29	<1	13	17	40	3.96	<10	1.17	1015	2	0.05	<1	1170	4	50	<20	160	0.07	<10	95	<10	33	46
10	279370	<0.2	0.34	40	45	<5	2.77	<1	11	13	36	3.51	<10	0.94	944	2	0.05	<1	1180	<2	45	<20	219	0.06	<10	88	<10	33	42
11	279371	<0.2	0.37	30	45	10	2.48	<1	11	14	31	3.94	<10	0.81	822	2	0.06	<1	1250	4	40	<20	256	0.06	<10	99	20	35	38
12	279372	<0.2	0.60	55	45	<5	3.32	<1	10	16	26	3.27	<10	0.60	853	1	0.15	<1	1120	4	30	<20	328	0.06	<10	79	<10	34	41
13	279373	<0.2	2.59	60	100	10	3.11	<1	17	12	23	3.90	<10	0.99	987	<1	1.19	2	1180	10	55	<20	330	0.12	<10	97	30	41	58
14	279374	<0.2	1.23	65	70	<5	2.98	<1	14	15	28	3.65	<10	0.67	972	<1	0.48	<1	1190	6	35	<20	266	0.10	<10	91	20	43	44
15	279375	<0.2	0.31	50	30	<5	3.38	<1	11	20	45	3.64	<10	0.88	1173	2	0.07	<1	1120	4	50	<20	234	0.06	<10	95	<10	33	41
16	279376	<0.2	0.74	70	50	<5	3.51	<1	14	15	44	3.60	<10	0.89	1104	<1	0.15	<1	1160	4	35	<20	291	0.08	<10	87	20	45	63
17	279377	<0.2	0.72	30	70	10	3.72	<1	13	23	30	3.73	<10	0.72	1161	1	0.17	1	1180	4	45	<20	302	0.08	<10	88	<10	47	51
18	279378	<0.2	0.66	25	100	5	3.40	<1	14	21	29	3.48	<10	0.82	1090	<1	0.07	1	1200	4	35	<20	264	0.10	<10	83	<10	52	55
19	279379	<0.2	0.71	60	560	<5	3.28	<1	10	21	28	3.35	<10	0.84	995	<1	0.07	2	1160	6	35	<20	296	0.07	<10	79	<10	48	56
20	279380	<0.2	0.58	30	45	<5	3.38	<1	12	20	31	3.02	<10	0.67	948	2	0.06	2	1090	4	35	<20	244	0.06	<10	81	<10	49	51
21	279381	<0.2	1.29	35	45	<5	3.65	<1	12	17	16	3.46	<10	0.59	1029	2	0.49	3	1090	6	40	<20	274	0.06	<10	89	<10	38	58
22	279382	<0.2	1.47	75	45	<5	4.34	<1	20	10	18	5.08	<10	0.73	1229	1	0.39	4	1230	6	55	<20	414	0.06	<10	126	<10	43	81
23	279383	<0.2	0.50	35	30	5	4.97	<1	10	16	27	3.46	<10	0.27	1025	2	0.07	<1	1170	4	25	<20	321	0.05	<10	81	<10	50	38
24	279384	<0.2	0.95	60	50	<5	4.45	<1	15	14	28	4.07	<10	0.55	1087	2	0.20	3	1240	4	30	<20	382	0.06	<10	99	30	50	58
25	279385	<0.2	0.46	40	25	<5	3.98	<1	11	16	33	3.57	<10	0.27	834	2	0.06	2	1060	<2	30	<20	310	0.05	<10	99	20	46	43

BIG VALLEY RESOURCES

ICP CERTIFICATE OF ANALYSIS AK 97-672

ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Tl %	U	V	W	Y	Zn
26	279386	<0.2	0.47	20	30	<5	5.29	<1	12	14	32	3.77	<10	0.31	1091	2	0.06	<1	1180	2	25	<20	338	0.05	<10	106	<10	47	39
27	279387	<0.2	0.43	60	160	<5	5.74	<1	10	14	24	3.55	<10	0.41	1226	2	0.06	<1	1140	<2	25	<20	368	0.04	<10	94	10	44	44
28	279388	<0.2	0.49	40	185	10	5.82	<1	12	13	22	4.25	<10	0.58	1248	2	0.08	<1	1210	<2	30	<20	452	0.05	<10	117	<10	47	39
29	279389	<0.2	2.59	60	65	<5	9.05	<1	17	8	307	4.78	<10	0.68	1470	3	1.28	3	1250	6	45	<20	505	0.04	<10	109	<10	50	49
30	279390	0.2	3.34	70	25	<5	6.16	<1	16	6	914	4.21	<10	0.57	975	3	1.71	4	1160	8	25	<20	454	0.03	<10	110	<10	39	61
31	379391	<0.2	3.81	95	15	<5	7.10	<1	18	5	344	4.35	<10	0.65	898	3	1.91	4	1190	6	30	<20	504	0.04	<10	114	30	37	64
32	379392	<0.2	1.42	60	<5	<5	9.91	<1	13	5	176	3.88	<10	0.58	1212	3	0.49	2	1160	2	40	<20	789	0.02	<10	101	<10	48	41
33	379393	<0.2	2.04	100	15	<5	6.54	<1	22	6	248	5.21	<10	1.15	1232	3	0.63	3	1340	6	60	<20	638	0.03	<10	145	<10	46	74
34	379394	<0.2	2.05	95	70	<5	6.37	<1	22	8	56	5.21	<10	1.11	1214	2	0.51	4	1260	6	40	<20	566	0.04	<10	145	<10	43	87
35	379395	<0.2	3.99	115	30	<5	4.82	<1	23	8	78	4.79	<10	1.30	1088	2	1.69	4	1140	12	45	<20	427	0.05	<10	120	<10	38	76
36	379396	<0.2	3.52	80	60	5	6.79	<1	29	10	56	5.58	<10	1.83	1507	2	1.38	8	1180	2	60	<20	579	0.06	<10	125	<10	43	88
37	379397	<0.2	0.92	45	5	<5	5.38	<1	12	3	290	3.74	<10	0.47	839	2	0.14	2	1130	4	30	<20	748	0.01	<10	92	<10	37	35
38	379398	<0.2	0.89	65	40	<5	6.66	<1	11	3	186	3.82	<10	0.46	1003	3	0.13	2	1180	2	30	<20	795	0.01	<10	92	<10	41	34
39	379399	<0.2	1.25	55	70	<5	7.74	<1	17	5	177	4.62	<10	0.79	1272	2	0.15	4	1240	4	40	<20	835	0.02	<10	109	20	50	51
40	379400	<0.2	1.72	50	145	<5	7.84	<1	19	6	162	4.95	<10	0.98	1355	1	0.25	4	1190	4	50	<20	737	0.05	<10	127	<10	51	56
41	379401	<0.2	3.63	95	55	10	4.06	<1	32	15	65	6.26	<10	1.92	1230	<1	1.28	8	1290	12	70	<20	371	0.29	<10	184	<10	61	84
42	379402	<0.2	4.04	105	60	5	2.61	<1	35	16	127	6.93	<10	2.72	1197	<1	1.41	8	1280	14	85	<20	294	0.30	<10	239	20	51	92
43	379403	<0.2	3.47	105	50	<5	3.57	<1	31	10	647	5.53	<10	1.89	921	<1	1.43	7	1300	12	70	<20	208	0.27	<10	181	<10	54	75
44	379404	<0.2	2.07	95	60	<5	7.16	<1	33	9	373	5.79	<10	2.32	1248	<1	0.41	6	1240	8	90	<20	274	0.28	<10	162	20	54	88
45	379405	<0.2	3.04	80	40	<5	2.30	<1	25	11	105	4.89	<10	1.94	1137	<1	0.76	5	1250	12	65	<20	427	0.24	<10	163	<10	51	71
46	379406	<0.2	3.10	100	70	10	1.93	<1	30	14	98	5.88	<10	2.36	1255	<1	0.72	8	1240	12	80	<20	253	0.32	<10	194	30	57	74
47	379407	<0.2	3.13	195	75	<5	2.68	<1	30	14	283	6.02	<10	2.61	1259	<1	0.34	7	1150	14	90	<20	230	0.32	<10	197	20	56	72
48	379408	<0.2	2.95	100	120	10	1.96	<1	32	14	70	6.26	<10	2.46	1269	<1	0.55	6	1200	14	90	<20	311	0.37	<10	208	20	59	79
49	379409	<0.2	3.37	70	185	15	2.07	<1	29	14	32	5.83	<10	2.00	1031	<1	0.89	6	1150	16	70	<20	578	0.33	<10	205	20	52	66
50	379410	<0.2	3.46	90	195	<5	2.24	<1	29	15	34	6.07	<10	1.86	997	<1	0.81	9	1090	14	90	<20	727	0.32	<10	212	<10	49	69
51	379411	<0.2	3.46	55	120	5	1.63	2	19	8	28	4.06	<10	1.30	706	15	1.15	13	950	12	110	<20	727	0.10	<10	130	<10	32	58
52	379412	0.8	4.64	70	110	5	2.21	4	27	14	38	5.40	<10	1.44	966	32	1.64	25	1190	14	100	<20	682	0.13	<10	188	<10	41	75
53	379413	<0.2	4.10	75	835	<5	1.41	4	21	12	37	4.97	<10	1.43	811	30	1.42	22	1190	10	90	<20	2211	0.10	<10	172	<10	37	63
54	379414	<0.2	3.78	45	185	<5	1.68	4	22	13	32	4.72	<10	1.36	786	26	1.22	20	990	12	70	<20	956	0.10	<10	161	<10	33	59
55	379415	0.2	3.42	20	125	5	1.93	4	21	11	33	4.28	<10	1.33	777	25	0.92	20	950	14	80	<20	900	0.09	<10	151	<10	29	62
56	379416	<0.2	3.05	40	160	<5	1.38	3	15	7	27	3.19	<10	1.10	596	22	1.13	15	760	14	95	<20	776	0.05	<10	109	<10	21	46
57	379417	0.4	3.45	65	140	5	2.42	3	23	12	41	4.61	<10	1.36	769	22	0.78	19	1150	12	100	<20	874	0.13	<10	166	<10	41	59
58	379418	0.6	4.25	55	125	<5	2.54	4	23	12	42	4.81	<10	1.23	902	29	1.40	23	1140	14	110	<20	755	0.11	<10	177	<10	40	64
59	379419	0.4	4.17	55	105	10	2.04	4	24	11	34	5.04	<10	1.21	755	29	1.53	23	1070	12	95	<20	623	0.11	<10	174	<10	35	62
60	379420	0.4	4.19	60	170	5	1.52	4	23	13	34	4.73	<10	1.30	839	29	1.58	22	1100	16	90	<20	804	0.10	<10	164	<10	33	70

Eco-Tech
LABORATORIES LTD.

ASSAYING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ENVIRONMENTAL TESTING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4 Phone (250) 573-5700
Fax (250) 573-4557

CERTIFICATE OF ASSAY AK 97-649

BIG VALLEY RESOURCES
BOX 4210
WILLIAMS LAKE, B.C.
V2G 2V2

11-Jul-97

Post-it™ Fax Note 7671E | Date July 11 | # of pages ▸
To Stu Tennant | From
Co./Dept. | Co.
Phone # | Phone #
Fax # | Fax #

ATTENTION: LLOYD TATTERSALL/STU TENNANT

No. of samples received: 40
Sample type: Core
PROJECT #: Lloyd/Nordik
SHIPMENT #:none given
Samples submitted by: not indicated

ET #.	Tag #		Au (g/t)	Au (oz/t)	Cu (%)	
1	279321	180-182	<.03	<.001	0.01	CALM 97-1
2	279322		<.03	<.001	0.02	
3	279323		<.03	<.001	0.02	
4	279324		<.03	<.001	0.02	
5	279325	188-190	<.03	<.001	0.02	
6	279326		<.03	<.001	0.02	
7	279327		<.03	<.001	0.02	
8	279328		<.03	<.001	0.01	
9	279329		< 03	<.001	0.03	
10	279330	198-200	<.03	<.001	0.03	
11	279331		< 03	< 001	0.04	
12	279332		<.03	< 001	0.03	
13	279333		< 03	< 001	0.02	
14	279334		<.03	<.001	0.02	
15	279335	209-210	< 03	< 001	0.02	
16	279336		<.03	<.001	0.02	
EOH 17	279337	212-213.7	<.03	<.001	0.02	
18	279338	34.1-36	<.03	<.001	0.02	CALM 97-2.
19	279339		< 03	< 001	0.02	
20	279340		< 03	<.001	0.02	
21	279341	40-42	<.03	< 001	0.01	

ECO-TECH LABORATORIES LTD.
per Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

BIG VALLEY RESOURCES AK 97-649

11-Jul-97

ET #.	Tag #		Au (g/t)	Au (oz/t)	Cu (%)	
22	279342	42 - 44	<.03	<.001	0.01	CALM 97-2
23	279343		<.03	<.001	0.02	
24	279344		<.03	<.001	0.02	
25	279345	48 - 50	<.03	<.001	0.02	
26	279346		<.03	<.001	0.02	
27	279347		<.03	<.001	0.02	
28	279348		<.03	<.001	0.01	
29	279349		<.03	<.001	0.04	
30	279350	58 - 60	<.03	<.001	0.04	
31	279351		<.03	<.001	0.03	
32	279352		<.03	<.001	0.02	
33	279353		<.03	<.001	0.02	
34	279354		<.03	<.001	0.02	
35	279355	68 - 70	<.03	<.001	0.02	
36	279356		<.03	<.001	0.02	
37	279357		<.03	<.001	0.02	
38	279358		<.03	<.001	0.02	
39	279359		<.03	<.001	0.02	
40	279360	78 - 80	<.03	<.001	0.01	
QC/DATA:						
Resplit:						
R/S 1	279321		<.03	<.001	0.01	
R/S 36	279356		<.03	<.001	0.02	
Repeat:						
1	279321		<.03	<.001	0.02	
10	279330		<.03	<.001	0.02	
19	279339		<.03	<.001	-	
28	279348		<.03	<.001	-	
36	279356		<.03	<.001	-	
Standard:						
STD-M			1.33	0.039	-	
STD-M			1.41	0.041	-	
Mp-IA			-	-	1.44	

per

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/97Big Valley
fax: 243-2335
cc: fax: 257-3650 stu tennant

17-Jul-97

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax : 604-573-4557

ICP CERTIFICATE OF ANALYSIS AK 97-649

Post-it™ Fax Note 7671E	Date July 17	# of pages 2
To Stu Tennant	From J
Co./Dept	Co.
Phone #	Phone #
Fax #	Fax #

BIG VALLEY RESOURCES
BOX 4210
WILLIAMS LAKE, B.C.
V2G 2V2

ATTENTION: LLOYD TATTERSALL/STU TENNANT

No. of samples received:40
Sample type: Core
PROJECT #: Lloyd/Nordik
SHIPMENT #: None Given
Samples submitted by: Not Indicated

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	279321	<0.2	2.49	20	290	5	3.40	<1	19	21	52	3.97	<10	1.52	882	<1	0.42	7	1290	28	30	<20	189	0.18	<10	164	<10	47	57
2	279322	<0.2	2.68	15	180	5	5.18	<1	25	43	74	5.02	<10	1.65	1154	<1	0.09	8	1330	24	30	<20	93	0.29	<10	235	<10	64	69
3	279323	<0.2	3.18	25	195	15	5.30	<1	35	29	38	6.68	<10	2.39	1294	<1	0.09	10	1290	22	40	<20	128	0.39	<10	280	<10	70	78
4	279324	<0.2	3.21	30	285	15	5.41	<1	34	28	45	6.85	<10	2.23	1301	<1	0.08	9	1270	20	25	<20	122	0.39	<10	256	<10	63	77
5	279325	<0.2	4.18	50	1095	10	5.21	<1	29	29	90	7.05	<10	2.26	1308	<1	0.54	9	1420	24	30	<20	161	0.44	<10	261	<10	74	80
6	279326	<0.2	3.93	50	400	<5	5.60	<1	32	30	166	6.61	<10	2.49	1433	<1	0.29	10	1450	24	30	<20	119	0.44	<10	246	<10	79	86
7	279327	<0.2	2.95	20	505	15	4.82	<1	26	28	32	5.47	<10	2.04	1254	<1	0.09	8	1430	22	25	<20	101	0.30	<10	189	<10	64	79
8	279328	<0.2	3.40	5	115	10	5.71	<1	31	28	47	6.21	<10	2.19	1385	<1	0.08	9	1450	22	30	<20	96	0.34	<10	197	<10	72	84
9	279329	<0.2	3.41	25	110	5	6.30	<1	32	23	165	6.80	<10	2.26	1497	<1	0.07	9	1520	20	35	<20	97	0.34	<10	220	<10	82	87
10	279330	<0.2	3.05	15	60	5	5.69	<1	31	22	146	6.82	<10	2.20	1401	<1	0.07	10	1480	18	35	<20	108	0.27	<10	208	<10	70	84
11	279331	<0.2	3.58	25	85	<5	5.42	<1	31	21	308	6.28	<10	2.53	1408	<1	0.08	9	1490	20	20	<20	91	0.32	<10	201	<10	73	86
12	279332	<0.2	3.36	30	355	10	5.54	<1	29	27	85	6.30	<10	2.19	1365	<1	0.24	9	1420	22	30	<20	117	0.35	<10	199	<10	69	83
13	279333	<0.2	4.01	30	200	15	5.50	<1	31	26	30	6.55	<10	2.14	1444	<1	0.65	11	1420	28	20	<20	174	0.34	<10	217	<10	66	87
14	279334	<0.2	3.79	25	545	20	4.56	<1	29	38	53	6.52	<10	1.89	1232	<1	0.91	10	1490	26	15	<20	114	0.41	<10	220	<10	68	78
15	279335	<0.2	4.04	25	410	15	4.72	<1	30	27	31	6.31	<10	2.35	1309	<1	0.56	10	1430	26	30	<20	292	0.36	<10	209	<10	63	83
16	279336	<0.2	4.30	45	305	10	5.61	<1	32	25	99	6.79	<10	2.45	1397	<1	0.37	9	1440	30	20	<20	408	0.42	<10	222	<10	72	85
17	279337	<0.2	3.89	25	150	15	5.09	<1	31	30	36	6.32	<10	1.93	1377	<1	0.70	10	1380	28	25	<20	450	0.34	<10	208	<10	60	79
18	279338	<0.2	0.63	5	330	<5	4.60	<1	13	48	61	3.87	<10	1.26	1251	6	0.04	7	820	10	60	<20	101	0.01	<10	86	<10	9	70
19	279339	<0.2	0.45	<5	160	<5	3.30	<1	12	28	55	3.40	<10	1.10	1295	5	0.03	4	850	6	15	<20	87	0.01	<10	73	<10	9	66
20	279340	0.4	0.46	<5	160	<5	3.61	<1	13	33	60	3.71	<10	1.22	1433	4	0.04	6	850	6	25	<20	87	0.01	<10	79	<10	13	71
21	279341	0.4	0.46	10	65	5	3.01	<1	12	36	50	3.30	<10	1.09	1204	4	0.04	6	830	4	15	<20	111	0.01	<10	69	<10	13	58
22	279342	<0.2	0.43	<5	20	<5	2.57	<1	11	38	68	2.94	<10	0.96	1000	5	0.04	6	820	2	15	<20	97	0.01	<10	67	<10	8	51
23	279343	<0.2	0.36	<5	15	<5	2.60	<1	12	47	54	3.13	<10	0.99	1005	5	0.04	7	810	4	20	<20	94	0.01	<10	68	<10	5	50
24	279344	<0.2	0.55	<5	20	<5	3.18	<1	13	41	57	3.40	<10	1.12	1166	4	0.08	5	830	4	20	<20	130	0.01	<10	75	<10	11	56
25	279345	<0.2	0.38	<5	75	5	3.71	<1	14	44	37	3.59	<10	1.28	1250	4	0.05	7	820	2	20	<20	103	0.01	<10	76	<10	7	57

BIG VALLEY RESOURCES

ICP CERTIFICATE OF ANALYSIS AK 97-649

ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Tl %	U	V	W	Y	Zn
26	279346	<0.2	0.40	<5	160	<5	2.68	<1	13	51	65	3.57	<10	1.03	1016	6	0.05	7	800	4	15	<20	99	0.01	<10	78	<10	5	54
27	279347	<0.2	0.42	<5	125	<5	3.47	<1	14	56	67	3.79	<10	1.25	1275	6	0.06	7	870	4	20	<20	91	0.01	<10	78	<10	6	55
28	279348	<0.2	0.36	<5	105	<5	2.90	<1	13	49	47	3.66	<10	1.05	1179	4	0.05	6	910	4	20	<20	98	0.01	<10	79	<10	7	55
29	279349	<0.2	0.44	<5	15	<5	3.92	1	14	39	304	3.93	<10	1.23	1745	17	0.04	6	880	18	20	<20	241	<0.01	<10	86	<10	21	93
30	279350	1.4	0.36	35	145	<5	3.82	13	21	34	327	4.20	<10	1.24	2013	32	0.04	6	770	102	10	<20	220	0.01	<10	81	<10	14	349
31	279351	<0.2	0.37	<5	130	<5	3.10	<1	11	46	147	3.95	<10	1.03	1734	10	0.05	5	800	12	15	<20	192	0.01	<10	82	<10	15	96
32	279352	<0.2	0.58	<5	80	<5	2.58	<1	9	26	124	2.99	<10	0.87	1225	7	0.05	4	930	8	20	<20	359	0.01	<10	70	<10	16	65
33	279353	<0.2	0.45	<5	65	<5	3.97	2	13	31	80	3.65	<10	1.25	1782	6	0.04	5	860	10	25	<20	310	0.01	<10	73	<10	19	107
34	279354	<0.2	1.36	15	145	<5	5.14	1	14	21	61	4.21	<10	1.08	1321	4	0.07	7	1180	14	25	<20	736	0.02	<10	87	<10	32	86
35	279355	<0.2	1.70	25	105	<5	6.55	<1	16	17	71	5.05	<10	1.38	1303	4	0.07	6	1470	14	20	<20	1131	0.02	<10	102	<10	42	51
36	279356	<0.2	1.97	25	30	<5	6.90	<1	18	3	74	4.94	<10	1.62	1401	3	0.08	2	1360	10	25	<20	1207	0.02	<10	91	<10	38	58
37	279357	<0.2	1.20	30	680	<5	5.33	<1	20	8	152	6.47	<10	1.70	1375	3	0.04	5	870	10	15	<20	543	0.06	<10	185	<10	26	68
38	279358	<0.2	0.94	15	260	10	5.97	<1	20	17	38	6.05	<10	1.72	1539	2	0.04	4	1460	8	20	<20	169	0.09	<10	191	<10	44	66
39	279359	<0.2	0.84	10	235	15	5.19	<1	20	18	34	5.93	<10	1.56	1384	2	0.04	3	1450	8	20	<20	215	0.10	<10	181	<10	38	66
40	279360	<0.2	0.81	15	175	10	5.29	<1	22	18	33	5.70	<10	1.60	1298	2	0.04	3	1520	10	15	<20	162	0.09	<10	189	<10	43	70
QC/DATA:																													
Repeat:																													
1	279321	<0.2	2.82	20	310	10	3.78	<1	23	24	58	4.57	<10	1.71	1004	<1	0.45	7	1430	22	30	<20	201	0.22	<10	188	<10	59	65
10	279330	<0.2	3.13	10	60	<5	5.85	<1	32	24	150	7.02	<10	2.25	1441	<1	0.07	10	1490	20	30	<20	109	0.28	<10	213	<10	72	87
19	279339	<0.2	0.51	<5	170	<5	3.49	<1	13	33	61	3.65	<10	1.16	1378	5	0.03	5	910	6	20	<20	95	0.01	<10	78	<10	10	69
36	279356	<0.2	1.90	20	30	<5	6.96	<1	18	2	74	4.92	<10	1.63	1391	3	0.08	2	1460	14	30	<20	1193	0.02	<10	90	<10	43	59
Resplit:																													
R/S 1	279321	<0.2	2.50	30	280	10	3.64	<1	22	24	58	4.17	<10	1.62	926	<1	0.47	10	1310	26	20	<20	194	0.20	<10	178	<10	54	62
R/S 36	279356	<0.2	1.86	25	30	<5	6.77	<1	17	2	71	4.64	<10	1.56	1354	3	0.08	2	1410	14	25	<20	1160	0.02	<10	86	<10	41	57
Standard:																													
GEO'97		1.2	1.98	75	180	<5	1.96	<1	23	75	85	4.06	<10	1.02	742	<1	0.03	22	780	22	5	<20	64	0.14	<10	92	<10	8	72
GEO'97		1.2	1.94	60	175	<5	1.98	<1	23	73	83	4.04	<10	1.00	737	<1	0.03	24	790	24	15	<20	66	0.12	<10	89	<10	10	72

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

df/619A
XLS/97Big Valley
fax: 243-2335
cc: fax: 257-3650 slu tennant

BIG VALLEY RESOURCES

ICP CERTIFICATE OF ANALYSIS AK 97-672

ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
61	279421	1.0	4.11	75	75	5	2.09	4	23	12	36	4.67	<10	1.24	901	29	1.36	21	1100	16	280	<20	650	0.11	<10	177	<10	35	67
62	279422	<0.2	2.88	55	65	15	3.72	<1	27	16	52	5.39	<10	1.71	1032	<1	0.19	7	1260	12	75	<20	264	0.30	<10	194	<10	56	73
63	279423	<0.2	2.76	50	90	10	3.19	<1	27	12	43	5.30	<10	1.52	991	<1	0.22	3	1270	14	50	<20	422	0.33	<10	191	<10	55	89
64	279424	<0.2	3.23	85	70	10	4.21	<1	24	14	78	4.98	<10	1.36	919	<1	0.24	5	1240	14	60	<20	482	0.27	<10	188	30	55	75
65	279425	<0.2	3.18	70	70	10	3.50	<1	26	12	54	5.31	<10	1.49	1053	<1	0.37	4	1230	14	55	<20	525	0.29	<10	193	20	51	84
66	279426	<0.2	2.97	60	65	5	3.44	<1	25	12	59	5.01	<10	1.50	1056	<1	0.34	4	1210	14	60	<20	534	0.25	<10	188	<10	48	76
67	279427	<0.2	2.67	85	90	<5	3.95	<1	26	12	59	5.07	<10	1.78	1089	<1	0.15	5	1240	12	65	<20	306	0.27	<10	187	10	57	75
QC/DATA:																													
Repeat:																													
1	279361	<0.2	0.57	40	50	<5	5.58	<1	18	14	24	4.75	<10	1.43	1252	2	0.05	3	1270	2	50	<20	314	0.06	<10	160	<10	42	49
10	279370	<0.2	0.37	60	50	5	2.89	<1	12	14	35	3.78	<10	0.97	994	2	0.05	<1	1260	4	45	<20	226	0.06	<10	94	10	36	47
19	279379	<0.2	0.78	45	610	<5	3.43	<1	11	22	30	3.63	<10	0.88	1048	<1	0.08	2	1220	4	45	<20	313	0.08	<10	86	<10	51	62
36	379396	<0.2	3.38	70	60	5	6.62	<1	28	10	36	5.40	<10	1.72	1450	2	1.31	8	1160	10	60	<20	544	0.06	<10	121	<10	44	87
45	379405	0.6	3.08	70	50	<5	2.30	5	25	12	109	5.10	<10	1.96	1153	27	0.75	25	1250	12	70	<20	432	0.11	<10	175	<10	50	71
54	379414	<0.2	4.03	60	195	10	1.83	<1	24	14	35	5.16	<10	1.41	841	<1	1.24	5	1110	18	60	<20	997	0.27	<10	176	20	40	65
Resplit:																													
1	279361	<0.2	0.63	60	50	5	5.57	<1	18	12	25	4.87	<10	1.44	1256	2	0.05	1	1310	4	55	<20	317	0.06	<10	162	20	40	58
36	379396	<0.2	3.51	90	55	10	7.07	<1	29	10	32	5.70	<10	1.79	1532	3	1.33	6	1190	10	60	<20	562	0.06	<10	127	20	48	89
Standard:																													
GEO'97		1.8	1.76	80	160	<5	1.84	<1	20	60	83	4.16	<10	0.94	678	<1	0.03	24	730	26	5	<20	62	0.12	<10	78	<10	10	72
GEO'97		1.4	1.74	75	160	<5	1.82	<1	20	61	81	4.17	<10	0.96	682	<1	0.03	22	730	22	5	<20	61	0.12	<10	78	<10	10	74

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

df/328B
XLS/97Big Valley
fax: 243-2335
cc: fax: 257-3650 stu tennant

Eco-Tech LABORATORIES LTD.

ASSAYING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ENVIRONMENTAL TESTING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4 Phone (250) 573-5700
Fax (250) 573-4557

CERTIFICATE OF ASSAY AK 97-672

BIG VALLEY RESOURCES
BOX 4210
WILLIAMS LAKE, B.C.
V2G 2V2

14-Jul-97

Post-it™ Fax Note 7671E	Date July 15	# of pages ▸ 3
To Stu Tennant	From	
Co./Dept	Co.	
Phone #	Phone #	
Fax #	Fax #	

ATTENTION: LLOYD TATTERSALL/STU TENNANT

No. of samples received: 67
Sample type: Core
PROJECT #: Lloyd/Nordik
SHIPMENT #: not given
Samples submitted by: not given

CALM 97-2.

ET #.	Tag #		Au (g/t)	Au (oz/t)	Cu (%)
1	279361	80 – 82	<.03	<.001	0.01
2	279362		<.03	<.001	0.01
3	279363		<.03	<.001	0.01
4	279364		<.03	<.001	0.01
5	279365		<.03	<.001	0.01
6	279366	90 – 92	<.03	<.001	0.01
7	279367		<.03	<.001	0.01
8	279368		<.03	< 001	0.01
9	279369		<.03	<.001	0.01
10	279370		<.03	<.001	0.01
11	279371	100 – 102	<.03	<.001	0.01
12	279372		<.03	<.001	0.01
13	279373		<.03	<.001	0.01
14	279374		<.03	<.001	0.01
15	279375		<.03	<.001	0.02
16	279376	110 – 112	<.03	<.001	0.01
17	279377		0.04	0.001	0.01
18	279378		<.03	<.001	0.01
19	279379		<.03	<.001	0.01
20	279380		<.03	<.001	0.01
21	279381	120 – 122	0.03	0.001	0.01
22	279382	122 – 124	< 03	<.001	0.01

ECO-TECH LABORATORIES LTD.
per Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

BIG VALLEY RESOURCES AK 97 - 672

CALM - 97 - 2

ET #.	Tag #		Au (g/t)	Au (oz/t)	Cu (%)
23	279383	124 - 126	<.03	<.001	0.01
24	279384		0.03	0.001	0.01
25	279385		<.03	<.001	0.01
26	279386		<.03	<.001	0.01
27	279387		<.03	<.001	0.01
28	279388	134 - 136	<.03	<.001	0.03
29	279389		<.03	<.001	0.11
30	279390		<.03	<.001	0.04
31	379391		<.03	<.001	0.02
32	379392		<.03	<.001	0.02
33	379393	144 - 146	0.03	0.001	0.02
34	379394		<.03	<.001	0.01
35	379395		<.03	<.001	0.01
36	379396		<.03	<.001	0.01
37	379397		<.03	<.001	0.05
38	379398	154 - 156	0.03	0.001	0.02
39	379399		<.03	<.001	0.02
40	379400		<.03	<.001	0.02
41	379401		<.03	<.001	0.01
42	379402		<.03	<.001	0.02
43	379403	164 - 166	<.03	<.001	0.07
44	379404		<.03	<.001	0.04
45	379405		<.03	<.001	0.02
46	379406		<.03	<.001	0.02
47	379407		<.03	<.001	0.03
48	379408	174 - 176	<.03	<.001	0.01
49	379409		0.03	0.001	0.01
50	379410		<.03	<.001	0.01
51	379411		0.03	0.001	0.01
52	379412		<.03	<.001	0.01
53	379413	184 - 186	<.03	<.001	0.01
54	379414		<.03	<.001	0.01
55	379415		<.03	<.001	0.01
56	379416		<.03	<.001	0.02
57	379417		<.03	<.001	0.01
58	379418	194 - 196	0.03	0.001	0.01

ECO-TECH LABORATORIES LTD.
per Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

BIG VALLEY RESOURCES AK 97 - 672 14-Jul-97

CALM 97-2.

ET #	Tag #		Au (g/t)	Au (oz/t)	Cu (%)
59	379419	196 - 198	<.03	<.001	0.01
60	379420		<.03	<.001	0.01
61	279321		<.03	<.001	0.01
62	279322		<.03	<.001	0.01
63	279323		<.03	<.001	0.02
64	279324	206 - 208	<.03	<.001	0.02
65	279325		<.03	<.001	0.01
66	279326		<.03	<.001	0.01
67	279327	212 - 213.7	<.03	<.001	0.01
QC/DATA:					
Resplit:					
1	279361		<.03	<.001	0.01
36	379396		<.03	<.001	0.01
Repeat:					
1	279361		<.03	<.001	0.01
10	279370		<.03	<.001	
19	279379		<.03	<.001	
36	379396		<.03	<.001	
37	379397				0.05
45	379405		<.03	<.001	
54	379414		<.03	<.001	
Standard:					
Std-M			1.36	0.040	
Std-M			1.36	0.040	
CPb-1					0.25
CPb-1					0.25

ECO-TECH LABORATORIES LTD.
per Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/97Big Valley
fax: 243-2335
cc: fax: 257-3650 stu tennant

18-Jul-97

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax 604-573-4557

ICP CERTIFICATE OF ANALYSIS AK 97- 672

BIG VALLEY RESOURCES
BOX 4210
WILLIAMS LAKE, B.C.
V2G 2V2

ATTENTION: LLOYD TATTERSALL/STU TENNANT

No. of samples received:67
Sample type: Core
PROJECT #: Lloyd/Nordik
SHIPMENT #: not given
Samples submitted by: not given

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	279361	<0.2	0.51	20	50	<5	5.55	<1	17	13	22	4.35	<10	1.41	1229	2	0.05	2	1250	<2	55	<20	315	0.05	<10	151	<10	39	48
2	279362	<0.2	0.57	85	40	5	5.45	<1	20	11	24	5.16	<10	1.54	1265	3	0.05	1	1250	2	55	<20	357	0.06	<10	167	20	39	57
3	279363	<0.2	0.65	25	190	<5	4.69	<1	17	10	107	5.19	<10	1.51	1057	3	0.06	1	1250	<2	60	<20	381	0.05	<10	161	10	39	50
4	279364	<0.2	0.44	15	200	<5	5.49	<1	15	16	25	3.81	<10	1.86	1155	2	0.05	<1	1090	2	55	<20	217	0.05	<10	99	<10	34	53
5	279365	<0.2	0.42	40	120	10	3.51	<1	13	11	16	4.34	<10	1.10	959	2	0.04	<1	1180	4	45	<20	137	0.07	<10	105	10	34	46
6	279366	<0.2	0.37	70	60	5	4.64	<1	16	15	24	4.60	<10	1.43	1256	3	0.04	<1	1180	4	60	<20	190	0.06	<10	116	<10	36	54
7	279367	<0.2	0.37	70	160	10	3.11	<1	11	13	34	3.68	<10	1.02	956	1	0.05	<1	1200	6	45	<20	218	0.05	<10	99	30	37	40
8	279368	<0.2	0.36	35	110	<5	2.84	<1	12	14	50	4.08	<10	0.92	910	2	0.05	<1	1210	2	40	<20	234	0.06	<10	104	20	32	46
9	279369	<0.2	0.33	50	45	<5	3.29	<1	13	17	40	3.96	<10	1.17	1015	2	0.05	<1	1170	4	50	<20	160	0.07	<10	95	<10	33	46
10	279370	<0.2	0.34	40	45	<5	2.77	<1	11	13	36	3.51	<10	0.94	944	2	0.05	<1	1180	<2	45	<20	219	0.06	<10	88	<10	33	42
11	279371	<0.2	0.37	30	45	10	2.48	<1	11	14	31	3.94	<10	0.81	822	2	0.06	<1	1250	4	40	<20	256	0.06	<10	99	20	35	38
12	279372	<0.2	0.60	55	45	<5	3.32	<1	10	16	26	3.27	<10	0.60	853	1	0.15	<1	1120	4	30	<20	328	0.06	<10	79	<10	34	41
13	279373	<0.2	2.59	60	100	10	3.11	<1	17	12	23	3.90	<10	0.99	987	<1	1.19	2	1180	10	55	<20	330	0.12	<10	97	30	41	58
14	279374	<0.2	1.23	65	70	<5	2.98	<1	14	15	28	3.65	<10	0.67	972	<1	0.48	<1	1190	6	35	<20	266	0.10	<10	91	20	43	44
15	279375	<0.2	0.31	50	30	<5	3.38	<1	11	20	45	3.64	<10	0.88	1173	2	0.07	<1	1120	4	50	<20	234	0.06	<10	95	<10	33	41
16	279376	<0.2	0.74	70	50	<5	3.51	<1	14	15	44	3.60	<10	0.89	1104	<1	0.15	<1	1160	4	35	<20	291	0.08	<10	87	20	45	63
17	279377	<0.2	0.72	30	70	10	3.72	<1	13	23	30	3.73	<10	0.72	1161	1	0.17	1	1180	4	45	<20	302	0.08	<10	88	<10	47	51
18	279378	<0.2	0.66	25	100	5	3.40	<1	14	21	29	3.48	<10	0.82	1090	<1	0.07	1	1200	4	35	<20	264	0.10	<10	83	<10	52	55
19	279379	<0.2	0.71	60	560	<5	3.28	<1	10	21	28	3.35	<10	0.84	995	<1	0.07	2	1160	6	35	<20	296	0.07	<10	79	<10	48	56
20	279380	<0.2	0.58	30	45	<5	3.38	<1	12	20	31	3.02	<10	0.67	948	2	0.06	2	1090	4	35	<20	244	0.06	<10	81	<10	49	51
21	279381	<0.2	1.29	35	45	<5	3.65	<1	12	17	16	3.46	<10	0.59	1029	2	0.49	3	1090	6	40	<20	274	0.06	<10	89	<10	38	58
22	279382	<0.2	1.47	75	45	<5	4.34	<1	20	10	18	5.08	<10	0.73	1229	1	0.39	4	1230	6	55	<20	414	0.06	<10	126	<10	43	81
23	279383	<0.2	0.50	35	30	5	4.97	<1	10	16	27	3.46	<10	0.27	1025	2	0.07	<1	1170	4	25	<20	321	0.05	<10	81	<10	50	38
24	279384	<0.2	0.95	60	50	<5	4.45	<1	15	14	28	4.07	<10	0.55	1087	2	0.20	3	1240	4	30	<20	382	0.06	<10	99	30	50	58
25	279385	<0.2	0.46	40	25	<5	3.98	<1	11	16	33	3.57	<10	0.27	834	2	0.06	2	1060	<2	30	<20	310	0.05	<10	99	20	46	43

BIG VALLEY RESOURCES

ICP CERTIFICATE OF ANALYSIS AK 97- 672

ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Tl %	U	V	W	Y	Zn
26	279386	<0.2	0.47	20	30	<5	5.29	<1	12	14	32	3.77	<10	0.31	1091	2	0.06	<1	1180	2	25	<20	338	0.05	<10	106	<10	47	39
27	279387	<0.2	0.43	60	160	<5	5.74	<1	10	14	24	3.55	<10	0.41	1226	2	0.06	<1	1140	<2	25	<20	368	0.04	<10	94	10	44	44
28	279388	<0.2	0.49	40	185	10	5.82	<1	12	13	22	4.25	<10	0.58	1248	2	0.08	<1	1210	<2	30	<20	452	0.05	<10	117	<10	47	39
29	279389	<0.2	2.59	60	65	<5	9.05	<1	17	8	307	4.78	<10	0.68	1470	3	1.28	3	1250	6	45	<20	605	0.04	<10	109	<10	50	49
30	279390	0.2	3.34	70	25	<5	6.16	<1	16	6	914	4.21	<10	0.57	975	3	1.71	4	1160	8	25	<20	454	0.03	<10	110	<10	39	61
31	379391	<0.2	3.81	95	15	<5	7.10	<1	18	5	344	4.35	<10	0.65	898	3	1.91	4	1190	6	30	<20	504	0.04	<10	114	30	37	64
32	379392	<0.2	1.42	60	<5	<5	9.91	<1	13	5	176	3.88	<10	0.58	1212	3	0.49	2	1160	2	40	<20	789	0.02	<10	101	<10	48	41
33	379393	<0.2	2.04	100	15	<5	6.54	<1	22	6	248	5.21	<10	1.15	1232	3	0.63	3	1340	6	60	<20	638	0.03	<10	145	<10	46	74
34	379394	<0.2	2.06	95	70	<5	6.37	<1	22	8	56	5.21	<10	1.11	1214	2	0.51	4	1260	6	40	<20	566	0.04	<10	145	<10	43	87
35	379395	<0.2	3.99	115	30	<5	4.82	<1	23	8	78	4.79	<10	1.30	1088	2	1.69	4	1140	12	45	<20	427	0.05	<10	120	<10	38	78
36	379396	<0.2	3.52	80	60	5	6.79	<1	29	10	56	5.58	<10	1.83	1507	2	1.38	8	1180	2	60	<20	579	0.06	<10	125	<10	43	88
37	379397	<0.2	0.92	45	5	<5	5.38	<1	12	3	290	3.74	<10	0.47	839	2	0.14	2	1130	4	30	<20	748	0.01	<10	92	<10	37	35
38	379398	<0.2	0.89	65	40	<5	6.66	<1	11	3	186	3.82	<10	0.46	1003	3	0.13	2	1180	2	30	<20	795	0.01	<10	92	<10	41	34
39	379399	<0.2	1.25	55	70	<5	7.74	<1	17	5	177	4.62	<10	0.79	1272	2	0.15	4	1240	4	40	<20	835	0.02	<10	109	20	50	51
40	379400	<0.2	1.72	50	145	<5	7.84	<1	19	6	162	4.95	<10	0.98	1355	1	0.25	4	1190	4	50	<20	737	0.05	<10	127	<10	51	56
41	379401	<0.2	3.63	95	55	10	4.06	<1	32	15	65	6.26	<10	1.92	1230	<1	1.28	8	1290	12	70	<20	371	0.29	<10	184	<10	61	84
42	379402	<0.2	4.04	105	60	5	2.61	<1	35	16	127	6.93	<10	2.72	1197	<1	1.41	8	1280	14	85	<20	294	0.30	<10	239	20	51	92
43	379403	<0.2	3.47	105	50	<5	3.57	<1	31	10	647	5.53	<10	1.89	921	<1	1.43	7	1300	12	70	<20	208	0.27	<10	181	<10	54	75
44	379404	<0.2	2.07	95	60	<5	7.16	<1	33	9	373	5.79	<10	2.32	1248	<1	0.41	6	1240	8	90	<20	274	0.28	<10	162	20	54	88
45	379405	<0.2	3.04	80	40	<5	2.30	<1	25	11	105	4.89	<10	1.94	1137	<1	0.76	5	1250	12	65	<20	427	0.24	<10	163	<10	51	71
46	379406	<0.2	3.10	100	70	10	1.93	<1	30	14	98	5.88	<10	2.36	1255	<1	0.72	8	1240	12	80	<20	253	0.32	<10	194	30	57	74
47	379407	<0.2	3.13	195	75	<5	2.68	<1	30	14	283	6.02	<10	2.61	1259	<1	0.34	7	1150	14	90	<20	230	0.32	<10	197	20	56	72
48	379408	<0.2	2.95	100	120	10	1.96	<1	32	14	70	6.26	<10	2.46	1269	<1	0.55	6	1200	14	90	<20	311	0.37	<10	208	20	59	79
49	379409	<0.2	3.37	70	185	15	2.07	<1	29	14	32	5.83	<10	2.00	1031	<1	0.89	6	1150	16	70	<20	578	0.33	<10	205	20	52	66
50	379410	<0.2	3.46	90	195	<5	2.24	<1	29	15	34	6.07	<10	1.86	997	<1	0.81	9	1090	14	90	<20	727	0.32	<10	212	<10	49	69
51	379411	<0.2	3.46	55	120	5	1.63	2	19	8	28	4.06	<10	1.30	706	15	1.15	13	950	12	110	<20	727	0.10	<10	130	<10	32	58
52	379412	0.8	4.64	70	110	5	2.21	4	27	14	38	5.40	<10	1.44	966	32	1.64	25	1190	14	100	<20	682	0.13	<10	188	<10	41	75
53	379413	<0.2	4.10	75	635	<5	1.41	4	21	12	37	4.97	<10	1.43	811	30	1.42	22	1190	10	90	<20	2211	0.10	<10	172	<10	37	63
54	379414	<0.2	3.78	45	185	<5	1.68	4	22	13	32	4.72	<10	1.36	786	26	1.22	20	990	12	70	<20	956	0.10	<10	161	<10	33	59
55	379415	0.2	3.42	20	125	5	1.93	4	21	11	33	4.28	<10	1.33	777	25	0.92	20	950	14	80	<20	900	0.09	<10	151	<10	29	62
56	379416	<0.2	3.05	40	160	<5	1.38	3	15	7	27	3.19	<10	1.10	596	22	1.13	15	760	14	95	<20	776	0.05	<10	109	<10	21	46
57	379417	0.4	3.45	65	140	5	2.42	3	23	12	41	4.61	<10	1.36	769	22	0.78	19	1150	12	100	<20	874	0.13	<10	166	<10	41	59
58	379418	0.6	4.25	55	125	<5	2.54	4	23	12	42	4.81	<10	1.23	902	29	1.40	23	1140	14	110	<20	755	0.11	<10	177	<10	40	64
59	379419	0.4	4.17	55	105	10	2.04	4	24	11	34	5.04	<10	1.21	755	29	1.53	23	1070	12	95	<20	623	0.11	<10	174	<10	35	62
60	379420	0.4	4.19	60	170	5	1.52	4	23	13	34	4.73	<10	1.30	839	29	1.58	22	1100	16	90	<20	804	0.10	<10	164	<10	33	70

BIG VALLEY RESOURCES

ICP CERTIFICATE OF ANALYSIS AK 97-672

ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
61	279421	1.0	4.11	75	75	5	2.09	4	23	12	36	4.67	<10	1.24	901	29	1.36	21	1100	16	280	<20	650	0.11	<10	177	<10	35	67
62	279422	<0.2	2.88	55	65	15	3.72	<1	27	16	52	5.39	<10	1.71	1032	<1	0.19	7	1260	12	75	<20	264	0.30	<10	194	<10	56	73
63	279423	<0.2	2.76	50	90	10	3.19	<1	27	12	43	5.30	<10	1.52	991	<1	0.22	3	1270	14	50	<20	422	0.33	<10	191	<10	55	89
64	279424	<0.2	3.23	85	70	10	4.21	<1	24	14	78	4.98	<10	1.36	919	<1	0.24	5	1240	14	60	<20	482	0.27	<10	188	30	55	75
65	279425	<0.2	3.18	70	70	10	3.50	<1	26	12	54	5.31	<10	1.49	1053	<1	0.37	4	1230	14	55	<20	525	0.29	<10	193	20	51	84
66	279426	<0.2	2.97	60	65	5	3.44	<1	25	12	59	5.01	<10	1.50	1056	<1	0.34	4	1210	14	60	<20	534	0.25	<10	188	<10	48	76
67	279427	<0.2	2.87	85	90	<5	3.95	<1	26	12	59	5.07	<10	1.78	1089	<1	0.15	5	1240	12	65	<20	306	0.27	<10	187	10	57	75
QC/DATA:																													
Repeat:																													
1	279361	<0.2	0.57	40	50	<5	5.58	<1	18	14	24	4.75	<10	1.43	1252	2	0.05	3	1270	2	50	<20	314	0.06	<10	160	<10	42	49
10	279370	<0.2	0.37	60	50	5	2.89	<1	12	14	35	3.78	<10	0.97	994	2	0.05	<1	1260	4	45	<20	226	0.06	<10	94	10	36	47
19	279379	<0.2	0.78	45	610	<5	3.43	<1	11	22	30	3.63	<10	0.88	1048	<1	0.08	2	1220	4	45	<20	313	0.08	<10	86	<10	51	62
36	379396	<0.2	3.38	70	60	5	6.62	<1	28	10	36	5.40	<10	1.72	1450	2	1.31	8	1160	10	60	<20	544	0.06	<10	121	<10	44	87
45	379405	0.6	3.08	70	50	<5	2.30	5	25	12	109	5.10	<10	1.96	1153	27	0.75	25	1250	12	70	<20	432	0.11	<10	175	<10	50	71
54	379414	<0.2	4.03	60	195	10	1.83	<1	24	14	35	5.16	<10	1.41	841	<1	1.24	5	1110	18	60	<20	997	0.27	<10	176	20	40	65
Resplit:																													
1	279361	<0.2	0.63	60	50	5	5.57	<1	18	12	25	4.87	<10	1.44	1256	2	0.05	1	1310	4	55	<20	317	0.06	<10	162	20	40	58
36	379396	<0.2	3.51	90	55	10	7.07	<1	29	10	32	5.70	<10	1.79	1532	3	1.33	6	1190	10	60	<20	562	0.06	<10	127	20	48	89
Standard:																													
GEO'97		1.6	1.76	80	160	<5	1.84	<1	20	60	83	4.16	<10	0.94	678	<1	0.03	24	730	26	5	<20	62	0.12	<10	78	<10	10	72
GEO'97		1.4	1.74	75	160	<5	1.82	<1	20	61	81	4.17	<10	0.96	682	<1	0.03	22	730	22	5	<20	61	0.12	<10	78	<10	10	74

ECO-TECH LABORATORIES LTD.
per Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

df/328B
XLS/97Big Valley
fax: 243-2335
cc: fax: 257-3650 stu tennant

Eco-Tech LABORATORIES LTD.

ASSAYING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ENVIRONMENTAL TESTING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4 Phone (250) 573-5700
Fax (250) 573-4557

CERTIFICATE OF ASSAY AK 97-686

BIG VALLEY RESOURCES
BOX 4210
WILLIAMS LAKE, B.C.
V2G 2V2

16-Jul-97

ATTENTION: LLOYD TATTERSALL/STU TENNANT

Post-it™ Fax Note 7671E | Date July 16 | # of pages 2
To Stu Tennant | From
Co./Dept. | Co.
Phone # | Phone #
Fax # | Fax #

No. of samples received: 24
Sample type: CORE
PROJECT #: LLOYD/NORDIK
SHIPMENT #: NONE GIVEN
Samples submitted by: NOT INDICATED

CALM 97-3

ET #.	Tag #		Au (g/t)	Au (oz/t)	Cu (%)
1	279428	82.6-	<.03	<.001	0.01
2	279429		<.03	<.001	0.01
3	279430		<.03	<.001	0.01
4	279431		<.03	<.001	0.01
5	279432		<.03	<.001	0.01
6	279433		<.03	<.001	0.01
7	279434		<.03	<.001	0.01
8	279435		<.03	< 001	0.01
9	279436		<.03	<.001	0.02
10	279437		<.03	< 001	0.01
11	279438		<.03	<.001	0.01
12	279439		<.03	< 001	0.01
13	279440		<.03	<.001	0.04
14	279441		<.03	<.001	0.01
15	279442		<.03	<.001	0.01
16	279443		<.03	<.001	0.01
17	279444		<.03	<.001	0.01
18	279445		<.03	<.001	0.01
19	279446		<.03	<.001	0.01
20	279447		<.03	<.001	0.01
21	279448		<.03	<.001	0.01
22	279449		<.03	<.001	0.03
23	279450		< 03	< 001	0.02
24	279451		<.03	<.001	0.01

Frank J. Pezzotti, A.Sc.T.B.C.Certified Assayer

BIG VALLEY RESOURCES - AK686

16-Jul-97

ET #.	Tag #	Au (g/t)	Au (oz/t)	Cu (%)
QC/DATA:				
Resplit:				
1	279428	<.03	<.001	0.01
Repeat:				
1	279428	<.03	<.001	0.01
10	279437	<.03	<.001	-
19	279446	<.03	<.001	-
Standard:				
STD-M		1.40	0.041	-
Mp-1a		-	-	1.44

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/97Big Valley
fax: 243-2335
cc: fax: 257-3650 stu tennant

21-Jul-97

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax : 604-573-4557

ICP CERTIFICATE OF ANALYSIS AK 97-686

Post-it™ Fax Note 7671E | Date July 21 | Pages 2
To Stu Tennant | From
Co./Dept. | Co.
Phone # | Phone #
Fax # | Fax #

BIG VALLEY RESOURCES
BOX 4210
WILLIAMS LAKE, B.C.
V2G 2V2

ATTENTION: LLOYD TATTERSALL/STU TENNANT

No. of samples received: 24
Sample type: CORE
PROJECT #: LLOYD/NORDIK
SHIPMENT #: NONE GIVEN
Samples submitted by: NOT INDICATED

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	279428	<0.2	1.29	70	50	<5	4.23	<1	13	2	33	2.96	<10	1.01	958	3	0.44	<1	1030	4	30	<20	583	0.02	<10	62	<10	35	39
2	279429	0.2	0.33	45	75	5	>10	<1	25	<1	13	3.74	<10	3.62	2319	4	0.04	<1	680	<2	40	<20	296	<0.01	<10	75	<10	36	86
3	279430	<0.2	1.16	25	60	<5	4.14	<1	11	<1	11	2.81	<10	0.95	967	3	0.45	<1	1020	<2	25	<20	455	0.02	<10	67	<10	40	36
4	279431	<0.2	2.15	20	110	5	3.12	<1	11	5	12	2.95	<10	0.57	756	<1	0.81	<1	970	4	20	<20	538	0.08	<10	77	<10	36	42
5	279432	<0.2	2.34	20	130	<5	3.71	<1	14	4	19	3.29	<10	0.72	905	<1	0.74	<1	1030	4	25	<20	687	0.09	<10	85	<10	38	46
6	279433	<0.2	1.10	15	25	<5	4.35	<1	14	3	24	3.50	<10	0.93	1145	2	0.20	<1	1080	2	25	<20	540	0.04	<10	79	<10	45	50
7	279434	<0.2	0.75	<5	40	5	5.22	<1	12	4	34	4.11	<10	0.66	1198	3	0.07	<1	1150	2	20	<20	494	0.04	<10	101	<10	42	33
8	279435	<0.2	0.62	10	165	<5	5.55	<1	14	3	31	3.56	<10	1.44	1410	2	0.10	<1	950	<2	30	<20	514	0.02	<10	76	<10	37	44
9	279436	<0.2	0.94	55	30	<5	5.66	<1	13	2	100	3.29	<10	1.06	1153	3	0.23	<1	1070	<2	30	<20	741	0.02	<10	70	<10	40	33
10	279437	<0.2	0.62	15	55	<5	3.30	<1	10	7	16	3.83	<10	0.52	936	2	0.04	<1	1160	4	10	<20	150	0.04	<10	98	<10	39	36
11	279438	<0.2	2.06	25	10	5	3.87	<1	13	5	20	3.32	<10	0.80	847	2	0.74	<1	1050	4	25	<20	559	0.07	<10	82	<10	44	40
12	279439	<0.2	2.35	25	15	<5	3.70	<1	14	7	122	3.34	<10	1.07	925	2	0.83	<1	1040	4	30	<20	523	0.08	<10	90	<10	44	49
13	279440	<0.2	2.45	15	45	<5	3.64	<1	16	7	268	3.71	<10	1.34	1086	<1	0.72	<1	1110	2	30	<20	794	0.06	<10	97	<10	46	59
14	279441	<0.2	2.34	15	30	<5	4.26	<1	15	7	46	4.22	<10	1.12	1096	3	0.68	2	1040	4	25	<20	586	0.04	<10	111	<10	44	53
15	279442	<0.2	2.00	20	45	<5	3.64	<1	10	2	76	2.64	<10	0.70	713	1	0.49	<1	730	6	15	<20	558	0.03	<10	59	<10	27	38
16	279443	<0.2	1.94	30	20	<5	4.40	<1	14	6	17	3.81	<10	1.02	948	2	0.29	2	1040	4	20	<20	421	0.05	<10	81	<10	39	52
17	279444	<0.2	0.40	115	55	<5	>10	<1	10	7	40	2.13	<10	0.37	1030	8	0.06	<1	910	<2	15	<20	573	0.01	<10	37	<10	33	15
18	279445	<0.2	0.54	135	40	<5	>10	<1	27	7	95	2.72	<10	0.43	1193	6	0.06	<1	990	4	20	<20	453	<0.01	<10	43	20	34	47
19	279446	<0.2	1.20	50	40	<5	4.89	<1	15	14	40	3.58	<10	1.08	1084	5	0.11	<1	1140	4	35	<20	434	0.03	<10	79	<10	39	56
20	279447	<0.2	1.99	15	30	<5	4.10	<1	13	5	25	3.42	<10	1.16	888	1	0.41	<1	1030	6	35	<20	440	0.05	<10	85	<10	36	48
21	279448	<0.2	2.99	25	35	5	3.61	<1	17	5	26	4.15	<10	1.50	1125	2	1.04	<1	1100	8	20	<20	379	0.06	<10	88	<10	35	62
22	279449	<0.2	2.03	20	25	<5	4.91	<1	14	5	279	3.68	<10	0.87	945	2	0.64	<1	1180	6	20	<20	381	0.05	<10	110	<10	42	44
23	279450	<0.2	1.69	15	120	<5	3.12	<1	14	7	118	3.94	<10	1.20	975	2	0.32	<1	1180	6	25	<20	387	0.05	<10	77	<10	38	56
24	279451	<0.2	1.95	35	140	5	3.51	<1	16	6	50	4.84	<10	1.65	1178	2	0.14	<1	1350	8	25	<20	375	0.05	<10	90	<10	50	61

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
QC/DATA:																													
Repeat:																													
1	279428	<0.2	1.39	80	50	<5	4.40	<1	15	3	33	3.12	<10	1.10	979	3	0.50	<1	1070	4	30	<20	595	0.02	<10	69	<10	41	40
10	279437	<0.2	0.60	20	50	<5	3.27	<1	11	7	16	3.75	<10	0.49	921	2	0.03	<1	1080	4	15	<20	140	0.04	<10	95	<10	40	38
Resplit:																													
R/S 1	279428	<0.2	1.34	80	50	<5	4.65	<1	15	2	28	3.11	<10	1.10	976	3	0.50	2	1080	6	25	<20	595	0.03	<10	71	<10	39	42
Standard:																													
GEO'97		1.0	1.75	70	145	<5	1.85	<1	20	65	74	3.74	<10	0.94	690	<1	0.03	23	620	20	5	<20	60	0.11	<10	71	<10	10	65

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df/659A
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