

Ministry of Energy & Mines
Energy & Minerals Division
Geological Survey Branch

**ASSESSMENT REPORT
TITLE PAGE AND SUMMARY**

TITLE OF REPORT [type of survey(s)] Geological and Geochemical	TOTAL COST \$10,881.95
--	----------------------------------

AUTHOR(S) Gordon Gibson SIGNATURE 

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S) _____ YEAR OF WORK 2011

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) 5073867, Oct 14/2011

PROPERTY NAME KELLY

CLAIM NAME(S) (on which work was done) Tenure Numbers: 503910, 503911, 503913, 503933

COMMODITIES SOUGHT Cu, Zn, Pb, Au, Ag

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN _____

MINING DIVISION Revelstoke NTS 82M/08

LATITUDE 51 ° 21 ' 00 " LONGITUDE 118 ° 13 ' 00 " (at centre of work)

OWNER(S)

1) International Bethlehem Mining Corporation 2) _____

MAILING ADDRESS

2489 Bellevue Avenue, West Vancouver, B.C., V7E 1E1

OPERATOR(S) [who paid for the work]

1) (same) 2) _____

MAILING ADDRESS

(same)

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Mafic metavolcanic flows, marble, dolomitic marble, phyllitic carbonate, graphitic phyllite, calcareous phyllite, micaceous quartzite, quartz-feldspar grit, muscovite-quartz (biotite-garnet) schist of the Index Formation and Akolkolex Formation (Lower Paleozoic Lardeau Group). Also ultramafic lenses, talc schist, serpentinite, metadiorite and metagabbro of uncertain age. Deformed into northwest-trending, north-plunging isoclinal folds. Greenschist facies metamorphism. VMS mineralization: chalcopyrite, pyrite, sphalerite, galena (stratabound) in metavolcanics. Av. size 1.5m x 50m @2.5% Cu, 3% Zn at nearby Standard deposit.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS _____

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping _____	1:10,000 - 150 hectares	503913, 503933	6,179.43
Photo interpretation _____			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic _____			
Electromagnetic _____			
Induced Polarization _____			
Radiometric _____			
Seismic _____			
Other _____			
Airborne _____			
GEOCHEMICAL			
(number of samples analysed for ...)			
Soil _____			
Silt _____			
Rock _____	4 samples (grab) - 38-element ICP	503913	373.09
Other _____			
DRILLING			
(total metres; number of holes, size)			
Core _____			
Non-core _____			
RELATED TECHNICAL			
Sampling/assaying _____			
Petrographic _____			
Mineralographic _____			
Metallurgic _____			
PROSPECTING (scale, area) _____	1:10,000 - 150 hectares	503913, 503933	4,329.43
PREPARATORY/PHYSICAL			
Line/grid (kilometres) _____			
Topographic/Photogrammetric (scale, area) _____			
Legal surveys (scale, area) _____			
Road, local access (kilometres)/trail _____			
Trench (metres) _____			
Underground dev. (metres) _____			
Other _____			
TOTAL COST			\$10,881.95



Print and Close

Cancel

Mineral Titles Online

Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

Recorder: INTERNATIONAL BETHLEHEM MINING CORP. (137058)

Submitter: INTERNATIONAL BETHLEHEM MINING CORP. (137058)

Recorded: 2011/OCT/14

Effective: 2011/OCT/14

D/E Date: 2011/OCT/14

Confirmation

If you have not yet submitted your report for this work program, your technical work report is due in 90 days. The Exploration and Development Work/Expiry Date Change event number is required with your report submission. Please attach a copy of this confirmation page to your report. Contact Mineral Titles Branch for more information.

Event Number: 5073867

Work Type: Technical Work

Technical Items: Geochemical, Geological, PAC Withdrawal (up to 30% of technical work performed)

Work Start Date: 2011/OCT/08

Work Stop Date: 2011/OCT/10

Total Value of Work: \$ 10500.00

Mine Permit No:

Summary of the work value:

Tenure Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days Forward	Area in Ha	Applied Work Value	Sub- mission Fee
503910	KELLY 1	2005/jan/16	2011/oct/16	2012/oct/16	366	424.07	\$ 3394.93	\$ 170.09
503911	KELLY 2	2005/jan/16	2011/oct/16	2012/oct/16	366	423.96	\$ 3394.01	\$ 170.05
503913	KELLY 3	2005/jan/16	2011/oct/16	2012/oct/16	366	423.84	\$ 3393.09	\$ 170.00
503933	KELLY 4	2005/jan/16	2011/oct/16	2012/oct/16	366	484.28	\$ 3876.94	\$ 194.24

Financial Summary:

Total applied work value: \$ 14058.97

PAC name: International Bethlehem Mining Corp.

Debited PAC amount: \$ 3558.97

Credited PAC amount: \$ 0.0

Total Submission Fees: \$ 704.39

Total Paid: **\$ 704.39**

Please print this page for your records.

**GEOLOGICAL & GEOCHEMICAL
REPORT**

on

**BC Geological Survey
Assessment Report
32644**

Mineral Tenures:

503910 – KELLY 1
503911 – KELLY 2
503913 – KELLY 3
503933 – KELLY 4

Revelstoke Mining Division

NTS: 82M/08

BCGS: 082M.039 & 082M.040

Latitude: 51° 21' N Longitude: 118° 13' W

UTM: 5,689,440N; 415,450E NAD83 – Zone 11

Owner and Operator:

International Bethlehem Mining Corporation

Author:

Gordon Gibson, B.Sc.

Jan 10, 2012

TABLE OF CONTENTS

	Page
Introduction	3
Claims	3
Location and Access	4
Topography, Climate and Vegetation	5
History	5
Work in 2011	7
Regional Geology	8
Property Geology	9
Rock and Talus Fine Sampling	10
Conclusions	10
Recommendations	10
References	12
Statement of Qualifications – G. Gibson	14
Statement of Expenditures	15
Statement of Analytical Procedures	16
Certificates of Analysis	17

LIST OF ILLUSTRATIONS

	Following Page
Location Map (Figure 1)	3
Mineral Tenures (Figure 2)	3
Regional Geology (Figure 3)	8
Geology & Sampling 1:10,000 (Figure 4)	9

INTRODUCTION

International Bethlehem Mining Corporation (the 'Company') holds a 100% interest in the contiguous KELLY 1, KELLY 2, KELLY 3 and KELLY 4 mineral claims, MTO tenures 503910, 503911, 503913 and 503933 respectively (the 'Property'), located approximately 39 km northeast of Revelstoke in southeastern British Columbia – see the Location Map, Figure 1. This report documents a 3-day geological mapping, prospecting and sampling program that was carried out on the Property from October 08-10, 2011 by a geologist and a prospector.

CLAIMS

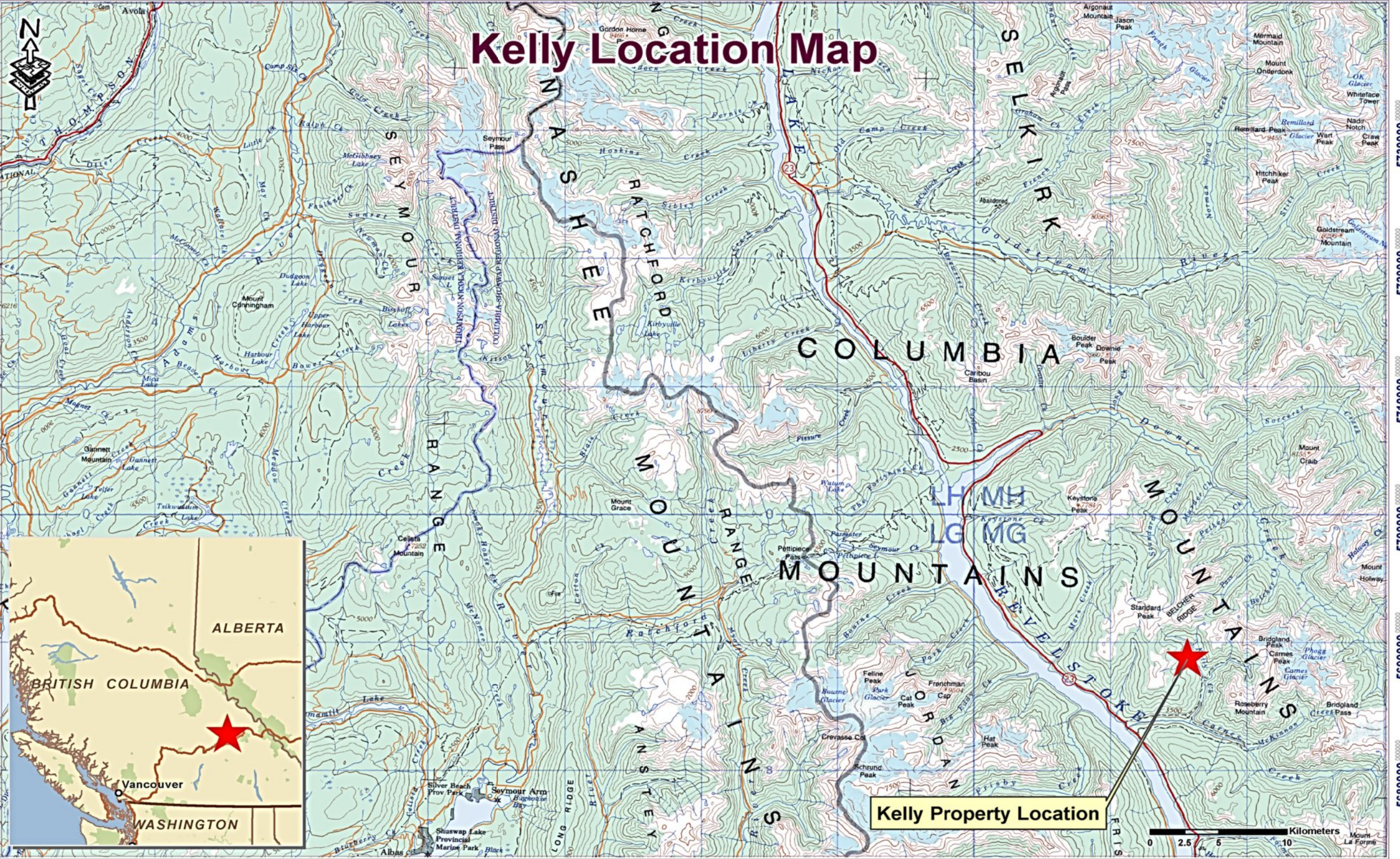
The KELLY 1 to KELLY 4 contiguous MTO cell tenures form part of the larger Rain Property located in the Revelstoke Mining Division - see Mineral Tenures, Figure 2.

Claim Name	Tenure No. ID	Issue Date	Good To Date	Area (hectares)
KELLY 1	503910	2005 Jan 16	2011 Oct 16	424.07
KELLY 2	503911	2005 Jan 16	2011 Oct 16	423.96
KELLY 3	503913	2005 Jan 16	2011 Oct 16	423.84
KELLY 4	503933	2005 Jan 16	2011 Oct 16	484.28
			Total:	1,756.15

Exclusive (100%) owner and operator on the KELLY 1 to KELLY 4 claims is International Bethlehem Mining Corporation. Work in 2011 was conducted on the northernmost claims KELLY 3 and KELLY 4 above. One year of assessment is hereby applied to each of tenures 503910, 503911, 503913 and 503933.

330000 000000 340000 000000 350000 000000 360000 000000 370000 000000 380000 000000 390000 000000 400000 000000 410000 000000 420000 000000 430000 000000

Kelly Location Map



Kelly Property Location

0 2.5 5 10 Kilometers

330000 000000 340000 000000 350000 000000 360000 000000 370000 000000 380000 000000 390000 000000 400000 000000 410000 000000 420000 000000 430000 000000

413000.000000

416000.000000

419000.000000

KELLY PROPERTY MAP



Columbia Mountains

Pass Peak

Belcher Ridge

Selkirk Mountains

Kelly Crest

503933

503913

503911

503910

Roseberry Mountain

5690000.000000

5690000.000000

5684000.000000

5684000.000000

413000.000000

416000.000000

419000.000000

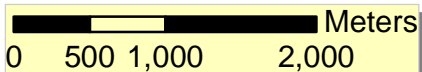
Legend



IBC CLAIMS



ADJACENT CLAIMS



Kelly Property Map

Scale: 1:50,000

Projection: NAD 83 UTM Zone 11N

Date: Updated: Dec. 20, 2011

Author: Gordon Gibson

LOCATION AND ACCESS

The Property is located in the Selkirk Mountains of southeastern British Columbia approximately 39 air kilometres northeast of Revelstoke (NTS: 82M/08; BCGS: 082M.039 & 082M.040) – see the Location Map, Figure 1. Coordinates of the approximate geographic center of the claims are Latitude 51° 21' N, Longitude 118° 13' W (UTM: 5,689,440N, 415450E; NAD83 Zone 11). The Property straddles the northwest headwaters of Kelly Creek about 23 kilometres upstream from its confluence with Carnes Creek. Work in 2011 was confined mainly to east, southeast and south facing slopes forming the cirque at the head of Kelly Creek (west branch), south of Belcher Ridge and Standard Peak.

Nearest road access to the southern portions of the claim group is via 36 kilometres of paved all weather highway north of Revelstoke along Provincial Route 23 to Carnes Creek, then 9 kilometres east along Carnes Main FSR to McKinnon Creek and the J&L polymetallic Au-Ag-Zn deposit, followed by some 23 kilometres of overgrown pack trail along the north bank of Carnes Creek into Kelly Creek, thence via the east branch to the historic A&E Zn-Pb (Ag) prospect. Carnes Main FSR and its spurs are radio controlled logging roads of the B. C. Ministry of Forests.

Permanent helicopter bases at Revelstoke and Golden, B.C. facilitate access to higher reaches of the Property.

TOPOGRAPHY, CLIMATE AND VEGETATION

The work took place on gentle to steep south-facing partially wooded slopes, and alpine ridges ranging in elevation from 1,000 metres to 1,900 metres ASL.

Climate is that of the Interior Rain Belt with temperatures ranging between -15°C and +30°C. Annual precipitation averages 1.15 metres more than half of which falls as snow.

Vegetation consists of mature stands of cedar, hemlock, balsam and spruce. Well-drained areas, creek draws and logging plantations are often clothed in a dense undergrowth of slide alder and devil's club.

HISTORY

Exploration in the area began in the late 1860's with the discovery of placer gold in the lower Goldstream River and its tributaries French, Graham, McCulloch and Old Camp Creeks. Gold-bearing quartz veins were subsequently discovered in the Groundhog Basin at the head of McCulloch, Graham and Old Camp Creeks and the first crown granted mineral claims there were recorded in the late 1890's. Subsequent exploration of the lode occurrences has been episodic, beginning in the 1940's and continuing with campaigns by Stanmack Mines Ltd (1960's) and more recently Ark Energy Ltd., Aurun Mines Ltd and Orphan Boy Resources Inc. (early 1980's to 1996).

Two massive Cu-Zn and Pb-Zn-Ag sulphide deposits - the Montgomery, Standard were discovered in 1895.

The important J&L stratiform precious and base metal deposit was first staked in 1896 and considerable underground and surface development was carried out in the mid-1980's by Selco Inc. (subsequently BP Canada, Ltd.), then Noranda (1986-87), Equinox Resources Ltd. (1988-94), Cheni Gold Mines Inc. (1990-93), Weymin Resources (1996-98) and HuaKan International Mining Inc. since 2007.

The Goldstream Cu-Zn massive sulphide deposit was discovered in 1972. In 1975 Noranda Exploration Co. Ltd. optioned the property and later the same year outlined a deposit of 3.175 mt grading 4.49% Cu and 3.24% Zn. Regional exploration programs were conducted by Noranda during the period 1976-77 and 1986-87, including a major drill campaign on the related Standard deposit in 1976. The Goldstream mine produced briefly under Noranda during the interval 1983-84. In 1989 Bethlehem and Goldneve acquired the Goldstream deposit from Noranda and subsequently placed the mine into production during the interval Apr/1991 to Jan /1996. Concurrently in 1990-94 Bethlehem and Goldneve discovered the nearby C-1, Brew and Grid base metal occurrences. In 1999 the Goldstream mine, infrastructure and property were acquired by Orphan Boy Resources Inc. from Bethlehem & Goldneve. In 2000 Bethlehem discovered the Spire base metal occurrence and in 2001 Orphan Boy discovered the Boutwell occurrence, both along the Goldstream trend.

The Goldstream (including Spire) and Groundhog Basin claims were finally amalgamated in 2003 under the current owner Orphan Boy Resources [now International Bethlehem Mining Corp.] and in 2004-06 Orphan Boy conducted major exploration campaigns in the area.

The geology of NTS mapsheet 82M was first mapped by the Geological Survey of Canada at a scale of 1 inch to 4 miles in the early 1960's (Wheeler, 1965).

In 1976 the regional geology of the Goldstream River area was mapped by the British Columbia Ministry of Energy, Mines and Petroleum Resources (Hoy, 1979) and later became the focus of a four year regional mapping program by the BCMEM Geological Survey Branch, the North Selkirk Project (Logan and Drobe, 1994; Logan and Colpron, 1995; Logan, Colpron and Johnson, 1996; Logan and Rees, 1997). The latter mapping resulted in discovery of the LoCoJo Zn-Pb occurrence in 1995 (now the LJ) which was subsequently staked in 1997 by Weymin Resources Ltd. Cross Lake Minerals Ltd. acquired the property in 2000, and ran mapping/sampling programs in 2001-02, surface EM surveys in 2004, and a program of drilling in 2005. The property was subsequently optioned to Venturex Resources who conducted major drill campaigns in 2006 & 2007.

Since 1974, detailed geological mapping of the region north of Revelstoke has been undertaken as part of MSc and PhD structural & metamorphic thesis studies by students at Carleton University, Queen's University, The University of Calgary and the University of British Columbia.

WORK IN 2012

Three (3) days, Oct 08-10, were devoted to helicopter-assisted geological mapping, prospecting and sampling of cross drainages and talus in upper Kelly Creek.

Approximately 150 hectares of mapping & prospecting were completed. Four (4) rock samples were collected from stream float and talus fines and submitted for 38-element ICP-MS analysis, results are presented in Figure 4 – scale 1:10,000.

REGIONAL GEOLOGY

The northern Selkirk Mountains is a complex deformed and metamorphosed region situated between the foreland fold and thrust belt of the Canadian Rockies on the east, and the Shuswap Metamorphic Complex on the west.

In the Downie Creek – Carnes Creek area, isoclinally deformed Late Proterozoic to early Paleozoic metasedimentary and metavolcanic units of the Selkirk Allochthon, as well as numerous large plutonic bodies, are part of the pericratonic Kootenay Terrane. The composite Selkirk Allochthon was displaced eastward as much as 300 kilometers over core gneiss and mantling gneiss of the metamorphic infrastructure (Monashee Complex) along the Monashee Décollement and east-dipping Columbia River Fault between Late Jurassic and Paleocene time – see Figure 3.

In Carnes Massif and in cliffs east of upper Downie Creek massive dolomitic marble of the Lower Cambrian Badshot Formation up to several hundred metres thick demarks the south-plunging keel of the Illecillawaet Synclinorium. Overlying the Badshot Formation the Paleozoic Index Formation, comprises a basal member of carbonaceous pyritic and calcareous phyllite (host to the Goldstream Cu-Zn massive sulphide deposit and LJ deposits), discontinuous marble, chlorite-carbonate phyllite and rare lenticular ultramafic pods, and an upper member consisting of chlorite-actinolite schist, greenstone, calcareous green phyllite, grey marble and micaceous quartzite. The Akolkolex Formation (proposed new name - see Logan and Colpron, 2006) conformably overlies the Index Formation. Locally the Akolkolex Formation is made up of tan-weathering rhythmically interbedded quartz grit, pale green micaceous quartzite and green sericite-chlorite phyllite. West of the headwaters of Mars, Holdich and Carnes Creeks, along the

western edge of the KELLY claims, inverted strata of the Akolkolex Formation comprise the lowest and westernmost structural slice of the Selkirk Allochthon (Holdich Domain), separated from Roseberry Domain along much of its length by the Standard Peak Fault.

PROPERTY GEOLOGY

Our work in 2012 was successful in tracing stratigraphy and northwest trending isoclinal fold structures from alpine exposures of Standard Ridge more than 2 kilometres southward below tree line, into upper Kelly Creek. In this area a distinctive interval of mafic metavolcanic flows with several included lenticular ultramafic intrusions (the principal host rocks at the Standard stratabound Cu-Zn-Pb VMS deposit) occupy the core of a gently north plunging appressed synform with axial surface and both limbs dipping moderately northeast – see Geology & Sampling, Figure 4. The favourable volcanic host units and structurally underlying graphitic phyllites were mapped and prospected in south facing bluffs on a 2 kilometre northeast transect at 1,480 metre elevation in Kelly Creek.

All micaceous rock units are characterized by a well-developed penetrative mineral foliation. This principal early foliation strikes north to northwest with moderate northeast dips, sub-parallel to layering, indicating long-limbed northwest-trending reclined isoclinal folds. Locally both the dominant foliation and layering are disrupted by upright late-stage kink folds with axial-planar crenulation cleavage trending eastward and dipping steeply north or south.

ROCK AND TALUS FINE SAMPLING

Four (4) grab samples from stream float and talus fines were taken, placed in cloth or Hubco Sentry™ sample bags, and submitted to Acme Analytical Laboratories (Vancouver) Ltd. for 38-element ICP-MS analysis. Sample locations and results for Cu, Zn, Pb, Au and Ag are shown on Figure 4. Refer to the Certificates located at the back of this report for complete ICP-MS analytical results.

The samples were taken from covered areas underlain by micaceous quartzite, interbedded rusty-weathering phyllite, and muscovite-quartz (biotite, garnet) schist of the Akolkolex Formation.

Results generally fall within background levels for most elements.

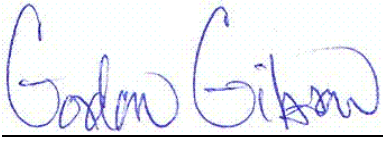
CONCLUSIONS

Elements of the well studied geology of the Standard deposit and Standard Ridge can be extended 2 kilometres southward along strike into the cirque at the headwaters of Kelly Creek. Three days of geological mapping, prospecting and sampling in this area in 2011 while successful in identifying the favorable Standard host units failed to disclose any Cu, Zn mineralization of significance.

RECOMMENDATIONS

Prospecting should be extended to the southernmost KELLY claims in an effort to discover Au, Ag, and base metal mineralization on trend with the J&L main zone which projects northwest below cover through the centre of the claim block.

Respectfully submitted,

A handwritten signature in blue ink that reads "Gordon Gibson". The signature is written in a cursive style with a large initial "G".

Gordon Gibson, B.Sc.

REFERENCES

- Colpron, M., Logan, J.M., Gibson, G., and Wild, C.J., 1995. Geology and Mineral Occurrences of the Goldstream River Area, NTS 82M/9, 10; B.C. MIN. EN. MIN. PET. RES., Open File 1995-2, 1:50,000.
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- Logan, J.M., and Drobe, J.R., 1994. Summary of Activities, North Selkirk Project, Goldstream River and Downie Creek Map Areas (82M/8, 9 and parts of 10); B.C. MIN. EN. MIN. PET. RES., Paper 1994-1, pp. 153-169.
- Logan, J.M., and Rees, C., 1997. Northern Selkirk Project – Geology of the LaForme Creek Area (NTS 082M/01); B.C. MIN. EMP. INV., Energy and Minerals Division, Geological Survey Branch, Paper 1997-1, pp. 25-37.

Logan, J.M., Gibson, G. and Colpron, M., 1995. Geology of the Goldstream Mine Area, NTS 82M/9; B.C. MIN. EN. MIN. PET. RES., Open File 1995-3, 1:10,000.

Logan, J.M., Colpron, M. and Johnson, B.J., 1996. North Selkirk Project – Geology of the Downie Creek Map Area (82M/8); B.C. MIN. EN. MIN. PET. RES., Paper 1996-1, pp. 107-125.

Wheeler, J.O., 1965. Big Bend Map Area, British Columbia (82M East Half); GEOL. SURV. CAN., Paper 64-32, 37 p.

STATEMENT OF QUALIFICATIONS

I, Gordon Gibson of the City of Vancouver, Province of British Columbia, do hereby certify that:

- I am an independent consulting geologist with business office at Suite 201 – 2020 West 2nd Avenue, Vancouver, British Columbia, Canada, V6J 1J4.
- I am a graduate of the University of British Columbia with an Honours B.Sc. degree in Geological Sciences (1975).
- I have practiced my profession as a geologist since 1975.
- I am a member of the Prospectors & Developers Association of Canada, and AMEBC.
- Since June, 2011 I have been employed as Exploration Manager for International Bethlehem Mining Corporation, 2489 Bellevue Avenue, West Vancouver, B.C. to perform the exploration program outlined in the accompanying report. I own securities of the Company and as such have a beneficial interest in the affairs of the Company and in the mining property discussed in the accompanying report.



Gordon Gibson, B.Sc.

STATEMENT OF EXPENDITURES

Consulting Geologist: 3 days @ \$700/day (Aug 06-08/2006)	2,100.00
Prospector: 3 days @ \$500/day (Aug 06-11/2006)	1,500.00
Travel & accommodations:	1,350.00
Helicopter Charter:	4,308.86
ICP-MS 38-element analysis:	373.09
Report writing	1,250.00

	\$10,881.95

STATEMENT OF ANALYTICAL PROCEDURES

CERTIFICATES OF ANALYSIS



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: International Bethlehem Mining Corp.
2489 Bellevue Ave.
West Vancouver BC V7E 1E1 Canada

Submitted By: Gordon Gibson
Receiving Lab: Canada-Vancouver
Received: October 14, 2011
Report Date: December 14, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN11005524.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 7

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: International Bethlehem Mining Corp.
2489 Bellevue Ave.
West Vancouver BC V7E 1E1
Canada

CC: Astrid

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Contains 3 rows of sample analysis data.

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **International Bethlehem Mining Corp.**
 2489 Bellevue Ave.
 West Vancouver BC V7E 1E1 Canada

Project: None Given
 Report Date: December 14, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN1100524.1

Method	WGHT	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	
K1	Rock	0.98	0.50	24.00	9.71	84.0	54	41.6	13.4	1044	4.44	3.7	0.7	2.6	7.9	4.2	0.21	0.05	0.15	18	0.06
K2	Rock	1.05	0.51	19.28	6.36	67.5	18	37.3	13.2	610	3.43	2.3	0.5	1.8	9.4	7.3	0.13	0.05	0.09	26	0.12
K3	Rock	1.02	0.19	23.14	11.82	82.1	55	29.9	9.3	745	2.92	6.4	1.3	2.3	10.8	5.3	0.34	0.06	0.14	5	0.03
K4	Rock	1.37	2.50	24.29	2.73	49.5	22	62.6	13.5	377	3.12	5.5	0.6	1.1	5.9	11.8	0.08	0.10	0.05	52	0.27
GB1	Rock	2.69	0.12	11.03	5.57	76.7	20	42.4	12.3	551	3.61	5.7	0.6	2.9	9.2	7.8	0.06	0.04	0.05	7	0.21
GB2	Rock	0.74	0.06	2.60	28.26	31.0	86	16.7	9.2	1491	2.39	0.4	0.6	1.2	6.0	181.9	0.29	0.02	0.91	5	5.38
GB3	Rock	0.62	0.14	8.56	4.03	64.2	7	34.9	15.6	457	3.60	10.4	1.2	3.6	10.6	3.1	0.04	0.03	0.07	7	0.03



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Project: None Given
 Report Date: December 14, 2011

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

VAN11005524.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	3B	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Au	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	
MDL	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	2	
K1	Rock	0.032	11.6	25.2	0.91	43.9	0.002	<1	1.69	0.011	0.12	<0.1	1.8	0.04	0.15	<5	<0.1	0.03	4.7	N.A.
K2	Rock	0.054	14.2	32.8	0.93	39.6	0.008	<1	1.59	0.014	0.13	<0.1	2.5	0.04	0.02	<5	<0.1	<0.02	4.5	N.A.
K3	Rock	0.020	17.5	5.2	0.11	48.5	<0.001	<1	0.40	0.029	0.16	<0.1	1.1	0.04	0.04	<5	<0.1	<0.02	1.0	N.A.
K4	Rock	0.029	13.4	60.3	1.24	54.8	0.021	<1	1.48	0.008	0.10	<0.1	3.4	0.03	<0.02	<5	<0.1	<0.02	4.3	N.A.
GB1	Rock	0.034	16.6	6.2	0.12	41.9	0.007	<1	0.39	0.006	0.22	<0.1	1.2	0.07	<0.02	<5	<0.1	<0.02	1.0	<2
GB2	Rock	0.054	10.3	4.2	0.22	32.9	0.002	<1	0.24	0.007	0.15	<0.1	1.3	0.04	<0.02	<5	<0.1	<0.02	0.6	<2
GB3	Rock	0.031	20.9	5.7	0.07	25.4	0.001	<1	0.35	0.008	0.23	<0.1	1.1	0.07	<0.02	<5	<0.1	<0.02	0.8	<2



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Page: 1 of 1 **Part** 1

QUALITY CONTROL REPORT

VAN11005524.1

Method	WGHT	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	
Pulp Duplicates																					
GB2	Rock	0.74	0.06	2.60	28.26	31.0	86	16.7	9.2	1491	2.39	0.4	0.6	1.2	6.0	181.9	0.29	0.02	0.91	5	5.38
REP GB2	QC		0.04	2.51	28.18	31.1	89	15.4	8.8	1468	2.36	0.4	0.6	0.3	5.9	174.9	0.23	<0.02	0.92	5	5.33
Reference Materials																					
STD DS8	Standard		13.74	109.4	131.9	323.7	1869	38.9	7.4	662	2.64	26.9	3.0	127.5	7.3	68.2	2.48	5.72	6.75	46	0.74
STD OXC88	Standard																				
STD OXH82	Standard																				
STD OXC88 Expected																					
STD OXH82 Expected																					
STD DS8 Expected			13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7
BLK	Blank																				
BLK	Blank																				
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
Prep Wash																					
G1	Prep Blank	<0.01	0.15	2.46	2.92	46.0	15	2.3	3.7	561	1.93	0.4	1.4	3.0	5.4	65.0	0.02	0.03	0.05	37	0.49



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Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN11005524.1

Method		1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	3B	
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Au	
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	
MDL		0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	2	
Pulp Duplicates																					
GB2	Rock	0.054	10.3	4.2	0.22	32.9	0.002	<1	0.24	0.007	0.15	<0.1	1.3	0.04	<0.02	<5	<0.1	<0.02	0.6	<2	
REP GB2	QC	0.053	10.3	4.0	0.22	33.3	0.002	<1	0.23	0.007	0.15	<0.1	1.3	0.05	<0.02	<5	<0.1	<0.02	0.5		
Reference Materials																					
STD DS8	Standard	0.083	16.4	128.7	0.65	276.9	0.118	3	0.98	0.092	0.43	3.2	2.1	5.86	0.17	237	5.4	5.26	5.1		
STD OXC88	Standard																			204	
STD OXH82	Standard																			1300	
STD OXC88 Expected																				203	
STD OXH82 Expected																				1278	
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7		
BLK	Blank																			<2	
BLK	Blank																			<2	
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1		
Prep Wash																					
G1	Prep Blank	0.079	12.2	3.9	0.50	150.0	0.102	1	0.89	0.079	0.45	0.1	1.8	0.32	<0.02	<5	<0.1	<0.02	4.5	<2	