

Exploring opportunities with demonstrated potential for exceptional mines

Labrador Gold & Nickel/Copper/Cobalt Projects

Newfoundland & Labrador, Canada

BuchansResources

May 2024

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Qualified Person

Paul Moore M.Sc., P.Geo. (NL), Vice President Exploration of Buchans Resources Limited and a Qualified Person as defined by National Instrument 43-101, has approved the scientific and technical disclosure contained in this presentation.

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Voisey's Bay Style Ni-Cu-Co –

Canterra Minerals (TSXV:CTM) Buchans Mining Camp (Zn-Pb-Cu-Ag-Au) <u>& gold projects</u> - adjacent Calibre Mining -*Valentine mine (3.96 Moz gold M&I - under construction)

Minco Exploration Zn-Pb projects Tara – Boliden JV

Toronto

Canadian Exploration & Development Company focused on districts & opportunities with demonstrated potential for exceptional mines

- Nickel-Copper-Cobalt Voisey's Bay, Labrador world-class Ni-Cu-Co mining district (Vale)
- Gold Labrador (Homestake analogue) unexplored frontier potential for world-class gold deposits

Other Assets (equity)

Orogenic Au

- Royalties Inc. (formerly Xtierra Inc.) shares (~15%), Minco Exploration Plc. shares (~14%) Zinc Ireland
- Canterra Minerals Corporation (~14% of common shares, plus exchangeable warrants) exposure to base metals & gold projects - Buchans (base metals) & gold projects - central Newfoundland - on strike/adjacent -Calibre Mining's Valentine mine (under construction)
- BRL to retain ~\$3M equivalent of Canterra shares to fund nickel, copper, cobalt & gold exploration assets in Labrador & general working capital and distribute remainder to Buchans shareholders during Q2 2024

Royalties Inc. (RI:CSE) advanced silver+base metals project

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Tasiuyak Gold Project

Paleoproterozoic Orogenic Iron Formation-hosted Gold

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Paleoproterozoic Gold

Tasiuyak covers rocks analogous with goldbearing orogenic rocks that hosts similar age (~1.8 billion years old) gold deposits (i.e., Homestake & Kittilä)

ores dominated by sulphidic iron-rich rocks including metasediments (Homestake) and mafic volcanics (Kittilä)

"formational host" - not fault structures or veins tend to form large-tonnage deposits with large gold inventories

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Tasiuyak Gold VBE-2 Prospect

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Discovery outcrop samples up to 18.9 g/t Au over 1.0 m

2018 Channel Sampling



1997 core tested horizon to <65 m depth over 250 m strike

looking south - July 2018

Tasiuyak Gold VBE-2 Prospect – 2018 Sampling

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8.51 g/t Au & 0.93 g/t Ag over 4.8 m

Formational sulphide iron formation host (no Qtz veins)... significant tonnage potential

31.91 g/t Au / 0.85 m/ 320008

-4.8 m

July 2018

VBE-2 Prospect Potential at Depth – Target Scale



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Possible Analogue

- Homestake gold occurs almost exclusively in Homestake Formation... mostly stratabound ore as segregations of pyrrhotite, arsenopyrite, minor pyrite, gold, & minor (Caddey et al., 1991)
- Tasiuyak gold occurs almost exclusively in sulphidic paragneiss...mineralization dominated by pyrrhotite (pyrite), chalcopyrite, arsenopyrite, minor löllingite & (*free gold)





 produced >42 Moz gold & 9 Moz silver from ~152 M tonnes ore averaging ~8.4 g/t Au (0.24 oz/ton)** between 1876 and 2001

** Resource/ grade figures - Caddey et al., 1991 (124.9 M tonnes mined to 1998) 11 Mineral Mountain Resources: https://mineralmountainresources.com/ (mine closure - Dec. 2001)

Tasiuyak Gold - Homestake Analogue



TASIUYAK SUMMARY

- Outstanding opportunity prospecting may yield important discoveries
- frontier area almost no prior gold exploration gold discovered during Voisey's Bay Ni rush
- district potential formational targets capable of yielding world-class accumulations of gold
- *multiple prospective horizons to be prospected target fold closures "ledges"*
- drill ready VBE-2 "discovery" open down plunge (>250 m) and at depth >65 m
- accessible 6 km from tide-water, established mining area adjacent to Vale's Voisey's Bay mine

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Labrador Nickel-Copper-Cobalt Projects

Voisey's Bay Meso-Proterozoic Magmatic Ni sulphides

Labrador, Canada



Reacted Gneiss Inclusions mineralized – contaminated olivine gabbro containing magmatic sulphides & partially digested gneissic country rock xenoliths

photos: Commander/ Fjordland websites

Voisey's Bay Background



Voisey's Bay Background



Voisey's Bay – Labrador (Ni-Cu-Co) LUK Property

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BRL LUK Property Highlights

- historic surface samples incl. assays up to 1.86% Ni, 0.24% Cu, 0.165% Co
- drilled intercepts up to 7.4 m @ 0.45% Ni, 0.18% Cu, 0.03% Co

BRL - 2023 compiled exploration data - exploration potential at depth >500 m

Luk Property - Voisey's Bay

100% BRL - 1.25 km² property covers Voisey's Bay Troctolite surrounded by Vale's Voisey's Bay mine property <8 km southwest of VB mine

2018 - US \$2.7 billion mine expansion (almost complete) - mine to operate to 2034 *(transition open pit to underground)*

2022 - Vale exploration success below 1,000 m (***Reid Brook Extension* - <u>2.79%</u> <u>Ni, 1.31% Cu/ 92.6 m</u>)

2023 - Vale intends to drill <u>300 km over</u> <u>next 5 yrs</u>

^{*} pre-mining resource estimates – Inco 1998 Annual Report

 ^{** 2022} Vale XXII Analyst & Investor Tour Presentation, Sept. 7th, 2022
 2023 Vale - PDAC-Atlantic Edge presentation

Voisey's Bay – Labrador (Ni-Cu-Co) LUK Property – Vale's Recent Exploration Success

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Source: 2022 Vale XXII Analyst & Investor Tour Presentation, Sept. 7th, 2022

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Mineralized olivine gabbro sill overlying gneissic country rock

Reacted Gneiss Inclusions

photos: Commander/ Fjordland websites

mineralized - contaminated olivine gabbro containing magmatic sulphides & partially digested gneissic country rock xenoliths (*confirmed Voisey's Bay style/age mineralization*)

GG showing - BRL Claims - South Voisey's Bay

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BRL - 10.75 km² property covering mineralized troctolite - 85 km south of Voisey's Bay mine

Poss. extension of Voisey's Bay magmatic event (intrusive rocks similar geology/ age/ mineralization)

Drilled intercepts up to 1.1 m 11.9% Ni, 9.6% Cu, & 0.43% Co & 15.7 m 1.13% Ni, 0.78% Cu, 0.20% Co (BRL claims)

Deep **untested 5 Hz MT anomaly** adjacent to multiple high-grade massive sulphide intercepts - <u>remains untested</u>

BRL staked in 2016 - surrounded by Fjordland-Commander JV - previously JV'd to Ivanhoe Electric (Robert Friedland-led company)

• FEX-IVE JV drill holes

Ivanhoe abandoned JV April 17, 2023

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Previous intercepts located close to deep untested AMT anomaly detected below depth capability of previous geophysical surveys (>>200 m)

(Fjordland Exploration Inc. and Commander Resources Ltd. - 2015 Tech. Report)

Labrador Ni Summary

- BRL's Ni projects excellent exploration opportunities discovery world-class Voisey's Bay deposits previous exploration short-lived exploration rush identified several overlooked opportunities
- BRL Ni projects Voisey's Bay & South Voisey's Bay priority target areas with confirmed Voisey's Bay-style mineralization
- BRL experienced team (former Teck/ Inco-VBNC) able to operate existing projects
- LUK strategic location with deep exploration potential
- South Voisey's Bay "drill ready" target (untested AMT anomaly)
 incl. drilled intercept of <u>1.1 m @ 11.9% Ni, 9.6% Cu, & 0.43% Co</u>



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VBE-2 Prospect 1997 Drilling

VBE-2 discovery o/c 8.51 g/t Au & 0.93 g/t Ag over 4.8 m incl. 31.91 g/t Au over 0.85 m

90 m outcrop exposure

drilled ~275 m strike <65 m depth

...open in all directions... "discovery holes" already drilled...





DDH	From (m)	To (m)	width (m)	Au (g/t)	Ag (g/t)
VBE2-1	47.85	51.74	3.89	2.46	2.93
	47.85	50.14	2.29	3.81	2.82
	47.85	48.91	1.05	4.86	1.71
	48.91	50.14	1.23	2.92	3.77
	50.14	51.21	1.07	0.34	3.43
	51.21	51.74	0.53	0.92	2.4
VBE2-2	56.24	57.15	0.91	3.53	2.74
VBE2-3	49.83	51.24	1.40	2.61	3.09
VBE2-4	47.52	49.65	2.13	5.46	3.52
	47.52	48.37	0.85	1.50	3.09
	48.37	49.07	0.70	10.62	4.11
	49.07	49.65	0.58	5.05	3.43
VBE2-5	64.31	67.36	3.05	1.37	2.37
	64.31	65.09	0.78	0.91	2.72
	65.09	66.20	1.11	0.67	2.06
	66.20	67.36	1.16	2.35	2.42
VBE2-6	56.57	60.56	3.99	2.26	2.76
	56.57	57.01	0.44	2.08	3.09
	57.01	57.62	0.61	5.14	4.11
	57.62	58.25	0.62	2.95	3.43
	58.25	58.77	0.52	0.55	1.71
	58.77	59.06	0.29	3.16	2.74
	59.06	59.88	0.82	1.43	2.06
	59.88	60.56	0.69	1.12	2.4
VBE2-7	50.75	54.09	3.34	3.78	2.30
	51.15	53.42	2.27	5.10	2.27
	50.75	51.15	0.40	0.27	1.61
	51.15	51.65	0.50	2.84	2.66
	51.65	51.92	0.27	24.37	4.43
	51.92	52.49	0.56	0.63	1.44
	52.49	53.04	0.55	4.20	0.91
	53.04	53.42	0.38	2.15	3.37
	53.42	53.75	0.34	1.74	2.8
	53.75	54.09	0.34	1.00	2.86
VBE2-8	64.04	69.27	5.23	2.73	2.42
	64.04	65.55	1.51	5.12	3.29
	64.04	66.17	2.13	4.12	2.75
	67.48	69.27	1.78	2.86	2.26
	64.04	64.45	0.41	1.76	3.35
	64.45	64.83	0.38	2.41	4.43
	64.83	65.23	0.40	0.81	1.56
	65.23	65.55	0.32	18.02	4.02
	65.55	66.17	0.62	1.70	2.42
	66.17	66.57	0.40	0.11	1.46
	66.57	67.48	0.91	0.39	1.69
	67.48	68.02	0.53	3.86	2.58
	68.02	68.40	0.38	3.34	2.28
	68.40	69.27	0.87	2.04	2.05
VBE2-9	- no significant assays, gold-bearing horizon not intersected				24

VBE-2 Prospect 1997 Drilling



VBE-2 Prospect Structure - Targets



Voisey's Bay Background



Voisey's Bay - Feeder Target

~20 m

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Target - Voisey's Bay Feeder Dyke ~30 m wide - <100 m from ore

- **Optimal Target** <u>troctolite feeder</u> <u>dykes</u> - adjacent/ below troctolitic intrusions - <u>preferably mineralized</u> intrusions & dykes
- ... <u>favourable crustal level for sulphide</u> <u>saturation - contact with Tasiuyak</u> <u>gneiss</u> (S source - digested by mafic magma - scavenge Ni-Cu-Co before segregation-accumulation magmatic sulphides)...explore areas of Tasiuyak gneiss - not middle of NPS intrusions...
- ...expect conductive anomalies associated with feeders will have orientations - resolvable (i.e., not parallel) regional gneissocity
- ...could evaluate large areas by airborne EM (e.g., Ztem) & recon. geological investigation/prospecting...

...at SVB & LUK...re-apply up-to-date deeper-seeking geophysics & drill test for feeders below & adjacent to larger troctolitic bodies...

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Multiple high-grade massive sulphide intercepts associated with shallow conductive anomalies (<200 m deep)





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Previous intercepts located close to deep untested AMT anomaly detected below depth capability of previous geophysical surveys (>>200 m)

(Fjordland Exploration Inc. and Commander Resources Ltd. - 2015 Tech. Report)

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Section A-A' - Drill section looking Northwest (grid blocks are 100 m x 100 m)

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Section B-B' - Drill Section looking Northwest (grid blocks are 100 m x 100 m)

South

North



Sect C-C' - Drill section looking Northwest (grid blocks are 100 m x 100 m)