



# **MOTHER LODE**

## **CHAMBER OF MINES OF EASTERN BRITISH COLUMBIA**

A non-profit bureau of information providing authentic, reliable data to the  
General public and the mining industry of Eastern British Columbia

215 Hall Street, Nelson, B.C. V1L 5X4 Phone: (250) 352-5242

[chamberofmines@netidea.com](mailto:chamberofmines@netidea.com)

## **NEWSLETTER**

Note: The views of contributors to this newsletter do not necessarily reflect the views of the Chamber

***Chamber of Mines of Eastern BC Hours  
Monday, Wednesday and Friday from 10am – 3pm***

We had an excellent Fall Banquet at the Hume Hotel. Thanks to everyone for coming out to support the Chamber and enjoy a great meal.

A special thanks to Greg Nesteroff and to our donation sponsors that are listed on the next page.

Bring your samples into the Chamber and we can look at them in amazing detail with our new DinoLite Digital Microscope.



Placer Gold from Pend O'Reille

# 2021 Fall Banquet Sponsors



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We really appreciate all the support from our sponsors and donors!

Thank you!

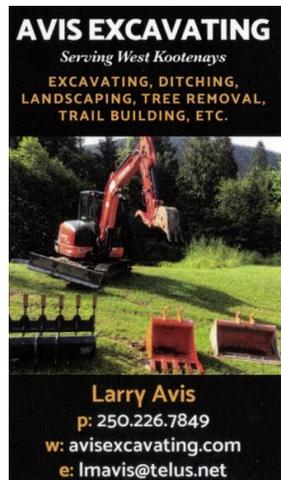


November 18<sup>th</sup>, 2021

## First Phase of Required Embankment Rehabilitation Completed

Klondike Silver is pleased to report completion of the first phase of required rehabilitation of tailings pond embankment adjacent to Carpenter Creek, Silvana Silver Mine, Sandon British Columbia Canada. Additional phases will be completed in 2022 to satisfy B.C. Ministry of Energy, Mines and Low Carbon Innovation requirements.

<https://klondikesilver.com/>



November 2<sup>nd</sup>, 2021

## **West Mining Completes Initial Mapping And Sampling Program On Athabasca Property, BC**

West Mining Corp. is pleased to announce that the initial mapping, sampling and prospecting program has now been completed on the company's 100% owned Athabasca Property, part of West's larger Kena Project. The 9000 hectare combined Kena Project, consists of the Kena, Daylight and Athabasca Properties in southeastern British Columbia, which trend along a 20 kilometre long favourable mineralized belt.

The Athabasca Property, highlighted by the historic Athabasca Mine represents a northern extension of the Kena Property. The current program includes 57 rock grab and chip samples collected along a 3.2 kilometre mineralized trend, from the Athabasca Mine in the west to the Princess Zone in the southeast.

The historic Athabasca Mine (BC Minfile 082FSW168), operating intermittently between 1899 and 1943, graded 30 g/t gold and 10 g/t silver with minor copper, lead and zinc values from 20,219 tonnes milled. The Athabasca vein was drifted on from four underground levels, accessed from 3 portals, with the two upper adits following ore hosted within a permissive contact zone between granodiorite of the Jurassic Nelson intrusives and volcanic rocks of the upper Elise formation.

On surface, adjacent to the main Athabasca workings, quartz veins in outcrop are exposed in several locations, both along strike of the main vein and as related extensional-tension veins. To the southeast are numerous semi-parallel quartz veins within the limited workings of the historic Good Enough showing. The Good Enough has two pits and a single short adit hosting prospective mineralized quartz veining within a small development. No historic reports are available but mapping indicates that a quantity of mineralized material has been removed.

The historic California Mine workings, although not on West's claims, lie to the east along a parallel strike to the Athabasca and Good Enough vein structures. The California is another past producer in this area, mined from four separate levels, hosting an economic shear vein system also along the contact between the Nelson intrusives and the Elise volcanics. Historic production reports 1454 tonnes mined grading 48.3 g/t gold and 84.3 g/t silver (BC Minfile 082FSW169). Several zones, both along strike and semi-parallel to the California mineralization trend onto West's ground and were investigated. This work included sampling of the lesser-known Union and the No. 2 Creek vein showings. The two Union adits, having a surprising abundance of massive sulphide mineralization, were driven along a shallow vein parallel to the California structure.

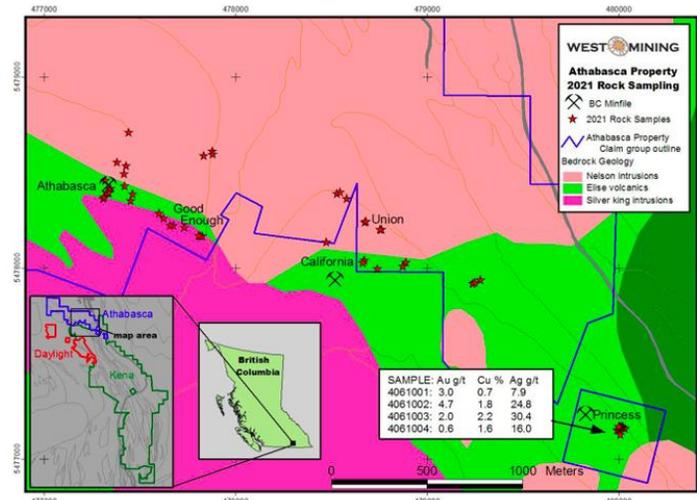
Near the southeast end of the Athabasca Property, the Princess workings consist of two 2-parallel 25 metre adits on the same level. Earlier in the field season, rock samples were collected from the north adit and from mineralized rock in waste dump piles. Massive pyrite, chalcopyrite, magnetite, pyrrhotite

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and malachite is visible within strongly silicified Elise volcanic rocks. Three rock grab samples of the waste dump mineralization returned assays of 3.00 g/t Au and 1.8% Cu, 4.76 g/t Au and 2.1% Cu and 1.97 g/t Au and 1.6% Cu, respectively (see News Release dated September 10, 2021).

Results are pending for the remainder of the Athabasca Property rock sampling program and will be released upon receipt.



The Athabasca Property represents an important northern extension to the Kena and Daylight Properties' mineralizing system. A recent gold resource estimate on the Kena Property (Bird, 2021; NI 43-101 Technical Report on the Kena and Daylight Properties) shows an indicated 561,000 ounces gold and an inferred 2.77 million ounces gold at a 0.25 g/t cutoff within an open ended portion of this robust system (see News Release dated May 11, 2021).

"The success of this sampling program at the Athabasca property is a further endorsement of the robust mineralogy the entire Kena Project continues to exhibit. As the results of the excellent work our geological crew achieved during the field season are delivered, we will be sure to keep our investors informed of the continuously expanding potential offered by the Company's 100% owned properties" noted Nicholas Houghton President and CEO of West.

Linda Dandy, P.Geo., a "Qualified Person" for the purpose of National Instrument 43-101, has reviewed and approved the contents of this news release.

<https://www.westminingcorp.ca/>

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November 19<sup>th</sup>, 2021

## Rokmaster Reports on Revel Ridge Metallurgical Gold Flowsheet Development in Conjunction with EnviroMetal Technologies Inc.

Rokmaster Resources Corp. is pleased to announce test results of the current work program on the gold dominant mineralization from the Revel Ridge Property located in southeastern British Columbia.

The Company's recent test program was part of the ongoing assessment of metal recovery technologies to refine and optimize the metallurgical responses of the Revel Ridge Main Zone ("RRMZ") mineralization.

The program also demonstrated positive recoveries using EnviroMetal Technologies Inc. ("EnviroMetal") environmentally friendly and sustainable formula as a viable alternative to cyanide treatment.

**RRMZ Metallurgy:** Previous bulk samples were shipped to Base Metallurgical Labs in Kamloops, B.C., and composited using the same procedures and recipe as formerly used to remake the JL1 composite test sample. The head assay comparison is shown in Figure 1 and aligns well.

Figure 1: JL1 Composite Head Assays

Products	Element					
	Pb (%)	Zn (%)	Au g/t	Ag (g/t)	S (%)	As (%)
JL1 Composite - 2021	2.49	4.01	7.66	59.80	11.00	5.25
JL1 Composite - 2011	2.45	3.90	6.99	57.60	11.40	5.90



The 2021 JL1 Composite was used to successfully test the new flowsheet without using any dense media separation or preconcentration, and the insertion of continuous gravity concentration prior to lead, zinc and sulphide sequential flotation. Gravity concentrate and sulphide concentrate were then combined to create the pressure oxidation (“POX”) feed.

Figure 2 illustrates the averaged results from tests undertaken. The continuous gravity test recovered approximately 26.3% of the gold and the flotation concentrate with another 54.4% for a combined gold recovery to the Pressurized Oxidation (POX) feed of 80.7%, in a much-reduced mass pull of approximately 29%. Overall gold recovery from the concentrates, including to the lead and zinc concentrates, was more than 91%.

Figure 2: Gold Recovery Results

Product	Mass Pull (%)	Au (g/t)	Ag (g/t)	Au (%)	Ag (%)
Gravity Concentrate	6.3	36.4	126.5	26.3	11.2
Gold Sulphide Concentrate	23.0	21.2	23.6	54.4	7.7
Gravity + Sulphide (POX Feed)	29.3	24.5	88.7	80.7	18.9

The POX test work continues and as part of Rokmaster’s commitment to sustainability, several recovery tests on the oxidized concentrates were performed using EnviroMetal’s environmentally friendly and sustainable formula. Even with minimal optimisation, their technology successfully recovered 93% the gold.

John Mirko, President and CEO of Rokmaster stated: “In this ever-changing period where mining companies should be addressing environmental sustainability, Rokmaster is proud to have included an evaluation of EnviroMetal’s sustainable reagent capabilities as part of our program. Given the encouraging initial results, we will continue to test it’s capabilities of high gold recoveries on our material.”

The technical information in this news release has been prepared in accordance with Canadian regulatory requirements has been reviewed and approved by Mr. Stacy Freudigmann, P.Eng. F.AusIMM., who is a Qualified Person as set out in National Instrument 43-101 and is independent of Rokmaster.

[www.rokmaster.com](http://www.rokmaster.com)



## Digging Deep: Exploring Southeastern British Columbia

By: *Christa Pellett, Vice President, Minerals*

Geoscience BC's Christa Pellett summarizes public minerals earth science research in British Columbia's Southeast Region.

British Columbia's Southeast Region has a long and successful history of mineral exploration and mining. For example, the former Sullivan Mine sustained the economy of Kimberley and the East Kootenays for almost 100 years until 2001. Several Geoscience BC minerals programs and projects have expanded geoscience knowledge in this important area, and this edition of Digging Deep looks back at some past research and highlights ongoing and upcoming research in the region.

### East Kootenays and the Belt-Purcell Basin

Some of Geoscience BC's earliest projects in southeastern BC focused on the Purcell Supergroup, which hosts the Sullivan Mine. In 2007 a project led by Russell Hartlaub (BCIT) examined the [stratabound copper potential in the Purcell Supergroup around Cranbrook](#), which is across the border from Montana's Troy, Rock Creek and Montanore deposits.



*Investigating the Kimberley Gold Trend as part of Geoscience BC's SEEK project. Photo courtesy of M. Seabrook.*

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Following the completion of the project, continued demand for new geoscience in the area resulted in the creation of the [Stimulating Exploration in the East Kootenays \(SEEK\) program](#). This was comprised of a series of small research projects designed to bring local geoscience and exploration knowledge into the public geoscience data set. From considering the structural controls on the Kimberley Gold trend, to the relevance of mud volcanoes in the formation of the Purcell Basin and a database of East Kootenay ground gravity data, SEEK added new information to our understanding of this geologically important part of BC. More recently, the [Merging Geological, Seismic Reflection and Magnetotelluric Data in the Purcell Anticlinorium](#) project produced images of structural and stratigraphic variations in the Purcell Anticlinorium.

Geoscience BC has helped to protect and store valuable drill core samples for future research by supporting the [East Kootenay Chamber of Mines' Fort Steele Drill Core Library](#) through both the SEEK program and [separate project funding](#).



*Geoscience BC provided funding for the Fort Steele Drill Core Library to salvage core from the Sullivan Mine, as well as from Aldridge Formation projects including Vulcan, Vine and Roar.*

### **Kootenay Arc**

The Kootenay Arc is a geologic domain west of the Purcell Basin that has been studied by Dr. Dave

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Pattison (University of Calgary) and students. [Early research](#) focused on the metamorphism, structure, and overall exothermal evolution of this region, while more recently the focus has been on the interface between the [Purcell Anticlinorium and the Kootenay Arc](#).



*Investigating the metamorphism and structure of the southern Kootenay Arc and Purcell Anticlinorium in 2012.  
Photo by D. Pattison.*

An advertisement for High Terrain Helicopters. The text includes: "HIGH TERRAIN", "Operating Bell 205 A+++, AS350 B2 (3) and Bell 206 (2)", "We supply our own fuel tankers", "Experienced crews and competitive rates", "Charters and contract services", "24 Hrs: 250-354-8445", and "www.highterrainhelicopters.com". There is a small inset photo of a helicopter on a landing pad with the date "November 2010".

### Ongoing Research

Geoscience BC continues to support new geoscience in the Southeast Region. Since 2008 Geoscience

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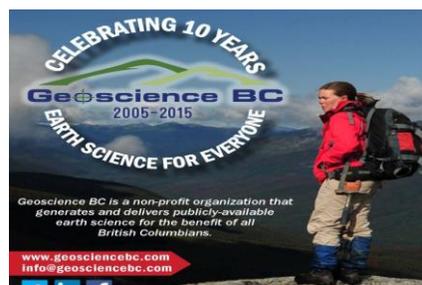
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BC have supported Trygve Höy's mapping in the east half of [the Pentiction map sheet \(NTS 082E\)](#). This series of projects is due to complete shortly, with an updated map released through Geoscience BC and the revised geology being incorporated into the British Columbia Geological Survey's MapPlace 2. Geoscience BC is also supporting research into the [potential to extract rare earth elements from coal deposits in the East Kootenays](#).

To guide future research, Geoscience BC plans to begin a new project in 2022. This will review existing geoscience research for the Southeast Region and identify information gaps. This will help ensure a strong future for public minerals research in the region that can be used to inform decisions, encourage mineral exploration and attract new investment.



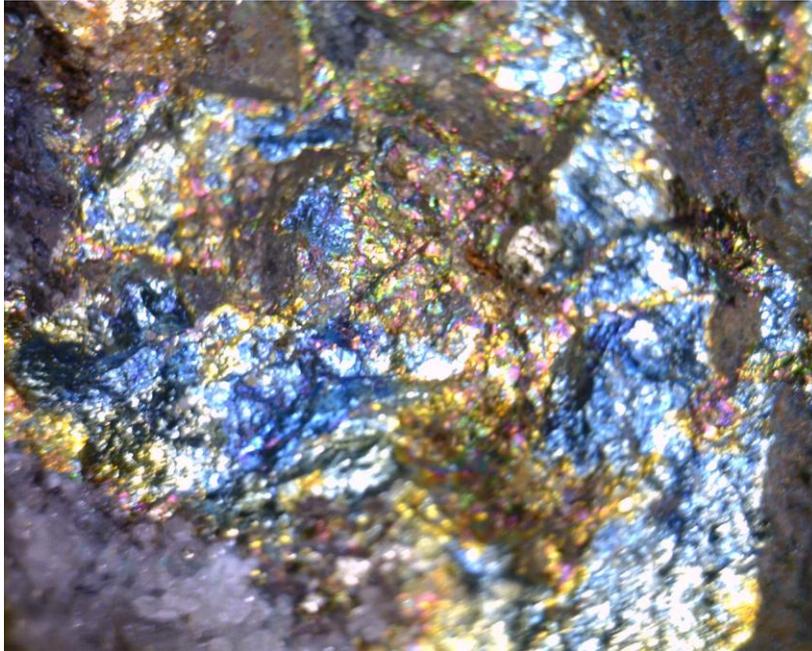
*Current Geoscience BC research at the University of British Columbia is considering whether East Kootenay coal deposits can be a source of rare earth elements. Photo by Dawn Stenzel*



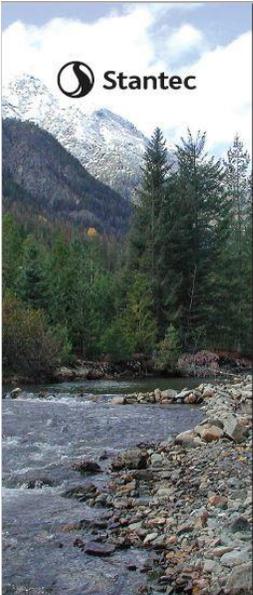
## Chamber Report By Brad Gretchev:

It has been another busy month at the Chamber with our Fall Banquet, visitors coming through and hosting the Grade 4/5 South Nelson Elementary School class.

With the winter looming it is a great time to come in to research and study our mineral specimens so you can be ready for next season.



Peacock Ore, Bornite from the Silver King Mine



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THANKS FOR YOUR SUPPORT ----- Chamber of Mines of Eastern BC

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