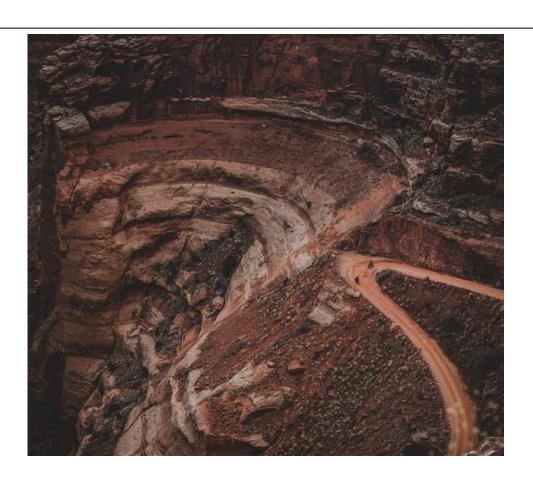
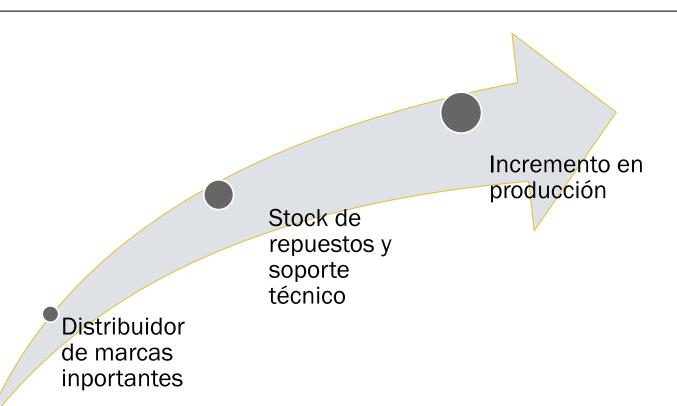
Bienvenidos



Estamos aquí para Servirles!



Nuestra Propuesta





¿Cómo lo lograremos?

Nuestra Gente

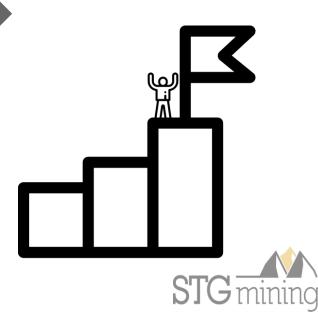
Conocimiento dentro de la Industria Minera

Nuestro Compromiso

Dar al cliente una Respuesta Oportuna

Nuestra Meta

Obtener la Satisfacción del Cliente



Somos una red de oficinas

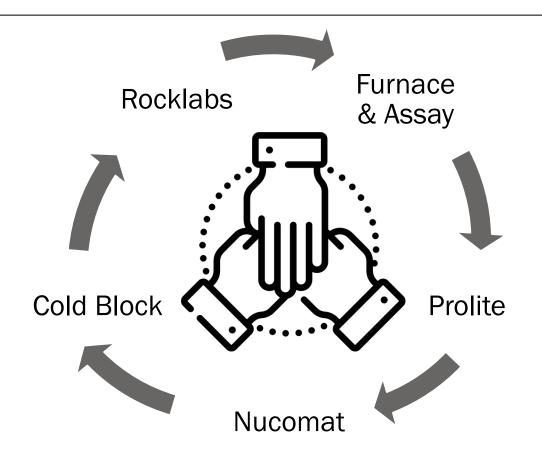


Estamos Cerca de Ustedes!

- Canadá (Norte de Vancouver)
- México (Durango)
- Perú (Lima)
- Chile (Santiago)
- Bolivia (La Paz)
- Brasil (Belo Horizonte)



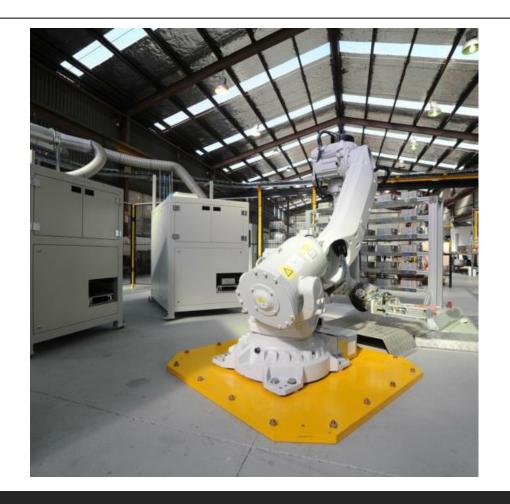
Nuestros Principales Colaboradores





Rocklabs







Trituradora Rocklabs Mid BOYD



- ° Mayor tamaño de entrada.
- ° Bajo mantenimiento.
- ° Mayor garantía.
- ° Mejoras en salud y seguridad.



Molino por Lotes ABM3000 de Rocklabs

- ° Panel de pantalla táctil LCD.
- ° Control PLC.
- ° Lavado de arena automático.
- ° Purga completa con aire comprimido.





Trituradora Líneal de Rocklabs



- ° Versatilidad de muestra.
- ° Seguridad.
- ° Mejor tiempo de proceso.



Furnace & Assay







Prolite Systems Inc.









Nucomat





your partner in lab automation!



Sistema automatizado de análisis bioquímico de Nucomat.

- ° Soluciones de automatización de laboratorio para la preparación de muestras.
- ° Seguridad.
- ° Eficiencia de laboratorio.





Cold Block Technologies







CDN Resource Laboratories



CDN Resource Laboratories Ltd.

 $\#2,20148-102^{nd}$ Ave, Langley, B.C., Canada, V1M 4B4, 604-882-8422, Fax: 604-882-8466 (www.cdnlabs.com)

REFERENCE MATERIAL: CDN-ME-9

Recommended values and the "Between Lab" Two Standard Deviations

```
      Gold
      0.154 g/t
      ±
      0.042 g/t
      (Au: provisional value only, RSD = 13.9%)

      Platinum
      0.664 g/t
      ±
      0.058 g/t

      Palladium
      1.286 g/t
      ±
      0.102 g/t

      Copper
      0.654 %
      ±
      0.036%

      Cobalt
      0.017 %
      ±
      0.002%

      Nickel
      0.912%
      ±
      0.062%
```





Muchas Gracias.

Estamos a la orden.







stgmining.com



info@stgmining.com





















Diagnóstico

Optimización





Mantenimiento

Asesoría



Contacto:



• Dra. Ana Maria Bailón Salas

a.bailon@stgmining.com

https://www.stgmining.com/services



STG MINING PRESENTATION – DURANGO, MEXICO

Kirill Pereverzev, CTO

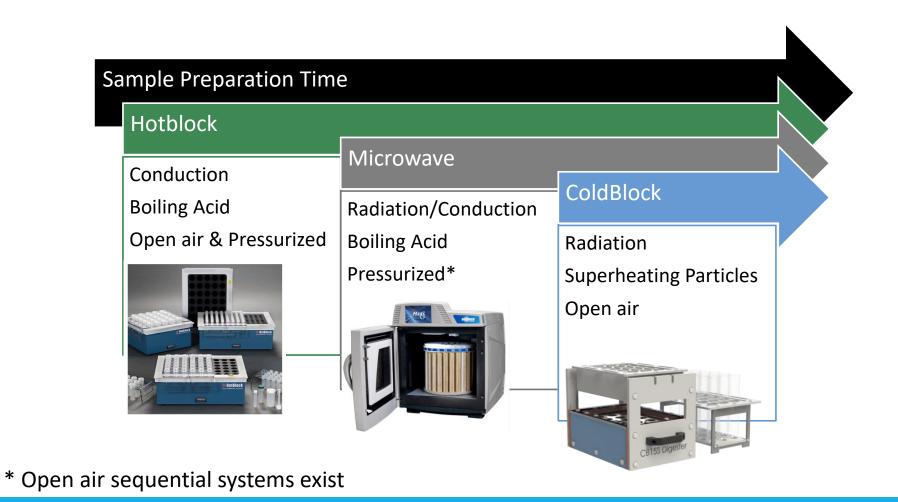
kap@coldblock.ca





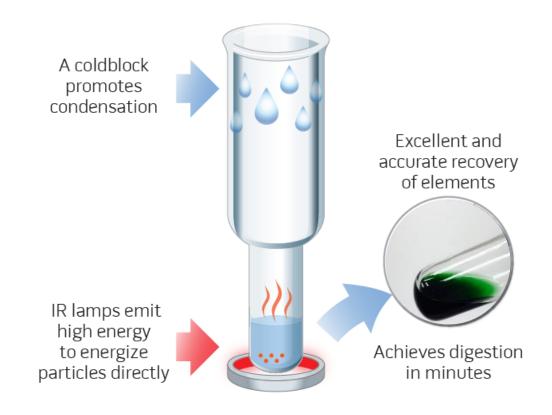
ColdBlock™ Digestion dissolves solid matter into solution for multi-element analysis, applicable to multiple industries such as - mining, environmental.





What Is ColdBlock Digestion?

ColdBlock is the first and only sample digestion technology using short wave infrared radiation and a cooling zon to dissolve solid sample matter in solution for multi element analysis.



Why is ColdBlock Better?





Evidence Package for Mining/Environmental Applications



2014 Environmental **Publications** 2015 Gold & Silver 2016 Rare Earths **Applications Soils** 2016 Base Metals and Sludges – Wang, Y. et al. - Wang, Y. et al. – Helmeczi, E. et al. – Wang, Y. et al. 2014 Small Sample 2018 Large Sample 2016 Rare Earths 2016 Uranium **Gold Application** Gold – Helmeczi, E. – Pereverzev, K. – Wang, Y. et al. – Helmeczi, W. et el. Presentations 2016/2017 Large 2019 P1+2 AMIRA 2019 Environmental 2019 P1 AMIRA Sample Size Gold P1196 P1196 **Applications** – Dr. Leybourne, M. – Dr. Leybourne, M. Pelchat, P. – Pereverzev, K.







CB12L

12 channel system
24 channel workstation
Up to 30 g

CB15S

15 channel system
30 channel workstation
Up to 5 g















Outcomes Ave. Precision Ave. Accuracy Ave. Costs 46%↓ 103% 99%

ColdBlock – Technology Advancements



PLASTIC TUBE LINERS







ColdBlock Products - Automation





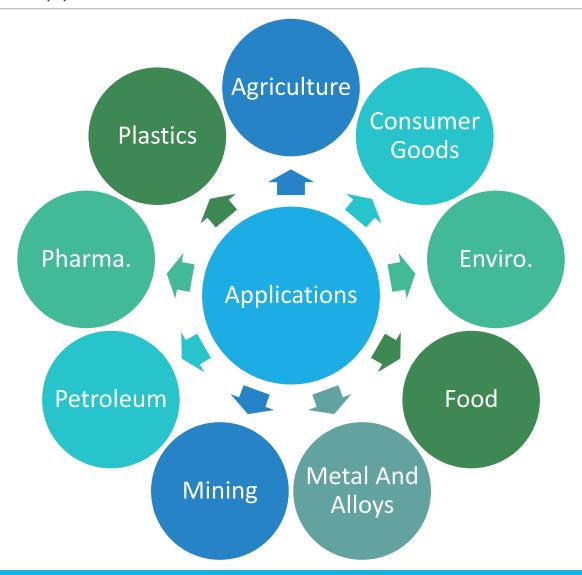
Mining Customer Feedback



- Continue to experience a ~50% cost/sample reduction
- Elimination of lead exposure
- Assay turnaround time has reduced meaningfully
- Improved ergonomics for lab employees
- Excellent accuracy from ColdBlock digestion in line with results from global lab checking results

Evidence Package & Application Notes





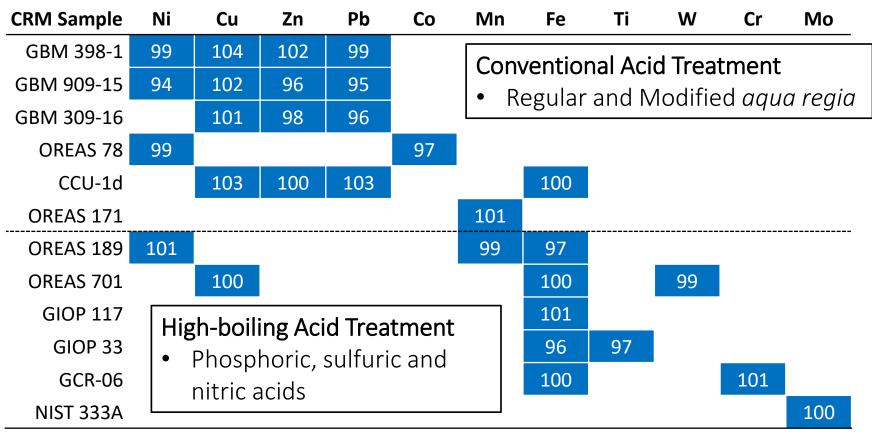


Kirill Pereverzev, CTO

kap@coldblock.ca

www.coldblock.ca





Suppliers of CRMs: GBM, GCR & GIOP - Geostats; OREAS - Ore Reasearch & Exploration; CCU - CANMET; NIST - NIST

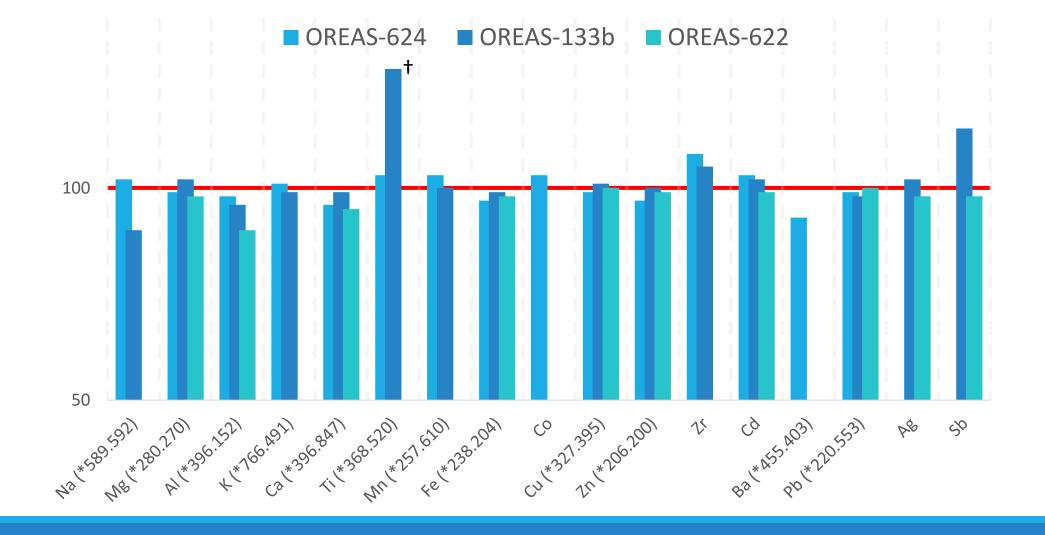


OREAS 622, OREAS 624, OREAS 603 ColdBlock Recoveries

	OREAS 622, OREAS 624, OREAS 603 from ORE		Or
	Research & Exploration		О.
•	0.25 g sample sizes	Na	
•	$8 \text{ mL H}_2\text{SO}_4 + 5.5 \text{ mL H}_3\text{PO}_4 \text{ Acids}$	Mg	
•	85% power for 20 minutes	0	
•	-5° Celsius Chiller temperature	Al	
•	Samples were topped up to 50mL using 1% HNO ₃	Ca	
	111103	Ti	1

	Oreas 622	Oreas 624	Oreas 603
Na	99	102	99
Mg	102	102	103
Al	96	90	93
Ca	99	96	97
Ti	128**	127**	104
Mn	100	103	
Fe	99	98	101
Cu	101	99	105
Zn	100	97	101

^{**} Recovery of Titanium is high when compared to 4-acid digestion, however when compared to OREAS' peroxide fusion method Ti recovery is 100%.



ColdBlock % Recoveries Of Elements From OREAS-624, -133b, -622

*OES Wavelengths - Co, Zr & Cd analyzed by ICP-MS

[†] Titanium value is 0.147% via 4-acid and 0.187% via Borate Fusion, respective recoveries are 128% and 100% vs ColdBlock method



OREAS-184 & 187 Nickel Laterite Ores

