

EDMONTON, ALBERTA--(Marketwired - Jul 26, 2016) - [Iberian Minerals Ltd.](#) (the "Company" or "Iberian") (TSX VENTURE:IML) (OTCQB:SLDRF) announced today that it, has filed a patent with the United States Patent and Trademark Office (USPTO) for its HM X-leach, a proprietary, environmentally-friendly, non-cyanide based leach formula for the extraction of precious metals from ores, concentrates, tailings and electronic waste (e-Waste). A new 100% owned subsidiary, HMX Solutions Ltd. has been created to pursue commercial opportunities for this product.

For the previous 12 months, our technical team has been developing and testing the unique HM X-leach formula on a number of different ores, concentrates and tailings. Recently, Iberian engaged the services of Met-Solve Laboratories, a well-respected and independent mineral and hydrometallurgical testing laboratory, based in Langley, British Columbia, to oversee the development and testing of the formula.

The sustainability of the gold industry is being challenged by reduced grades, more complex ores and increasingly stringent environmental conditions. Within industry both the use and disposal of cyanide present significant safety and environmental challenges. Mineworx is helping the industry reduce the risks and environmental impact of current processing operations and developing alternative processes that use less-toxic alternatives to cyanide.

The primary challenge in devising a suitable substitute for cyanide in gold processing, lies in developing an equally effective and degradable leach reagent, which is not a persistent environmental toxin. As gold cyanidation rates are relatively slow, the industry has been searching for faster gold leaching reactions capable of facilitating high metal recovery rates. Alternative lixiviants or leaching agents should also be inexpensive and recyclable, selective, non-toxic and compatible with downstream recovery processes.

There is an increasing interest in finding new alternatives or improving previously tried processes. Numerous other chemicals have been tested to leach gold, and they include thiosulfate, thiocyanate, ammonia, bromine, chlorine, bisulfides, and thiourea but no one has come up with a more cost effective and productive method than leaching with cyanide until now. The following table (Fig 1.0) compares the applicability spectrum, costs, consumptions and sensitivities of the HM X-leach formula and some of the more prominent alternatives to cyanide.

	HM X-leach	Cyanide	Thiourea	Thiosulfate	Thiocyanate	Bisulfide	Ammonia	Chlorine
Applicability	Broad	Broad	Limited	Broad	Limited	Limited	Limited	Limited
pH Sensitivity	Low	High	High	High	Low	High	High	High
Leach Kinetics	Fast	Medium	Fast	Fast	Medium	Slow	Fast	Fast
Toxicity	Low	High	High	Low	High	High	High	High
Hazard Classes (WGK)	1	3	2	1	1	2	2	2
Recyclability	High	Medium	Low	Medium	Medium	Medium	High	Medium
Detox Costs	Low	High	High	Medium	High	High	High	Medium
Off Gas Controls	No	Yes	Yes	Yes	No	Yes	Yes	Yes
High Temperature	No	No	No	No	Yes	Yes	Yes	No
\$ Price to Cyanide	Higher	N/A	Higher	Higher	Higher	Lower	Higher	Similar
Capital Costs	Low	Low	High	Medium	High	Medium	High	High

Figure 1. Comparative applicability, sensitivity, solubility, consumption and cost analysis.

Gold and other precious metals are readily recovered from the HM X-leach solution through a number of well-known and proven extraction methods including; electrowinning, carbon adsorption and precipitation.

The HM X-leach has been developed to be a non-toxic, economical and effective alternative to cyanide leaching. Independent testing has proven that the HM X-leach non-cyanide based formulas and processes when compared to Cyanide formulas typically show recoveries comparable to or better than cyanide.

Duane Nelson, President of Mineworx, states; "We are very excited with the results of the HM X-leach formula. It has been proven by independent analysis to be non-toxic and faster than typical cyanide solutions on a number of different ores, concentrates and tailings. The HM X-leach is safer to use, offers faster dissolution rates and offers much broader operational parameters. Offering a cost effective alternative to cyanide world-wide with the non-toxic HM X-leach formula will help to reduce the risks and environmental impact of mineral processing and may open up opportunities in areas where the use of cyanide is banned including several European countries, South American countries and some American states. We will continue testing the formula on a broad selection of ores, concentrates and tailings and report the results over the next few months."

Ish Grewal, B.A.Sc., M.A.Sc., P.Eng., President of Met-Solve Laboratories, states; "I have had the opportunity to test, review and analyze numerous lixiviants for gold which are available for the mining industry. Having spent extensive time studying the results of the HM X-leach, we are very impressed with this system. We are delighted to be working with the Iberian/Mineworx team to advance this exciting non-toxic technology."

Ish Grewal has over 20 years in the metallurgical and mineral processing industry, which included 4 years conducting

hydrometallurgical research at the University of British Columbia, in areas such as gold-cyanide and base metal leaching systems.

For further information on the Cyanide Industry [CLICK HERE](#):

About Mineworx

Mineworx is an innovative heavy mineral development and processing company focused on increasing value within the mining sector with its patent pending, environmentally friendly, portable, heavy mineral extraction technologies:

- HM X-tract
- HM X-mill
- HM X-leach

Mineworx's unique business model is to seek out advanced stage mineral deposits on which to employ its portable processing technologies and partner with the existing owners/operators by advancing these deposits in an accelerated manner attaining profitable production in a timely, cost effective and environmentally friendly manner. The unique, integrated and portable processes and technologies lower economic risk and reduce environmental impact.

About Iberian Minerals

Iberian Minerals is a Canadian junior mining company positioned for growth through the partnership of advanced cash flow mining opportunities utilizing the Mineworx environmentally friendly toll processing technologies. In addition the Company is undertaking strategic alliances with its Spanish minerals assets. For further information, go to www.iberianminerals.ca

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