

# MGX Minerals Increases Ownership in Cleantech Engineering Partner PurLucid Treatment Solutions

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## Low Cost Nanofiltration Lithium Extraction System Nearing Deployment

VANCOUVER, Jan. 04, 2018 - MGX Minerals Inc. (&ldquo;MGX&rdquo; or the &ldquo;Company&rdquo;) (CSE:XMG) (OTCQB:MGXMF) (FKT:1MG) is pleased to report the Company has increased its ownership in engineering partner PurLucid Treatment Solutions (&ldquo;PurLucid&rdquo;) from 34% to 46% by investment of C\$1.45M. The Company maintains the right to acquire 100% of PurLucid through successive future investments.

### Investment Recap

Since announcing an acquisition and engineering partnership agreement in September 2016, MGX and PurLucid have invented new technology and filed patent application related to brine treatment and selective lithium recovery. PurLucid&rsquo;s exclusively licensed nanoflotation technology, which purifies wastewater brine, has since been integrated with a newly developed lithium recovery process. Combined, this Cleantech process reduces the capital cost of recovery compared with traditional solar evaporation, as it does not require the investment in very large, multi-phase, lake sized, lined evaporation ponds, greatly reducing the physical footprint and enhancing the quality of extraction and recovery across a complex range of brines previously considered unprocessable due to complexity or geographical location outside of solar evaporation appropriate zones. This includes oil and gas wastewater, natural brine, and other brine sources such as lithium-rich mine and industrial plant wastewater.

### Nanoflotation and Nanofiltration Technology

PurLucid and MGX system utilizes a highly charged Replaceable Skin Layer (RSL&trade;) membrane related to the nanofiltration and High Intensity Froth Flotation (HiFF) system, known as nanoflotation, which collectively have demonstrated performance superiority over other processes typically used to remove contaminants. The technology allows ultra-high temperature water treatment (up to 700°C) at 10-30 times the efficiency of existing ultrafiltration systems and offers numerous environmental benefits, including contaminant removal, mineral recovery, reduced energy demand, smaller footprints and lower capital costs. The technology was a 2017 finalist for the Most Disruptive Technology in the World award by Katerva (see press release dated February 21, 2017).

### Petrolithium Technology

MGX and PurLucid are implementing the lithium recovery process, commissioning of the first 750 barrel per day system is underway, extending the success achieved with the Petrolithium pilot recovery system deployed in August 2017 (see press release dated August 1, 2017). Although combined system development and deployment are cornerstone to the engineering partnership, MGX holds the global rights to the jointly developed lithium extraction technology while PurLucid retains the rights to the pre-treatment water purification and core technology.

### Government Grants

PurLucid was recently awarded a non-repayable contribution totaling up to C\$8.2 million in government funding to support the commercialization of a low energy water treatment system for the oil and gas industry (see press release dated November 6, 2017). PurLucid will fabricate and deploy a commercial-scale unit within an operating steam-assisted gravity drainage (SAGD) facility in Alberta. The contracted operation will generate up to C\$2.0 million a year based on a per cubic meter environmental processing fee that is approximately 50% lower cost than current disposal costs (deep salt cavern). This project will serve as a template for additional contracts currently under negotiation with other oil and gas producers.

### Lithium Extraction System Nearing Deployment

Full commissioning of the commercial-scale NFLi5 lithium recovery system, capable of processing 750 barrels (120 cubic meters) of brine per day, is nearing completion. Deployment of this unit is expected to take

place within the next 60 days.

Photos accompanying this announcement are available at

<http://www.globenewswire.com/NewsRoom/AttachmentNg/0010e128-cd3f-434f-a69f-1142298bba93>

<http://www.globenewswire.com/NewsRoom/AttachmentNg/3db94ae8-0b17-40b6-b5d5-91b1a15aaf41>

<http://www.globenewswire.com/NewsRoom/AttachmentNg/19ec3cd9-ecbe-45e9-89ff-8e73ed4d963e>

#### About PurLucid

PurLucid's exclusively licensed and patented nanoflotation technology was designed specifically for oilfield environments. The technology separates impurities from oil and gas wastewater and produces clean water as a final product. This allows for the recycling or controlled release of oilfield wastewater and reduces or eliminates downhole and associated transportation costs. Water handling costs are one of the largest operating costs in the oilfield and oilsands operations today. Learn more at [www.purlucid.com](http://www.purlucid.com).

#### About MGX Minerals

MGX Minerals is a diversified Canadian resource company with interests in advanced material and energy assets throughout North America. Learn more at [www.mgxminerals.com](http://www.mgxminerals.com).

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