

16 July 2019

**ASX ANNOUNCEMENT**

**ASX: ASN**

## **Anson Commences Bromine Recovery Test Work**

### **Highlights:**

- **De Dietrich Process Systems appointed to perform bromine extraction and recovery test work**
- **OPEX and CAPEX for commercial bromine extraction plant to be estimated for future feasibility studies**
- **Targeting additional products is expected to improve Li plant economics by spreading common costs**
- **Iodine and boric acid extraction and recovery test work expected to follow**

Following the successful production of battery quality lithium carbonate from brine sourced from Anson Resources Limited's (Anson) Paradox Brine Project near Utah, USA (the Project) (see *the announcement dated 3 June 2019*), Anson has commenced detailed test work on the extraction and recovery of additional chemical products from brine sourced from the Project.

Initial test work previously recovered 70% of the bromine, 89% of the iodine and 89% of the boron from Project brine (see *the announcements dated 21 February 2019 and 20 March 2019*).

Anson is now assessing producing further chemical products from Paradox Brine in order to extract maximum economics from the Project's mineral rich brine by spreading common costs such as extraction, infrastructure and waste disposal across multiple products. The unique composition of Anson's supersaturated brine provides an opportunity to reduce operating costs unlike other brines which do not have other high concentration of minerals other than lithium.

The next stage of test work is focused on the extraction and recovery of bromine, which Anson has appointed De Dietrich Process Systems to perform. The work includes the estimation of the operating and capital costs for commercial plant which is intended to be incorporated into future feasibility studies.

The conventional bromine extraction process has five parts, and is expected to be applied to brine sourced from the Project:

- 1) Oxidation of the brine using chlorine gas to convert dissolved bromide ions into dissolved bromine liquid;
- 2) Heating of the brine to its boiling point to accelerate the evaporation of the bromine, taking it from being part of the brine to being in the gas phase which can be separated easily;
- 3) Condensation of the bromine in gas phase to bromine in liquid phase;
- 4) Scrubbing of the bromine to remove trace chlorine gas; and
- 5) Scrubbing of the bromine to remove trace water.

The brine feeding the bromine extraction unit will be raw Paradox Basin brine with no special pre-treatment.

A schematic of the bromine recovery and extraction process is shown in Figure 1.

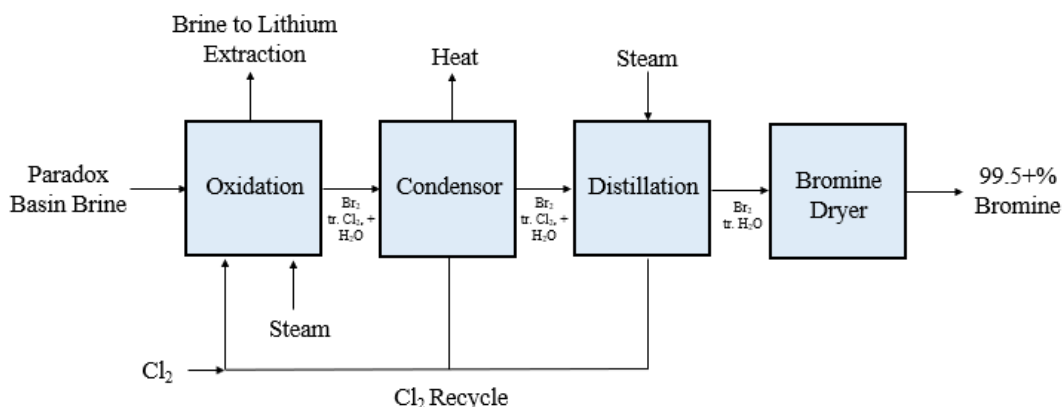


Figure 1: Simplified Bromine Extraction and Recovery Flow Sheet

### Conceptual Flow Sheet:

The conceptual flow sheet for the Paradox Brine Project's commercial plant follows:

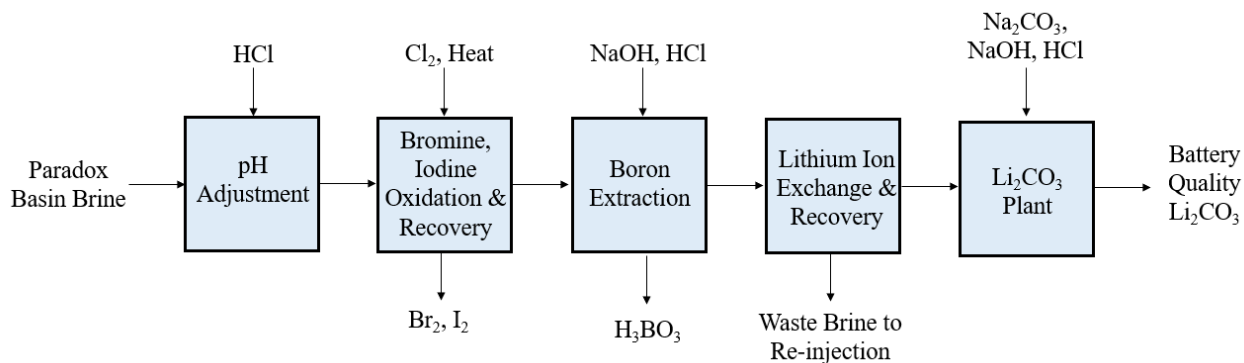


Figure 2: Simplified Commercial Plant Conceptual Flow Sheet

### About De Dietrich Process Systems:

De Dietrich Process Systems is the leading global provider of process equipment, engineered systems and process solutions for the fine chemical, chemical and pharmaceutical industry, including for the processing of bromine chemicals.

ENDS

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**Forward Looking Statements:** Statements regarding plans with respect to Anson’s mineral projects are forward looking statements. There can be no assurance that Anson’s plans for development of its projects will proceed as expected and there can be no assurance that Anson will be able to confirm the presence of mineral deposits, that mineralisation may prove to be economic or that a project will be developed.

**Competent Person’s Statement:** The information in this Announcement that relates to exploration results and geology is based on information compiled and/or reviewed by Mr Greg Knox, a member in good standing of the Australasian Institute of Mining and Metallurgy. Mr Knox is a geologist who has sufficient experience which is relevant to the style of mineralisation under consideration and to the activity being undertaken to qualify as a “Competent Person”, as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves and consents to the inclusion in this report of the matters based on information in the form and context in which they appear. Mr Knox has reviewed and validated the metallurgical data and consents to the inclusion in this Announcement of this information in the form and context in which it appears. Mr Knox is a director of Anson and a consultant to Anson.

**Chemical Engineer’s Statement:** The information in this Announcement that relates to metallurgical data, chemistry and processing is based on information compiled and/or reviewed by Mr. Alexander Grant. Mr. Grant is a chemical engineer with a MS degree in Chemical Engineering from Northwestern University. Mr. Grant has sufficient experience which is relevant to brine chemistry and processing and processing. Mr Grant is a director of Anson and a consultant to Anson.

**About the Paradox Brine Project**

Anson is targeting lithium rich brines in the deepest part of the Paradox Basin in close proximity to Moab, Utah. The location of Anson’s claims within the Paradox Basin is shown below:

