

Date: December 22, 2017

Kierney Leach
Regulatory Officer
Mackenzie Valley Land and Water Board
PO Box 2130
Yellowknife, Northwest Territories
X1A 2P6

Dear Ms. Leach

Re: MV2011L2-0004 Notification Under Part J - Snap Lake Water Treatment Plant Upgrade

De Beers Canada, Snap Lake Mine is providing notification, as per Part J of Water License MV2011L2-0004, that in February 2018 it will begin early modification work to its Main Water Treatment Plant to prepare for the installation of a new water treatment train prior to freshet 2018.

As per the technical memorandum submitted to the Government of the Northwest Territories Department of Lands Snap Lake Mine Inspector dated September 1 2017 titled: *Technical Memorandum: De Beers Canada Snap Lake Mine Water Management Strategy*, this work is in support of Step 4; a water treatment solution to treat underground and/or surface water.

De Beers is currently having a new treatment solution constructed which is anticipated to arrive at Site and be installed by April 2018. The early preparation work in February will remove redundant infrastructure within the existing footprint and adjacent to the current main water treatment plant, and enable the commencement of piping and electrical work to ensure timely implementation of the treatment plant prior to the on-set of freshet.

De Beers is pleased to provide two drawings as attachments that highlight the proposed location for the new treatment train. De Beers and the consulting engineering firm assessed several locations at Snap Lake Mine. The following were identified factors that led to the decision on where to locate the new treatment train:

- It allows for the facility to use all the existing infrastructure (chemical units, pipe and cable racks within the Main Treatment Plant);
- Directly below main electric room and adjacent to redundant junction box for ease of electrical hook-up;
- Fully within sump system and containment system.
- Thermally isolated from WTP and can be independently heated in the future;
- Roll-up exterior door and double walk door;
- 3 raised concrete housekeeping pads
- No heat tracing requirements

De Beers – Mining, Canada

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DE BEERS

GROUP OF COMPANIES

It is important to note that the main purpose of this infrastructure is to ensure the continued compliance of the Snap Lake Mine while it remains in Extended Care and Maintenance. Future considerations for long term passive water management are being designed and will form part of the final closure plan that is anticipated to be submitted in 2019.

Should you have any questions or concerns, please feel free to contact myself by phone at (867) 446-8100 or by email at sean.whitaker@debeersgroup.com .

Regards,

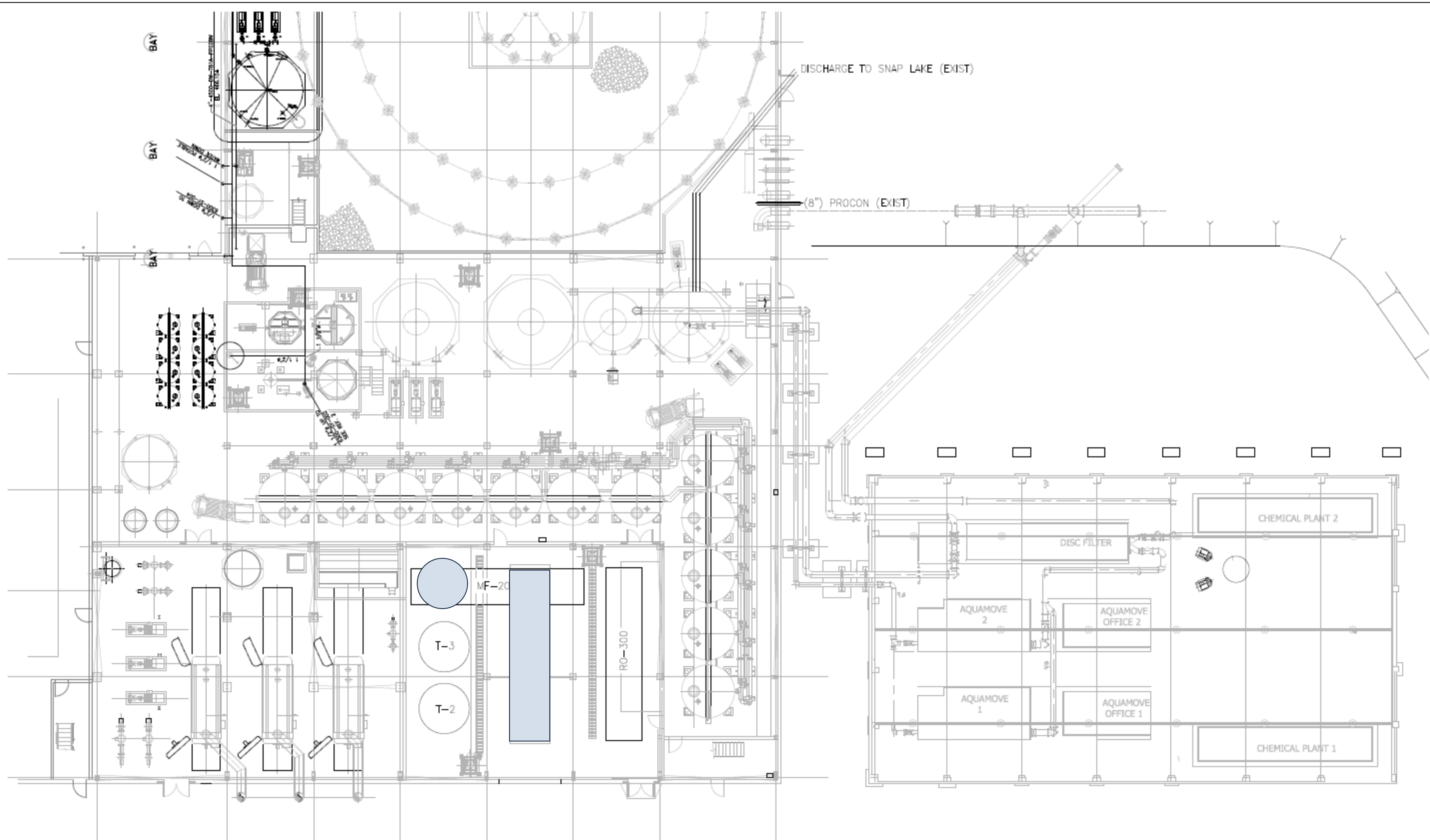


Sean Whitaker

**Projects Group –Mine Technical Services
De Beers Canada**

De Beers – Mining, Canada

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- Notes**
1. Snap Lake Mine Water Treatment Plant As-built modified to highlight areas of modification.
 2. Piping will be modified to integrate new system into existing infrastructure.
 3. Process maximizes existing infrastructure in its design.
 4. Infrastructure associated with a historic sewage treatment plant will be removed to make room for the new water treatment solution.

Special Symbols / Nomenclature

Main Equipment to be Removed

Reference Drawings:

SLM-A-002

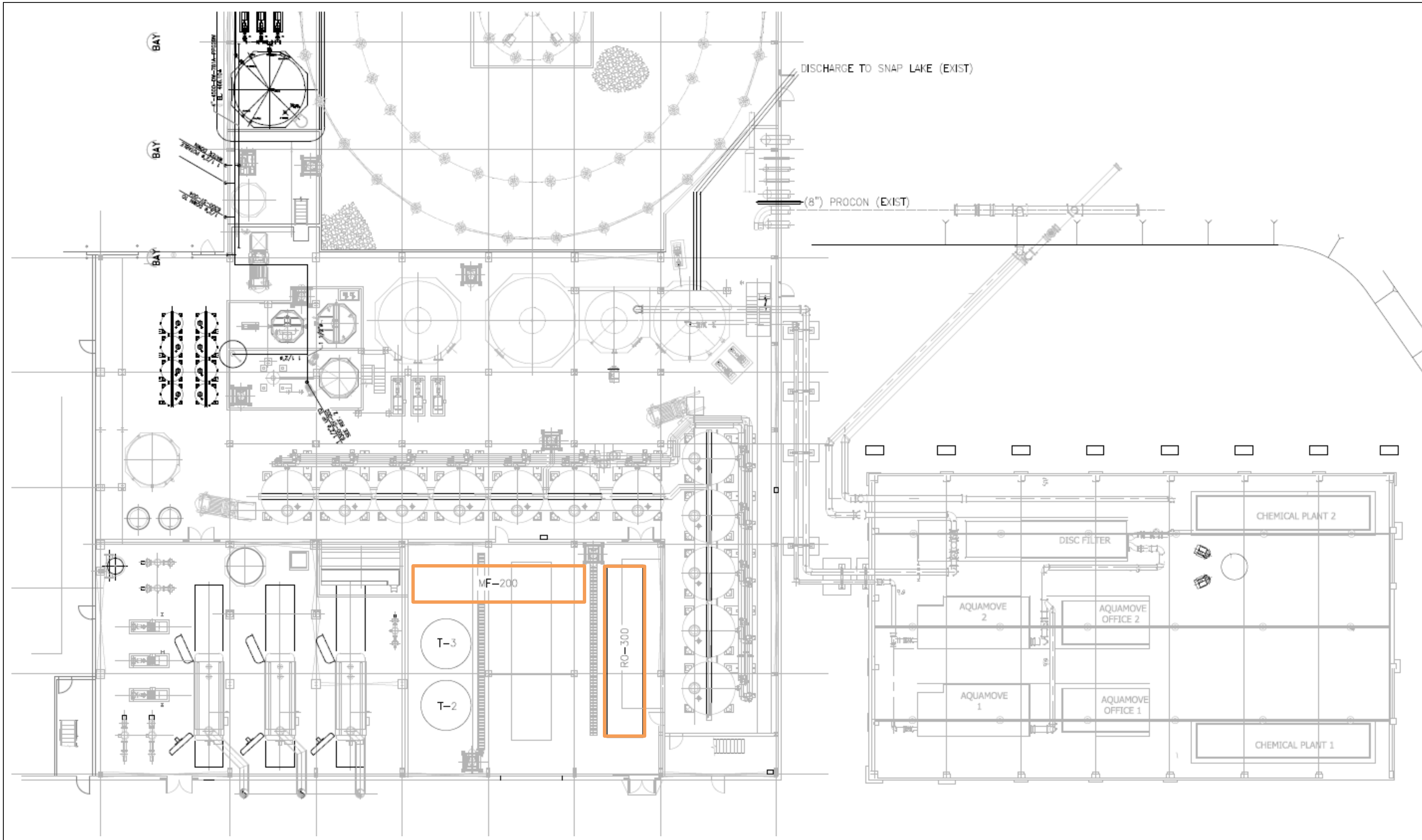
Drawing Type

Concept Level – Infrastructure Modification

Title

Snap Lake Mine – Main Water Treatment Plant – Modification Notification Drawing

DWG #/Sheet #	Rev
SW/12-20-17	0
SLM-A-001	



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1. Snap Lake Mine Water Treatment Plant As-built modified to highlight areas of modification.
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Special Symbols / Nomenclature

Main Equipment Conceptual Configuration

Reference Drawings:

SLM-A-001

Drawing Type

Concept Level – Infrastructure Modification

New Equipment Identification:

MF-200: Microfiltration Unit- Sea-can construction Pall Corporation
 RO-300: Reverse Osmosis Unit- Evoqua Water Technologies

Title

Snap Lake Mine – Main Water Treatment Plant – Modification Notification Drawing



DWG #/ Sheet #	Rev
SW/ 12-20-17	0
SLM-A-002	