

GROUNDWATER MONITORING WELL DECOMMISSIONING REPORT NORTH STAR PIT SOLDOTNA, ALASKA

September 20, 2023 Project #: 0074A-001-0020

SUBMITTED BY: Trihydro Corporation

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1. Decommissioned Monitoring Well Locations



1.0 INTRODUCTION

This Monitoring Well Decommissioning Report has been prepared by Trihydro Corporation (Trihydro) for North Star Paving to document the activities and procedures used during the decommissioning of monitoring wells MW-1, MW-3, MW-4, and MW-5 at the North Star Pit Site in Soldotna, Alaska (Figure 1).

These wells were not decommissioned in accordance with Alaska Department of Environmental Conservation (ADEC) Monitoring Well Guidance (ADEC 2013). This report provides a description of how the wells were initially decommissioned and the corrective action implemented to inhibit downward vertical migration pathways at the decommissioned well locations.



2.0 DECOMMISSIONING METHOD

2.1 DECOMMISSIONING METHOD UTILIZED

Monitoring wells MW-1, MW-3, MW-4, and MW-5 were initially decommissioned on the week of August 6th, 2023, by first pulling the well casings and then backfilling the boreholes with pea gravel. Bentonite chips, concrete, and natural soils were not used in the backfill.

2.2 PROPOSED CORRECTION

The ADEC's Monitoring Well Guidance (ADEC 2013) states that "Once the casing has been withdrawn to above the groundwater interface, (one should) add sealing grout or bentonite chips to the well until the materials are near the ground surface," (ADEC 2013, 22). At about two feet from the surface, alternative soils may be used to match existing terrain.

As a corrective measure for the initial attempt at well decommissioning, Trihydro instructed the contractor to reexcavate monitoring well locations to approximately 4 feet below ground surface (bgs), stack bentonite chips up to 2 feet bgs, and back fill the remaining void with native soils. This was accomplished on the week of August 20th, 2023.



3.0 REFERENCES

Alaska Department of Environmental Conservation (ADEC). 2013. Department of Spill Prevention and Response, Contaminated Sites Program, Monitoring Well Installation Guidance. September 2013.



FIGURE





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