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Red Dog Operations
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May 8, 2024

Mr. William Groom, Project Manager
Division Mining, Land and Water
Department of Natural Resources
3700 Airport Way
Fairbanks, AK 99709-4699

Reference: Proposed Amendment for Aqqaluk Exploration and Sulfur Creek

Dear Mr. Groom,

Teck Alaska Inc. Red Dog Mine is requesting an amendment to the Reclamation Plan Approval # F20219958RPA for construction of exploration roads and pads north of the existing Aqqaluk pit. The project will also involve extending the existing Sulfur Creek diversion and construction of a Sulfur Creek bypass west of the Aqqaluk pit pending approval from the Corps of Engineers (COE) and ADEC - Water Resources. Inclusion of the comms road just east and west of the pit rim is also requested as a part of this amendment.

Location

The project site is located within Section 20, T. 31 N., R. 18 W., Kateel River Meridian; Latitude 68.0791° N., Longitude 162.8264° W.; at the Red Dog Mine, Alaska.

The area of the proposed activities is shown on Sheet 5 of 11 and illustrates the footprint of the proposed roads, pads, diversion extension, and bypass, new disturbances, and impacted stream and wetland areas. The construction of the exploration roads and pads and Sulfur Creek diversion extension and bypass are not expected significantly effect the current closure cost and the new disturbance areas/costs will be incorporated with the 2026 Reclamation Plan Approval (RAP) renewal package.

Proposed Project

The exploration roads and pads are necessary to carry out mineral and geotechnical studies in the area north of the Aqqaluk Pit and the Sulfur Creek diversion extension and bypass are necessary to keep divert water away from the Aqqaluk pit to increase safety and water quality protection. The exploration roads and pads and Sulfur Creek diversion extension and bypass will involve disturbance of approximately 12.1 acres, approximately 5.97 acres are considered wetlands. The Sulfur Creek diversion extension and bypass will also impact a total of 410 feet of stream length. The COE are currently reviewing the project (POA-2024-00116) and is anticipated to issue a permit sometime in June.

The proposed drill pad roads, drill pads and West Ring Road designs are presented in the included "sheets". Sheet 8 of 11 represents the proposed drill road cross section, sheet 9 of 11 the approximate drill pad design and sheet 11 of 11 the proposed West ring Road design. The West ring road is estimated to be approximately 1,800' in length with a disturbed surface area of approximately 4 acres. These roads (except the comms road) are all designed to be easily removed with limited impact to the tundra when no longer necessary.

The Comms Road (3,000' length) was created during the late summer of 2021 and inadvertently missed not being added during the 2021 Reclamation Plan Approval renewal and the area was not addressed in the Standardized Reclamation Cost Estimator (SRCE) model. This area accounts for approximately 1.7 acres of road disturbance and was included on the 2021 Waste management Permit (WMP) RPA Annual Report Land Disturbance Map.

Sulfur Creek Extension Diversion & Bypass

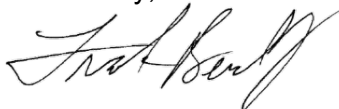
Red Dog was recently issued a Temporary Water Use Authorization (TWUA) F2022-050 from the Alaska Department of Natural Resources (ADNR) Water Resources Section for 2,260 feet of Sulfur Creek diversion. The proposed project includes an extension of this diversion and a bypass downstream of the diversion. An application to amend or create a new TWUA for the proposed extension and bypass will be applied for prior to the project commencing.

Cultural resources

The latest published version of the Alaska Heritage Resources Survey (AHRS) has been consulted for the presence or absence of historic properties, including those listed in or eligible for inclusion in the National Register of Historic Places. There are potential cultural resources within the vicinity of the permit area. The permit area has been determined to be the direct footprint of fill that was discharged and the proposed fill to be discharged. Pursuant to 36 CFR 800.4(a)(4) the Corps has sent letters to local Tribes seeking to gather information on the identification of any historic properties. The Corps is currently gathering information regarding the presence or absence of historic properties, including those listed in or eligible for inclusion in the National Register of Historic Places and have yet to make a determination of effect. The COE application is being coordinated with the State Historic Preservation Office (SHPO),

If you have any questions, please feel free to contact myself at (907) 754-5138, or Mike Rieser at (907) 754-3816.

Sincerely,



Frank Bendrick
Senior Environmental Coordinator
Red Dog Operations
Teck Alaska Incorporated

162.8445°W

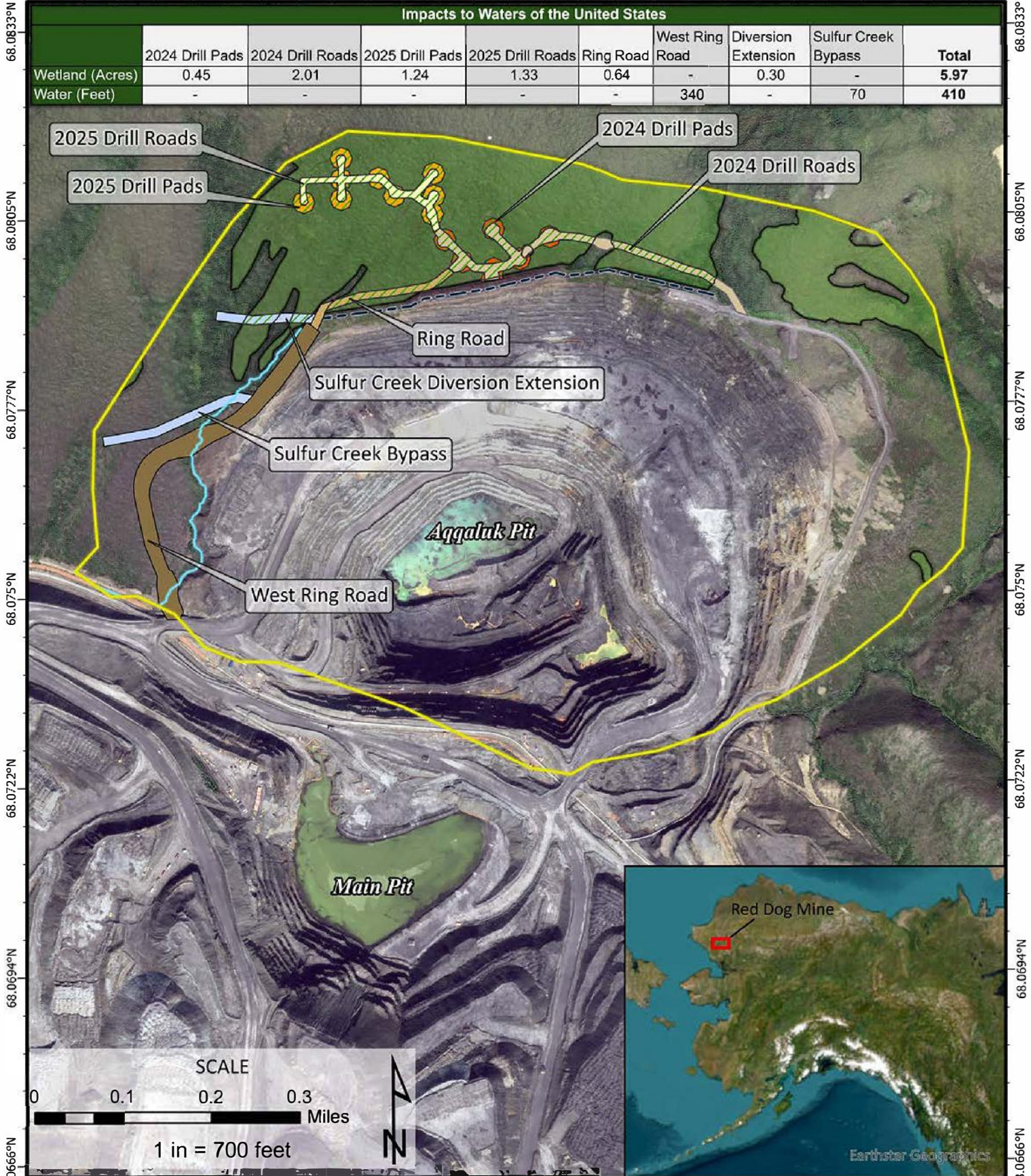
162.8334°W

162.8223°W

162.8112°W

Impacts to Waters of the United States

	2024 Drill Pads	2024 Drill Roads	2025 Drill Pads	2025 Drill Roads	Ring Road	West Ring Road	Diversion Extension	Sulfur Creek Bypass	Total
Wetland (Acres)	0.45	2.01	1.24	1.33	0.64	-	0.30	-	5.97
Water (Feet)	-	-	-	-	-	340	-	70	410



LEGEND

- 2024 PJD Mapping Boundary
- Streams
- Existing Diversion Ditch
- Aqqaluk 2024 PJD Wetlands
- Proposed Impacts in Wetlands

Background is satellite imagery dated August 2023.



Map Title: PROPOSED PROJECT OVERVIEW

Applicant: Teck Alaska Incorporated, Red Dog Operations

File No.: POA-1984-12-M47

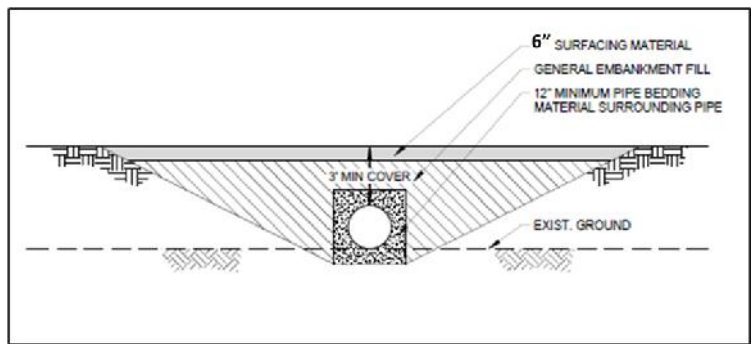
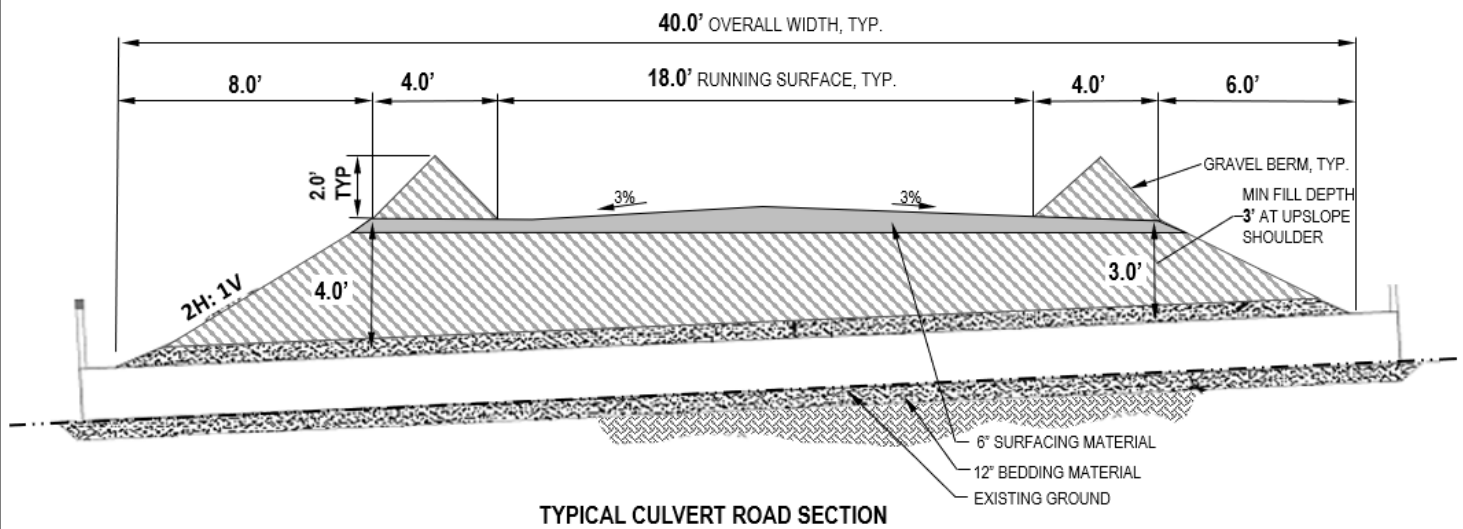
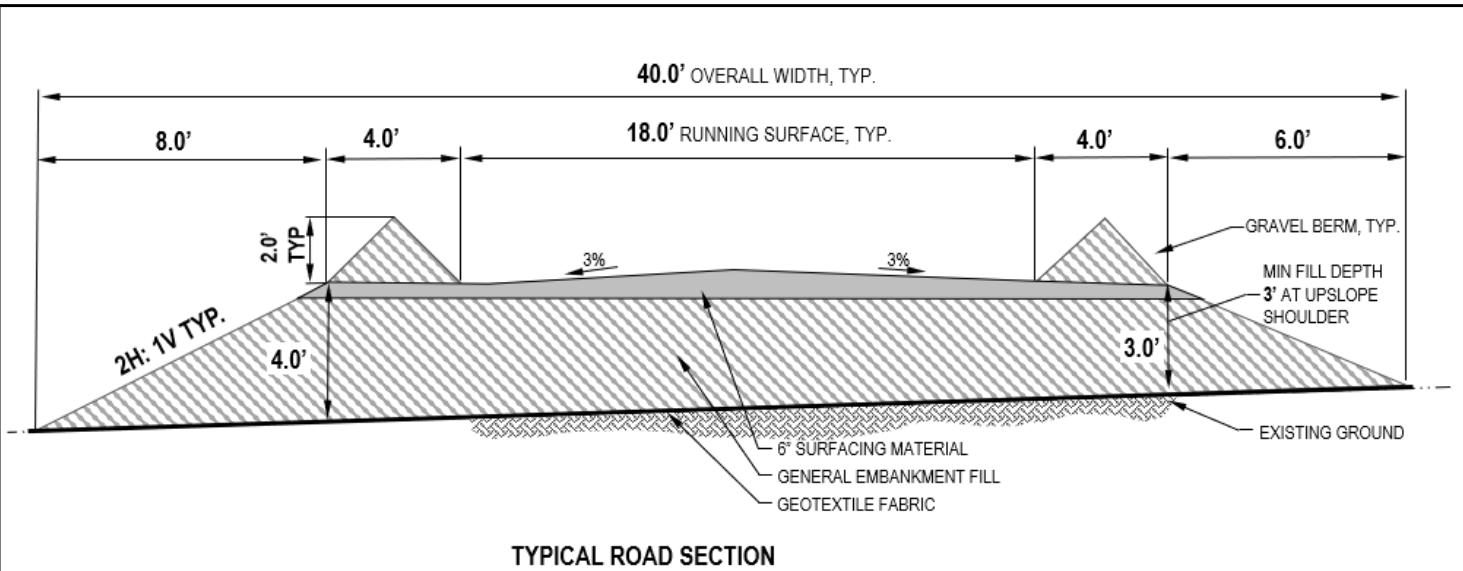
Proposed Activity: Continued Operation of Aqqaluk Pit and Exploration

Sections: 16,17,20,21 Township: 31N Range: 18W Meridian: KR

Lat: 68.0770°N Long: 162.8277°W

Sheet 5 of 11 Date: 2/29/2024

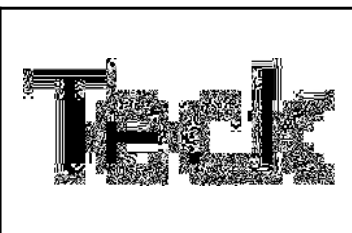
Earthstar Geographics



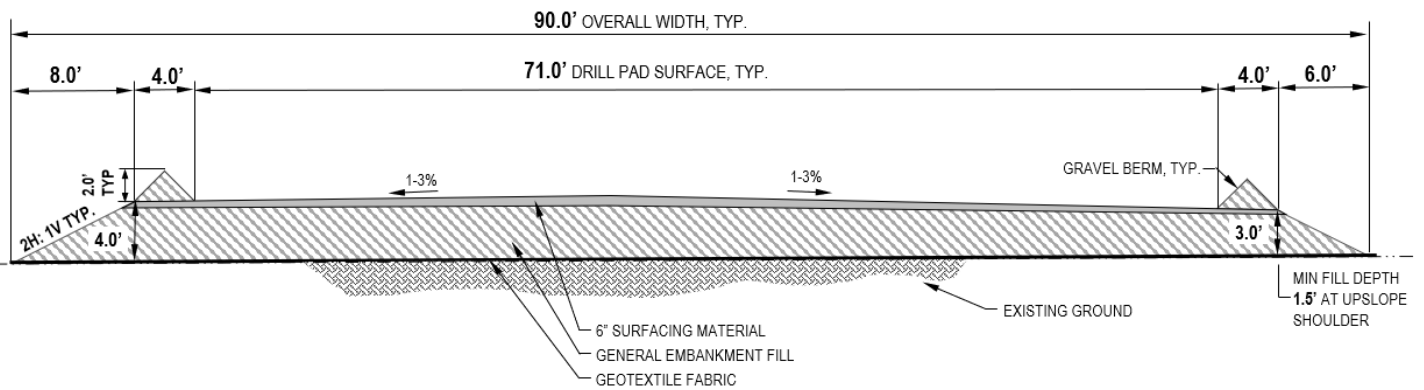
NOTES:

1. SURFACING MATERIAL TO BE 2" MINUS MATERIAL WITH 0-6% PASSING THE NO. 200 SIEVE (SIMILAR TO ADOT&PF SUBBASE, GRADING B.)
2. GENERAL EMBANKMENT FILL TO BE 12" MINUS PIT RUN MATERIAL WITH 0-10% PASSING THE NO. 200 SIEVE (SIMILAR TO ADOT&PF SELECTED MATERIAL, TYPE B.)
3. GEOTEXTILE FABRIC TO BE CLASS 1 SEPARATION GEOTEXTILE, AS DEFINED IN AASHTO M 288. IN AREAS, WHERE CLEAN GRAVELS ARE PRESENT, THE GEOTEXTILE CAN BE OMITTED.

SCALE: AS DEPICTED



Title: PROPOSED PROJECT: DRILL ACCESS ROADS AND RING ROAD
Applicant: Teck Alaska Incorporated, Red Dog Operations
File No.: POA-1984-12-M47
Proposed Activity: Continued Operation of Aqqaluk Pit and Exploration
Sections: 16,17,20,21 **Township:** 31N **Range:** 18W **Meridian:** KR
Lat: 68.0770°N **Long:** 162.8277°W
Sheet 8 of 11 **Date:** 2/29/2024



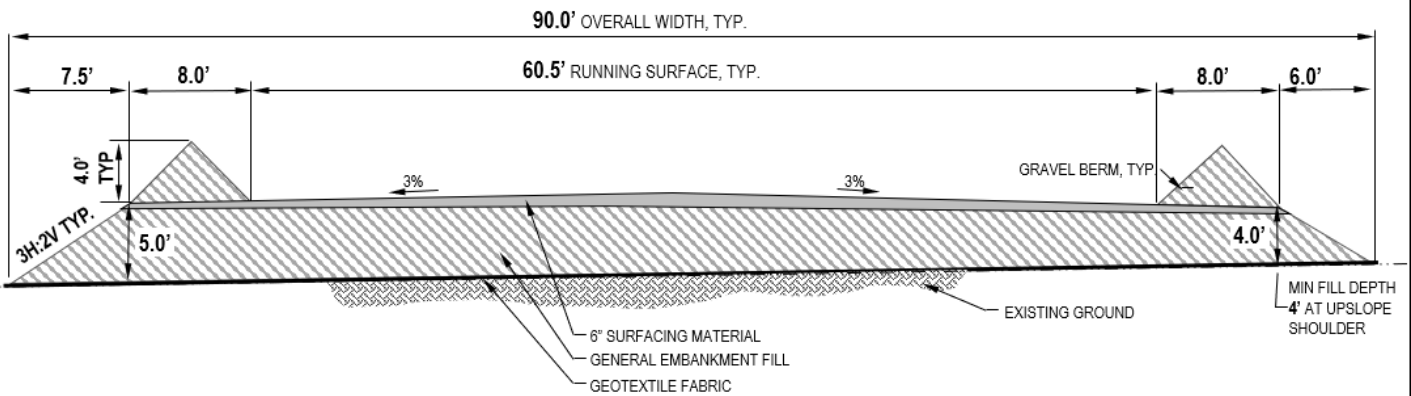
NOTES:

1. SURFACING MATERIAL TO BE 2" MINUS MATERIAL WITH 0-6% PASSING THE NO. 200 SIEVE (SIMILAR TO ADOT&PF SUBBASE, GRADING B.)
2. GENERAL EMBANKMENT FILL TO BE 12" MINUS PIT RUN MATERIAL WITH 0-10% PASSING THE NO. 200 SIEVE (SIMILAR TO ADOT&PF SELECTED MATERIAL, TYPE B.)
3. GEOTEXTILE FABRIC TO BE CLASS 1 SEPARATION GEOTEXTILE, AS DEFINED IN AASHTO M 288. IN AREAS, WHERE CLEAN GRAVELS ARE PRESENT, THE GEOTEXTILE CAN BE OMITTED.

SCALE: AS DEPICTED



Title: PROPOSED PROJECT: DRILL PADS
Applicant: Teck Alaska Incorporated, Red Dog Operations
File No.: POA-1984-12-M47
Proposed Activity: Continued Operation of Aqqaluk Pit and Exploration
Sections: 16,17,20,21 **Township:** 31N **Range:** 18W **Meridian:** KR
Lat: 68.0770°N **Long:** 162.8277°W
Sheet 9 of 11 **Date:** 2/29/2024



NOTES:

1. SURFACING MATERIAL TO BE 2" MINUS MATERIAL WITH 0-6% PASSING THE NO. 200 SIEVE (SIMILAR TO ADOT&PF SUBBASE, GRADING B.)
2. GENERAL EMBANKMENT FILL TO BE 12" MINUS PIT RUN MATERIAL WITH 0-10% PASSING THE NO. 200 SIEVE (SIMILAR TO ADOT&PF SELECTED MATERIAL, TYPE B.)
3. EXCAVATED MATERIAL SHOULD BE REUSED IF IT CONFORMS TO THE ABOVE MATERIAL REQUIREMENTS.

SCALE: AS DEPICTED



Title: PROPOSED PROJECT: WEST RING ROAD

Applicant: Teck Alaska Incorporated, Red Dog Operations

File No.: POA-1984-12-M47

Proposed Activity: Continued Operation of Aqqaluk Pit and Exploration

Sections: 16,17,20,21 **Township:** 31N **Range:** 18W **Meridian:** KR

Lat: 68.0770°N **Long:** 162.8277°W

Sheet 11 of 11 **Date:** 2/29/2024