

## **Department of Fish and Game**

DIVISION OF HABITAT Fairbanks Regional Office

1300 College Road Fairbanks, Alaska 99701-1551 Main: 907.459.7289 Fax: 907.459.7303

# FISH HABITAT PERMIT FH18-III-0183

ISSUED: August 30, 2018 EXPIRES: Upon Removal of Bridge and Rehabilitation of the Stream Crossing

Daniel Graham Donlin Gold 4720 Business Park Blvd. Suite G-25 Anchorage, AK 99503

Dear Mr. Graham:

RE: Jungjuk Creek Upper Crossing Bridge Construction

Jungjuk Creek

Section 22, T20N, R50W, SM, Sleetmute D-7

Location coordinates (WGS84): 61.8091 N 158.3113 W

Pursuant to AS 16.05.841 (Fishway Act), the Alaska Department of Fish and Game (ADF&G), Division of Habitat, has reviewed your proposal to construct a bridge over upper Jungjuk Creek. We received an initial copy of your application on October 8, 2015, and received additional application information on December 29, 2017.

## **Project Description**

Donlin Gold is proposing to construct the Donlin-Jungjuk Road connecting a proposed Jungjuk Port, on the Kuskokwim River, with the proposed mine site. The road design includes six (6) bridge crossings, two (2) of them on Jungjuk Creek, referred to as the lower crossing and upper crossing. This permit is for the upper crossing of Jungjuk Creek, herein referred to as the Jungjuk Creek Upper Crossing Bridge. This bridge would use a site-fabricated corrugated steel arch bridge structure design. The structure would be at road milepost 24.1 of the Donlin-Jungjuk Road and would be approximately 50 ft (15.3 m) long. The span of the structure would be approximately 30 ft (9.1 m), two times the approximate bankfull stream width of 14.8 ft (4.5 m). To accommodate wide-design vehicles, including the

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autoclave transporter, the bridge surface is 32 ft 9 in (10 m) wide. The arch would consist of pre-cast concrete pads with base elevation at 483.3 ft (147.3 m) under the MSE wall.

Wire MSE retaining walls, designed by Big R Bridge, will be used to retain road fill and protect the arch bases. Wire MSE wall retaining structures consist of a series of 9 ft wide 5 ft tall face panels with horizontal soil retention bottom mesh extending 5 ft deep. Wire used for the MSE face, bottom, and top caps, and tie-ins between lifts will be 8-gauge steel and the outward-facing surface panels of each MSE wall will consist of 4 x 8 in mesh. Fill will be graded to consist of material large enough to be retained by the 4 x 8 in mesh. The walls would be placed on the upstream and downstream side of the bridge and would be extended to the road elevation. Arch and MSE wall bases will be protected by Class II rip rap armoring installed outside of OHW. Rip rap will be keyed to 0.5 ft (0.2 m) below the thalweg depth and into the stream banks on the upstream and downstream sides of the bridge. Final install depths would be determined on site during construction. All cross-drainage pipes installed within potential HHW will be embedded by 10% to aid fish passage and durability during high water events. Temporary bridges would be constructed outside of ordinary high water. Preliminary plans were included in the December 29, 2017 application.

#### Fish Resources

Jungjuk Creek in the area of your project supports resident species of fish such as Dolly Varden, approximately three miles downriver of your project location the creek provides rearing habitat for coho salmon. Your project as proposed should not obstruct the efficient passage and movement of fish.

### **Determination**

In accordance with AS 16.05.841, project approval is hereby given subject to the project description above with the following stipulations:

- 1. The bridge shall be constructed, operated, and maintained for the life of the structure such that free passage of fish is assured. Any obstruction to the free passage of fish shall be restored to the satisfaction of the Division of Habitat. The Division of Habitat shall be notified and approval granted by the Division of Habitat before any instream bridge maintenance activities occur.
- 2. Donlin Gold shall submit final plans and specifications to the Division of Habitat for review and approval, noting any deviations from the preliminary plan set submitted for this permit, prior to construction.
- Donlin Gold or its contractor shall provide plans for any diversion, dewatering, or bypass
  pumping needed for bridge installation for review and approval by the Division of Habitat before
  these activities occur.

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4. Donlin Gold shall submit plans and specifications to the Division of Habitat for review and approval prior to the installation, maintenance and removal of any temporary bridge needed to maintain traffic around the work area during the installation of the new bridge.

You are responsible for the actions of contractors, agents, or other persons who perform work to accomplish the approved project. For any activity that significantly deviates from the approved plan, you shall notify the Division of Habitat and obtain written approval in the form of a permit amendment before beginning the activity. Any action that increases the project's overall scope or that negates, alters, or minimizes the intent or effectiveness of any stipulation contained in this permit will be deemed a significant deviation from the approved plan. The final determination as to the significance of any deviation and the need for a permit amendment is the responsibility of the Division of Habitat. Therefore, it is recommended you consult the Division of Habitat immediately when any deviation from the approved plan is being considered.

For the purpose of inspecting or monitoring compliance with any condition of this permit, you shall give an authorized representative of the state free and unobstructed access, at safe and reasonable times, to the permit site. You shall furnish whatever assistance and information as the authorized representative reasonably requires for monitoring and inspection purposes.

This letter constitutes a permit issued under the authority of AS 16.05.841 and must be retained on site during project activities. Please be advised that this determination applies only to activities regulated by the Division of Habitat; other agencies also may have jurisdiction under their respective authorities. This determination does not relieve you of your responsibility to secure other permits; state, federal, or local. You are still required to comply with all other applicable laws.

In addition to the penalties provided by law, this permit may be terminated or revoked for failure to comply with its provisions or failure to comply with applicable statutes and regulations. The Division of Habitat reserves the right to require mitigation measures to correct disruption to fish and game created by the project and which was a direct result of the failure to comply with this permit or any applicable law.

You shall indemnify, save harmless, and defend the department, its agents, and its employees from any and all claims, actions, or liabilities for injuries or damages sustained by any person or property arising directly or indirectly from permitted activities or your performance under this permit. However, this provision has no effect if, and only if, the sole proximate cause of the injury is the department's negligence.

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Any questions or concerns about this permit may be directed to Habitat Biologist Maria Wessel at 907-459-7281 or emailed to maria.wessel@alaska.gov.

Sincerely,

Sam Cotten, Commissioner

BY: Audra L. J. Brase, Regional Supervisor

Division of Habitat

Alaska Department of Fish and Game

ecc: John Chythlook, ADF&G SF, Fairbanks

Douglass Cooper, USFWS, Fairbanks

Ben Soiseth, USACE, Fairbanks

AWT Northern Detachment, Fairbanks

Lee McKinley, ADF&G-JPO, Anchorage Aaron Tiernan, ADF&G CF, Anchorage

Josh Peirce, ADF&G WC, McGrath

Al Ott, ADF&G HAB, Fairbanks Faith Martineau, ADNR, Fairbanks Permit Coordinator, ADF&G SF, Anchorage

NOAA Fisheries, Anchorage

Michael Walton, ADNR Fairbanks

AB/mlw