



FISH HABITAT PERMIT

FH18-III-0236

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

Catherine Suda, Manager - US Land and Assets
Teck American Incorporated
501 N Riverpoint Blvd #300
Spokane, WA 99202

Dear Ms. Suda:

RE: Bridge Construction
Ikalukrok Creek (Stream No. 331-00-10060-2120)
Section 19, T32N, R18W, KM.
Location Coordinates (WGS84): 68.1508 N, -162.8721 W

Pursuant to AS 16.05.871(b), the Alaska Department of Fish and Game (ADF&G) Division of Habitat, has reviewed your plans to install a temporary full span bridge over Ikalukrok Creek as part of the construction of a gravel exploration access road.

Project Description

Teck American Incorporated proposes to install a temporary "truss" bridge over Ikalukrok Creek. This crossing is part of the construction of an approximately 10-mile-long gravel access road to connect the Fish Weir Road at the Red Dog Mine with the camp pad at the Anarraaq and Aktigiruuq exploration area.

The bridge will be assembled offsite and then placed over the stream, onto the abutments using a crane or similar equipment. The abutments will be constructed by excavating some overburden and placing concrete abutment blocks. The gravel road will be constructed to the bridge abutments on both sides of the creek. All ground disturbance will be some distance away from the stream banks and stream channel, and above ordinary high water. As a result, no direct impacts to channel or banks are expected and no restoration of these features is planned. The bridge installation is considered temporary. Its removal will

consist of lifting the bridge from its abutments using a crane or similar equipment and leaving the abutments in-place.

Bridge construction is anticipated to begin in January 2019, and all work will be performed from the land, or the frozen surface of the creek. No instream activity is planned.

A description of the project was contained in the initial plans and permit request of October 30, 2018.

Anadromous Fish Act

Ikalukrok Creek has been specified as being important for the spawning, rearing, or migration of anadromous fishes pursuant to AS 16.05.871(a). Dolly Varden utilize Ikalukrok Creek at the proposed bridge location for rearing habitat. Resident fish species such as Arctic grayling also occur in this creek. Your project as proposed should not have adverse effects on anadromous fish or their habitat and should not obstruct the free passage of fish. In accordance with AS 16.05.871(d), 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) Snow and/or ice removal from the stream channel is authorized, if needed, to ensure the free flow of water under the bridge during breakup. Provide written notification to Division of Habitat if such activity occurs.

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 a 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 16.05.871 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 department 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.

This permit decision may be appealed in accordance with the provisions of AS 44.62.330-630.

Any questions or concerns about this permit may be directed to Audra Brase at 907-459-7282 or emailed to audra.braser@alaska.gov.

Sincerely,

Sam Cotten, Commissioner



BY: Audra L. J. Brase, Regional Supervisor
Division of Habitat
Alaska Department of Fish and Game

ecc: Al Ott, ADF&G, Fairbanks
Bob Henszey, USFWS, Fairbanks
NOAA Fisheries, Anchorage

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Tim Pilon, ADEC, Fairbanks
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