

From: [Owen, Samantha](#)
To: [Owen, Samantha](#)
Subject: FW: Eklutna Infrastructure Related Studies
Date: Wednesday, January 13, 2021 10:00:27 AM

From: Hensel, Kurt T (DNR) <kurt.hensel@alaska.gov>
Sent: Wednesday, December 2, 2020 2:02 PM
To: Owen, Samantha <owen@mcmjac.com>
Subject: FW: Eklutna Infrastructure Related Studies

CAUTION: This email was received from an external source

Samantha-

I wanted to pass this comment along. I'll forward any more that I get.

*Kurt Hensel
Park Superintendent
Chugach/Southwest Area
DNR-Parks
Office 907.345.5014
Fax 907.345.6982*

From: Miranda, Rys B (DNR) <rys.miranda@alaska.gov>
Sent: Wednesday, December 2, 2020 7:54 AM
To: Hensel, Kurt T (DNR) <kurt.hensel@alaska.gov>
Subject: RE: Eklutna Infrastructure Related Studies

Hi, Kurt.

I've reviewed Section 3.8 of the attached draft study plan and it looks good to me. The only thought I had was to maybe consider ice-induced erosion as part of the study. They reference wave-induced erosion, but I'm not sure if ice movement during full pool could be an issue as well. I'm not familiar enough with the area to know whether or not something like that had ever been an issue.

From: Owen, Samantha <owen@mcmjac.com>
Sent: Friday, November 13, 2020 8:47 AM
To: Hensel, Kurt T (DNR) <kurt.hensel@alaska.gov>; Wilson, Keith J (DNR) <keith.wilson@alaska.gov>; Corwin, William B (DNR) <ben.corwin@alaska.gov>; joe.sanks@awwu.biz; Knapp, Michael W (DOT) <michael.knapp@alaska.gov>; Arnolds, Melanie (DOT) <melanie.arnolds@alaska.gov>; Brian Lindamood <LindamoodB@akrr.com>; holtj@akrr.com
Cc: stevepadula288@gmail.com
Subject: RE: Eklutna Infrastructure Related Studies

Hello all,

I'm just following up on my previous email, see below. The Draft Study Plans for the Eklutna Hydroelectric Project were distributed to the TWG on October 26, 2020. If you or your agency is interested in reviewing the infrastructure related study plans, please let me know as soon as possible.

Thanks!

Samantha Owen

Regulatory and Licensing Specialist

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From: Owen, Samantha

Sent: Tuesday, October 13, 2020 9:49 AM

To: kurt.hensel@alaska.gov; keith.wilson@alaska.gov; ben.corwin@alaska.gov; joe.sanks@awwu.biz; michael.knapp@alaska.gov; melanie.arnolds@alaska.gov; Brian Lindamood <LindamoodB@akrr.com>; holtj@akrr.com

Cc: stevepadula288@gmail.com

Subject: Eklutna Infrastructure Related Studies

Hello all,

As discussed during the last Quarterly Update Call for the Eklutna project, we have a few studies planned for 2021 that are more infrastructure related. Because of this, we feel there is a need to expand the Technical Work Group (TWG) to include one or more representatives from your agencies to review the draft study plans. The infrastructure related studies planned for 2021 are shown below:

- Lakeside Trail Erosion Study (coordinate with State Parks)
- Hydro Operations Modeling Study (coordinate with AWWU)
- Infrastructure Assessment Study (coordinate with AWWU, ADOT&PF, and ARRC)

The goal of the **Lakeside Trail Erosion Study** is to evaluate existing evidence of shoreline erosion during high water conditions, including locations, causes, and potential means of mitigation. Methods include reviewing historical aerial photographs to track erosion through time, conducting a field inventory to map areas that are currently eroding, and collecting information on soil/geology, factors contributing to erosion, slope, aspect, infrastructure affected, and other pertinent site conditions. In year two this study will continue with the evaluation of how conditions would change under alternative reservoir operational scenarios and identify potential mitigation/erosion control measures. We feel there is a need to expand the TWG to include one or more representatives from **State Parks** to review this draft study plan.

The goal of the **Hydro Operations Modeling Study** is to develop a hydro operations model to simulate current project operations (reservoir levels, spills, powerhouse flows and generation,

AWWU flows) and potential alternative operational regimes for the hydropower project as the study program progresses. Other Specific Study Components include calculating historic inflows to Eklutna Lake utilizing the existing lake level, generation, and AWWU flow data. In year two the model will be utilized to evaluate operational alternatives. We feel there is a need to expand the TWG to include one or more representatives from **AWWU** to review this draft study plan.

The goal of the **Infrastructure Assessment Study** is to develop a more complete understanding of existing infrastructure that could be affected by alternative operational regimes. Focus will be on the hydropower project infrastructure itself, as well as AWWU's infrastructure (pipeline, portal, drain, access road/bridges/crossings) and the downstream highway and railroad bridges. Methods will include an engineering review of available documentation. Information related to existing infrastructure will be obtained through additional consultation with the applicable entities. In year two this study will continue with the evaluation of how existing infrastructure would be impacted by alternative operational regimes. We feel there is a need to expand the TWG to include one or more representatives from **AWWU, ADOT&PF, and ARRC** to review this draft study plan.

Please let me know if you are interested/willing to participate in the TWG and review the draft study plans. We will be distributing the draft study plans for review later in October.

Regards,

Samantha Owen

Regulatory and Licensing Specialist

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