

Kenai Hydro, LLC

3977 Lake Street
Homer, AK 99603

August 28, 2011

Secretary Kimberly D. Bose
Federal Energy Regulatory Commission
Attn: DHAC, PJ-12.2
888 First Street, NE
Washington, DC 20426

- FILED ELECTRONICALLY -

RE: First Six-Month Preliminary Permit Progress Report for the Grant Lake (Project No. 13212), March 1, 2012 – August 31, 2012

Dear Secretary Bose:

Kenai Hydro, LLC (KHL) hereby submits its first six-month progress report, i.e., for the period of March 1, 2012 through August 31, 2012 for the proposed Grant Lake Project.

With the expiration of the first preliminary permit on September 30, 2011, KHL submitted a second Preliminary Permit Application (PPA) with FERC that was subsequently granted on March 23, 2012. In parallel with the application for a second preliminary permit, KHL developed a Request For Proposal (RFP) for completing the natural resource evaluations for the proposed project. Due to the high demand for study consultants in Alaska, the bids came in unexpectedly high and without the detail required to put an acceptable contract in place for the 2012 summer study season. As a result, KHL adjusted the study schedule to allow resource studies to begin with the winter studies in late 2012 and the summer work to occur in 2013.

In May, KHL sent the natural resources RFP out a second time. KHL is currently in contract negotiations with the selected consultant to conduct the natural resources evaluations and re-engage stakeholders for a successful 2012 – 2013 study effort. An effort is currently underway to conduct certain components of natural resource tasks in late 2012 that will facilitate a more organized and efficient formal field study process from a logistical and schedule related standpoint.

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ACTIVITIES DURING THE REPORTING PERIOD (March 2012 – August 2012)Stakeholder Outreach and Consultation

- Presented a project update to the Homer Electric Association Board of Directors and senior management.
- Developed a display and slide show for a booth at Homer Electric's annual meeting held on May 3rd.
- On May 4, an Iditarod National Historic Trails/Grant Lake resolution presentation was made to the Iditarod Historic Trail Alliance.
- Provided material for a Grant Lake Project display at the Regional National Hydropower Association Conference in Sitka, Alaska during the week of August 20th.
- KHL maintained the Kenai Hydro website (www.kenaihydro.com) by posting the latest announcements and documents for public access. This site continues to serve as a conduit for information, including a library of existing information, a calendar of events, and a repository for contact information for interested parties.

Environmental Studies

- KHL reviewed and evaluated the bids received from the February 24th RFP. KHL diligently worked with the low bidder but was unable to successfully negotiate a contract for the Natural Resources Studies.
- In early May of 2012, KHL issued the Natural Resources Studies RFP again. Contract negotiations have developed to a high level and KHL anticipates finalizing the contract by mid-September. Upon finalization of the contract, the selected natural resource consultant would begin the process of re-initiating the formal natural resource studies.
- KHL produced a style template for the Grant Lake Natural Resources Study Reports to facilitate study report standardization in order to streamline the construction of the draft FERC license application.
- KHL developed updated draft Natural Resources Studies and overall Licensing schedules for internal use and modification throughout the remainder of the licensing process.

Engineering

- KHL began the process of drafting an engineering RFP in support of the necessary feasibility work and analysis associated with filing the Draft License Application.
- KHL developed a list of qualified engineering firms to whom, the engineering RFP will be distributed once it is finalized.

Administrative

- On March 23rd, the FERC issued Kenai Hydro its second Preliminary Permit granting it priority with regard to filing a License Application.

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**CONTINUING ACTIVITIES IN SUPPORT OF LICENSE
APPLICATION DEVELOPMENT**

In anticipation of signing a natural resources evaluation contract, KHL will prepare for reinitiating resource studies, completing engineering design work, and developing its license application for the Grant Lake Project.

Environmental Studies

- KHL plans to finalize contractual terms with a natural resource consultant by mid-September. Not long after, an internal kick-off meeting and site visit will occur during which, a series of proactive field tasks will take place in an effort to be as prepared as possible for the 2013 formal studies. These preliminary efforts will include:
- Assessment of the thermistor string in Grant Lake. All data will be downloaded and the existing loggers will either be redeployed or swapped out for operational equipment.
- Weather data will be downloaded and batteries replaced.
- A site near the weather sensor will be evaluated for stream gauge installation in 2013.
- Cross sections from the IFIM study in 2009 and 2010 will be found and reestablished (if necessary).
- Natural resource stakeholders will be formally re-engaged during a kick-off meeting. Subsequent meetings related to study plans and process may occur as well.
- KHL will continue efforts to engage the appropriate agencies in discussions related to the re-route of a small portion of the Iditarod National Historic Trail (INHT).

Engineering

- KHL will finalize the engineering RFP and distribute.
- An engineering firm will be selected and feasibility work related to the License Application will begin.

Stakeholder Outreach and Consultation

- KHL plans to continue consultation with the public, resource agencies and other stakeholders on Project plans and resource studies.
- KHL plans to continue to work on the proposed rerouting of the INHT.

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Please feel free to contact me (907.283.2375 or msalzetti@homerelectric.com) with any questions regarding this filing.

Sincerely,

/s/ Mike Salzetti

Mike Salzetti
Project Manager
Kenai Hydro, LLC

cc: Service List and Mailing List for Project No. 13212

Document Content(s)

1st Grant Lake Progress Report (Project No. 13212).DOCX.....1-4

From: Cory Warnock
To: ["Miller, Monte D \(DFG\)"; Ferguson, Jim M \(DFG sponsored\); Klein, Joseph P \(DFG\); Mouw, Jason E B \(DFG\); McKinley, Lee \(PCO\); tom.capiello@alaska.gov; gary.prokosch@alaska.gov; Sager, Kimberly R \(DNR\); Goodrum, Brent W \(DNR\); Swinford, Robin E \(DNR\); Duvall, Shina A \(DNR\); Bittner, Judith E \(DNR\); susan.walker@noaa.gov; ejohansen@fs.fed.us; rspangler@fs.fed.us; kaoleary@fs.fed.us; lynnda_kahn@fws.gov; Douglas Palmer \(Douglas_Palmer@fws.gov\); Jeffry Anderson \(Jeffry_Anderson@fws.gov\); kenneth.hogan@ferc.gov; douglas_mutter@ios.doi.gov; bstanley@fs.fed.us; cassie_thomas@nps.gov; mbest@borough.kenai.ak.us; phil_brna@fws.gov; north.phil@epa.gov; btreforn@kenaitze.org; kjmushovic@blm.gov; valerie@akcenter.org; mcooney@arctic.net; ricky@kenairiversportfishing.com; jan@hydroreform.org](#)
Cc: [Salzetti, Mikel; Steve Padula; marissa.emmons@mcmillen-llc.com](#)
Subject: RE: Grant Lake Project Natural Resource Studies Meeting Invitation
Date: Wednesday, October 31, 2012 3:54:32 PM

Hi Monte,

The location of the meeting was intentionally left open to provide a bit of flexibility to meet the needs of everyone on the stakeholder contact list. Either meeting location will work for HEA. If you can provide your preferred location (Anchorage vs. Kenai) we will incorporate that into our decision related to a meeting date. As I mention in the email, the meeting will take all day. For the sake of preliminary discussion, let's err on the side of caution and go ahead and block out 8:30 to 4:30 for the meeting.

Let me know if you have any other questions/concerns,

Cory

From: Miller, Monte D (DFG) [mailto:monte.miller@alaska.gov]
Sent: Wednesday, October 31, 2012 3:47 PM
To: Cory Warnock; Ferguson, Jim M (DFG sponsored); Klein, Joseph P (DFG); Mouw, Jason E B (DFG); McKinley, Lee (PCO); tom.capiello@alaska.gov; gary.prokosch@alaska.gov; Sager, Kimberly R (DNR); Goodrum, Brent W (DNR); Swinford, Robin E (DNR); Duvall, Shina A (DNR); Bittner, Judith E (DNR); susan.walker@noaa.gov; ejohansen@fs.fed.us; rspangler@fs.fed.us; kaoleary@fs.fed.us; lynnda_kahn@fws.gov; Douglas Palmer (Douglas_Palmer@fws.gov); Jeffry Anderson (Jeffry_Anderson@fws.gov); kenneth.hogan@ferc.gov; douglas_mutter@ios.doi.gov; bstanley@fs.fed.us; cassie_thomas@nps.gov; mbest@borough.kenai.ak.us; phil_brna@fws.gov; north.phil@epa.gov; btreforn@kenaitze.org; kjmushovic@blm.gov; valerie@akcenter.org; mcooney@arctic.net; ricky@kenairiversportfishing.com; jan@hydroreform.org
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Thanks

Monte D. Miller
Statewide Hydropower Coordinator
Alaska Department of Fish and Game
Division of Sport Fish / RTS

333 Raspberry Road
Anchorage, Alaska, 99518-1565
(907) 267-2312

From: Cory Warnock [<mailto:cwarnock@longviewassociates.com>]
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To: Ferguson, Jim M (DFG sponsored); Klein, Joseph P (DFG); Mouw, Jason E B (DFG); McKinley, Lee (PCO); tom.capiello@alaska.gov; Miller, Monte D (DFG); gary.prokosch@alaska.gov; Sager, Kimberly R (DNR); Goodrum, Brent W (DNR); Swinford, Robin E (DNR); Duvall, Shina A (DNR); Bittner, Judith E (DNR); susan.walker@noaa.gov; ejohansen@fs.fed.us; rspangler@fs.fed.us; kaoleary@fs.fed.us; lynnda_kahn@fws.gov; Douglas Palmer (Douglas_Palmer@fws.gov); Jeffry Anderson (Jeffry_Anderson@fws.gov); kenneth.hogan@ferc.gov; douglas_mutter@ios.doi.gov; bstanley@fs.fed.us; cassie.thomas@nps.gov; mbest@borough.kenai.ak.us; phil_brna@fws.gov; north.phil@epa.gov; btreforn@kenaitze.org; kjmushovic@blm.gov; valerie@akcenter.org; mcooney@arctic.net; ricky@kenairiversportfishing.com; jan@hydroreform.org
Cc: Salzetti, Mikel; Steve Padula; marissa.emmons@mcmillen-llc.com; Cory Warnock
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Grant Lake Hydroelectric Project (FERC No. 13212) Natural Resources Study Stakeholder Group:

Homer Electric Association (HEA) is ramping up to continue their natural resource studies for their proposed Grant Lake Hydroelectric Project near Moose Pass, AK. As many of you likely recall, a good amount of process and natural resource related work was done on the Project in 2009 and 2010, effectively getting the Project to the beginning of the 2nd stage of the TLP licensing process (conducting formal natural resource studies in advance of the Draft License Application). HEA secured a 2nd Preliminary Permit from FERC in March of 2012 and has plans to submit a License Application prior to the expiration of that permit in 2015. Long View Associates has been retained to act as HEA's licensing and process consultant and will assist in managing the natural resource and engineering components of the licensing process. As part of this process, HEA would like to extend an invitation to the respective agency and tribal representatives to attend the Grant Lake Project Natural Resource Studies Meeting. HEA has hired a biological team led by McMillen, LLC to complete the natural resource studies associated with the licensing process. In 2010, natural resource study plans were developed and a formal comment period took place during which stakeholders were given the opportunity to comment on the plans and make substantive requests related to perceived modifications that would make the plans more comprehensive. HEA has reviewed these comments and incorporated a majority of them into the modified and final study plans that will be presented at the meeting. In addition, a matrix has been developed documenting not only the comments that were addressed but also a justification for not incorporating certain comments. The primary goals of the meeting will be to:

- Introduce HEA's Natural Resource Study team to the stakeholders
- Get everyone current on developments associated with the Project
- Provide resource specific presentations outlining individual study approaches
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- Present the stakeholders with final study plans for all resource areas
- Present HEA's schedule for completing the natural resource studies and developing a FERC License Application

HEA would like to have the meeting prior to the beginning of the New Year. After internal discussions with our team, we have identified December 12th (Wednesday) as a potential date. HEA appreciates that this time of year can be busy with work and personal commitments. That said and in an effort to be as proactive and inclusive as possible, we would like to get everyone up to speed as far in advance of the formal studies commencing in 2013 as possible. Final details will be worked out in the next few weeks but the meeting will be held in either Anchorage or Kenai and will last the entire work day. HEA has every intention of being as inclusive as possible so if everyone can please check their schedules and respond within the next week regarding their availability, it would be greatly appreciated. Once the final date is established, additional details related to time, location and agenda will follow. This distribution list is based upon a combination of the existing contact list from the last HEA licensing meeting and more recent conversations with specific agency individuals that have indicated they may be representing their entity in upcoming proceedings. If you are no longer the appropriate contact and/or you feel that others within your agency should be made aware, please route this along to the appropriate individuals. Again, HEA would like to have a comprehensive and representative group at this meeting to set the appropriate stage for successful completion of the natural resource studies.

Thank you and we'll look forward to hearing from you regarding your availability for December 12th,

Cory Warnock

Long View Associates

www.longviewassociates.com

5771 Applegrove Ln.

Ferndale, Wa. 98248

O – 360-384-2662

C – 360-739-0187

F – 360-542-2264

[illegible]

From: Cory Warnock
To: jim.ferguson@alaska.gov; joe.klein@alaska.gov; jason.mouw@alaska.gov; lee.mckinley@alaska.gov; tom.capiello@alaska.gov; monte.miller@alaska.gov; gary.prokosch@alaska.gov; kimberly.sager@alaska.gov; brent.goodrum@alaska.gov; robin.swinford@alaska.gov; Duvall, Shina A (DNR) (shina.duvall@alaska.gov); judy.bittner@alaska.gov; susan.walker@noaa.gov; ejohansen@fs.fed.us; rspangler@fs.fed.us; kaoleary@fs.fed.us; Lynnda_Kahn@fws.gov; Douglas Palmer (Douglas_Palmer@fws.gov); Jeffrey Anderson (Jeffrey_Anderson@fws.gov); kenneth.hogan@ferc.gov; douglas_mutter@ios.doi.gov; bstanley@fs.fed.us; cassie.thomas@nps.gov; mbest@borough.kenai.ak.us; phil_brna@fws.gov; north.phil@epa.gov; btreform@kenaitze.org; kjmushovic@blm.gov; valerie@akcenter.org; mcooney@arctic.net; ricky@kenairiversportfishing.com; jan@hydroreform.org
Cc: Salzetti_Mikel; Steve_Padula; marissa.emmons@mcmillen-llc.com; Cory Warnock
Subject: Grant Lake Project Natural Resource Studies Meeting Invitation
Date: Wednesday, October 31, 2012 3:34:16 PM

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From: [Cory Warnock](#)
To: [Walton, Michael L \(DNR\)](#)
Cc: [Plett, Krissy A \(DNR\)](#); [Swinford, Robin E \(DNR\)](#); [Sager, Kimberly R \(DNR\)](#); [Goodrum, Brent W \(DNR\)](#); [Salzetti, Mikel](#)
Subject: RE: Grant Lake Project Natural Resource Studies Meeting Invitation
Date: Thursday, November 01, 2012 10:55:00 AM

Hi Michael,

That is the general sentiment with all of the responses I've seen so far. I appreciate your input and will be finalizing details by the middle of next week.

Thanks,

Cory

From: Walton, Michael L (DNR) [mailto:michael.walton@alaska.gov]
Sent: Thursday, November 01, 2012 10:53 AM
To: Cory Warnock
Cc: Plett, Krissy A (DNR); Swinford, Robin E (DNR); Sager, Kimberly R (DNR); Goodrum, Brent W (DNR)
Subject: FW: Grant Lake Project Natural Resource Studies Meeting Invitation

[Mr. Warnock,](#)

The meeting location would be more convenient to and likely to receive better turnout from staff from the DNR, DML&W, Water Resources Section if the meeting were held at an Anchorage location.

[Mike Walton](#)
[Acting Chief](#)
[Alaska DNR, DML&W, Water Resources Section](#)

From: Plett, Krissy A (DNR)
Sent: Wednesday, October 31, 2012 4:35 PM
To: Swinford, Robin E (DNR)
Cc: Walton, Michael L (DNR); Sager, Kimberly R (DNR)
Subject: FW: Grant Lake Project Natural Resource Studies Meeting Invitation

Please keep an ear out to when this meeting will be scheduled. You and I will be attending.

[Krissy Plett](#)
[Natural Resources Manager I](#)
[Alaska DNR, DML&W, Water Resources Section](#)
[907-269-8641](#)

From: Sager, Kimberly R (DNR)
Sent: Wednesday, October 31, 2012 3:05 PM
To: Walton, Michael L (DNR); Plett, Krissy A (DNR)
Subject: FW: Grant Lake Project Natural Resource Studies Meeting Invitation

Kimberly Sager
Statewide Instream Flow Specialist
Department of Natural Resources
Water Resources Section
550 West 7th Avenue, Suite 1020
Anchorage, Alaska 99501-3514
(907) 269-2033 (office)
(907) 269-8904 (fax)

From: Cory Warnock [<mailto:cwarnock@longviewassociates.com>]
Sent: Wednesday, October 31, 2012 2:55 PM
To: Miller, Monte D (DFG); Ferguson, Jim M (DFG sponsored); Klein, Joseph P (DFG); Mouw, Jason E B (DFG); McKinley, Lee (PCO); tom.capiello@alaska.gov; gary.prokosch@alaska.gov; Sager, Kimberly R (DNR); Goodrum, Brent W (DNR); Swinford, Robin E (DNR); Duvall, Shina A (DNR); Bittner, Judith E (DNR); susan.walker@noaa.gov; ejohansen@fs.fed.us; rspangler@fs.fed.us; kaoleary@fs.fed.us; lynda_kahn@fws.gov; Douglas Palmer (Douglas_Palmer@fws.gov); Jeffry Anderson (Jeffry_Anderson@fws.gov); kenneth.hogan@ferc.gov; douglas_mutter@ios.doi.gov; bstanley@fs.fed.us; cassie.thomas@nps.gov; mbest@borough.kenai.ak.us; phil_brna@fws.gov; north.phil@epa.gov; btreforn@kenaitze.org; kjmushovic@blm.gov; valerie@akcenter.org; mcooney@arctic.net; ricky@kenairiversportfishing.com; jan@hydroreform.org
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Subject: RE: Grant Lake Project Natural Resource Studies Meeting Invitation
Date: Thursday, November 01, 2012 1:06:31 PM

Hi Robin,

Thanks for the heads-up. I'll be waiting till next Tuesday (6th) to make a final determination on meeting site, time, etc. I will let you know soon.

Cory

From: Swinford, Robin E (DNR) [mailto:robin.swinford@alaska.gov]
Sent: Thursday, November 01, 2012 1:00 PM
To: Cory Warnock
Subject: RE: Grant Lake Project Natural Resource Studies Meeting Invitation

Hello Cory,

Due to a previous commitment I am unavailable from Dec. 10th through the 28th. If the meeting is schedule prior to Dec. 10th I can attend. Please keep me informed of the final date.

Robin Swinford
DNR Water Resource Section
269-8637

From: Cory Warnock [mailto:cwarnock@longviewassociates.com]
Sent: Wednesday, October 31, 2012 2:55 PM
To: Miller, Monte D (DFG); Ferguson, Jim M (DFG sponsored); Klein, Joseph P (DFG); Mouw, Jason E B (DFG); McKinley, Lee (PCO); tom.capiello@alaska.gov; gary.prokosch@alaska.gov; Sager, Kimberly R (DNR); Goodrum, Brent W (DNR); Swinford, Robin E (DNR); Duvall, Shina A (DNR); Bittner, Judith E (DNR); susan.walker@noaa.gov; ejohansen@fs.fed.us; rspangler@fs.fed.us; kaoleary@fs.fed.us; lynnda_kahn@fws.gov; Douglas Palmer (Douglas_Palmer@fws.gov); Jeffry Anderson (Jeffry_Anderson@fws.gov); kenneth.hogan@ferc.gov; douglas_mutter@ios.doi.gov; bstanley@fs.fed.us; cassie_thomas@nps.gov; mbest@borough.kenai.ak.us; phil_brna@fws.gov; north.phil@epa.gov; btreforn@kenaitze.org; kjmushovic@blm.gov; valerie@akcenter.org; mcooney@arctic.net; ricky@kenairiversportfishing.com; jan@hydroreform.org
Cc: Salzetti, Mikel; Steve Padula; marissa.emmons@mcmillen-llc.com
Subject: RE: Grant Lake Project Natural Resource Studies Meeting Invitation

Hi Monte,

The location of the meeting was intentionally left open to provide a bit of flexibility to meet the needs of everyone on the stakeholder contact list. Either meeting location will work for HEA. If you can provide your preferred location (Anchorage vs. Kenai) we will incorporate that into our decision related to a meeting date. As I mention in the email, the meeting will take all day. For the sake of preliminary discussion, let's err on the side of caution and go ahead and block out 8:30 to 4:30 for the meeting.

Let me know if you have any other questions/concerns,

Cory

From: Miller, Monte D (DFG) [<mailto:monte.miller@alaska.gov>]
Sent: Wednesday, October 31, 2012 3:47 PM
To: Cory Warnock; Ferguson, Jim M (DFG sponsored); Klein, Joseph P (DFG); Mouw, Jason E B (DFG); McKinley, Lee (PCO); tom.capiello@alaska.gov; gary.prokosch@alaska.gov; Sager, Kimberly R (DNR); Goodrum, Brent W (DNR); Swinford, Robin E (DNR); Duvall, Shina A (DNR); Bittner, Judith E (DNR); susan.walker@noaa.gov; ejohansen@fs.fed.us; rspangler@fs.fed.us; kaoleary@fs.fed.us; lynnda_kahn@fws.gov; Douglas Palmer (Douglas_Palmer@fws.gov); Jeffry Anderson (Jeffry_Anderson@fws.gov); kenneth.hogan@ferc.gov; douglas_mutter@ios.doi.gov; bstanley@fs.fed.us; cassie_thomas@nps.gov; mbest@borough.kenai.ak.us; phil_brna@fws.gov; north.phil@epa.gov; btreforn@kenaitze.org; kjmushovic@blm.gov; valerie@akcenter.org; mcooney@arctic.net; ricky@kenairiversportfishing.com; jan@hydroreform.org
Cc: Salzetti, Mikel; Steve Padula; marissa.emmons@mcmillen-llc.com
Subject: RE: Grant Lake Project Natural Resource Studies Meeting Invitation

Cory,

We appreciate opportunity for discussion of a Grant Lake project meeting. However, the location (city) where the meeting would be held and potential time of day for the meeting will have a bearing on our availability. Please provide more information to allow for our schedule development.

Thanks

Monte D. Miller
Statewide Hydropower Coordinator
Alaska Department of Fish and Game
Division of Sport Fish / RTS
333 Raspberry Road
Anchorage, Alaska, 99518-1565
(907) 267-2312

From: Cory Warnock [<mailto:cwarnock@longviewassociates.com>]
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To: Ferguson, Jim M (DFG sponsored); Klein, Joseph P (DFG); Mouw, Jason E B (DFG); McKinley, Lee (PCO); tom.capiello@alaska.gov; Miller, Monte D (DFG); gary.prokosch@alaska.gov; Sager, Kimberly R (DNR); Goodrum, Brent W (DNR); Swinford, Robin E (DNR); Duvall, Shina A (DNR); Bittner, Judith E (DNR); susan.walker@noaa.gov; ejohansen@fs.fed.us; rspangler@fs.fed.us; kaoleary@fs.fed.us; lynnda_kahn@fws.gov; Douglas Palmer (Douglas_Palmer@fws.gov); Jeffry Anderson (Jeffry_Anderson@fws.gov); kenneth.hogan@ferc.gov; douglas_mutter@ios.doi.gov; bstanley@fs.fed.us; cassie_thomas@nps.gov; mbest@borough.kenai.ak.us; phil_brna@fws.gov; north.phil@epa.gov; btreforn@kenaitze.org; kjmushovic@blm.gov; valerie@akcenter.org; mcooney@arctic.net; ricky@kenairiversportfishing.com; jan@hydroreform.org
Cc: Salzetti, Mikel; Steve Padula; marissa.emmons@mcmillen-llc.com; Cory Warnock
Subject: Grant Lake Project Natural Resource Studies Meeting Invitation

Grant Lake Hydroelectric Project (FERC No. 13212) Natural Resources Study Stakeholder Group:

Homer Electric Association (HEA) is ramping up to continue their natural resource studies for their proposed Grant Lake Hydroelectric Project near Moose Pass, AK. As many of you likely recall, a good

amount of process and natural resource related work was done on the Project in 2009 and 2010, effectively getting the Project to the beginning of the 2nd stage of the TLP licensing process (conducting formal natural resource studies in advance of the Draft License Application). HEA secured a 2nd Preliminary Permit from FERC in March of 2012 and has plans to submit a License Application prior to the expiration of that permit in 2015. Long View Associates has been retained to act as HEA's licensing and process consultant and will assist in managing the natural resource and engineering components of the licensing process. As part of this process, HEA would like to extend an invitation to the respective agency and tribal representatives to attend the Grant Lake Project Natural Resource Studies Meeting. HEA has hired a biological team led by McMillen, LLC to complete the natural resource studies associated with the licensing process. In 2010, natural resource study plans were developed and a formal comment period took place during which stakeholders were given the opportunity to comment on the plans and make substantive requests related to perceived modifications that would make the plans more comprehensive. HEA has reviewed these comments and incorporated a majority of them into the modified and final study plans that will be presented at the meeting. In addition, a matrix has been developed documenting not only the comments that were addressed but also a justification for not incorporating certain comments. The primary goals of the meeting will be to:

- Introduce HEA's Natural Resource Study team to the stakeholders
- Get everyone current on developments associated with the Project
- Provide resource specific presentations outlining individual study approaches
- Display how stakeholder comments were addressed in the study plan modification process
- Present the stakeholders with final study plans for all resource areas
- Present HEA's schedule for completing the natural resource studies and developing a FERC License Application

HEA would like to have the meeting prior to the beginning of the New Year. After internal discussions with our team, we have identified December 12th (Wednesday) as a potential date. HEA appreciates that this time of year can be busy with work and personal commitments. That said and in an effort to be as proactive and inclusive as possible, we would like to get everyone up to speed as far in advance of the formal studies commencing in 2013 as possible. Final details will be worked out in the next few weeks but the meeting will be held in either Anchorage or Kenai and will last the entire work day. HEA has every intention of being as inclusive as possible so if everyone can please check their schedules and respond within the next week regarding their availability, it would be greatly appreciated. Once the final date is established, additional details related to time, location and agenda will follow. This distribution list is based upon a combination of the existing contact list from the last HEA licensing meeting and more recent conversations with specific agency individuals that have indicated they may be representing their entity in upcoming proceedings. If you are no longer the appropriate contact and/or you feel that others within your agency should be made aware, please route this along to the appropriate individuals. Again, HEA would like to have a comprehensive and representative group at this meeting to set the appropriate stage for successful completion of the natural resource studies.

Thank you and we'll look forward to hearing from you regarding your availability for December 12th,

Cory Warnock

Long View Associates

www.longviewassociates.com

5771 Applegrove Ln.

Ferndale, Wa. 98248

O – 360-384-2662

C – 360-739-0187

F – 360-542-2264

From: Cory Warnock
To: ["Susan Walker"](#); [Eric Rothwell](#)
Subject: RE: Grant Lake Project Natural Resource Studies Meeting Invitation
Date: Thursday, November 01, 2012 1:39:31 PM

Hi Sue,

My plan is to make a final call early next week as to the location of the meeting but just so you know, all other responses so far have indicated that they would prefer Anchorage as well.

Eric,

I'll get you added to the contact list.

Cory

From: Susan Walker [mailto:susan.walker@noaa.gov]
Sent: Thursday, November 01, 2012 1:36 PM
To: Eric Rothwell
Cc: Cory Warnock
Subject: Fwd: Grant Lake Project Natural Resource Studies Meeting Invitation

Eric - Here is the grant lake email - and Cory, would you please add Eric Rothwell to the email list? Thanks -

PS - I would prefer Anchorage for the location, but if the majority prefers Kenia I can do that -

Sue

----- Forwarded message -----

From: **Cory Warnock** <cwarnock@longviewassociates.com>
Date: Wed, Oct 31, 2012 at 2:54 PM
Subject: RE: Grant Lake Project Natural Resource Studies Meeting Invitation
To: "Miller, Monte D (DFG)" <monte.miller@alaska.gov>, "Ferguson, Jim M (DFG sponsored)" <jim.ferguson@alaska.gov>, "Klein, Joseph P (DFG)" <joe.klein@alaska.gov>, "Mouw, Jason E B (DFG)" <jason.mouw@alaska.gov>, "McKinley, Lee (PCO)" <william.mckinley@alaska.gov>, "tom.capiello@alaska.gov" <tom.capiello@alaska.gov>, "gary.prokosch@alaska.gov" <gary.prokosch@alaska.gov>, "Sager, Kimberly R (DNR)" <kimberly.sager@alaska.gov>, "Goodrum, Brent W (DNR)" <brent.goodrum@alaska.gov>, "Swinford, Robin E (DNR)" <robin.swinford@alaska.gov>, "Duvall, Shina A (DNR)" <shina.duvall@alaska.gov>, "Bittner, Judith E (DNR)" <judy.bittner@alaska.gov>, "susan.walker@noaa.gov" <susan.walker@noaa.gov>, "ejohansen@fs.fed.us" <ejohansen@fs.fed.us>, "rspangler@fs.fed.us" <rspangler@fs.fed.us>, "kaoleary@fs.fed.us" <kaoleary@fs.fed.us>, "lynnda_kahn@fws.gov" <lynnda_kahn@fws.gov>, "Douglas Palmer (Douglas_Palmer@fws.gov)" <Douglas_Palmer@fws.gov>, "Jeffry Anderson (Jeffry_Anderson@fws.gov)" <Jeffry_Anderson@fws.gov>, "kenneth.hogan@ferc.gov" <kenneth.hogan@ferc.gov>, "douglas_mutter@ios.doi.gov" <douglas_mutter@ios.doi.gov>, "bstanley@fs.fed.us" <bstanley@fs.fed.us>, "cassie_thomas@nps.gov"

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<kjmushovic@blm.gov>, "valerie@akcenter.org" <valerie@akcenter.org>,
"mcooney@arctic.net" <mcooney@arctic.net>, "ricky@kenairiversportfishing.com"
<ricky@kenairiversportfishing.com>, "jan@hydroreform.org" <jan@hydroreform.org>
Cc: "Salzetti, Mikel" <MSalzetti@homerelectric.com>, Steve Padula
<spadula@longviewassociates.com>, "marissa.emmons@mcmillen-llc.com"
<marissa.emmons@mcmillen-llc.com>

Hi Monte,

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Subject: RE: Grant Lake Project Natural Resource Studies Meeting Invitation

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Monte D. Miller

Statewide Hydropower Coordinator

Alaska Department of Fish and Game

Division of Sport Fish / RTS

333 Raspberry Road

Anchorage, Alaska, 99518-1565

[\(907\) 267-2312](tel:9072672312)

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Cc: Salzetti, Mikel; Steve Padula; marissa.emmons@mcmillen-llc.com; Cory Warnock

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 C – [360-739-0187](tel:3607390187)
 F – [360-542-2264](tel:3605422264)

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Sue Walker
 NMFS Hydropower Coordinator
 Alaska Region

P.O. Box 21668
709 W. 9th Street
Juneau, Alaska 99802-1668

907-586-7646
FAX: 907- 586-7358

personal cell phone number - 907-321-8991

From: Lynnda_Kahn@fws.gov
To: [Cory Warnock](mailto:Cory_Warnock)
Cc: monte.miller@alaska.gov; jason.mouw@alaska.gov; Eric.Rothwell@noaa.gov; Jeffry_Anderson@fws.gov
Subject: Grant Lake Project Natural Resource Studies Meeting Invitation
Date: Monday, November 05, 2012 12:47:21 PM

Cory - Due to prior obligations, that date will not work for the USFWS. I will be gone from Dec. 6th - Jan. 7th so if we cannot move this to the week before, preferably Dec. 4th, the Service will not be able to participate until after the 1st of the year. I've spoken with Monte Miller and he's indicated that Dec. 4th works for ADF&G.

At the moment, Jeff and I can participate on Dec. 4th and we believe it would also be beneficial if meetings could be held in both locations, e.g. Anchorage and Kenai/Soldotna. While teleconference works when all else fails, we've consistently found that with the difficulty in hearing everyone talking around the table, it's best to meet face to face. However, with our budgets cut so severely, travel is basically out of the question at this juncture. We'll await your response. Thanks Cory.

Lynnda

▼ Cory Warnock <cwarnock@longviewassociates.com>

Cory Warnock
<cwarnock@longviewassociates.com>

10/31/2012 02:54 PM

To "Miller, Monte D (DFG)"
<monte.miller@alaska.gov>,
"Ferguson, Jim M (DFG sponsored)"
<jim.ferguson@alaska.gov>,"Klein,
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<ricky@kenairiversportfishing.com>,
"jan@hydroreform.org"
<jan@hydroreform.org>
cc"Salzetti, Mikel"
<MSalzetti@HomerElectric.com>,
Steve Padula
<spadula@longviewassociates.com>,
"marissa.emmons@mcmillen-llc.com"
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Subject: Grant Lake Project Natural
Resource Studies Meeting Invitation

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Statewide Hydropower Coordinator

Alaska Department of Fish and Game
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Sent: Wednesday, October 31, 2012 2:34 PM

To: Ferguson, Jim M (DFG sponsored); Klein, Joseph P (DFG); Mouw, Jason E B (DFG); McKinley, Lee (PCO); tom.capiello@alaska.gov; Miller, Monte D (DFG); gary.prokosch@alaska.gov; Sager, Kimberly R (DNR); Goodrum, Brent W (DNR); Swinford, Robin E (DNR); Duvall, Shina A (DNR); Bittner, Judith E (DNR); susan.walker@noaa.gov; ejohansen@fs.fed.us; rspangler@fs.fed.us; kaoleary@fs.fed.us; lynnda_kahn@fws.gov; Douglas Palmer (Douglas_Palmer@fws.gov); Jeffry Anderson (Jeffry_Anderson@fws.gov); kenneth.hogan@ferc.gov; douglas_mutter@ios.doi.gov; bstanley@fs.fed.us; cassie_thomas@nps.gov; mbest@borough.kenai.ak.us; phil_brna@fws.gov; north.phil@epa.gov; btreforn@kenaitze.org; kjmushovic@blm.gov; valerie@akcenter.org; mcooney@arctic.net; ricky@kenairiversportfishing.com; jan@hydroreform.org

Cc: Salzetti, Mikel; Steve Padula; marissa.emmons@mcmillen-llc.com; Cory Warnock

Subject: Grant Lake Project Natural Resource Studies Meeting Invitation

Grant Lake Hydroelectric Project (FERC No. 13212) Natural Resources Study Stakeholder Group:

Homer Electric Association (HEA) is ramping up to continue their natural resource studies for their proposed Grant Lake Hydroelectric Project near Moose Pass, AK. As many of you likely recall, a good amount of process and natural resource related work was done on the Project in 2009 and 2010, effectively getting the Project to the beginning of the 2nd stage of the TLP licensing process (conducting formal natural resource studies in advance of the Draft License Application). HEA secured a 2nd Preliminary Permit from FERC in March of 2012 and has plans to submit a License Application prior to the expiration of that permit in 2015. Long View Associates has been retained to act as HEA's licensing and process consultant and will assist in managing the natural resource and engineering components of the licensing process. As part of this process, HEA would like to extend an invitation to the respective agency and tribal representatives to attend the Grant Lake Project Natural Resource Studies Meeting. HEA has hired a biological team led by McMillen, LLC to complete the natural resource studies associated with the licensing process. In 2010, natural resource study plans were developed and a formal comment period took place during which stakeholders were given the opportunity to comment on the plans and make substantive requests related to perceived modifications that would make the plans more comprehensive. HEA has reviewed these comments and incorporated a majority of them into the modified and final study plans that will be presented at the meeting. In addition, a matrix has been developed documenting not only the comments that were addressed but also a justification for not incorporating certain comments. The primary goals of the meeting will be to:

- Introduce HEA's Natural Resource Study team to the stakeholders
- Get everyone current on developments associated with the Project
- Provide resource specific presentations outlining individual study approaches
- Display how stakeholder comments were addressed in the study plan modification process
- Present the stakeholders with final study plans for all resource areas
- Present HEA's schedule for completing the natural resource studies and developing a FERC License Application

HEA would like to have the meeting prior to the beginning of the New Year. After internal discussions with our team, we have identified December 12th (Wednesday) as a potential date. HEA appreciates that this time of year can be busy with work and personal commitments. That said and in an effort to be as proactive and inclusive as possible, we would like to get everyone up to speed as far in advance of the formal studies commencing in 2013 as possible. Final details will be worked out in the next few weeks but the meeting will be held in either Anchorage or Kenai and will last the entire work day. HEA has every intention of being as

inclusive as possible so if everyone can please check their schedules and respond within the next week regarding their availability, it would be greatly appreciated. Once the final date is established, additional details related to time, location and agenda will follow. This distribution list is based upon a combination of the existing contact list from the last HEA licensing meeting and more recent conversations with specific agency individuals that have indicated they may be representing their entity in upcoming proceedings. If you are no longer the appropriate contact and/or you feel that others within your agency should be made aware, please route this along to the appropriate individuals. Again, HEA would like to have a comprehensive and representative group at this meeting to set the appropriate stage for successful completion of the natural resource studies.

Thank you and we'll look forward to hearing from you regarding your availability for December 12th,

Cory Warnock
Long View Associates

www.longviewassociates.com

5771 Applegrove Ln.
Ferndale, Wa. 98248

O – 360-384-2662
C – 360-739-0187
F – 360-542-2264

From: Cory Warnock
To: ["ginny.litchfield@alaska.gov"](mailto:ginny.litchfield@alaska.gov)
Subject: FW: Grant Lake Project Natural Resources Studies Meeting
Date: Friday, November 09, 2012 12:37:23 PM

Hi Ginny,

Per Lee's request, you have been added to the contact list for these proceedings.

Let me know if you have any questions/concerns going forward,

Cory

Cory Warnock

Long View Associates

www.longviewassociates.com

5771 Applegrove Ln.

Ferndale, Wa. 98248

O – 360-384-2662

C – 360-739-0187

F – 360-542-2264

From: Cory Warnock
Sent: Friday, November 09, 2012 12:33 PM
To: Monte Miller
Cc: Barbara Stanley (bstanley@fs.fed.us); Brenda Trefon (btrefon@kenaitze.org); Brent Goodrum (brent.goodrum@alaska.gov); Cassie Thomas (cassie_thomas@nps.gov); Doug Mutter (douglas_mutter@ios.doi.gov); Doug Palmer (Doug.Palmer@fws.gov); Eric Johansen (ejohansen@fs.fed.us); Eric Rothwell (eric.rothwell@noaa.gov); Jason Mouw (jason.mouw@alaska.gov); Jeffry Anderson (Jeffry_Anderson@fws.gov); Jim Ferguson (jim.ferguson@alaska.gov); Joe Klein (joe.klein@alaska.gov); Judith Bittner (judy.bittner@alaska.gov); K.J. Muschovic (kjmushovic@blm.gov); Karen O'Leary (kaoleary@fs.fed.us); Ken Hogan (kenneth.hogan@ferc.gov); Kim Sager (kimberly.sager@alaska.gov); Lee McKinley (lee.mckinley@alaska.gov); Lynnda Kahn (Lynnda_Kahn@fws.gov); Max Best (mbest@borough.kanai.ak.us); Phil Brna (phil_brna@fws.gov); Phil North (phil.north@epa.gov); Rob Spangler (rspangler@fs.fed.us); Robin Swinford (robin.swinford@alaska.gov); Shina Duvall (shina.duvall@alaska.gov); Sue Walker (susan.walker@noaa.gov); Tom Cappiello (tom.cappiello@alaska.gov); 'msalzetti@homerelectric.com'
Subject: RE: Grant Lake Project Natural Resources Studies Meeting

Hi Monte,

A majority of the responses we received indicated that the 12th would work. In an attempt to accommodate a majority of the individuals involved, we chose to set the date accordingly. I'm in the process of coordinating with Lynnda and attempting some alternate communication options in an effort to discuss the meeting, associated documents and presentations and any

questions/concerns the agency may have. In short, we are making every effort to keep the USFWS informed about the proceedings. As a bit of a preview to the meeting, the study plans that will be presented at the this meeting have already been formally reviewed and commented on by stakeholders, as required by the TLP. HEA has reviewed these comments and incorporated a majority of them into the plans that you'll be seeing at the meeting. The primary objectives of this meeting will be to introduce you to the team that will be completing the studies, remind everyone of the specific methods that will be utilized and display how the comments received during the scoping process were incorporated into these final study plans. We will be providing everyone with copies of the plans for their reference along with all presentation materials and a reference matrix that shows how comments were addressed and where these additions can be found in the plans. HEA will not be requesting an additional round of formal comments.

The public will not be invited to this technical study program meeting as our intent is to have a focused effort primarily intended to integrate the agencies into the remainder of the licensing process and introduce the team that will be completing the studies. This would not be a productive venue to incorporate public participation. Commensurate with this meeting, a notice will be placed with local media outlets documenting that the meeting took place and that formal studies will be taking place in 2013. HEA anticipates public involvement in the process and will hold subsequent meetings with the public and all interested parties availability in mind. Again, HEA is interested in being as proactive and inclusive as possible throughout the remainder of the process.

As questions and concerns come up, don't hesitate to let me know,

Cory

From: Miller, Monte D (DFG) [<mailto:monte.miller@alaska.gov>]

Sent: Friday, November 09, 2012 10:59 AM

To: Cory Warnock; Barbara Stanley (bstanley@fs.fed.us); Brenda Trefon (btrefon@kenaitze.org); Goodrum, Brent W (DNR); Cassie Thomas (cassie_thomas@nps.gov); douglas_mutter@ios.doi.gov; Doug Palmer (Doug.Palmer@fws.gov); Eric Johansen (ejohansen@fs.fed.us); Eric Rothwell (eric.rothwell@noaa.gov); Gary Prokosch (gary.prokosch@alaska.gov); Mouw, Jason E B (DFG); Jeffrey Anderson (Jeffery_Anderson@fws.gov); Ferguson, Jim M (DFG sponsored); Klein, Joseph P (DFG); Bittner, Judith E (DNR); K.J. Muschovic (kjmushovic@blm.gov); Karen O'Leary (kaoleary@fs.fed.us); Ken Hogan (kenneth.hogan@ferc.gov); Sager, Kimberly R (DNR); McKinley, Lee (PCO); lynnda_kahn@fws.gov; Max Best (mbest@borough.kanai.ak.us); Phil Brna (phil_brna@fws.gov); Phil North (north.phil@epa.gov); Rob Spangler (rspangler@fs.fed.us); Swinford, Robin E (DNR); Duvall, Shina A (DNR); Sue Walker (mailto:susan.walker@noaa.gov); Tom Capiello (tom.capiello@alaska.gov); valerie@akcenter.org

Subject: RE: Grant Lake Project Natural Resources Studies Meeting

Cory,

I will be available to attend an Anchorage meeting in person on either the 12th as proposed by Longview, or on December 4th as requested by Lynnda Kahn of the USFWS. If the USFWS Kenai Peninsula staff have to defer any action or review until sometime in January, there will be a missing component in the development of 2013 study plans. Their participation is important to this process. Will this meeting be open to the public? There is a level of controversy surrounding this project which has reached a political level. Open

meetings can be problematic but an open process with meetings in both Anchorage and the Soldotna area could be beneficial to public information.

Monte D. Miller
Statewide Hydropower Coordinator
Alaska Department of Fish and Game
Division of Sport Fish / RTS
333 Raspberry Road
Anchorage, Alaska, 99518-1565
(907) 267-2312

From: Cory Warnock [<mailto:cwarnock@longviewassociates.com>]

Sent: Friday, November 09, 2012 8:22 AM

To: Barbara Stanley (bstanley@fs.fed.us); Brenda Trefon (btrefon@kenaitze.org); Goodrum, Brent W (DNR); Cassie Thomas (cassie_thomas@nps.gov); douglas_mutter@ios.doi.gov; Doug Palmer (Doug.Palmer@fws.gov); Eric Johansen (ejohansen@fs.fed.us); Eric Rothwell (eric.rothwell@noaa.gov); Gary Prokosch (gary.prokosch@alaska.gov); Mouw, Jason E B (DFG); Jeffrey Anderson (Jeffery_Anderson@fws.gov); Ferguson, Jim M (DFG sponsored); Klein, Joseph P (DFG); Bittner, Judith E (DNR); K.J. Muschovic (kjmushovic@blm.gov); Karen O'Leary (kaoleary@fs.fed.us); Ken Hogan (kenneth.hogan@ferc.gov); Sager, Kimberly R (DNR); McKinley, Lee (PCO); lynnda_kahn@fws.gov; Max Best (mbest@borough.kanai.ak.us); Miller, Monte D (DFG); Phil Brna (phil_brna@fws.gov); Phil North (north.phil@epa.gov); Rob Spangler (rspangler@fs.fed.us); Swinford, Robin E (DNR); Duvall, Shina A (DNR); Sue Walker (<mailto:susan.walker@noaa.gov>); Tom Capiello (tom.capiello@alaska.gov); valerie@akcenter.org

Subject: Grant Lake Project Natural Resources Studies Meeting

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A follow-up email will be sent out in approximately two weeks documenting the specific meeting start time and location. An agenda and connection information for remote webinar services will also be included. In order to secure meeting facilities that will accommodate everyone that plans to attend, we would appreciate you all responding to this email confirming your intent to attend in-person, via webinar or to not attend. We feel that it is important to meet now to proactively prepare for the 2013 study season. Following this path will allow HEA enough time to adequately discuss the studies with the stakeholders and fully develop logistical and permitting components related to 2013 work. We look forward to all of your participation moving forward.

Please don't hesitate to contact me with any questions or concerns,

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Subject: RE: Grant Lake Project Natural Resources Studies Meeting
Date: Friday, November 09, 2012 12:33:15 PM

Hi Monte,

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Please don't hesitate to contact me with any questions or concerns,

Cory Warnock

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5771 Applegrove Ln.

Ferndale, Wa. 98248

O – 360-384-2662

C – 360-739-0187

F – 360-542-2264

From: Cory Warnock
To: ["Goodrum, Brent W \(DNR\)"](#)
Cc: [Schade, David W \(DNR\)](#); [Deats, Theodore A \(DNR\)](#)
Subject: RE: Grant Lake Project Natural Resources Studies Meeting
Date: Friday, November 09, 2012 4:06:15 PM

Thanks, Brent. I'll get the appropriate folks added to the contact list.

Look forward to meeting you,

Cory

From: Goodrum, Brent W (DNR) [<mailto:brent.goodrum@alaska.gov>]
Sent: Friday, November 09, 2012 4:03 PM
To: Cory Warnock
Cc: Schade, David W (DNR); Deats, Theodore A (DNR)
Subject: RE: Grant Lake Project Natural Resources Studies Meeting

Cory,

Thanks for the information below. Dave Schade has assumed duties as the Water Section chief for the Division of Mining, Land and Water post Gary Prokosch's retirement from that position earlier this year. Dave will be the Division's POC and Ted Deats will work the project with Dave's oversight and guidance.

We look forward to participating.

Very Respectfully,

Brent Goodrum

Director, Division of Mining, Land & Water
Department of Natural Resources
Work: 907-269-8600
Fax: 907-269-8904
brent.goodrum@alaska.gov

"Never stop improving!"

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Sent: Friday, November 09, 2012 8:22 AM
To: Barbara Stanley (bstanley@fs.fed.us); Brenda Trefon (btrefon@kenaitze.org); Goodrum, Brent W (DNR); Cassie Thomas (cassie_thomas@nps.gov); douglas_mutter@ios.doi.gov; Doug Palmer (Doug.Palmer@fws.gov); Eric Johansen (ejohansen@fs.fed.us); Eric Rothwell (eric.rothwell@noaa.gov); Gary Prokosch (gary.prokosch@alaska.gov); Mouw, Jason E B (DFG); Jeffrey Anderson (Jeffery_Anderson@fws.gov); Ferguson, Jim M (DFG sponsored); Klein, Joseph P (DFG); Bittner, Judith E (DNR); K.J. Muschovic (kjmushovic@blm.gov); Karen O'Leary (kaoleary@fs.fed.us); Ken Hogan

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F – 360-542-2264

From: Cory Warnock
To: [Barbara Stanley \(bstanley@fs.fed.us\)](mailto:bstanley@fs.fed.us); [Brenda Trefon \(btrefon@kenaitze.org\)](mailto:btrefon@kenaitze.org); [Brent Goodrum \(brent.goodrum@alaska.gov\)](mailto:brent.goodrum@alaska.gov); [Cassie Thomas \(cassie_thomas@nps.gov\)](mailto:cassie_thomas@nps.gov); [Doug Mutter \(douglas_mutter@ios.doi.gov\)](mailto:douglas_mutter@ios.doi.gov); [Doug Palmer \(Doug.Palmer@fws.gov\)](mailto:Doug.Palmer@fws.gov); [Eric Johansen \(ejohansen@fs.fed.us\)](mailto:ejohansen@fs.fed.us); [Eric Rothwell \(eric.rothwell@noaa.gov\)](mailto:eric.rothwell@noaa.gov); [Gary Prokosch \(gary.prokosch@alaska.gov\)](mailto:gary.prokosch@alaska.gov); [Jason Mouw \(jason.mouw@alaska.gov\)](mailto:jason.mouw@alaska.gov); [Jeffrey Anderson \(Jeffery_Anderson@fws.gov\)](mailto:Jeffery_Anderson@fws.gov); [Jim Ferguson \(jim.ferguson@alaska.gov\)](mailto:jim.ferguson@alaska.gov); [Joe Klein \(joe.klein@alaska.gov\)](mailto:joe.klein@alaska.gov); [Judith Bittner \(judy.bittner@alaska.gov\)](mailto:judy.bittner@alaska.gov); [K.J. Muschovic \(kjmushovic@blm.gov\)](mailto:K.J.Muschovic@blm.gov); [Karen O'Leary \(kaoleary@fs.fed.us\)](mailto:kaoleary@fs.fed.us); [Ken Hogan \(kenneth.hogan@ferc.gov\)](mailto:kenneth.hogan@ferc.gov); [Kim Sager \(kimberly.sager@alaska.gov\)](mailto:kimberly.sager@alaska.gov); [Lee McKinley \(lee.mckinley@alaska.gov\)](mailto:lee.mckinley@alaska.gov); [Lynnda Kahn \(Lynnda_Kahn@fws.gov\)](mailto:Lynnda_Kahn@fws.gov); [Max Best \(mbest@borough.kanai.ak.us\)](mailto:mbest@borough.kanai.ak.us); [Monte Miller \(monte.miller@alaska.gov\)](mailto:monte.miller@alaska.gov); [Phil Brna \(phil_brna@fws.gov\)](mailto:phil_brna@fws.gov); [Phil North \(north.phil@epa.gov\)](mailto:north.phil@epa.gov); [Rob Spangler \(rspangler@fs.fed.us\)](mailto:rspangler@fs.fed.us); [Robin Swinford \(robin.swinford@alaska.gov\)](mailto:robin.swinford@alaska.gov); [Shina Duvall \(shina.duvall@alaska.gov\)](mailto:shina.duvall@alaska.gov); [Sue Walker \(mailto:susan.walker@noaa.gov\)](mailto:sue.walker@noaa.gov); [Tom Capiello \(tom.capiello@alaska.gov\)](mailto:tom.capiello@alaska.gov); valerie@akcenter.org
Subject: Grant Lake Project Natural Resources Studies Meeting
Date: Friday, November 09, 2012 9:21:58 AM

Grant Lake Hydroelectric Project (FERC No. 13212) Natural Resources Study Stakeholder Group:

Thank you for responding to our proposed meeting date email for the Grant Lake Project in reference to the Grant Lake Project Natural Resource Studies Meeting Invitation. After hearing back from a good portion of you, the consensus is to hold the meeting on December 12th in Anchorage, as initially proposed. Given the time of year and the number of individuals involved, we were unable to accommodate everyone on the contact list. For those individuals/entities that are unable to attend in person, a conference call line and webinar service will be provided to allow for remote attendance. If you are unable to attend at all, the revised study plans, PowerPoint presentations and meeting minutes will be available for your review on the Kenai Hydro website after the meeting and you will obviously still be privy to all e-mails leading up to the meeting.

A follow-up email will be sent out in approximately two weeks documenting the specific meeting start time and location. An agenda and connection information for remote webinar services will also be included. In order to secure meeting facilities that will accommodate everyone that plans to attend, we would appreciate you all responding to this email confirming your intent to attend in-person, via webinar or to not attend. We feel that it is important to meet now to proactively prepare for the 2013 study season. Following this path will allow HEA enough time to adequately discuss the studies with the stakeholders and fully develop logistical and permitting components related to 2013 work. We look forward to all of your participation moving forward.

Please don't hesitate to contact me with any questions or concerns,

Cory Warnock

Long View Associates

www.longviewassociates.com

5771 Applegrove Ln.

Ferndale, Wa. 98248

O – 360-384-2662

C – 360-739-0187

F – 360-542-2264

Emily Andersen

From: Amal Ajmi
Sent: Friday, November 09, 2012 12:12 PM
To: 'mbenoit@fs.fed.us'
Subject: Introduction

Follow Up Flag: Follow up
Flag Status: Flagged

Hello Ms. Benoit,

My name is Amal Ajmi and have recently come on board with the Grant Lake project. I have been working my way through the communications you had with Sirena Brownlee of HDR.

I thought I would introduce myself. I have been a resident of Fairbanks for 20+ years. I have worked with songbirds in the interior for 15+ years. I have many hours as an observer for wildlife (moose, bison, swan, raptor nests, and caribou) aerial surveys for both the state and for the USARMY as there wildlife biologist from 2005 – 2012. I am new to the world of consulting and to this project. I have been given the responsibilities of completing:

- Goshawk Nest Ground-Based Surveys (Broadcast Acoustical Surveys),
- Breeding Landbirds and Shorebirds,
- Winter Waterbird Survey, and
- Winter use by moose (surveys).

I have been informed that all other terrestrial work has been deemed completed by the client, and no further investigations are required. I have also been informed that I will be utilizing the established methodology to complete the four remaining surveys for the terrestrial component of this project.

I am working out a rough schedule for field work in 2013 and 2014.

- Goshawk Nest Ground-Based Surveys (Broadcast Acoustical Surveys): There will be 2 surveys / year, for 2 years. I was hoping to conduct the surveys in June, and early-July both years. Based on your communications, this falls into the USFS timeline.
- Breeding Landbirds and Shorebirds. I am hope to conduct 2 surveys using ALMS methodology (as stipulated in the project scope) in mid-May and June 2013. The reasoning for 2 surveys is to capture both resident breeders (mid-May) and migrants (June). Also, resampling will provide more information for analysis.
- Winter Waterbird Survey. There will be two surveys conducted during the winter of 2013-2014. The plan, currently, is to snow shoe in, and document (as stipulated) waterfowl on any open water on the lake. Surveys would most likely be November-December 2013, and February-March 2014.
- Winter use by moose. Two aerial survey flights would most likely be flown during the same time periods of the Winter Waterbird Surveys.

I am currently going through all work relevant to my tasks in preparation for agency meetings in Decmeber. I look forward to working with you on this project. If you have any questions, or better, suggestions, please contact me by phone or email.

Regards,
Amal Ajmi
Senior Wildlife Scientist

OASIS Environmental Inc., an ERM Company
748 Gaffney Rd., Suite 102
Fairbanks, AK 99701

907-458-8273

amal.ajmi@erm.com
www.erm.com

From: Benoit, Mary A -FS <mbenoit@fs.fed.us>
Sent: Tuesday, November 13, 2012 10:05 AM
To: Amal Ajmi
Subject: RE: Introduction

Follow Up Flag: Follow up
Flag Status: Flagged

Hi, no, there are no ALMS survey plots there and we have not done any other neo-tropical birds surveys in that area.

Mary Ann Benoit
Wildlife Biologist
Seward Ranger District
Region 10, Chugach National Forest
PO Box 390 (334 Fourth Ave)
Seward, Alaska 99664

907-288-7747
907-288-5111 (fax)
907-362-5006 (cell)
mbenoit@fs.fed.us

From: Amal Ajmi [<mailto:amal.ajmi@erm.com>]
Sent: Monday, November 12, 2012 9:15 AM
To: Benoit, Mary A -FS
Subject: RE: Introduction

Morning Mary Ann,
I was wondering, is the Grant Lake area in proximity to any ALMS grids that have been run? Or have there been any off-road point count surveys conducted in the area? I have been looking through the FS and Kenai NWR checklists, but am hoping to find something more applicable to the "study area". I figured I would ask you first before trying Colleen at USGS or Steve at USFWS. Thanks for any help.

Amal Ajmi
Senior Wildlife Scientist

OASIS Environmental Inc., an ERM Company
748 Gaffney Rd., Suite 102
Fairbanks, AK 99701

907-458-8273

amal.ajmi@erm.com
www.erm.com

From: Cory Warnock
Sent: Wednesday, November 14, 2012 11:26 AM
To: Ken Hogan
Cc: Emily Andersen
Subject: FW: Grant Lake Hydroelectric Project Call

Hi Ken,

I have not heard back from you regarding the message below. I left a voicemail for you as well a little over a week ago. As time permits, I'd appreciate hearing back from you regarding your thoughts on setting up a call as outlined below.

Thanks for your attention to this,

Cory

From: Cory Warnock
Sent: Friday, October 26, 2012 8:05 PM
To: 'kenneth.hogan@ferc.gov'
Cc: 'Salzetti, Mikel'
Subject: Grant Lake Hydroelectric Project Call

Hi Ken,

My name is Cory Warnock and I work for Long View Associates. We worked together a few years ago during the relicensing of the Packwood Hydro Project in Washington State. I am currently assisting Homer Electric Association (HEA) with their original licensing process associated with the proposed Grant Lake Project near Moose Pass on the Kenai Peninsula in Alaska. As you likely recall, a good amount of process and natural resource related work was done on the Project in 2009 and 2010 essentially getting us to the beginning of the 2nd stage of the TLP process. Due to some issues, HEA put the Project on a brief hold and is now resuming the process where it left off in 2010. HEA secured a 2nd Preliminary Permit in March of 2012 and has plans to submit a License Application prior to the expiration of that permit in 2015. With that as a brief background, HEA would like to set-up a brief call with you and a couple of point individuals on the natural resource study team to fully update you on developments and plans as well as get your feedback related to the approach and schedule that we are generally planning for. We'd very much appreciate the opportunity to proactively brief you and answer any questions you may have. It is likely that our group will have a few inquiries for you also.

I'm sure you have a busy schedule so my intent is to let you suggest a day and time for the call and I'll do my best to coordinate our team to meet your needs. Our general hope was to have a call with you sometime late next week or early the week following but we are flexible depending on your obligations. If you could let me know what will work for you, I'll touch base with our folks and get something finalized.

Thanks for your time,

Cory

Cory Warnock
Long View Associates
www.longviewassociates.com

Grant Lake Hydroelectric Project (FERC No. 13212) Licensing

Consultation Record

Phone/E-mail /One on One Meeting Log

Contact Name: Ken Hogan

Agency/Organization: FERC

Phone No./E-mail Address: 202-502-8434/kenneth.hogan@ferc.gov

Date: 11/14/12

Time: 12:00pm

Grant Lake Licensing Team Contact: Cory Warnock

Summary of Conversation and/or E-mail Exchange: Cory Warnock and Ken Hogan had a discussion related to HEA's general approach on reintegrating the stakeholders into the licensing process via a stakeholder meeting in Anchorage on December 12, 2012. Cory and Ken discussed the unique nature of this situation in that, the delay from 2010 to present has created a potential scenario where certain individuals would be new to the process due to turnover at the various agencies.

Cory informed Ken that a formal comment period associated with the natural resource study plans had occurred in 2010 and HEA had amended the study plans accordingly, per TLP requirements. Cory stated that it was not HEA's intention to open the discussion to another round of comments given that the TLP protocol had been followed. Ken agreed that this approach was appropriate and stated that TLP regulations had been followed to date. Ken asked if HEA would be willing to discuss and potentially amend plans relative to comments that were formally submitted that HEA chose not to adopt into the plans in 2010. Cory stated that if there were outstanding questions related to comments from 2010, HEA would be willing to discuss those and potentially add to the respective study plan if it was determined that they were justifiable and made the study more comprehensive related to potential impacts.

Cory asked Ken if he'd like to participate in the meeting on December 12th via a webinar. Ken said he was available and would likely attend. Ken added that as questions come up to not hesitate to contact him. Cory committed to providing additional meeting details as they developed. The call lasted approximately 15 minutes.

From: Cory Warnock
To: valerie@akcenter.org; mcooney@arctic.net; ricky@kenairiversportfishing.com; jan@hydroreform.org
Subject: Grant Lake Project Natural Resources Studies Meeting
Date: Wednesday, November 14, 2012 8:57:25 AM

Grant Lake Hydroelectric Project (FERC No. 13212) Natural Resources Study Stakeholder Group:

Thank you for responding to our proposed meeting date email for the Grant Lake Project in reference to the Grant Lake Project Natural Resource Studies Meeting Invitation. After hearing back from a good portion of you, the consensus is to hold the meeting on December 12th in Anchorage, as initially proposed. Given the time of year and the number of individuals involved, we were unable to accommodate everyone on the contact list. For those individuals/entities that are unable to attend in person, a conference call line and webinar service will be provided to allow for remote attendance. If you are unable to attend at all, the revised study plans, PowerPoint presentations and meeting minutes will be available for your review on the Kenai Hydro website after the meeting and you will obviously still be privy to all e-mails leading up to the meeting.

A follow-up email will be sent out in approximately two weeks documenting the specific meeting start time and location. An agenda and connection information for remote webinar services will also be included. In order to secure meeting facilities that will accommodate everyone that plans to attend, we would appreciate you all responding to this email confirming your intent to attend in-person, via webinar or to not attend. We feel that it is important to meet now to proactively prepare for the 2013 study season. Following this path will allow HEA enough time to adequately discuss the studies with the stakeholders and fully develop logistical and permitting components related to 2013 work. We look forward to all of your participation moving forward.

Please don't hesitate to contact me with any questions or concerns,

Cory Warnock

Long View Associates

www.longviewassociates.com

5771 Applegrove Ln.

Ferndale, Wa. 98248

O – 360-384-2662

C – 360-739-0187

F – 360-542-2264

From: Cory Warnock
Sent: Friday, November 16, 2012 2:26 PM
To: dott@aidea.org
Cc: Mike Salzetti; Emily Andersen
Subject: FW: Grant Lake Project Natural Resources Studies Meeting

Hi Doug,

In speaking with Mike Salzetti today, it became apparent to me that I was remiss in not distributing Grant Lake licensing notifications to you. I have incorporated you into our contact list and you will receive all correspondence associated with the Project.

My apologies and let me know if you have any questions/concerns,

Cory Warnock

From: Cory Warnock
Sent: Friday, November 09, 2012 9:22 AM
To: Barbara Stanley (bstanley@fs.fed.us); Brenda Trefon (btrefon@kenaitze.org); Brent Goodrum (brent.goodrum@alaska.gov); Cassie Thomas (cassie_thomas@nps.gov); Doug Mutter (douglas_mutter@ios.doi.gov); Doug Palmer (Doug.Palmer@fws.gov); Eric Johansen (ejohansen@fs.fed.us); Eric Rothwell (eric.rothwell@noaa.gov); Gary Prokosch (gary.prokosch@alaska.gov); Jason Mouw (jason.mouw@alaska.gov); Jeffrey Anderson (Jeffery_Anderson@fws.gov); Jim Ferguson (jim.ferguson@alaska.gov); Joe Klein (joe.klein@alaska.gov); Judith Bittner (judy.bittner@alaska.gov); K.J. Muschovic (kjmushovic@blm.gov); Karen O'Leary (kaoleary@fs.fed.us); Ken Hogan (kenneth.hogan@ferc.gov); Kim Sager (kimberly.sager@alaska.gov); Lee McKinley (lee.mckinley@alaska.gov); Lynnnda Kahn (Lynnnda_Kahn@fws.gov); Max Best (mbest@borough.kanai.ak.us); Monte Miller (monte.miller@alaska.gov); Phil Brna (phil_brna@fws.gov); Phil North (north.phil@epa.gov); Rob Spangler (rspangler@fs.fed.us); Robin Swinford (robin.swinford@alaska.gov); Shina Duvall (shina.duvall@alaska.gov); Sue Walker (mailto:susan.walker@noaa.gov); Tom Capiello (tom.capiello@alaska.gov); valerie@akcenter.org
Subject: Grant Lake Project Natural Resources Studies Meeting

Grant Lake Hydroelectric Project (FERC No. 13212) Natural Resources Study Stakeholder Group:

Thank you for responding to our proposed meeting date email for the Grant Lake Project in reference to the Grant Lake Project Natural Resource Studies Meeting Invitation. After hearing back from a good portion of you, the consensus is to hold the meeting on December 12th in Anchorage, as initially proposed. Given the time of year and the number of individuals involved, we were unable to accommodate everyone on the contact list. For those individuals/entities that are unable to attend in person, a conference call line and webinar service will be provided to allow for remote attendance. If you are unable to attend at all, the revised study plans, PowerPoint presentations and meeting minutes will be available for your review on the Kenai Hydro website after the meeting and you will obviously still be privy to all e-mails leading up to the meeting.

A follow-up email will be sent out in approximately two weeks documenting the specific meeting start time and location. An agenda and connection information for remote webinar services will also be included. In order to secure meeting facilities that will accommodate everyone that plans to attend, we would appreciate you all responding to this email confirming your intent to attend in-person, via webinar or to not attend. We feel that it is important to meet now to proactively prepare for the 2013 study season. Following this path will allow HEA enough time to adequately discuss the studies with the stakeholders and fully develop logistical and permitting components related to 2013 work. We look forward to all of your participation moving forward.

Please don't hesitate to contact me with any questions or concerns,

Cory Warnock

Long View Associates

www.longviewassociates.com

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Ferndale, Wa. 98248

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F – 360-542-2264

From: Cory Warnock
Sent: Monday, November 19, 2012 9:40 AM
To: Kahn, Lynnda
Cc: Jeffry_Anderson@fws.gov; Emily Andersen; Douglas Palmer; Mike Salzetti
Subject: RE: FW: Call w/USFWS after Grant Lake Stakeholder Meeting

Hi Lynnda,

In the future, that will be done. This initial invite was a bit difficult given the turnover associated with various representatives. A primary intent of the invite was to re-connect with everyone and ensure that the appropriate individuals had been identified for the remainder of the process. I fully understand that these initial discussions are important and we did our best to be as inclusive as possible, given the circumstances and need to begin moving forward with planning for 2013. I will do my very best to get you up to speed on the meeting during our phone call and assure you that your schedule will be a primary focus going forward.

Happy Thanksgiving to you as well. Talk to you soon,

Cory

From: Kahn, Lynnda [mailto:lynnda_kahn@fws.gov]
Sent: Monday, November 19, 2012 9:08 AM
To: Cory Warnock
Cc: Jeffry_Anderson@fws.gov; Emily Andersen; Douglas Palmer
Subject: Re: FW: Call w/USFWS after Grant Lake Stakeholder Meeting

Cory - In the future, we encourage you to send out a "doodle poll" or similar when scheduling meetings, to ensure agency representatives have a better opportunity to participate in these important discussions. Thanks and have a Happy Thanksgiving Cory.

Lynnda

On Mon, Nov 19, 2012 at 7:40 AM, Cory Warnock <cwarnock@longviewassociates.com> wrote:

Thanks for the heads-up, Lynnda. Keep me posted on your preferred timeline and we'll make it work.

Cory

From: Kahn, Lynnda [mailto:lynnda_kahn@fws.gov]
Sent: Monday, November 19, 2012 8:40 AM
To: Cory Warnock
Cc: Jeffry_Anderson@fws.gov; Emily Andersen
Subject: Re: FW: Call w/USFWS after Grant Lake Stakeholder Meeting

Cory - Jeff is going to be up in Anchorage for other meetings on the 12th. If he has time he will try to make it.

If not, I will not return until Jan. 8th. A phone call will have to wait until later that week or the following week. Thanks.

Lynnda

On Fri, Nov 16, 2012 at 1:34 PM, <cwarnock@longviewassociates.com> wrote:

Hi Lynnda,

I haven't heard back from you regarding the potential to set up a phone call, as discussed below. Let me know if this would be of interest,

Cory

From: Cory Warnock

Sent: Friday, November 09, 2012 9:14 AM

To: Lynnda Kahn

Subject: Call w/USFWS after Grant Lake Stakeholder Meeting

Hi Lynnda,

Unfortunately, we were unable to accommodate a December 4th meeting date. The meeting will be held on December 12th, in Anchorage. We will provide remote access via a webinar and conference call line if remote access is an option. Additionally, all meeting documents (study plans, presentations and meeting minutes), will be posted to the Kenai Hydro website for review. In addition to these steps, I'd like to offer to have a call with you and any other individuals at your agency to personally go over any questions/comments you may have associated with the meeting materials and the process going forward. I think this call would be more efficiently conducted after the meeting on the 12th. To that end and if you are interested, I'll let you propose a date and time after the 12th that will work for you. My hope is that some personal communication after your document review will assist in bridging the gap that may exist due to your inability to attend.

HEA has every intent of being as inclusive and proactive as possible during the remainder of the licensing process and we look forward to working collaboratively with the USFWS. Feel free to contact me at your convenience related to your availability for both the aforementioned conversation and any other questions/concerns you may have,

Cory

Cory Warnock

Long View Associates

www.longviewassociates.com

From: Cory Warnock
Sent: Monday, November 26, 2012 3:41 PM
To: Barbara Stanley (bstanley@fs.fed.us); Brenda Trefon (btrefon@kenaitze.org); Brent Goodrum (brent.goodrum@alaska.gov); Cassie Thomas (cassie_thomas@nps.gov); David Schade (david.w.schade@alaska.gov); Doug Mutter (douglas_mutter@ios.doi.gov); Doug Ott (dott@aidea.org); Doug Palmer (Doug.Palmer@fws.gov); Eric Johansen (ejohansen@fs.fed.us); Eric Rothwell (eric.rothwell@noaa.gov); Ginny Litchfield (ginny.litchfield@alaska.gov); Jan Konigsberg (jan@hydroreform.org); Jason Mouw (jason.mouw@alaska.gov); Jeffry Anderson (Jeffry_Anderson@fws.gov); Jim Ferguson (jim.ferguson@alaska.gov); Joe Klein (joe.klein@alaska.gov); Judith Bittner (judy.bittner@alaska.gov); K.J. Muschovic (kjmushovic@blm.gov); Karen O'Leary (kaoleary@fs.fed.us); Ken Hogan (kenneth.hogan@ferc.gov); Kim Sager (kimberly.sager@alaska.gov); Lynnda Kahn (Lynnda_Kahn@fws.gov); Max Best (mbest@borough.kanai.ak.us); Mike Cooney (mcooney@arctic.net); Monte Miller (monte.miller@alaska.gov); Phil Brna (phil_brna@fws.gov); Phil North (north.phil@epa.gov); Ricky Gease (ricky@kenairiversportfishing.com); Rob Spangler (rspangler@fs.fed.us); Robin Swinford (robin.swinford@alaska.gov); Shina Duvall (shina.duvall@alaska.gov); Sue Walker (susan.walker@noaa.gov); Ted Deats (ted.deats@alaska.gov); Tom Cappiello (tom.cappiello@alaska.gov); Valerie Conner (valerie@akcenter.org)
Cc: Mike Salzetti (msalzetti@homerelectric.com); Marissa Emmons (marissa.emmons@mcmillen-llc.com); Emily Andersen; Charles Sauvageau; John Gangemi; Michael Yarborough; John Blum; Dwayne Adams
Subject: Grant Lake Hydroelectric Project Natural Resources Study Meeting Agenda
Attachments: Grant Lake Hydroelectric Project Natural Resources Study Meeting Agenda.doc

Grant Lake Hydroelectric Project (FERC No. 13212) Natural Resources Study Stakeholder Group:

Attached, you'll find the agenda for the upcoming Grant Lake Natural Resource Studies Meeting on December 12th in Anchorage. Incorporated into the agenda are both the meeting location and audio/video connection information for the webinar service for those that won't be attending in person. We've put forth a relatively aggressive schedule for the day. As such, we'd anticipate needing the full meeting time (8-5), to go over all of the natural resource areas, in detail.

Let me know if you have any questions/concerns and we look forward to seeing/hearing you on the 12th.

Cory

Cory Warnock
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O – 360-384-2662
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F – 360-542-2264

Grant Lake Hydroelectric Project (FERC No. 13212)
Grant Lake Project Natural Resources Studies Meeting
December 12, 2012
Residence Inn Midtown, 1025 35th Ave., Anchorage, AK
8:00 am to 5:00 pm

8:00am – 8:15am

- **Introductions and Agenda (C. Warnock)**
 - Introductions
 - Meeting intent
 - Agenda

8:15am – 9:00am

- **Project Overview and Update (M. Salzetti)**
 - HEA Introduction
 - History
 - Project description/development

9:00am – 9:30am

- **Licensing Path Forward (C. Warnock)**
 - Where are we in the process?
 - Path forward
 - Anticipated Schedule
 - Study plans and matrix

9:30am – 9:45am

- **Break**

9:45am – 10:15am

- **Natural Resource Studies (C. Warnock)**
 - Introduction to McMillen Team
 - Point individuals

10:15am – 11:45pm

- **Aquatic Resources Presentation (J. Stevenson/J. Blum)**
 - Review of work done to date
 - Tasks remaining
 - Plan for 2013
 - Schedule
 - Stakeholder comments and how they were addressed
 - Permitting
 - Questions/Comments

11:45pm – 12:45pm

- **Lunch (on your own)**

*Snacks to be provided during the day

12:45pm – 1:45pm

- **Water Resources Presentation (C. Sauvageau)**
 - Review of work done to date
 - Tasks remaining
 - Plan for 2013
 - Schedule
 - Stakeholder comments and how they were addressed
 - Permitting
 - Questions/Comments

1:45pm – 2:45pm

- **Terrestrial Resources Presentation (J. Gangemi)**
 - Review of work done to date
 - Tasks remaining
 - Plan for 2013
 - Schedule
 - Stakeholder comments and how they were addressed
 - Permitting
 - Questions/Comments

2:45pm – 3:00pm

- **Break**

3:00pm – 3:45pm

Cultural Resources Presentation (M. Yarborough)

- Review of work done to date
- Tasks remaining
- Plan for 2013
- Schedule
- Stakeholder comments and how they were addressed
- Permitting
- Questions/Comments

3:45pm – 4:30pm

- **Recreational and Visual Resources Presentation (D. Adams)**
 - Review of work done to date
 - Tasks remaining
 - Plan for 2013
 - Schedule
 - Stakeholder comments and how they were addressed
 - Permitting
 - Questions/Comments

4:30pm-5:00pm

- Next steps
- Website and SharePoint posting
- Global questions/comments

5:00pm

- Adjourn

*For those participating via webinar, the information below will allow you to see and hear the proceedings. Software install only takes a few seconds.

1. Please join my meeting.

<https://www3.gotomeeting.com/join/232775326>

2. Use your microphone and speakers (VoIP) - a headset is recommended. Or, call in using your telephone.

Dial +1 (510) 443-0605

Access Code: 232-775-326

Audio PIN: Shown after joining the meeting

Meeting ID: 232-775-326

Record of Conversation

WO#: 1371300

PROJECT: Grant Lake Hydro

DATE: 11/27/2012

TIME: 12:58

PHONE #:

TALKED TO: Alaska DNR, Cliff Larson

BY: Dwayne Adams

SUBJECT: Permit Requirements

Conversation:

I asked whether a permit would be required for the work anticipated for visual/recreational survey/site work that will take place in February/March and this summer. I explained we would be skiing/snowshoeing/snowmachining and using trails for access to the Grant Lake and the general project area. We would anticipate no camps, clearing, or permanent installations as part of our work. It would include one or two people.

Response: The lakeshore of Upper Kenai Lake lies within the Kenai River Special Management Area (KRSMA). As long as no permanent structures will be required (gaging stations or docks would be examples) and we would have fewer than 50 people, our proposed use would be considered "generally allowed use".

ACTION REQUIRED:

None

RECORD OF CONVERSATION / MEMO TO FILE

From: Laves, Kevin -FS <klaves@fs.fed.us>
Sent: Tuesday, November 27, 2012 12:34 PM
To: Amal Ajmi
Subject: RE: USFS Contacts for Agency meetings

Hi Amal...

At least one (maybe both) of Robert Stovall (Deputy District Ranger) and Travis Moseley (District Ranger) will be attending the meeting on the 12th. Robert suggested that you could ask the question about permits required at that meeting.

Also, Robert is going to contact Cory today about attendance at the meeting.

Does this work for you?

Kevin Laves
Terrestrial Program Manager
Kenai Peninsula Zone
Chugach National Forest
Moose Pass, Alaska
desk: 907.288.7746
cell: 907.362.1562
fax: 907.288.5111

From: Amal Ajmi [<mailto:amal.ajmi@erm.com>]
Sent: Tuesday, November 27, 2012 7:12 AM
To: Laves, Kevin -FS
Subject: RE: Introduction

Morning Kevin, Correct for all the projects I am responsible for; however, our wetland biologists (from the same company) will also be conducting field work 2013. Is there any way to have a permit for all our activities? Say for OASIS ERM as a whole?

Thanks.

Amal Ajmi
Senior Wildlife Scientist

OASIS Environmental Inc., an ERM Company
748 Gaffney Rd., Suite 102
Fairbanks, AK 99701

907-458-8273

amal.ajmi@erm.com
www.erm.com

Grant Lake Hydroelectric Project (FERC No. 13212) Licensing

Consultation Record

Phone/E-mail/One-on-One Meeting Log

Contact Name: Kevin Laves

Agency/Organization: USFS

Phone No./E-mail Address: Unknown.

Date: November 27, 2012

Time: Unknown.

Grant Lake Licensing Team Contact: Amal Ajmi, ERM Alaska

Summary of Conversation and/or E-mail Exchange:

Kevin Laves explained that he will check up on any special use permits required for the terrestrial resources work, but he is confused as to why we are asking. He said that 3 of the 4 USFS contacts on the stakeholder contact list are no longer working at that office and he was not notified about the meeting. He will find out who needs to know and contact Cory Warnock (LVA) directly (he wanted his email) for notification. He also said that we might need access from the ADNR for access to federal lands.

From: Laves, Kevin -FS <klaves@fs.fed.us>
Sent: Monday, November 26, 2012 4:15 PM
To: Amal Ajmi
Cc: Ilse, Jessica K -FS
Subject: RE: Introduction

Thanks Amal,

So, just to clarify... you are asking if the Forest Service will require you to obtain a permit to conduct two broadcast acoustical surveys, two land and shorebird surveys, and two water bird surveys by foot/snowshoe; and two aerial moose survey flights (following aircraft mitigations) for the portion of your work that will occur on National Forest System Lands?

Kevin Laves
Terrestrial Program Manager
Kenai Peninsula Zone
Chugach National Forest
Moose Pass, Alaska
desk: 907.288.7746
cell: 907.362.1562
fax: 907.288.5111

From: Amal Ajmi [mailto:amal.ajmi@erm.com]
Sent: Monday, November 26, 2012 2:52 PM
To: Laves, Kevin -FS
Subject: RE: Introduction

Hi Kevin,

Figure I would introduce myself. I have been a resident of Fairbanks for 20+ years. I have worked with songbirds in the interior for 15+ years. I have many hours as an observer for wildlife (moose, bison, swan, raptor nests, and caribou) aerial surveys for both the state and for the USARMY as there wildlife biologist from 2005 – 2012. I am new to the world of consulting and to this project. I have been given the responsibilities of completing:

- Goshawk Nest Ground-Based Surveys (Broadcast Acoustical Surveys),
- Breeding Landbirds and Shorebirds,
- Winter Waterbird Survey, and
- Winter use by moose (surveys).

I have been informed that all other terrestrial work has been deemed completed by the client, and no further investigations are required. I have also been informed that I will be utilizing the established methodology to complete the four remaining surveys for the terrestrial component of this project.

A rough schedule for field work in 2013 and 2014:

- Goshawk Nest Ground-Based Surveys (Broadcast Acoustical Surveys): There will be 2 surveys / year, for 2 years. I was hoping to conduct the surveys in June, and early-July both years. Based on your communications, this falls into the USFS timeline.

- Breeding Landbirds and Shorebirds. I am hope to conduct 2 surveys using ALMS methodology (as stipulated in the project scope) in mid-May and June 2013. The reasoning for 2 surveys is to capture both resident breeders (mid-May) and migrants (June). Also, resampling will provide more information for analysis.
- Winter Waterbird Survey. There will be two surveys conducted during the winter of 2013-2014. The plan, currently, is to snow shoe in, and document (as stipulated) waterfowl on any open water on the lake. Surveys would most likely be November-December 2013, and February-March 2014.
- Winter use by moose. Two standard line transect aerial survey flights would most likely be flown during the same time periods of the Winter Waterbird Surveys.

There will also be a wetland crew in 2013. So we are trying to find out what all we need permit-wise to conduct the field work. We are under the impression that we need an access permit. Would like to verify that is the case, and any other requirements, especially for the aerial surveys. Am not sure if FS would allow me to hire a cub pilot who does this for ADFG, or if they would want me to fly with ADFG. Am open to both options.

Does that help? I only contacted Ms. Benoit because she was involved with the 2010 field studies. Thanks for any assistance.

Amal Ajmi
Senior Wildlife Scientist

OASIS Environmental Inc., an ERM Company
748 Gaffney Rd., Suite 102
Fairbanks, AK 99701

907-458-8273

amal.ajmi@erm.com
www.erm.com

From: Laves, Kevin -FS [<mailto:klaves@fs.fed.us>]
Sent: Monday, November 26, 2012 2:30 PM
To: Amal Ajmi
Cc: Ilse, Jessica K -FS
Subject: RE: Introduction

Hello Amal,

I may be the right person to help you out. Let me get a little clarification first. I may be able to help you directly; or get you in contact with our Land Permit Administrator.

1. What do you mean by access permit?
2. Can you send us a document that details the wildlife studies that you have been contracted to conduct associated with the Grant Lake project?

Kevin Laves
Terrestrial Program Manager
Kenai Peninsula Zone
Chugach National Forest

Moose Pass, Alaska
desk: 907.288.7746
cell: 907.362.1562
fax: 907.288.5111

From: Amal Ajmi [<mailto:amal.ajmi@erm.com>]
Sent: Sunday, November 18, 2012 4:08 PM
To: Laves, Kevin -FS
Subject: Introduction

Hello Mr. Laves,
My name is Amal Ajmi and have recently come on board with the Grant Lake project. I had started communication with Ms. Benoit and have found that she will be away for a while. She indicated that you were to be contacted with any questions or need of assistance. I have included all our conversations.

I have been requested to begin a compilation of the permits required for the wildlife studied I will be responsible for, as well as the wetland surveys that will be conducted by our company. I believe that the wetland surveys, breeding bird surveys, and winter waterbird surveys will require Access Permits. I believe the Goshawk surveys will require an Access Permit, but am thinking that due to the nature of the survey, a USFWS permit may be required as well. I am not sure. The moose surveys will require permits as well as some restrictions. However, I am not familiar with Forest Service requirements. Could you please advise me as to what permits will be required for the above? Thank you for your assistance.
Regards,
Amal Ajmi
Senior Wildlife Scientist

OASIS Environmental Inc., an ERM Company
748 Gaffney Rd., Suite 102
Fairbanks, AK 99701

907-458-8273

amal.ajmi@erm.com
www.erm.com

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Please visit ERM's web site: <http://www.erm.com>

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From: Cory Warnock
Sent: Tuesday, November 27, 2012 11:15 AM
To: Laves, Kevin -FS
Cc: Emily Andersen
Subject: RE: Grant Lake Hydroelectric Project Natural Resources Study Meeting Agenda

That would be perfect, Kevin.

Thanks!

Cory

From: Laves, Kevin -FS [mailto:klaves@fs.fed.us]
Sent: Tuesday, November 27, 2012 11:14 AM
To: Cory Warnock
Subject: RE: Grant Lake Hydroelectric Project Natural Resources Study Meeting Agenda

So sorry you are having trouble getting in touch with Barb. I'll contact the Grant Lake Hydro Liaison from the Seward Ranger District and have them contact you.

Kevin Laves
Terrestrial Program Manager
Kenai Peninsula Zone
Chugach National Forest
Moose Pass, Alaska
desk: 907.288.7746
cell: 907.362.1562
fax: 907.288.5111

From: Cory Warnock [mailto:cwarnock@longviewassociates.com]
Sent: Tuesday, November 27, 2012 9:48 AM
To: Laves, Kevin -FS
Subject: FW: Grant Lake Hydroelectric Project Natural Resources Study Meeting Agenda

Hi Kevin,

I just left a message for you on your office line regarding Grant Lake and the upcoming meeting. I'll look forward to hearing from you. In an effort to get you some of the information, I've attached the upcoming meeting details and agenda. I'm aware now that a couple of the individuals from the Forest Service on the existing contact list no longer work with the agency. I've been attaching Barb Stanley on my inquiries in hopes that I could get some more appropriate contact information. For now, I'll assume that you will play a key role until we talk and that is confirmed/modified. We've been working with Stakeholders for the last month or so attempting to set up the appropriate date for this initial meeting. I'm sorry to get this to you so late in the game. Again, it certainly isn't due to lack of effort. Please give me a call at your earliest convenience and we can discuss further.

Thanks,

Cory

Cory Warnock

Long View Associates

www.longviewassociates.com

5771 Applegrove Ln.

Ferndale, Wa. 98248

O – 360-384-2662

C – 360-739-0187

F – 360-542-2264

From: Cory Warnock

Sent: Monday, November 26, 2012 3:41 PM

To: Barbara Stanley (bstanley@fs.fed.us); Brenda Trefon (btrefon@kenaitze.org); Brent Goodrum (brent.goodrum@alaska.gov); Cassie Thomas (cassie_thomas@nps.gov); David Schade (david.w.schade@alaska.gov); Doug Mutter (douglas_mutter@ios.doi.gov); Doug Ott (dott@aidea.org); Doug Palmer (Doug.Palmer@fws.gov); Eric Johansen (ejohansen@fs.fed.us); Eric Rothwell (eric.rothwell@noaa.gov); Ginny Litchfield (ginny.litchfield@alaska.gov); Jan Konigsberg (jan@hydroreform.org); Jason Mouw (jason.mouw@alaska.gov); Jeffry Anderson (Jeffry_Anderson@fws.gov); Jim Ferguson (jim.ferguson@alaska.gov); Joe Klein (joe.klein@alaska.gov); Judith Bittner (judy.bittner@alaska.gov); K.J. Muschovic (kjmushovic@blm.gov); Karen O'Leary (kaoleary@fs.fed.us); Ken Hogan (kenneth.hogan@ferc.gov); Kim Sager (kimberly.sager@alaska.gov); Lynnda Kahn (Lynnda_Kahn@fws.gov); Max Best (mbest@borough.kanai.ak.us); Mike Cooney (mcooney@arctic.net); Monte Miller (monte.miller@alaska.gov); Phil Brna (phil_brna@fws.gov); Phil North (north.phil@epa.gov); Ricky Gease (ricky@kenairiversportfishing.com); Rob Spangler (rspangler@fs.fed.us); Robin Swinford (robin.swinford@alaska.gov); Shina Duvall (shina.duvall@alaska.gov); Sue Walker (susan.walker@noaa.gov); Ted Deats (ted.deats@alaska.gov); Tom Capiello (tom.capiello@alaska.gov); Valerie Conner (valerie@akcenter.org)

Cc: Mike Salzetti (msalzetti@homerelectric.com); Marissa Emmons (marissa.emmons@mcmillen-llc.com); Emily Andersen (eandersen@longviewassociates.com); Charles Sauvageau; John Gangemi; Michael Yarborough; John Blum; Dwayne Adams

Subject: Grant Lake Hydroelectric Project Natural Resources Study Meeting Agenda

Grant Lake Hydroelectric Project (FERC No. 13212) Natural Resources Study Stakeholder Group:

Attached, you'll find the agenda for the upcoming Grant Lake Natural Resource Studies Meeting on December 12th in Anchorage. Incorporated into the agenda are both the meeting location and audio/video connection information for the webinar service for those that won't be attending in person. We've put forth a relatively aggressive schedule for the day. As such, we'd anticipate needing the full meeting time (8-5), to go over all of the natural resource areas, in detail.

Let me know if you have any questions/concerns and we look forward to seeing/hearing you on the 12th.

Cory

Cory Warnock

From: McDonough, Thomas J (DFG) <thomas.mcdonough@alaska.gov>
Sent: Wednesday, November 28, 2012 11:43 PM
To: Amal Ajmi
Subject: RE: Introduction

Hi Amal,

Jeff Selinger (jeff.selinger@alaska.gov, 260-2905), the Area Biologist for the Kenai Peninsula, is the right person to contact regarding your questions. I think you will have a very difficult time conducting a line-transect survey for moose in that area.

Good luck,

Thomas McDonough

From: Amal Ajmi [amal.ajmi@erm.com]
Sent: Tuesday, November 27, 2012 10:24 AM
To: McDonough, Thomas J (DFG)
Subject: Introduction

Hello Mr. McDonough,

My name is Amal Ajmi and have recently come on board with the Grant Lake Hydro project. Figure I would introduce myself. I have been a resident of Fairbanks for 20+ years. I have worked with songbirds in the interior for 15+ years. I have many hours as an observer for wildlife (moose, bison, swan, raptor nests, and caribou) aerial surveys for both the state and for the USARMY as their wildlife biologist from 2005 – 2012. I am also a pilot (PA-11). I am new to the world of consulting and to this project. I have been given the responsibilities of completing:

- Goshawk Nest Ground-Based Surveys (Broadcast Acoustical Surveys),
- Breeding Landbirds and Shorebirds,
- Winter Waterbird Survey, and
- Winter use by moose (surveys).

I have been informed that all other terrestrial work for this project has been deemed completed by the client, and no further investigations are required. I have also been informed that I will be utilizing the established methodology to complete the four remaining surveys for the terrestrial component of this project. I am contacting you with regards to the winter moose surveys. A rough schedule for the moose aerial survey work:

- Winter use by moose in the Grant Lake Project Area. Two “standard” line transect aerial survey flights would most likely be flown November-December 2013, and February-March 2014. (Roughly a 10 x 10 mile area).

I have already spoken with Mr. Laves USFS regarding this work, and have reconfirmed the “No fly Zones” for Sheep and Goats and flight level restriction below 500 AGL. I wanted to check in with you for any other restrictions, or requests ADFG might have regarding these surveys. I have been in contact with Meekin’s Air Service as I know he conducts surveys for ADFG. I would like to utilize his skill / cub, if possible for this portion of my assigned work. However, I do not know the Kenai’s moose survey schedule, and don’t want to step on any toes. Although this work is a year away, I would like to make sure we are in agreement and can plan ahead. I am open to your suggestions and any assistance you might provide.

Regards,

Amal Ajmi
Senior Wildlife Scientist

OASIS Environmental Inc., an ERM Company
748 Gaffney Rd., Suite 102

From: Cory Warnock
Sent: Thursday, November 29, 2012 12:51 PM
To: Laves, Kevin -FS
Cc: Emily Andersen; rstovall@fs.fed.us
Subject: RE: Grant Lake Hydroelectric Project Natural Resources Study Meeting Agenda

Hi Kevin,

I've had a couple good conversations with Robert Stovall. He and Travis Moseley are planning on attending the meeting. I was able to get Robert up to speed on plans for moving forward, logistics for the meeting, etc. I appreciate you connecting me with him.

Thanks,

Cory

From: Laves, Kevin -FS [mailto:klaves@fs.fed.us]
Sent: Thursday, November 29, 2012 12:48 PM
To: Cory Warnock
Subject: RE: Grant Lake Hydroelectric Project Natural Resources Study Meeting Agenda

Just wanted to follow-up and ensure you were able to speak with our liaison?

Kevin Laves
Terrestrial Program Manager
Kenai Peninsula Zone
Chugach National Forest
Moose Pass, Alaska
desk: 907.288.7746
cell: 907.362.1562
fax: 907.288.5111

From: Cory Warnock [mailto:cwarnock@longviewassociates.com]
Sent: Tuesday, November 27, 2012 9:48 AM
To: Laves, Kevin -FS
Subject: FW: Grant Lake Hydroelectric Project Natural Resources Study Meeting Agenda

Hi Kevin,

I just left a message for you on your office line regarding Grant Lake and the upcoming meeting. I'll look forward to hearing from you. In an effort to get you some of the information, I've attached the upcoming meeting details and agenda. I'm aware now that a couple of the individuals from the Forest Service on the existing contact list no longer work with the agency. I've been attaching Barb Stanley on my inquiries in hopes that I could get some more appropriate contact information. For now, I'll assume that you will play a key role until we talk and that is confirmed/modified. We've been working with Stakeholders for the last month or so attempting to set up the appropriate date for this initial meeting. I'm sorry to get this to you so late in the game. Again, it certainly isn't due to lack of effort. Please give me a call at your earliest convenience and we can discuss further.

Thanks,

Cory

Cory Warnock

Long View Associates

www.longviewassociates.com

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Ferndale, Wa. 98248

O – 360-384-2662

C – 360-739-0187

F – 360-542-2264

From: Cory Warnock

Sent: Monday, November 26, 2012 3:41 PM

To: Barbara Stanley (bstanley@fs.fed.us); Brenda Trefon (btrefon@kenaitze.org); Brent Goodrum (brent.goodrum@alaska.gov); Cassie Thomas (cassie_thomas@nps.gov); David Schade (david.w.schade@alaska.gov); Doug Mutter (douglas_mutter@ios.doi.gov); Doug Ott (dott@aidea.org); Doug Palmer (Doug.Palmer@fws.gov); Eric Johansen (ejohansen@fs.fed.us); Eric Rothwell (eric.rothwell@noaa.gov); Ginny Litchfield (ginny.litchfield@alaska.gov); Jan Konigsberg (jan@hydroreform.org); Jason Mouw (jason.mouw@alaska.gov); Jeffry Anderson (Jeffry_Anderson@fws.gov); Jim Ferguson (jim.ferguson@alaska.gov); Joe Klein (joe.klein@alaska.gov); Judith Bittner (judy.bittner@alaska.gov); K.J. Muschovic (kjmushovic@blm.gov); Karen O'Leary (kaoleary@fs.fed.us); Ken Hogan (kenneth.hogan@ferc.gov); Kim Sager (kimberly.sager@alaska.gov); Lynnda Kahn (Lynnda_Kahn@fws.gov); Max Best (mbest@borough.kanai.ak.us); Mike Cooney (mcooney@arctic.net); Monte Miller (monte.miller@alaska.gov); Phil Brna (phil_brna@fws.gov); Phil North (north.phil@epa.gov); Ricky Gease (ricky@kenairiversportfishing.com); Rob Spangler (rspangler@fs.fed.us); Robin Swinford (robin.swinford@alaska.gov); Shina Duvall (shina.duvall@alaska.gov); Sue Walker (susan.walker@noaa.gov); Ted Deats (ted.deats@alaska.gov); Tom Cappiello (tom.cappiello@alaska.gov); Valerie Conner (valerie@akcenter.org)

Cc: Mike Salzetti (msalzetti@homerelectric.com); Marissa Emmons (marissa.emmons@mcmillen-llc.com); Emily Andersen (eandersen@longviewassociates.com); Charles Sauvageau; John Gangemi; Michael Yarborough; John Blum; Dwayne Adams

Subject: Grant Lake Hydroelectric Project Natural Resources Study Meeting Agenda

Grant Lake Hydroelectric Project (FERC No. 13212) Natural Resources Study Stakeholder Group:

Attached, you'll find the agenda for the upcoming Grant Lake Natural Resource Studies Meeting on December 12th in Anchorage. Incorporated into the agenda are both the meeting location and audio/video connection information for the webinar service for those that won't be attending in person. We've put forth a relatively aggressive schedule for the day. As such, we'd anticipate needing the full meeting time (8-5), to go over all of the natural resource areas, in detail.

Let me know if you have any questions/concerns and we look forward to seeing/hearing you on the 12th.

Cory

Grant Lake Hydroelectric Project (FERC No. 13212) Licensing

Consultation Record

Phone/E-mail /One on One Meeting Log

Contact Name: Robert Stovall

Agency/Organization: USFS

Phone No./E-mail Address: rstovall@fs.fed.us

Date: 11/29/12

Time: Approx. 10:00am

Grant Lake Licensing Team Contact: Cory Warnock

Summary of Conversation and/or E-mail Exchange: Spoke with Robert Stovall regarding the Grant Lake Natural Resource Studies Meeting in Anchorage on December 12th. Discussion was related to meeting agenda and general plans for 2013 formal study season. Robert let me know that he and Travis Moseley will be attending the meeting on behalf of the USFS.

The call lasted approximately 10 minutes.

From: McCafferty, Katherine A POA <Katherine.A.McCafferty2@usace.army.mil>
Sent: Friday, November 30, 2012 12:52 PM
To: Cory Warnock
Cc: Emily Andersen; Casey, Dave C POA
Subject: RE: Grant Lake Hydroelectric Project Natural Resources Study Meeting Agenda (UNCLASSIFIED)
Attachments: POA-2008-1492 Grant Lake Kenai Hydro letter re study methodologies.pdf; POA-2008-1492 Grant Lake Kenai Hydro letter re 2010_06_03 scoping mtg.pdf; Grant Lake Hydroelectric Project Natural Resources Study Meeting Agenda....doc

Classification: UNCLASSIFIED

Caveats: NONE

Mr. Warnock,

I am the correct contact person within the Corps Regulatory Division. I have been the Project Manager responsible for this project since 2009. For your information, I am attaching copies of two letters that I have written regarding the early version of the study plans and past scoping efforts.

As it happens, I planned to be in Anchorage on December 12th because I have a number of meetings scheduled throughout the day.

I will see what I can do about making myself available to attend the Grant Lake meeting.

My contact information is listed below my signature line.

Katie McCafferty
Project Manager
U.S. Army Corps of Engineers
Regulatory Division, Kenai Field Office
805 Frontage Road, Suite 200C
Kenai, AK 99611-7755
phone: 907-283-3519
fax: 907-283-3981

The Alaska District of the U.S. Army Corps of Engineers now has a new website! For information about the Alaska District Regulatory Program, please find us at our new page:
<http://www.poa.usace.army.mil/Missions/Regulatory.aspx>.

-----Original Message-----

From: Cory Warnock [mailto:cwarnock@longviewassociates.com]
Sent: Wednesday, November 28, 2012 7:46 PM
To: McCafferty, Katherine A POA
Cc: Emily Andersen
Subject: FW: Grant Lake Hydroelectric Project Natural Resources Study Meeting Agenda

Hi Katherine,

I've been trying extremely hard over the course of the last month to identify the appropriate Corps contact for Grant Lake correspondence and kept running into dead-ends. I finally received your name today and am hoping that I finally have the right person. As you'll see below, Homer Electric Association is in the process of completing the natural resource study component of their licensing program and have scheduled a meeting to distribute final study plans and discuss methodology in advance of the 2013 formal study season. My deepest apologies for not involving you in the planning associated with the date/time/location for the meeting that has been scheduled on the 12th in Anchorage. Trust me, had I had your name and contact information, you'd have been involved and will be moving forward with all planning efforts (assuming you are the correct contact for the Corps). If you could let me know if you will be the appropriate contact going forward, I'd appreciate it. If not, could you please provide the name and contact information for the correct contact?

Additionally, if you could let me know if you'll be able to attend (in-person or via webinar), that would be great. I'm more than happy to go into more detail regarding the meeting and/or the general process going forward. Please feel free to give me a call at your convenience, if needed.

Thanks and I'll look forward to hearing from you,

Cory

Cory Warnock

Long View Associates

www.longviewassociates.com <<http://www.longviewassociates.com/>>

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Ferndale, Wa. 98248

O - 360-384-2662

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From: Cory Warnock

Sent: Monday, November 26, 2012 3:41 PM

To: Barbara Stanley (bstanley@fs.fed.us); Brenda Trefon (btrefon@kenaitze.org); Brent Goodrum (brent.goodrum@alaska.gov); Cassie Thomas (cassie_thomas@nps.gov); David Schade (david.w.schade@alaska.gov); Doug Mutter (douglas_mutter@ios.doi.gov); Doug Ott (dott@aidea.org); Doug Palmer (Doug.Palmer@fws.gov); Eric Johansen (ejohansen@fs.fed.us); Eric Rothwell (eric.rothwell@noaa.gov); Ginny Litchfield (ginny.litchfield@alaska.gov); Jan Konigsberg (jan@hydroreform.org); Jason Mouw (jason.mouw@alaska.gov); Jeffry Anderson (Jeffry_Anderson@fws.gov); Jim Ferguson (jim.ferguson@alaska.gov); Joe Klein (joe.klein@alaska.gov); Judith Bittner (judy.bittner@alaska.gov); K.J. Muschovic (kjmushovic@blm.gov); Karen O'Leary (kaoleary@fs.fed.us); Ken Hogan (kenneth.hogan@ferc.gov); Kim Sager (kimberly.sager@alaska.gov); Lynnda Kahn (Lynnda_Kahn@fws.gov); Max Best (mbest@borough.kanai.ak.us); Mike Cooney (mcooney@arctic.net); Monte Miller (monte.miller@alaska.gov); Phil Brna (phil_brna@fws.gov); Phil North (north.phil@epa.gov); Ricky Gease (ricky@kenairiversportfishing.com); Rob Spangler (rspangler@fs.fed.us); Robin Swinford (robin.swinford@alaska.gov); Shina Duvall (shina.duvall@alaska.gov); Sue Walker (susan.walker@noaa.gov); Ted Deats (ted.deats@alaska.gov); Tom Cappiello (tom.cappiello@alaska.gov); Valerie Conner (valerie@akcenter.org)
Cc: Mike Salzetti (msalzetti@homerelectric.com); Marissa Emmons (marissa.emmons@mcmillen-llc.com); Emily Andersen (eandersen@longviewassociates.com); Charles Sauvageau; John Gangemi; Michael Yarborough; John Blum; Dwayne Adams
Subject: Grant Lake Hydroelectric Project Natural Resources Study Meeting Agenda

Grant Lake Hydroelectric Project (FERC No. 13212) Natural Resources Study Stakeholder Group:

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Let me know if you have any questions/concerns and we look forward to seeing/hearing you on the 12th.

Cory

Cory Warnock

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Classification: UNCLASSIFIED

Caveats: NONE



**DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, ALASKA
805 FRONTAGE ROAD, SUITE 200C
KENAI, ALASKA 99611-7755**

REPLY TO
ATTENTION OF:

July 9, 2010

Regulatory Division
POA-2008-1492

Mr. Joe Adamson
Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Mr. Adamson:

We are providing comments in response to a June 3, 2010, public meeting at which you requested our comments on the proposed Grant Lake/Creek (FERC Project # 13211) project and on Scoping Document 1, dated May 2010. The proposed project is located within Sections 6 and 18, T. 4 N., R. 1 E., Seward Meridian; Latitude 60.4607° N., Longitude 149.3389° W.; near the community of Moose Pass, Alaska. The project has been assigned number POA-2008-1492, Grant Creek, which should be referred to in all correspondence with us.

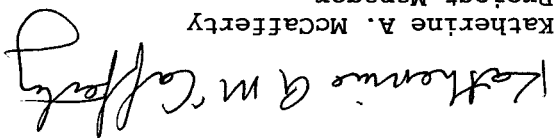
In reviewing Scoping Document 1, dated May 2010, we identified a number of topics that we are required to address in our permit analysis but were not included proposed outline for the environmental assessment. We understood that the Scoping Document would be revised to add any topics that were identified at the June 3, 2010 scoping meeting as necessary for inclusion in the environmental assessment. We are waiting to submit our comments until after Scoping Document 2 becomes available. We will be reviewing the revised Scoping Document to ensure that the environmental document will contain the items that we are required to address during our permit analysis. A summary of those items was provided in our January 8, 2010 letter.

In addition to our previously offered comments, we offer the following information:

1. Direct impacts to all waters of the U.S. affected by the proposed dam, roads, utility corridor, and other appurtenant structures will need to be evaluated. Direct impacts will include the placement of fill and the flooding of waters of the U.S. We are also required to evaluate secondary and cumulative effects that would result from the proposed project. A discussion of this analysis was sent to the applicant and their agent in response to a request for comments on their proposed survey methodologies. We have attached that July 9, 2010 letter for your information.
2. There is a Nationwide Permit (NWP) which authorizes the placement of fill in association with hydropower projects. Although we have not seen any plans which might allow us to determine if the proposed project might meet the terms and conditions of this NWP, we want to make the applicant aware that is NWP is available and may provide a more efficient permitting option. Be reminded that we can only authorize a proposed project under a NWP if the effect of the project is considered not more than minimal and is not determined to be against the public interest.

You may contact me via email at katherine.a.mccafferty2@usace.army.mil, by mail at the address above, by phone at (907) 283-3519, or by FAX at (907) 283-3981, if you have questions. For additional information about our Regulatory Program, visit our web site at www.poa.usace.army.mil/reg.

Sincerely,


Katherine A. McCafferty
Project Manager

Enclosures:
July 8, 2010 letter

CF:

Mr. Brad Zubeck
Project Engineer
Kenai Hydro, LLC
280 Airport Way
Kenai, AK 99611
Ms. Jenna Borovansky
Long View Associates
P.O. Box 3844
Coeur d'Alene, ID 83816



**DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, ALASKA
805 FRONTAGE ROAD, SUITE 200C
KENAI, ALASKA 99611-7755**

REPLY TO
ATTENTION OF:

July 9, 2010

Regulatory Division
POA-2008-1492

Ms. Jenna Borovansky
Long View Associates
P.O. Box 3844
Coeur d'Alene, ID 83816

Dear Ms. Borovansky:

We are providing comments in response to the June 3, 2010, meeting at which representatives of Kenai Hydro LLC requested our comments on draft study plans proposed for the Grant Lake/Creek (FERC Project # 13211) project. The proposed project is located within Sections 6 and 18, T. 4 N., R. 1 E., Seward Meridian; Latitude 60.4607° N., Longitude 149.3389° W.; near the community of Moose Pass, Alaska. It has been assigned number POA-2008-1492, Grant Creek, which should be referred to in all correspondence with us.

The following comments refer to the study plans in general:

1. The 404(b)(1) guidelines [40 CFR 230 404(b)(1)] require that we assess the potential short-term or long-term effects of a proposed fill activity on the chemical, physical, and biological components of the aquatic environment. To that end, we must have sufficient information to be able to make factual determinations regarding the effects of the proposed discharge. We will utilize all available information in order to make these factual determinations.
2. Our assessment of impacts to waters of the U.S. is not limited solely to Grant Lake and to Grant Creek. Our evaluation of the effects of the proposed discharge of fill material will encompass the direct effects to waters of the U.S., which includes wetlands, streams, and open waters. In addition, we will also consider the secondary and cumulative effects of the proposed fill on waters of the U.S. The draft study plans should be reviewed to ensure that sufficient information is collected to fully assess the potential effects of the project on waters of the U.S. that may be impacted by the proposed road, utility corridors, or other appurtenant structures.

The following comments refer to the Water Resources Draft Study Plan:

1. This study plan indicates that an erosion study will be done on the shores of Grant Lake to determine how raising the elevation of the water would affect shore erosion and we support this analysis. However, no mention is made of studying the effects of the dam and altered flow on aspects of Grant Creek other than the potential effect to fishes. In order to fully address the effect of the potential fill, we must also know the anticipated effects of the project on Grant Creek. How would the change in current patterns and water circulation alter or erode the physical substrate, not just the suitable spawning habitat, of Grant Creek?

2. In addition, how would the proposed project affect sediment transport and deposition in both the lake and the stream?

The following comments refer to the Terrestrial Resources Draft Study Plan:

1. The proposed study plan discusses wetlands delineation and states that the information will be collected as required by the 1987 wetland delineation manual and the 2007 Alaska Regional Supplement. This is appropriate.
2. The study plan states that representative boundaries of wetlands will be identified and then wetland boundaries will be drawn using GIS. The method described is appropriate for scoping purposes however, more detailed wetland delineation information may be necessary to complete the alternatives analysis. For the purposes of determining the amount of direct impacts resulting from the final design, the wetland boundaries must be determined by field delineations and recorded using GPS.
3. The Wetland Field Data Form referenced in the study plan and included in Attachment E is incomplete. The second page is missing.
4. The draft study plan refers only to the identification of wetlands. Because we regulate the discharge of dredged or fill material into waters of the U.S., we must know the location and size of all waters that would be impacted by the proposed project. Waters of the U.S. include channels with an ordinary high water mark (streams) and open waters with a mean high water mark (ponds or lakes) in addition to wetlands. Each stream, open water, and wetland that may be impacted by a proposed alternative must be identified, described, and mapped.
5. Direct impacts to waters of the U.S. must be identified and quantified for all portions of the project that would involve the placement of fill in waters of the U.S.; this includes any waters crossed by the proposed road and utility corridor, any waters flooded by the raised waters in Grant Lake or wetlands flooded by increased flows in Grant Creek, and any waters that would be filled during the construction of the powerhouse, dam or other structure.
6. Secondary impacts to waters of the U.S. must be identified and assessed for each water of the U.S. Secondary effects are effects on an aquatic ecosystem that are associated with a discharge of dredged or fill material, but do not result from the actual placement of the dredged or fill material. For each water crossed by the proposed road and utility corridor, flooded by the raised waters in Grant Lake, flooded by increased flows in Grant Creek, and any waters that would be impacted by the construction of a structure, secondary impacts must be assessed. Examples of secondary impacts include alterations of stream flow or loss of sediment sorting in Grant Creek due to the operation of the dam and impacts to Grant Lake due to fluctuating water levels caused by the same dam.
7. Cumulative impacts to waters of the U.S. must also be identified and assessed. Cumulative impacts are the impacts on the environment which result from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency or person undertakes such other actions. The geographic extent may be different for each cumulative impact.
8. If compensatory mitigation is required, it will be necessary to complete a functional or condition assessment for each water of the

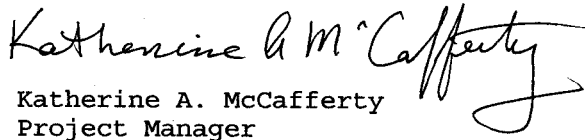
U.S. that would be impacted by the proposed project. There are a variety of metrics or methods available. We recommend that you contact us to discuss your selected method, prior to its implementation, to ensure that it is appropriate.

9. As we mentioned at the meeting, the Alaska District has written Regulatory Guidance Letter (RGL) 09-02, which provides guidance regarding the evaluation of compensatory mitigation plans to the Regulatory Project Manager and the public. We have attached a copy of this RGL to our letter.

Requirements to invite Federally recognized tribes and Alaska Native Corporations to Government to Government consultation are the responsibility of the lead agency. We will not initiate our own consultation unless consultation by the lead agency is not sufficient to comply with Department of Defense, Department of the Army, and U.S. Army Corps of Engineers policies.

You may contact me via email at Katherine.a.mccafferty2@usace.army.mil, by mail at the address above, by phone at (907) 283-3519, or by FAX at (907) 283-3981, if you have questions. For additional information about our Regulatory Program, visit our web site at www.poa.usace.army.mil/reg.

Sincerely,


Katherine A. McCafferty
Project Manager

CF:

Brad Zubeck
Project Engineer
Kenai Hydro, LLC
280 Airport Way
Kenai, AK 99611

From: Larson, Clifford A (DNR) <clifford.larson@alaska.gov>
Sent: Monday, December 03, 2012 1:22 PM
To: Amal Ajmi
Subject: RE: Grant Lake Hydro Project
Attachments: gen_allow_use.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Amal,

Here are the Generally Allowed Uses (GAU). If the activity is beyond the scope of a GAU, a permit is required.

Hope this helps.

<http://dnr.alaska.gov/Landrecords/>

<http://www.navmaps.alaska.gov/alaskalandstatus/>

Cliff Larson
Permitting Manager
269-8508

From: Amal Ajmi [<mailto:amal.ajmi@erm.com>]
Sent: Tuesday, November 27, 2012 12:39 PM
To: Larson, Clifford A (DNR)
Subject: Grant Lake Hydro Project

Hello Mr. Larson,

My name is Amal Ajmi and have recently come on board with the Grant Lake project. I am new to the world of consulting and to this project. I have been given the responsibilities of completing:

- Goshawk Nest Ground-Based Surveys (Broadcast Acoustical Surveys),
- Breeding Landbirds and Shorebirds,
- Winter Waterbird Survey, and
- Winter use by moose (surveys).

There will also be a wetland crew in 2013. So we are trying to find out what all we need permit-wise to conduct the field work. We will have to cross state lands in order to access USFS lands to conduct our surveys. We do not know if we need an access permit, and would like to verify that is the case (or not), and any other requirements the AK DNR may have.

Please be aware that there will be other work conducted by other companies for this project. We are asking for OASIS ERM work. Thanks for any assistance.

Amal Ajmi
Senior Wildlife Scientist

OASIS Environmental Inc., an ERM Company
748 Gaffney Rd., Suite 102
Fairbanks, AK 99701

Fact sheet:



Alaska Department of Natural Resources

Division of Mining, Land and Water • August 2011

GENERALLY ALLOWED USES ON STATE LAND

As provided in 11 AAC 96.020, the following **uses and activities are generally allowed on state land** managed by the **Division of Mining, Land and Water** (these uses and activities may be restricted in legislatively designated areas, or special management category or status as listed in 11 AAC 96.014¹). Uses listed as “Generally allowed” do not require a permit from the Division of Mining, Land and Water. Note that this list does not apply to state parks, nor to land owned or managed by other state agencies such as the University of Alaska, Alaska Mental Health Trust, Department of Transportation and Public Facilities, or the Alaska Railroad. **You may need other state, federal or borough permits for these uses or activities.** Permits can be required from the Army Corps of Engineers, Department of Environmental Conservation, the Environmental Protection Agency, Alaska Department of Fish and Game Habitat Division (ADF&G-Habitat). Before beginning an activity on state land, the user should check to be sure it is generally allowed in that particular area.

TRAVEL ACROSS STATE LAND:

Hiking, backpacking, skiing, climbing, and other foot travel; bicycling; traveling by horse or dogsled or with pack animals.

Using a highway vehicle with a curb weight of up to 10,000 pounds, including a four-wheel-drive vehicle and a pickup truck, **or using a recreational-type vehicle** off-road or all-terrain vehicle with a curb weight of up to 1,500 pounds, including a snowmobile (or other tracked vehicle), motorcycle or ATV, on or off an established road easement, if use off the road easement does not cause or contribute to water quality degradation, alteration of drainage systems, significant rutting, ground disturbance, or thermal erosion. (Curb weight means the weight of a vehicle with a full tank of fuel and all fluids topped off, but with no one sitting inside or on the vehicle and no cargo loaded. Most highway rated sport utility vehicles are within the weight limit as are most small ATVs, including a basic Argo.) Use of larger off-road vehicles over 1,500 pounds curb weight, and the off-road travel of construction and mining equipment requires a permit from DNR. An authorization is required from the ADF&G-Habitat for any motorized travel in fish bearing streams.

Landing an aircraft (such as a single-engine airplane or a helicopter), or using watercraft (such as a boat, jet-ski, raft, or canoe), without damaging the land, including shoreland, tideland, and submerged land.

Driving livestock, including any number of reindeer or up to 100 horses, cattle, or other domesticated animals.

ACCESS IMPROVEMENTS ON STATE LAND:

Brushing or **cutting a trail** less than five feet wide using only hand-held tools such as a chainsaw (making a trail does not create a property right or interest in the trail).

Anchoring a mooring buoy in a lake, river, or marine waters, or placing a **float, dock, boat haulout, floating breakwater, or boathouse** in a lake, river, or in marine waters, for the personal, noncommercial use of the upland owner, if the use does not interfere with public access or another public use, and if the improvement is placed within the projected sidelines of the contiguous upland owner's parcel or otherwise has the consent of the affected upland owner. A float or dock means an open structure without walls or roof that is designed and used for access to and from the water rather than for storage, residential use, or other purposes. A boat haulout means either a rail system (at ground level or elevated with pilings) or a line attached from the uplands to an anchor or mooring buoy. A floating breakwater means a structure, such as a log bundle, designed to dissipate wave or swell action. A boathouse means a structure designed and used to protect a boat from the weather rather than for other storage, residential use or other purposes.

¹ These special use areas are listed in 11 AAC 96.014 and on the last page of this fact sheet. Maps of the areas are available online at: www.dnr.state.ak.us/mlw/sua/

REMOVING OR USING STATE RESOURCES:

Hunting, fishing, or trapping, or placement of a crab pot, shrimp pot, herring pound or fishwheel, that complies with applicable state and federal statutes and regulations on the taking of fish and game.

Harvesting a small number of **wild plants, mushrooms, berries, and other plant material** for personal, noncommercial use. The cutting of trees is not a generally allowed use except as it relates to brushing or cutting a trail as provided above. Commercial harvest of non-timber forest products requires a permit (11 AAC 96.035) and harvest practices must conform to the Alaska Non-Timber Forest Products Harvest Manual for Commercial Harvest on state-owned Lands. <http://dnr.alaska.gov/ag/NTFPRports.htm>

Using dead and down wood for a cooking or warming fire, unless the department has closed the area to fires during the fire season.

Grazing no more than five domesticated animals.

Recreational gold panning; hard-rock mineral prospecting or mining using light portable field equipment, such as a hand-operated pick, shovel, pan, earth auger, or a backpack power drill or auger; or **suction dredging** using a suction dredge with a nozzle intake of six inches or less, powered by an engine of 18 horsepower or less, and pumping no more than 30,000 gallons of water per day. An authorization is required from ADF&G-Habitat prior to dredging in fish bearing streams.

OTHER IMPROVEMENTS AND STRUCTURES ON STATE LAND:

Setting up and using a camp for personal, noncommercial recreational purposes, or for any non-recreational purpose (such as a support camp during mineral exploration), for no more than 14 days at one site, using a tent platform or other temporary structure that can readily be dismantled and removed, or a floathouse that can readily be moved. Moving the entire camp at least two miles starts a new 14-day period. Cabins or other permanent improvements are not allowed, even if they are on skids or another non-permanent foundation. The camp must be removed immediately if the department determines that it interferes with public access or other public uses or interests.

Brushing or cutting a survey line less than five feet wide using only hand-held tools (such as a chainsaw), or **setting a survey marker** (setting a survey monument—a permanent, official marker—requires written survey instructions issued by the Division of Mining, Land and Water under 11 AAC 53).

Placing a residential **sewer outfall** into marine waters from a contiguous privately owned upland parcel, with the consent of the affected parcel owners, if the outfall is within the projected sidelines of the contiguous upland parcel and is buried to the extent possible or, where it crosses bedrock, is secured and covered with rocks to prevent damage. Any placement of a sewer outfall line must comply with state and federal statutes and regulations applicable to residential sewer outfalls.

Placing riprap or other suitable bank stabilization material to prevent erosion of a contiguous privately owned upland parcel if no more than one cubic yard of material per running foot is placed onto state shoreland and the project is otherwise within the scope of the U.S. Army Corps of Engineers nationwide permit on bank stabilization.

MISCELLANEOUS USES OF STATE LAND:

An event or assembly of 50 people or less, including events sponsored by non-profit organizations or a commercial event.

Entry for **commercial recreation** purposes **on a day-use basis** with no overnight camps or unoccupied facilities that remain overnight, as long as the use has been registered as required by 11 AAC 96.018.

Recreational or other use not listed above may occur on state land as long as that use

- * is not a commercial recreational camp or facility, (whether occupied or unoccupied) that remains overnight;
- * does not involve explosives or explosive devices (except firearms);

- * is not prospecting or mining using hydraulic equipment methods (i.e. the use of pumped or flowing water to remove overburden or move gravels);
- * does not include drilling in excess of 300 feet deep (including exploratory drilling or stratigraphic test wells on state land not under oil or gas lease);
- * is not for geophysical exploration for minerals subject to lease or an oil and gas exploration license or for seismic surveys involving the use of explosives;
- * does not cause or contribute to significant disturbance of vegetation, drainage, or soil stability;
- * does not interfere with public access or other public uses or interests; and
- * does not continue for more than 14 consecutive days at any site. Moving the use to another site at least two miles away starts a new 14-day period.
- * does not include exploration for coal (a notice of intent to conduct exploration for coal must be filed with the DNR)

Check for special conditions and exceptions!

All activities on state land must be conducted in a responsible manner that will minimize or prevent disturbance to land and water resources, and must comply with all applicable federal, state, and local laws and regulations. **By acting under the authority of this list, the user agrees to the conditions set out in 11 AAC 96.025** (a copy of these conditions are attached to this fact sheet). A person who violates these conditions is subject to any action available to the department for enforcement and remedies, including civil action for forcible entry and detainer, ejectment, trespass, damages, and associated costs, or arrest and prosecution for criminal trespass in the second degree. The department may seek damages available under a civil action, including restoration damages, compensatory damages, and treble damages under AS 09.45.730 or AS 09.45.735 for violations involving injuring or removing trees or shrubs, gathering technical data, or taking mineral resources. (11 AAC 96.145)

Remember that this list does not apply to state parks, University of Alaska lands, or Alaska Mental Health Trust lands. In addition, some other areas managed by the Division of Mining, Land and Water are not subject to the full list of generally allowed uses. Exceptions may occur because of special conditions in a state land use plan or management plan for example, a management plan may reduce the number of days that people can camp at a specific site), or by a “special use land” designation (for instance, a special use land designation for the North Slope requires a permit for off-road vehicle use). Special Use Areas are listed in 11 AAC 96.014; more information is available on the department’s website at <http://dnr.alaska.gov/mlw/sua/>. GAU’s have also been modified for the Knik River Public Use Area.

Also, be aware that this list does not exempt users from the permit requirements of other state, federal, or local agencies. For example, the ADF&G - Habitat may require a permit for a stream crossing or if the use will take place in a state game refuge.

Finally, this list does not authorize a use if another person has already acquired an exclusive property right for that use. For instance, it does not give people permission to graze livestock on someone else’s state grazing lease, to build a trail on a private right-of-way that the Division of Mining, Land and Water has granted to another person, or to pan for gold on somebody else’s state mining location.

Department staff can help users determine the land status of state-owned land and whether it is subject to any special exceptions or to private property rights.

For additional information, contact the Department of Natural Resources:

PUBLIC INFORMATION CENTER 550 W. 7 th Avenue, Suite 1260 Anchorage, AK 99501-3557 (907) 269-8400 TDD: (907) 269-8411	DIVISION OF MINING, LAND & WATER PUBLIC INFORMATION OFFICE 400 Willoughby Ave., Suite 400 P.O. Box 111020 Juneau, AK 99801-1021 (907) 465-3400 TDD: (907) 465-3888	PUBLIC INFORMATION CENTER 3700 Airport Way Fairbanks, AK 99709-4699 (907) 451-2705 TDD: (907) 451-2770
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CONDITIONS FOR GENERALLY ALLOWED USES
(11 AAC 96.025²)

A generally allowed use listed in 11 AAC 96.020 is subject to the following conditions:

- (1) activities employing wheeled or tracked vehicles must be conducted in a manner that minimizes surface damage;
- (2) vehicles must use existing roads and trails whenever possible;
- (3) activities must be conducted in a manner that minimizes
 - (A) disturbance of vegetation, soil stability, or drainage systems;
 - (B) changing the character of, polluting, or introducing silt and sediment into streams, lakes, ponds, water holes, seeps, and marshes; and
 - (C) disturbance of fish and wildlife resources;
- (4) cuts, fills, and other activities causing a disturbance listed in (3)(A)–(C) must be repaired immediately, and corrective action must be undertaken as may be required by the department;
- (5) trails and campsites must be kept clean; garbage and foreign debris must be removed; combustibles may be burned on site unless the department has closed the area to fires during the fire season;
- (6) survey monuments, witness corners, reference monuments, mining location posts, homestead entry corner posts, and bearing trees must be protected against destruction, obliteration, and damage; any damaged or obliterated markers must be reestablished as required by the department under AS 34.65.020 and AS 34.65.040;
- (7) every reasonable effort must be made to prevent, control, and suppress any fire in the operating area; uncontrolled fires must be immediately reported;
- (8) holes, pits, and excavations must be repaired as soon as possible; holes, pits, and excavations necessary to verify discovery on prospecting sites, mining claims, or mining leasehold locations may be left open but must be maintained in a manner that protects public safety;
- (9) on lands subject to a mineral or land estate property interest, entry by a person other than the holder of a property interest, or the holder's authorized representative, must be made in a manner that prevents unnecessary or unreasonable interference with the rights of the holder of the property interest.

List of Special Use Land Designations Excluded from Generally Allowed Uses

- | | |
|--|---|
| • Alyeska Ski Resort | • Lower Goodnews River |
| • Baranof Lake Trail | • Lower Talarik Creek |
| • Caribou Hills | • Marmot Island Special Use Area |
| • Exit Glacier Road | • Nenana River Gorge and McKinley Village Subd. |
| • Glacier/Winner Creek | • North Slope Area |
| • Hatcher Pass Special Use Area | • Northern Southeast Area, Tidelands |
| • Haines State Forest | • Nushagak |
| • Indian Cove | • Poker Flat North |
| • Kamishak Special Use Area | • Poker Flat South |
| • Kenai Fjords Coastline | • Resurrection Bay |
| • Kenai River Special Management Area Proposed Additions | • Tangle Lakes Archaeological District |
| • Lake Clark Coastline | • Thompson Pass |
| | • Togiak National Wildlife Refuge |
| | • Knik River Special Use Area |

² Register 164, January 2003

From: Cory Warnock
Sent: Monday, December 03, 2012 10:38 AM
To: Emily Andersen
Subject: FW: Grant Lake Hydroelectric Project Natural Resources Study Meeting Agenda

From: Russell, Pamela J (DNR) [mailto:pamela.russell@alaska.gov]
Sent: Monday, December 03, 2012 10:37 AM
To: Cory Warnock
Subject: RE: Grant Lake Hydroelectric Project Natural Resources Study Meeting Agenda

Good Morning Cory,

Jack Blackwell the area superintendent and myself will be attending in person for the December 12th meeting.

Pamela Russell
Div. of Parks and Outdoor Recreation
Natural Resource Specialist II
514 Donald E Gilman River Center
Soldotna, AK 99669
907-714-2471

From: Cory Warnock [cwarnock@longviewassociates.com]
Sent: Sunday, December 02, 2012 8:27 PM
To: Russell, Pamela J (DNR)
Subject: FW: Grant Lake Hydroelectric Project Natural Resources Study Meeting Agenda

Hello Pamela,

I've been trying extremely hard over the course of the last month to identify the appropriate Alaska State Parks contact for Grant Lake correspondence and kept running into dead-ends. I finally received your name Friday and am hoping that I finally have the right person. As you'll see below, Homer Electric Association is in the process of completing the natural resource study component of their licensing program and have scheduled a meeting to distribute final study plans and discuss methodology in advance of the 2013 formal study season. My deepest apologies for not involving you in the planning associated with the date/time/location for the meeting that has been scheduled on the 12th in Anchorage. Trust me, had I had your name and contact information, you'd have been involved and will be moving forward with all planning efforts (assuming you are the correct contact). If you could let me know if you will be the appropriate contact going forward, I'd appreciate it. If not, could you please provide the name and contact information for the correct contact?

Additionally, if you could let me know if you'll be able to attend (in-person or via webinar), that would be great. I'm more than happy to go into more detail regarding the meeting and/or the general process going forward. Please feel free to give me a call at your convenience, if needed.

Thanks and I'll look forward to hearing from you,

Cory

Cory Warnock
Long View Associates
www.longviewassociates.com
5771 Applegrove Ln.
Ferndale, Wa. 98248
O – 360-384-2662
C – 360-739-0187
F – 360-542-2264

From: Cory Warnock
Sent: Monday, November 26, 2012 3:41 PM
To: Barbara Stanley (bstanley@fs.fed.us); Brenda Trefon (btrefon@kenaitze.org); Brent Goodrum (brent.goodrum@alaska.gov); Cassie Thomas (cassie_thomas@nps.gov); David Schade (david.w.schade@alaska.gov); Doug Mutter (douglas_mutter@ios.doi.gov); Doug Ott (dott@aidea.org); Doug Palmer (Doug.Palmer@fws.gov); Eric Johansen (ejohansen@fs.fed.us); Eric Rothwell (eric.rothwell@noaa.gov); Ginny Litchfield (ginny.litchfield@alaska.gov); Jan Konigsberg (jan@hydroreform.org); Jason Mouw (jason.mouw@alaska.gov); Jeffry Anderson (Jeffry_Anderson@fws.gov); Jim Ferguson (jim.ferguson@alaska.gov); Joe Klein (joe.klein@alaska.gov); Judith Bittner (judy.bittner@alaska.gov); K.J. Muschovic (kjmushovic@blm.gov); Karen O'Leary (kaoleary@fs.fed.us); Ken Hogan (kenneth.hogan@ferc.gov); Kim Sager (kimberly.sager@alaska.gov); Lynnda Kahn (Lynnda_Kahn@fws.gov); Max Best (mbest@borough.kanai.ak.us); Mike Cooney (mcooney@arctic.net); Monte Miller (monte.miller@alaska.gov); Phil Brna (phil_brna@fws.gov); Phil North (north.phil@epa.gov); Ricky Gease (ricky@kenairiversportfishing.com); Rob Spangler (rspangler@fs.fed.us); Robin Swinford (robin.swinford@alaska.gov); Shina Duvall (shina.duvall@alaska.gov); Sue Walker (susan.walker@noaa.gov); Ted Deats (ted.deats@alaska.gov); Tom Cappiello (tom.cappiello@alaska.gov); Valerie Conner (valerie@akcenter.org)
Cc: Mike Salzetti (msalzetti@homerelectric.com); Marissa Emmons (marissa.emmons@mcmillen-llc.com); Emily Andersen (eandersen@longviewassociates.com); Charles Sauvageau; John Gangemi; Michael Yarborough; John Blum; Dwayne Adams
Subject: Grant Lake Hydroelectric Project Natural Resources Study Meeting Agenda

Grant Lake Hydroelectric Project (FERC No. 13212) Natural Resources Study Stakeholder Group:

Attached, you'll find the agenda for the upcoming Grant Lake Natural Resource Studies Meeting on December 12th in Anchorage. Incorporated into the agenda are both the meeting location and audio/video connection information for the webinar service for those that won't be attending in person. We've put forth a relatively aggressive schedule for the day. As such, we'd anticipate needing the full meeting time (8-5), to go over all of the natural resource areas, in detail.

Let me know if you have any questions/concerns and we look forward to seeing/hearing you on the 12th.

Cory

Cory Warnock
Long View Associates
www.longviewassociates.com
5771 Applegrove Ln.
Ferndale, Wa. 98248
O – 360-384-2662

From: Cory Warnock
Sent: Monday, December 03, 2012 1:23 PM
To: Susan Walker - NOAA Federal
Cc: Emily Andersen
Subject: RE: Dec. 12th Grant Lake Natural Resources Meeting (In Person vs. Webinar)

Thanks Susan and I agree! Given the variability associated with this first meeting as it relates to integrating new individuals, fluctuation/addition of contacts, etc., I decided not to go that route. Once our Stakeholder contacts are firmly established, that's the plan.

Cory

From: Susan Walker - NOAA Federal [<mailto:susan.walker@noaa.gov>]
Sent: Monday, December 03, 2012 1:21 PM
To: Cory Warnock
Subject: Re: Dec. 12th Grant Lake Natural Resources Meeting (In Person vs. Webinar)

Cory - I am planning to be there in person. You know, a Doodle poll would make this easier for you than lotsa emails....

Sue

On Mon, Dec 3, 2012 at 8:14 AM, Cory Warnock <cwarnock@longviewassociates.com> wrote:

Grant Lake Hydroelectric Project (FERC No. 13212) Natural Resources Study Stakeholder Group:

In preparation for the upcoming meeting on the 12th, I'm hoping to get an approximate headcount for folks that plan on attending in-person and via webinar. This will assist in setting up the meeting space appropriately. If you could please respond and let me know whether you'll be participating and/or which method you'll be utilizing, I'd appreciate it.

Thanks,

Cory

Cory Warnock

Long View Associates

www.longviewassociates.com

From: Cory Warnock
Sent: Monday, December 03, 2012 9:15 AM
To: Barbara Stanley (bstanley@fs.fed.us); Brenda Trefon (btrefon@kenaitze.org); Brent Goodrum (brent.goodrum@alaska.gov); Cassie Thomas (cassie_thomas@nps.gov); David Schade (david.w.schade@alaska.gov); Doug Mutter (douglas_mutter@ios.doi.gov); Doug Ott (dott@aidea.org); Doug Palmer (Doug.Palmer@fws.gov); Eric Rothwell (eric.rothwell@noaa.gov); Ginny Litchfield (ginny.litchfield@alaska.gov); Jan Konigsberg (jan@hydroreform.org); Jason Mouw (jason.mouw@alaska.gov); Jeffry Anderson (Jeffry_Anderson@fws.gov); Jim Ferguson (jim.ferguson@alaska.gov); Joe Klein (joe.klein@alaska.gov); Judith Bittner (judy.bittner@alaska.gov); K.J. Muschovic (kjmushovic@blm.gov); Katherine McCafferty (katherine.a.mccafferty2@usace.army.mil); Ken Hogan (kenneth.hogan@ferc.gov); Kevin Laves (klaves@fs.fed.us); Kim Sager (kimberly.sager@alaska.gov); Lynnda Kahn (Lynnda_Kahn@fws.gov); Max Best (mbest@borough.kanai.ak.us); Mike Cooney (mcooney@arctic.net); Monte Miller (monte.miller@alaska.gov); Pamela Russell (pamela.russell@alaska.gov); Phil Brna (phil_brna@fws.gov); Phil North (north.phil@epa.gov); Ricky Gease (ricky@kenairiversportfishing.com); Robert Stovall (rstovall@fs.fed.us); Robin Swinford (robin.swinford@alaska.gov); Shina Duvall (shina.duvall@alaska.gov); Sue Walker (susan.walker@noaa.gov); Ted Deats (ted.deats@alaska.gov); Tom Cappiello (tom.cappiello@alaska.gov); Travis Moseley (tmoseley@fs.fed.us); Valerie Conner (valerie@akcenter.org)
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Cory

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C – 360-739-0187
F – 360-542-2264

From: Cory Warnock
Sent: Monday, December 03, 2012 9:22 AM
To: Emily Andersen
Subject: FW: Dec. 12th Grant Lake Natural Resources Meeting (In Person vs. Webinar)

From: Laves, Kevin -FS [<mailto:klaves@fs.fed.us>]
Sent: Monday, December 03, 2012 9:19 AM
To: Cory Warnock
Subject: RE: Dec. 12th Grant Lake Natural Resources Meeting (In Person vs. Webinar)

Hi Cory - I will not be participating.

Kevin Laves
Terrestrial Program Manager
Kenai Peninsula Zone
Chugach National Forest
Moose Pass, Alaska
desk: 907.288.7746
cell: 907.362.1562
fax: 907.288.5111

From: Cory Warnock [<mailto:cwarnock@longviewassociates.com>]
Sent: Monday, December 03, 2012 8:15 AM
To: Stanley, Barbara -FS; Brenda Trefon (btrefon@kenaitze.org); Brent Goodrum (brent.goodrum@alaska.gov); Cassie Thomas (cassie_thomas@nps.gov); David Schade (david.w.schade@alaska.gov); Douglas Mutter (ios.doi.gov); Doug Ott (dott@aidea.org); Doug Palmer (Doug.Palmer@fws.gov); Eric Rothwell (eric.rothwell@noaa.gov); Ginny Litchfield (ginny.litchfield@alaska.gov); Jan Konigsberg (jan@hydroreform.org); Jason Mouw (jason.mouw@alaska.gov); Jeffry Anderson (Jeffry_Anderson@fws.gov); Jim Ferguson (jim.ferguson@alaska.gov); Joe Klein (joe.klein@alaska.gov); Judith Bittner (judy.bittner@alaska.gov); K.J. Muschovic (kjmushovic@blm.gov); Katherine McCafferty (katherine.a.mccafferty2@usace.army.mil); Ken Hogan (kenneth.hogan@ferc.gov); Laves, Kevin -FS; Kim Sager (kimberly.sager@alaska.gov); Lynnda Kahn (Lynnda_Kahn@fws.gov); Max Best (mbest@borough.kanai.ak.us); Mike Cooney (mcooney@arctic.net); Monte Miller (monte.miller@alaska.gov); Pamela Russell (pamela.russell@alaska.gov); Phil Brna (phil_brna@fws.gov); Phil North (north.phil@epa.gov); Ricky Gease (ricky@kenairiversportfishing.com); Stovall, Robert -FS; Robin Swinford (robin.swinford@alaska.gov); Shina Duvall (shina.duvall@alaska.gov); susan.walker@noaa.gov; Ted Deats (ted.deats@alaska.gov); Tom Cappiello (tom.cappiello@alaska.gov); Moseley, Travis -FS; Valerie Conner (valerie@akcenter.org)
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From: Cory Warnock
Sent: Tuesday, December 04, 2012 12:21 PM
To: Emily Andersen
Subject: FW: Dec. 12th Grant Lake Natural Resources Meeting (In Person vs. Webinar)

From: Plett, Krissy A (DNR) [<mailto:krissy.plett@alaska.gov>]
Sent: Tuesday, December 04, 2012 10:55 AM
To: Cory Warnock
Subject: RE: Dec. 12th Grant Lake Natural Resources Meeting (In Person vs. Webinar)

Cory,

I plan on attending the morning session of the webinar. Please send me the information to assess this. Thank you.

Krissy Plett
Natural Resources Manager I
(907) 269-8641 telephone
(907) 269-8904 fax

From: Deats, Theodore A (DNR)
Sent: Monday, December 03, 2012 8:30 AM
To: Cory Warnock
Cc: Walton, Michael L (DNR); Plett, Krissy A (DNR); Deats, Theodore A (DNR)
Subject: RE: Dec. 12th Grant Lake Natural Resources Meeting (In Person vs. Webinar)

I will participate by Webinar.

Please include Mike Walton and Krissy Plett on your distribution list.

Ted Deats

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Sent: Monday, December 03, 2012 8:15 AM
To: Barbara Stanley (bstanley@fs.fed.us); Brenda Trefon (btrefon@kenaitze.org); Goodrum, Brent W (DNR); Cassie Thomas (cassie_thomas@nps.gov); Schade, David W (DNR); douglas_mutter@ios.doi.gov; Ott, Douglas C (AIDEA); Doug Palmer (Doug.Palmer@fws.gov); Eric Rothwell (eric.rothwell@noaa.gov); Litchfield, Virginia P (DFG); Jan Konigsberg (jan@hydroreform.org); Mouw, Jason E B (DFG); Jeffry Anderson (Jeffry_Anderson@fws.gov); Ferguson, Jim M (DFG sponsored); Klein, Joseph P (DFG); Bittner, Judith E (DNR); K.J. Muschovic (kjmushovic@blm.gov); Katherine McCafferty (katherine.a.mccafferty2@usace.army.mil); Ken Hogan (kenneth.hogan@ferc.gov); Kevin Laves (klaves@fs.fed.us); Sager, Kimberly R (DNR); lynnda_kahn@fws.gov; Max Best (mbest@borough.kanai.ak.us); Mike Cooney (mcooney@arctic.net); Miller, Monte D (DFG); Russell, Pamela J (DNR); Phil Brna (phil_brna@fws.gov); Phil North (north.phil@epa.gov); Ricky Gease (ricky@kenairiversportfishing.com); Robert Stovall (rstovall@fs.fed.us); Swinford, Robin E (DNR); Duvall, Shina A (DNR); Sue Walker (susan.walker@noaa.gov); Deats, Theodore A (DNR); Tom Cappiello (tom.cappiello@alaska.gov); Travis Moseley (tmoseley@fs.fed.us); Valerie Conner (valerie@akcenter.org)
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Grant Lake Hydroelectric Project (FERC No. 13212)
Natural Resources Studies Meeting
Residence Inn Midtown, 1025 35th Avenue, Anchorage, AK
December 12, 2012, 8:00 am to 5:00 pm

In Attendance

Dwayne Adams, USKH
Amal Ajmi, ERM *[via phone]*
Audrey Alstrom, Alaska Energy Authority (AEA)
Emily Andersen, Long View Associates (LVA)
Jeff Anderson, U.S. Fish and Wildlife Service (USFWS)
Patti Berkahn, Alaska Department of Fish and Game (ADF&G) *[via phone]*
John Blum, McMillen LLC (McMillen)
Valerie Conner, Alaska Center for Environment
Ted Deats, Alaska Department of Natural Resources (ADNR) *[via phone]*
Shina Duvall, ADNR *[via phone]*
Gary Fandrei, Cook Inlet Aquaculture Association (CIAA) *[via phone]*
John Gangemi, ERM
Ricky Gease, Kenai River Sportfishing Association (KRSFA) *[via phone]*
David Griffin, ADNR (Alaska State Parks)
Ken Hogan, Federal Energy Regulatory Commission (FERC) *[via phone]*
Jan Konigsberg, Hydro Reform Coalition (HRC) *[via phone]*
Denise Koopman, Army Corps of Engineers (ACOE)
Ginny Litchfield, ADF&G *[via phone]*
Katie McCafferty, ACOE *[via phone]*

Mark Miller, BioAnalysts (BA) *[via phone]*
Monte Miller, ADF&G
Sally Morsell, Northern Ecological Services (NES) *[via phone]*
Travis Moseley, U.S. Forest Service (USFS) *[via phone]*
Paul Pittman, Elemental Solutions (ES) *[via phone]*
Krissy Plett, ADNR *[via phone]*
Eric Rothwell, National Oceanic and Atmospheric Administration (NOAA Fisheries)
Pam Russell, ADNR *[via phone]*
Kim Sager, ADNR *[via phone]*
Mike Salzetti, Kenai Hydro, LLC (KHL)
Charles Sauvageau, McMillen
Lesli Schick, ADNR
Levia Shoutis, ERM
John Stevenson, BA
Ron Stanek, Cultural Resource Consultants, Inc. (CRC) *[via phone]*
Robert Stovall, USFS
Cassie Thomas, National Park Service (NPS) *[via phone]*
Sue Walker, NOAA Fisheries
Cory Warnock, LVA
Mike Yarborough, Cultural Resource Consultants (CRC)

Meeting Summary

Introductions and Agenda

Cory Warnock (LVA) began the meeting with introductions and then reviewed the proposed meeting agenda (see [Attachment 1](#)):

- Project Overview and Update
- Licensing Path Forward
- Natural Resources Studies
 - Aquatic Resources
 - Water Resources
 - Terrestrial Resources
 - Cultural Resources
 - Recreation and Visual Resources
- Closing

Project Overview and History

Mike Salzetti (KHL) presented an overview and history of the Grant Lake Hydroelectric Project (Project) (see PowerPoint included as Attachment 2). Mike S. gave a general description of the utility, Homer Electric Association (HEA), noting that Kenai Hydro, LLC (KHL), the applicant for the Project, is a wholly-owned subsidiary of HEA (*Slide 3*¹). Mike S. indicated that the purpose for the Project is three-fold (*Slides 4-7*): 1) to meet the Board of Director's goal for an increase in its renewable energy portfolio; 2) to become a more independent utility by adding to its generation capacity, and 3) to create an alternate, reliable energy source in light of the anticipated impending shift to higher gas prices.

Mike S. briefly described the history of the proposed Project to date (*Slides 8-10*), explaining that feasibility studies were conducted for four potential sites (Grant Lake, Falls Creek, Ptarmigan Lake, and Crescent Lake), two of which (Grant Lake and Falls Creek) were carried forward and environmental baseline studies were conducted in 2009. The results of these studies were used in the development of the Pre-Application Document (PAD), filed with FERC August 2009, and in the development of the formal draft study plans.² The study program got underway in 2010, but was suspended by KHL later that year following FERC scoping, which led to significant stakeholder comments on the draft plans, in order to take the comments into consideration and revisit the draft study plans. Since that time, KHL has received a second preliminary permit (March 2012), hired McMillen as the Natural Resources Study consultant, and made significant updates to the study plans to address stakeholder comments.

Mike S. introduced the key parameters of the Project (*Slide 11*), noting that there are currently two proposals under consideration: one with a 2-foot dam, and the other without a dam. He reminded the group that the original proposal, as described in the PAD, was for a 10-foot dam. Mike reviewed a series of aerial views (*Slides 12-17*) showing the location of the proposed Project. The proposed Project is generally located to the west of the Moose Pass area (*Slide 12*). Mike S. noted that the original proposal included two potential transmission line access road options, but that one had since been eliminated ("Option 1" in *Slide 13*) to avoid its running parallel to the proposed path of the Iditarod National Historic Trail (INHT). Mike S. described the general layout of the proposed Project facilities (*Slide 14*). Mike S. pointed out that not all issues related to the INHT have been resolved – the proposed INHT route currently runs through the proposed site of the Project powerhouse – but KHL will be working with the relevant agencies and organizations to come up with a potential re-route of the INHT around the powerhouse area. Mike S. stated that due to a large waterfall on Grant Creek that creates a natural anadromous barrier, no salmonids can access the lake and there are no resident salmonids in the lake. The only known species to inhabit Grant Lake are stickleback and sculpin (*Slide 15*). Mike S. indicated that the need for the Project to have a dam is partially dependent on what is determined to be necessary for bypass flows, but noted that given the relatively steep topography of the lake and shoreline, the impact on resources in the lake due to lake level changes, are expected to be minimal (*Slides 16-17*).

¹ For all PowerPoint presentations given during the meeting, slide numbers refer to the PDF page number.

² In May 2010, a revised Project description was filed with FERC, which indicated that the Falls Creek diversion had been removed from the Project proposal, and the associated impacts for which would no longer be studied.

Mike S. concluded his presentation with a summary of the key benefits for building the Project (*Slide 18*).

- *Comment:* Jeff Anderson (USFWS) asked if the current Project proposal is documented anywhere.
Response: Cory Warnock (LVA) indicated that the revised study plans contain the current proposal. Mike S. added that the description in the PAD (August 2009) together with the FERC-filed updated Project descriptions (May and August 2010) (available on the Project website), also reflect the changes made to the current to the original proposal.
- *Comment:* David Griffin (ADNR) asked what from the feasibility analysis, led to the ultimate decision to move forward with Grant Lake.
Response: Mike S. indicated that it was a combination of the expected environmental impacts and economical factors. Valerie Conner (Alaska Center for Environment) noted that the other options were viewed as more controversial, primarily due to recreational and visual resources issues.
- *Comment:* Travis Moseley (USFS) noted that, related to the INHT, KHL should anticipate needing to negotiate with ADNR related to rights-of-way and land ownership.
Response: Mike S. agreed and said that he expected the interested parties to include the USFS, ADNR, and Kenai Borough, among others.
- *Comment:* Jan Konigsberg (HRC) asked if the cost of Project construction is yet known or what financing mechanisms may be used. Jan also asked whether the energy generated by the Project would be used for HEA customers or put on the wholesale market.
Response: Mike S. replied that the Project cost will be determined by the yet-to-be hired engineering consultant (a request for proposal (RFP) for which will go out this winter), but shared that the preliminary estimate is approximately \$35 million. Mike S. indicated a portion of the funding may be covered by KHL and some was going to be sought via grants. As for the intended use of the power, Mike S. stated that the energy would primarily be used by their customers.
- *Comment:* Valerie Conner asked the reason why the expected rated generator output to be the same (5 megawatts [MW]) for the originally proposed 10-foot dam and for the currently proposed no dam and 2-foot dam options.
Response: Mike S. clarified that the 5-MW is the maximum capacity for use during peaking periods, but that a Project will typically run at less than full capacity. He noted that a higher dam (10-foot versus 2-foot or no dam), allows for more storage capacity for use during high-use periods.

Licensing Overview

Cory Warnock (LVA) presented an overview of the licensing process (see PowerPoint included by [Attachment 3](#)). Cory briefly reviewed the licensing process to date (*Slides 2-3*), reiterating many of the same points made by Mike S. earlier. Cory noted that when formal stakeholder

comments were filed in April-July 2010, KHL developed a matrix of the comments by resource area, and that since, KHL has updated the matrix with responses that include, as appropriate, cross-references to the relevant page/section of the respective study plan where a given comment is addressed (see Draft Study Plans Comment/Response Table included as [Attachment 4](#)).

- *Comment:* Eric Rothwell (NOAA Fisheries) asked the reason for selection of the Traditional Licensing Process (TLP).
Response: Cory indicated that while the process decision preceded his involvement with the Project, it is his understanding that the decision was made in consultation with stakeholders at the time. Ken Hogan (FERC) added that because the Integrated Licensing Process (ILP) is the default process, an applicant has to file with FERC a request to use the TLP, which FERC then reviews and either denies or approves.

Cory reviewed the main objectives of the meeting (*Slide 4*), which are to: 1) identify and modify, as needed, current stakeholder contacts; 2) introduce the McMillen Natural Resources Studies team; 3) review proposed studies, by resource area, and 4) distribute the final study plans.

Cory explained that KHL's general plan is to move forward with the final study plans, which will be implemented in 2013/14, and noted that FERC has been consulted regarding KHL's general approach and has confirmed its consistency with the TLP requirements (*Slides 5-6*). To this end, Cory indicated that some team members (Mike S., John Blum, John Stevenson, Chuck Sauvageau, Gary Fandrei, and himself) were at the Project for an initial site visit the day before (December 11). Cory also laid out the steps and schedule for the 2nd stage consultation (*Slides 7-8*), noting that KHL is currently at the beginning of the stage, with the commencement of the study program, and that it would conclude with the filing of a Draft License Application (DLA) and meeting thereafter to discuss the study results, reports, and DLA (in summer 2014).

- *Comment:* Jeff Anderson asked whether there would be an opportunity to comment on the final study plans. Monte Miller (ADF&G) echoed the need for stakeholders to have an opportunity to submit written comments in light of the time that has lapsed since the draft study plans were discussed, and the significant changes that have since been made to them.
Response: Cory noted that consistent with the TLP, the formal commenting on draft study plans was completed in 2010; that said, Cory added that questions and suggested clarifying edits to study plans would be accepted. Cory encouraged stakeholders to communicate any questions (via email or phone) directly with the appropriate resource area lead as specified in the team organizational chart (see *Slide 11* and [Attachment 5](#)). Ken Hogan emphasized that any suggested substantive edits to study plans should be focused on any proposed significant changes in the status of a particular resource area (RTE designation) since the initial study planning phase, or a significant change in the proposed Project infrastructure that necessitates a corresponding modification to a study plan. Mike Salzetti noted that no significant changes related to RTE species or Project infrastructure existed. Jan Konigsberg pointed out that there is additional opportunity to comment on studies and make additional study requests as part of commenting on the DLA, and Ken Hogan added, also again as part of commenting on the Final License Application (FLA). Monte Miller also noted that if there is a dispute regarding a study

request that FERC does not concur with, the agency or organization requesting the study has the discretion to conduct it at its own expense.

Cory summarized KHL's overarching commitments to making the licensing process a success (*Slide 9*), noted that the Project website will be the conduit for sharing of Project-related materials throughout the process (*Slide 10*), and reviewed once again the Natural Resources Studies Team organizational chart (*Slide 11*).

- *Comment:* Sue Walker (NOAA Fisheries) asked if the Project website includes the formal stakeholder and FERC draft study plan comment letters.
Response: Cory concurred, and stated that the website is currently up to date with all relevant Project materials. Mike S. also noted that historic existing information about the Project is available on the website.
- *Comment:* Monte Miller asked if the Project website has a dedicated area for the public to post comments.
Response: Cory indicated that it currently does not, but noted that it was a good idea, and something KHL would look into the possibility of adding to the website.

Fish and Aquatics

John Blum (McMillen), the Aquatics Resources task lead, started the presentation for the Fisheries and Aquatics Study Plan (see [Attachment 6](#)), by introducing the other members of the Aquatics Resources team and the eight major components of the Aquatics Resources Study (*Slides 2-3*), which include: 1) Fish Weir Installation and Monitoring; 2) Resident and Rearing Fish Abundance and Distribution; 3) Salmon Spawning Distribution and Abundance; 4) Trail Lake Narrows Fish Study; 5) Aquatic Habitat Mapping; 6) Instream Flow Study; 7) Macroinvertebrate Studies, and 8) Periphyton Studies.

Gary Fandrei (CIAA) described the objectives, orientation of the crew, field camp setup, weir installation, monitoring and schedule for the Fish Weir Installation and Monitoring study component (*Slides 4-7*) – field work to occur May through mid-November and comprehensive Aquatics Resources Study report to be submitted January 2014 – and photos of a sample weir and typical field camps (*Slides 8-9*). Gary noted that the monitoring spans a relatively long period of time to try to capture all fish species. He also noted that in the event of a significant flood, the weir pickets would be pulled out.

- *Comment:* Jeff Anderson (USFWS) asked what locations are under consideration for setting up the field camp.
Response: Gary responded that the current plan to set up as close to the weir as possible, probably somewhere in the lower 200 yards of Grant Creek, but not directly on the streambank.

John Stevenson (BA) introduced the Grant Creek Resident and Rearing Fish Abundance and Distribution study component, starting with a review of the available background information, USFWS (1961) and Arctic Environmental Information and Data Center (AEIDC; 1983)(*Slides*

10-13), and summarized the study details of the 2009/2010 KHL work (*Slides 14-23*). John S. noted that the field work in 2010 was suspended early, and therefore, the results for which were incomplete. John S. then outlined the proposed effort for 2013, noting that the intent is to continue the study where it had left off in 2010, conducting field work in the same 5 reaches, with the addition of winter habitat and fish monitoring and rainbow trout habitat use and spawning using radiotelemetry in response to stakeholder comments (*Slide 24*). John S. outlined the proposed data analysis (*Slides 25-27*) and field work and reporting schedule (*Slides 28-29*) – field work to occur February through March (winter work) and May through mid-October and comprehensive Aquatics Resources Study report to be submitted January 2014.

Mark Miller (BA) introduced the Grant Creek Salmon Spawning and Abundance study component, starting with a review of the available background information, ADF&G (1951/1981) and AEIDC (1983)(*Slide 30*). Mark summarized the study details of the 2009/2010 KHL work (*Slides 31-35*). Mark noted that most spawning ended within Reach 4, and also that escapement estimates for Chinook and sockeye in 2010 (231 and 6,293, respectively) were significantly higher than those from the earlier work (19 and 61, respectively).

- *Comment:* Sue Walker (NOAA Fisheries) asked for clarification regarding the data analysis used for the historical counts compared to that of the 2010 work.
Response: Mark replied that the historical counts were characterized as single time, visual peak counts, whereas, the 2010 work used area-under-the-curve and visual counts collected over a study season.

Mark then outlined the proposed effort for 2013, describing the field work, data analysis, reporting and work schedule (*Slides 25-28*) – field work to occur late July through early November and a comprehensive Aquatics Resources Study report to be submitted January 2014. Mark also reviewed the stakeholder comments that were incorporated into the two fisheries study components (*Slides 39-41*).

Related to the Trail Lake Narrows Fish Study, Mark stated that no previous work has been conducted in Trail Lake Narrows in association with the potential bridge site location (*Slide 42*). Mark outlined the proposed 2013 effort, including the field work, data analysis, reporting, and work schedule (*Slides 43-45*) – field work to occur late July through early August and a comprehensive Aquatics Resources Study report to be submitted January 2014.

John B. introduced the Grant Creek Aquatic Habitat Mapping study component, starting with a review of the study details, including stakeholder consultation during study planning, of the 2009/2010 KHL work (*Slides 46-48*). John B. then outlined the proposed 2013 effort, noting that the intent is to ground truth the 2010 work, and modifying as needed. John showed an aerial photo of the transect locations of key habitats, the work schedule, and reviewed the comments from the draft study plan that were incorporated into the current plan (*Slides 49-53*) – field work to occur April through May and a comprehensive Aquatics Resources Study report to be submitted January 2014.

- *Comment:* Jeff Anderson asked whether a winter survey would be considered in light of the potential change in flows due to Project operations.

Response: John B. indicated that they can utilize the data collected from the Resident and Rearing Fish Abundance and Distribution winter work to evaluate aquatic habitat.

John B. introduced the Grant Creek Instream Flow Study component, starting with a review of the 2009/2010 KHL work (*Slides 54-55*). John B. noted that no high flow water surface area (WSE) measurements were taken and that, as a result, data analysis was not completed. John B. then outlined the proposed 2013 effort, noting that the primary objective is to verify the information collected at the same 18 transects of the 2009-10 effort and determine what has changed since then. John B. described the field work, data analysis, reporting, and work schedule, and showed photos of flows in select reach locations (*Slides 56-62*) – field work to occur April through November and study report to be submitted January 2014. John B. explained that he had discussed the Project with Thomas Payne, to develop an appropriate suite of models for Grant Creek. Also, for Reach 5, they would be utilizing Thompson (1972) to assess connectivity for upstream passage into representative pools (*Slide 58*). John B. pointed out that the study report would be detailed, to include calibration and habitat suitability index (HSI) data, the Instream Flow Incremental Methodology (IFIM) information, and Reach 5 calibration data (*Slide 59*). John B. also reviewed the stakeholder comments on the draft study plan that were incorporated into the current plan (*Slide 63*).

- *Comment:* Eric Rothwell (NOAA Fisheries) noted that he was not familiar with Thompson (1972), and asked 1) without having existing velocity measurements, whether there was a way to verify the use of the Thompson method in Grant Creek; and 2) whether any stream in the Thompson paper was similar to Grant Creek.

Response: John B. indicated that velocity measurements would be taken as part of the 2013 field effort, which could be used to verify the use of Thompson in Grant Creek, and noted that he would locate the paper and forward it to Eric.

- *Comment:* Valerie Conner (Alaska Center for Environment) asked what the threshold is for a “reasonable” impact of a hydropower facility on the surrounding environment and who makes that decision.

Response: Cory Warnock explained that the studies are designed to determine the existing environment and that the study information coupled with the engineering information should allow for the determination of the Project impact. Ken Hogan added that the “threshold” decision is ultimately FERC’s.

Sally Morsell (NES) introduced the Grant Creek Macroinvertebrate Study and Periphyton Study components, starting with a review of the work completed by KHL in 2009 (*Slides 64-67 and Slides 69-70, respectively*) and then outlined the proposed 2013 efforts. The primary objective of these studies is to replicate the 2009 effort and to combine the two sets of results to further establish the baseline condition. Sally described the field work, sample processing and identification, and data analysis and reporting for both efforts (*Slides 68 and 71, respectively*), the work schedule, and the stakeholder comment that were incorporated into the study plan (*Slides 72-73*) – field work to occur mid-August and a comprehensive Aquatics Resources Study report to be submitted January 2014.

- *Comment:* Monte Miller (ADF&G) asked whether a single sampling in August is a sufficient representation of the stream's productivity, or if potential early season development is not being captured.
Response: Sally replied that because the study is not intended to be a benthic macroinvertebrate ecological study, the single-sample being collected in two different years accomplishes the objective to characterize the macroinvertebrate and periphyton populations.

John B. briefly reviewed the stakeholder consultation that occurred during the development of the draft aquatics study plans in 2009 and 2010 (*Slides 74-77*) and then reviewed the permits anticipated for the various components of the Aquatics Resources Study (*Slides 78-79*) – for weir installation/monitoring and fisheries investigations, ADF&G Fisheries Resource Permit and Fish Habitat Permit, USFS Special Use Permit (SUP), and KPB Floodplain Permit – and asked that if any permits appear to be missing from the list, to inform KHL and/or McMillen.

- *Comment:* Pam Russell (ADNR) stated that she does not see ADNR identified in the presentation, and recommended submittal of a Multi-Agency Permit Application. Jenny Litchfield (ADF&G) added that a permit may be required for the macroinvertebrate study, which does not appear to be included on the current permit lists.
Response: Cory Warnock replied that the plan is to submit a Multi-Agency Permit Application, which is identified in a summary table of 2013 study permitting requirements, available as a meeting handout and on the Project website (see [Attachment 7](#)). Cory added that KHL appreciates any input folks have regarding necessary permits.

Water Resources

Chuck Sauvageau (McMillen), the Water Resources task lead, started the presentation for the Water Resources Study Plan (see [Attachment 8](#)) by introducing the other members of the Water Resources team and the three major components of the Water Resources Study (*Slides 2-5*), which include: 1) Water Quality (WQ) and Temperature Study; 2) Hydrology Study, and 3) Geomorphology Study. Chuck showed a map depicting the location of thermistors, gages, and the natural outlet sampling point for the WQ and hydrology studies (*Slide 6*).

Chuck introduced the Water Quality and Temperature Study component, starting with a review of existing information for Grant Lake, USGS (1950's), AEIDC (1981-1982), and 2009/2010 KHL work (*Slide 7*), and for Grant Creek, USGS (1950-1958), AEIDC (1982), and 2009/2010 KHL work (*Slide 9*). Chuck then outlined the proposed 2013 effort (*Slides 8, 10 and 13*), noting that the September 2013 water quality sampling is intended to complete the data collection efforts that occurred in June/August of 2009 and 2010. Related to collection of water quality and temperature data in Trail Creek Narrows, Chuck pointed out that there is no historical information for that specific area; as such, the 2013 effort would include three water chemistry sampling efforts in spring, summer, and fall (*Slide 12*).

Chuck introduced the Hydrology Study component, starting with a review of the historical work completed (*Slide 14*). He then outlined the proposed 2013 effort (*Slides 15-16*).

- Comment:* Eric Rothwell (NOAA Fisheries) asked whether winter flows would be collected as part of the Hydrology Study.

Response: Chuck indicated that winter flows could be collected provided there are personnel available to do so. Chuck noted that one concern is that the relatively short battery life of the loggers (3-4 weeks) requires regular replacement, which could pose a potential safety concern in light of the inclement weather conditions. Eric suggested point measurements rather than continuous ones, to which, Chuck indicated this would be a possibility.
- Comment:* Eric Rothwell stated that between the Aquatics Resources Study, habitat information is being collected, and Hydrology Study, where discharge measurements are being taken for the development of a stage-discharge rating curve, the studies do not seem to propose a step for conducting an impacts analysis, which might include the development of a routing model and that perhaps it would be worthwhile to consider expanding the 2013 data collection effort, to ensure all necessary data are available for development of such a model, should the need arise.

Response: Chuck replied that the intent of the Water Resources Study is to collect existing information, the initial building blocks of a routing-type model. Cory Warnock pointed out that since operation scenarios have yet to be developed; it might be a challenge to identify all necessary data parameters before the 2013 study effort gets underway.
- Comment:* Sue Walker (NOAA Fisheries) asked if there is an overview of the proposed Project operations that could be shared.

Response: Referring back to the Overview and History presentation for the key Project parameters (Slide 11), Mike Salzetti explained that the proposal has not changed significantly since the revised Project description was filed in August 2010, with the exception of the proposed access route/transmission line alignment.

Paul Pittman (ES) introduced the Geomorphology Study component, noting that minimal work has been conducted to date for both Grant Lake shoreline erosion or Grant Creek sediment transport (*Slides 17-18*). Paul then outlined the proposed efforts for 2013 (*Slides 17-18*).

- Comment:* Eric Rothwell asked how the impact of Project operations on the existing geomorphic environment would be assessed (e.g., would there be a shear stress analysis to assess shoreline erosion impacts in Grant Lake).

Response: Paul acknowledged that changes to lake elevation could change the littoral zone, and similarly, a change in creek flows could impact the transport processes. Paul indicated that the Shields equation would likely be used to quantify the sediment transport impacts. Eric suggested detailing the equations and impacts analysis in the study plan. Paul and Eric agreed to have a follow up discussion regarding this topic.

Chuck reviewed the permitting needs (Multi-Agency Permit Application for WQ/temperature and geomorphology and a Fish Habitat Permit for hydrology) and work schedule for each of the three Water Resources Study components (*Slides 19-20*) – field work for WQ/temperature to occur September (Grant Lake and Grant Creek) and April through September (Trail Creek

Narrows), for hydrology April through mid-November, and for geomorphology mid-April through mid-June, with a comprehensive Water Resources Study report to be submitted January 2014.

- *Comment:* Katie McCafferty (ACOE) noted that ACOE's oversees permitting related to fill of wetlands, and based on the discussion, it does not appear that such a permit would be applicable to the Water Resources Study. She will, however, plan to review the Multi-Agency Permit Application to confirm.

Response: Cory thanked Katie for the comment.

- *Comment:* Sue Walker asked if temperature monitoring will be done within salmon redds, and if not, whether it could be. Sue added that defining the operational proposal now would be beneficial to allow for study of the potential impact of Project operations on temperature as it relates to redds, noting that spawning is a key resource value, and thus, it is important to assess the Project impacts on upwelling and/or downwelling within spawning redds.

Response: Mike S. stated that it is a challenge to refine the operational proposal before completion of the environmental analysis, specifically before knowing the minimum flows needed in the bypass reach. John Stevenson (BA) commented that monitoring within the redds is not currently planned. He noted concern with potentially disrupting redds, in particular when needing to regularly replace batteries in the sensors, and wondered if it would be acceptable to sacrifice a few redds in order to take the desired measurements. Eric Rothwell reiterated earlier concerns about the need to evaluate the Project impacts. Sue Walker stated that once the initial data are in, the Water Resources Study would possibly need to be expanded to assess egg survival.

- *Comment:* Jeff Anderson (USFWS) noted that the high flow measurement currently planned is for 200 cfs, and asked whether, after initial measurements are taken, the high flow value will be modified, as needed. Jeff also asked if un-manned measurement collection was considered.

Response: John Blum responded yes, the high flow could change, but noted that instream flow can be modeled 2.5 times the high flow value. Chuck indicated that the field crew may utilize an existing cable system and un-manned ADCP to collect high flow discharge data.

<<LUNCH BREAK>>

Terrestrial Resources

John Gangemi (ERM), the Terrestrial Resources task lead, started the presentation for the Terrestrial Resources Study Plan (see [Attachment 9](#)) by introducing the other members of the Terrestrial Resources team and the seven major components of the Terrestrial Resources Study and the study work schedule (*Slides 2-5*), which include: 1) Vegetation-type Mapping; 2) Sensitive Plant and Invasive Plant Survey; 3) Mapping of Wetlands and Other Waters of the

U.S.; 4) Raptor Nesting Surveys; 5) Breeding Landbird and Shorebirds Surveys; 6) Waterbird Surveys, and 7) Terrestrial Mammal Surveys. Field work for the three botanical components to occur July 2013, for raptors June-July 2013 and 2014, for landbirds/shorebirds May-June 2013, waterbirds and terrestrial mammals, November-December 2013 and February-March 2014, and a comprehensive Terrestrial Resources Study report to be submitted January 2014.

In the absence of the study lead, Katy Beck (Beck Botanical Services), John G. introduced the Vegetation-type Mapping and Sensitive and Invasive Plant Survey components, explaining that vegetation type mapping exists for the general Project area (USFS 2007), but that no work has been done to date related to sensitive and invasive plants (*Slide 8*). John G. outlined the proposed 2013 effort, including the goals, study area, pre-field steps, field sampling, data analysis, reporting, intended communications with stakeholders, and work schedule (*Slides 6-7 and 9-12*), pointing out that a Biological Evaluation (BE) would be developed related to the sensitive plants survey and would be submitted as part of a comprehensive Terrestrial Resources Study report in January 2014, then finalized in May 2014 based on USFS' feedback.

Levia Shoutis (ERM) introduced the Mapping of Wetlands and Waters of the U.S. component, starting with a description of the goals and assessment area of the mapping exercise (*Slides 15-16*), and then a review of the 2009/2010 KHL work (*Slides 17-19*). Levia then outlined the proposed 2013 effort, including pre-field tasks, field sampling, data quality control, reporting, communication with stakeholders, and work schedule (*Slides 20-24*).

Amal Ajmi (ERM) introduced the four terrestrial wildlife study components, describing the objectives, the 2009/2010 KHL work, and proposed 2013 effort for each (*Slides 25-37*). Cory Warnock noted that due to the summer 2014 goshawk nesting survey work, and the winter 2013-2014 waterbird and terrestrial mammal surveys, the data for these components would be submitted as an addendum to the already completed Terrestrial Resource Report (January 2014).

Cultural Resources

Mike Yarborough (CRC), the Cultural Resources task lead, started the presentation for the Cultural Resources Study Plan (see [Attachment 10](#)) by introducing the other members of the Cultural Resources team and the two major components of the Cultural Resources Study (*Slide 2*), which include: 1) Cultural Resources, and 2) Subsistence Use.

Mike Y. reviewed the cultural resources work conducted in the Project area to date USFS, CH2M Hill (1980), AEDIC (1983), and EBASCO (1984), and most recently, the work that commenced in 2010, but was suspended after initiation of Section 106 consultation (*Slides 3-4*). Mike Y. then outlined the proposed 2013 effort, which will start with a re-initiation of the Section 106 consultation, to define the Area of Potential Effect (APE)(*Slides 5-6*). Mike Y. pointed out that related to historic trails, there are two pieces to assess relative to cultural resources: the commemorative INHT, as well as other trails that may run through the Project area.

Mike Y. showed a map of the study area and reviewed the work schedule (*Slides 7-9*) – literature review and Section 106 consultation to occur early 2013, field work summer 2013, draft Historic

Properties Management Plan (HPMP) in winter 2013/2014, and a comprehensive Cultural Resources Study report January 2014. Mike Y. explained that the USFS' probability model (developed through a Programmatic Agreement with the State Historic Preservation Office [SHPO]) would be utilized for the historic and archaeological field study. Mike Y. noted that field work would commence once the ground was thawed and there was no snow, typically before vegetation begins to fill in.

Mike Y. reviewed the stakeholder comments received on the draft study plan and KHL's responses as well as the permitting requirements (USFS and ADNR)(*Slides 10-12*).

In the absence of the study lead, Ronald Stanek (CRC), Mike Y. introduced the Subsistence Use Study component, starting with a general definition of subsistence and noting that from a regulatory perspective, it is defined under both federal and state laws, the Kenai Peninsula being mostly a "non-subsistence area" by state law, and a "rural area" by federal law (*Slides 13-14*). Mike Y. stated that there had been no previous work done on subsistence use relative to the Project area, but that there is some relevant work that has been done on the Kenai Peninsula (Reed, Seitz et al. 1994, and Fall et al. 2000) and near the Project area (Davis, Fall, and Jennings 2003, and Fall et al. 2004) (*Slide 16*). Mike showed a data table and maps of the type of information that is collected for a subsistence use study (*Slides 17-19*). Mike then outlined the proposed 2013 effort, including the literature review, stakeholder comments received on the draft study plan, and work schedule, noting that no permits are required for the study (*Slides 20-23*) – literature review/field work to occur 2013 and a comprehensive Cultural Resources Study report to be submitted January 2014.

- *Comment:* Valerie Conner (Alaska Center for Environment) asked whether the Kenai River will be included as part of the study area and whether the APE to be defined as part of the Cultural Resources component, will be applied across all resource areas.
Response: Mike Y. replied that the Kenai River will be taken into consideration as part of the information gathering effort of the Subsistence Use Study component. Regarding the APE, Mike Y. stated that the APE is specific to cultural resources, which are focused on historic resources, whereas, other resources are of the present, and therefore, the study areas for each study will be defined as such. (*Ron Stanek joined via phone*) Ron added that as part of the information gathering, he will follow up with all communities that qualify as subsistence areas, either by federal or state law.
- *Comment:* Travis Moseley (USFS) noted that as a cooperating agency related to tribal consultation, maybe there should be a call with the USFS to discuss the study area relative to subsistence use.
Response: Mike Y. noted that as part of the Section 106 consultation, KHL will be already be talking with all interested tribes, native organizations, and village corporations at which point, subsistence use can also be discussed.

Recreational and Visual Resources

Dwayne Adams (USKH), the Recreational and Visual Resources task lead, started the presentation for the Recreational and Visual Resources Study Plan (see [Attachment 11](#)) by

introducing the other members of the Recreational and Visual Resources team and the two major components of the Recreational and Visual Resources Study (*Slide 2*), which include: 1) Recreational Use Study, and 2) Visual Resources Study.

Dwayne described the general study area for both study components, noting that it will likely be more expansive than the area being assessed in the other studies, and that it will be informed by a scenic viewing analysis (*Slide 3*). Dwayne also reviewed the work conducted in the area to date, most of which was done in association with the INHT (*Slide 4*). Dwayne then outlined the proposed 2013 effort (*Slides 5-9*), noting that the effort will be a continuation of the work started but then suspended in 2010 as well as focus on the Trail Lakes Narrows access route.

- *Comment:* Monte Miller (ADF&G) asked if there would be field cameras deployed on the trails.
Response: Dwayne responded that the plan is for the field crew to be on the trails at opportune times to determine use at high use periods and to interview some users; therefore, there is no need for cameras.

Dwayne explained that one of the stakeholder comments received on the draft study plan was to include the INHT for access and routing for effects on users, and that KHL planned to study that as a separate effort, the steps of which, Dwayne outlined (*Slides 11-14*).

Dwayne reviewed the balance of draft study plan comments received and KHL's corresponding responses and anticipated permit needs (i.e., a Special Use Permit [SUP] from the USFS) (*Slide 15*).

- *Comment:* Cassie Thomas (NPS) asked if an assessment of the natural soundscapes would be part of the Recreational Use Study and if so, what would be the methodology used to determine baseline conditions, similar to the use of key observation points (KOP) in visual impacts assessments.
Response: Dwayne indicated that noise would be part of the Recreational Use Study, specifically the impact of Project construction and operation on quality of life characteristics; however, taking baseline noise readings in the field was not currently planned, though it would not be significantly more effort to do so. Dwayne noted that the assessment could not be completed, however, until the Project operational scenario is better understood. Cassie suggested looking at the Visual Resources Study Plan proposed for the Susitna-Watana Hydroelectric Project (P-14241).
- *Comment:* David Griffin (ADNR) asked if KHL knows yet by what modes of transportation the Project area will be accessed by for the various studies.
Response: Mike S. responded that a helicopter will be used to drop off equipment, a boat will be used on the lake, and a floatplane may be used to move equipment to and from the lake.
- *Comment:* David Griffin (ADNR) asked if geotechnical work is planned yet.

Response: Cory Warnock indicated that such an effort may be a component of the future engineering study. Mike S. added that some work has already been done by Jacobson during the 2009/2010 work.

Closing

Cory Warnock stated that the draft notes from the meeting would be issued in approximately two weeks, at which time, KHL would request that stakeholders provide by January 20, 2013 comments on the meeting notes as well as comments/questions/points of clarification on the final study plans (ideally, as a single comprehensive response from each agency/organization), and suggested edits/additions to the Permitting Requirements table. Cory reiterated that all materials discussed during the meeting, including the final study plans, are available on the Project website.

- *Comment:* Monte Miller (ADF&G) asked when the next study plan meetings would be held.
Response: Cory replied that if and when additional meetings are warranted, is dependent on the input provided by the stakeholders related to the final study plans.

Action Items

- **KHL** to consider developing a section of the project website for the public to post comments regarding the project, licensing process, study program, etc.
- **John Blum (McMillen)** to locate Thompson (1972) and provide to Eric Rothwell (NOAA Fisheries).
- **Paul Pittman (ES) and Eric Rothwell (NOAA)** to have a follow up conversation about possible equations to include in the Water Resources study plan that might be used to estimate the potential change in sediment transport processes resulting from Grant Lake Project operations.
- **Cory Warnock (LVA)** to email stakeholders about providing by January 20: 1) comments on meeting notes; 2) comments/questions/requests for clarification on study plans; and 3) suggested modifications to the Permitting Requirements table.

Attachments

Attachments are available on the Natural Resources Studies Meeting (December 12, 2012), Work Groups page at www.kenaihydro.com.

- Attachment 1: Meeting Agenda
- Attachment 2: Grant Lake Project Overview and History PowerPoint presentation
- Attachment 3: Licensing Overview PowerPoint presentation
- Attachment 4: Draft Study Plans Comment/Response Table (dated 12/1/12)
- Attachment 5: Grant Lake Team Organization and Contact Chart
- Attachment 6: Fisheries and Aquatics PowerPoint presentation
- Attachment 7: 2013 Study Permitting Requirements
- Attachment 8: Water Resources PowerPoint presentation
- Attachment 9: Terrestrial Resources PowerPoint presentation
- Attachment 10: Cultural Resources PowerPoint presentation
- Attachment 11: Recreational and Visual Resources PowerPoint presentation

Grant Lake Hydroelectric Project (FERC No. 13212)
Grant Lake Project Natural Resources Studies Meeting
December 12, 2012
Residence Inn Midtown, 1025 35th Ave., Anchorage, AK
8:00 am to 5:00 pm

8:00am – 8:15am

- **Introductions and Agenda (C. Warnock)**
 - Introductions
 - Meeting intent
 - Agenda

8:15am – 9:00am

- **Project Overview and Update (M. Salzetti)**
 - HEA Introduction
 - History
 - Project description/development

9:00am – 9:30am

- **Licensing Path Forward (C. Warnock)**
 - Where are we in the process?
 - Path forward
 - Anticipated Schedule
 - Study plans and matrix

9:30am – 9:45am

- **Break**

9:45am – 10:15am

- **Natural Resource Studies (C. Warnock)**
 - Introduction to McMillen Team
 - Point individuals

10:15am – 11:45pm

- **Aquatic Resources Presentation (J. Stevenson/J. Blum)**
 - Review of work done to date
 - Tasks remaining
 - Plan for 2013
 - Schedule
 - Stakeholder comments and how they were addressed
 - Permitting
 - Questions/Comments

11:45pm – 12:45pm

- **Lunch (on your own)**

*Snacks to be provided during the day

12:45pm – 1:45pm

- **Water Resources Presentation (C. Sauvageau)**
 - Review of work done to date
 - Tasks remaining
 - Plan for 2013
 - Schedule
 - Stakeholder comments and how they were addressed
 - Permitting
 - Questions/Comments

1:45pm – 2:45pm

- **Terrestrial Resources Presentation (J. Gangemi)**
 - Review of work done to date
 - Tasks remaining
 - Plan for 2013
 - Schedule
 - Stakeholder comments and how they were addressed
 - Permitting
 - Questions/Comments

2:45pm – 3:00pm

- **Break**

3:00pm – 3:45pm

Cultural Resources Presentation (M. Yarborough)

- Review of work done to date
- Tasks remaining
- Plan for 2013
- Schedule
- Stakeholder comments and how they were addressed
- Permitting
- Questions/Comments

3:45pm – 4:30pm

- **Recreational and Visual Resources Presentation (D. Adams)**
 - Review of work done to date
 - Tasks remaining
 - Plan for 2013
 - Schedule
 - Stakeholder comments and how they were addressed
 - Permitting
 - Questions/Comments

4:30pm-5:00pm

- Next steps
- Website and SharePoint posting
- Global questions/comments

5:00pm

- Adjourn

*For those participating via webinar, the information below will allow you to see and hear the proceedings. Software install only takes a few seconds.

1. Please join my meeting.

<https://www3.gotomeeting.com/join/232775326>

2. Use your microphone and speakers (VoIP) - a headset is recommended. Or, call in using your telephone.

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Access Code: 232-775-326

Audio PIN: Shown after joining the meeting

Meeting ID: 232-775-326

From: Cory Warnock
Sent: Thursday, December 13, 2012 1:43 PM
To: Ken Hogan
Cc: Emily Andersen
Subject: Thank You

Hi Ken,

Wanted to drop you a quick note and thank you for attending the Grant Lake meeting yesterday. Your input and perspective were very much appreciated. I will obviously keep you apprised of developments as things move forward. If you have any thoughts related to the meeting or the process as a whole, please don't hesitate to give me a call or shoot me an email.

Thanks,

Cory

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From: Cory Warnock
Sent: Thursday, December 13, 2012 2:03 PM
To: Paul Pittman (ppittman@elementsolutions.org)
Cc: Eric Rothwell; Emily Andersen; Charles Sauvageau
Subject: Geomorph (Grant Lake)

Hi Paul,

I've Cc'd Eric Rothwell on this email for ease of contact. I think I could muddle my way through an explanation of what Eric was trying to articulate to you on the phone yesterday but I'm afraid that it wouldn't be anywhere near as concise and descriptive as what Eric could do himself. That being the case, and if you need the follow-up, I'd advise that you shoot him an email and/or give him a call. I explained to Eric our general process for moving forward and getting back clarifications and questions from Stakeholders as part of the meeting minute distribution so my assumption is that the geomorph issue Eric raised may be incorporated into that response as well. Thanks, Paul and let me know if you have any questions.

Eric, good seeing you yesterday and I'm looking forward to working with you on the project,

Cory

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From: Cory Warnock
Sent: Monday, December 17, 2012 10:14 AM
To: Eric Rothwell - NOAA Federal; Paul Pittman
Cc: charles.sauvageau@mcmillen-llc.com; Susan Walker - NOAA Federal; Emily Andersen
Subject: RE: Grant Lake/Creek Geomorphology

Hi Eric,

Thanks for the feedback. I'll defer to Paul for the appropriate technical details related to a response.

As for the review of the study plans, meeting minutes and input on our permit table, I'll be getting out an email (with attachments soon). As you and I discussed at our meeting, I fully understand and appreciate the amount of work you currently have with Susitna. To that end, if your responses to Grant Lake need to slip a bit, we can work with that and I will stay in contact with you in late January to gain a better feel for when we might see something. That work?

Thanks,

Cory

From: Eric Rothwell - NOAA Federal [mailto:eric.rothwell@noaa.gov]
Sent: Monday, December 17, 2012 10:09 AM
To: Paul Pittman
Cc: charles.sauvageau@mcmillen-llc.com; Susan Walker - NOAA Federal; Cory Warnock
Subject: Re: Grant Lake/Creek Geomorphology

Paul,

Thank you for the email, sorry I didn't reply Friday I was in the field.

I have not had the opportunity to review the proposed study plan in detail but from the presentation and conversations last week there seems to be some missing detail. In the study plan I can only find one paragraph that talks about fluvial geomorphology (in the Water Resources Draft Study Plan). It appears that there are two components, lake shore line erosion and spawning substrate recruitment. During your presentation it sounded like there would be bed mobility analysis to characterize spawning substrate recruitment, based on an incipient transport equation. That may or may not be sufficient or appropriate, what is needed is more detail about what data is being collected, how baseline sediment transport and bed mobility will be characterized, and then how will the project will change the channel morphology and substrate. The plan should include a description of models/equations being used, what assumptions are being made, what data is needed, and why that equation/model is appropriate. Ideally, we would then have an opportunity to review the plan and provide comments.

In general, an ability to assess the project effects is not present for any of the study areas. There are good characterization pieces but it will be necessary to be able to assess project operations on water quality (lake and stream temp), stream hydraulics, and morphology. Often this is done through a reservoir and routing model. I'm not sure how much back and forth is possible under the TLP but we will comment about this in a letter sometime in January or early February. Cory, it sounded like you wanted comments sometime around the 20th of January? That won't be possible for us with our Susitna deadlines.

Thanks,

Eric

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So, might I ask that you repeat your question/comment to me in a return email and allow me another chance to respond to your actual question? Thanks again Eric.

Meanwhile – have a great weekend!

Paul Pittman, LEG

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TITLE: CORRESPONDANCE BETWEEN PAUL PITTMAN (ELEMENT SOLUTIONS) AND ERIC ROTHWELL (NOAA) REGARDING GRANT CREEK SEDIMENT TRANSPORT METHODS CLARIFICATION

DECEMBER 2012

From: Paul Pittman
To: Eric Rothwell – NOAA Federal
Cc: Charles.sauvegeau@mcmillen-llc.com; Cory Warnock
Subject: Grant Lake/Creek Geomorphology
Sent: Fri 12/28/2012 5:38 PM

Hi Eric,

I hope you had a great holiday. Thank you in advance for forwarding your questions to me regarding the study plan. To insure we are discussing the same document, the study plan that I am working from is Water Resources Draft Study Plan, specifically sections 4.2.3, 6.3, and 7.3 for the fluvial geomorphology tasks. I will disclose that I was not involved in the writing of the study plan, however let me try expand on what I interpret the rationale and intent that the study plan authors may have had when they developed the plan. As you probably know, the sediment transport study plan element resulted from comments received during the formal agency comment period and it was a late arrival to the overall study plan, therefore no background data was previously collected in the 2009 and 2010 efforts. My understanding is that the basis of the Grant Creek study plan was to mirror the type of analysis and level of effort done by Inter-Fluve in 2004 for the Cooper Lake relicensing. The premise being that Inter-Fluve study plan provided an adequate level of analysis and information for the FERC process, and so application of those methods at Grant Creek would therefore also be acceptable.

The Inter-Fluve study incorporates both qualitative and some degree of quantitative analysis to document the existing conditions and to interpret potential changes. With respect to the Grant Creek analysis, the sediment supply analysis will be a qualitative evaluation. I plan on integrating field and desktop observations to estimate the yields and characteristics of sediment delivery from the canyon reach and any other notable sediment input sources. There is a limited amount of data to quantitatively support this portion of study. For example, I hypothesize that the predominant sediment supply source area for lower reaches of Grant Creek is the canyon reach and that the sediment delivery rate is very episodic, delivery volumes and sediment-size ranges are variable, and that flows that transport and redistribute significant quantities and the full range of bedload (and are thus alluvial plain and channel forming) are of high magnitude and relatively infrequent. I will look to field observations to test this, but I will not be supporting my findings with quantitative measurements.

The Grant Creek study plan states that some quantitative analyses will occur, in particular surface and sub-surface measurements of substrate dimensions (specifically, surface sampling (Wolman); embeddedness; subsurface volume (bulk), channel geometry) in spawning areas. This information is to

collect baseline data to characterize the existing conditions and provide some information that could be used in sediment transport equations. This study plan element emulates the Inter-Fluve study. As a side note on sediment measurements, there is still an active scientific discussion on the confidence of field sediment measurements (both methods and results); however, the methods referenced in the study plan represent a common approach to try to introduce quantitative information into geomorphic evaluations and are therefore appropriate. The quantitative data we collect, combined with understanding sediment transport processes as well as the limitations of the data, will be integrated with qualitative observations to predict to the extent possible channel response to the proposed change(s).

Regarding your comment of, "The plan should include a description of models/equations being used, what assumptions are being made, what data is needed, and why that equation/model is appropriate", this is really a difficult question to provide a short answer to. To start with, the study plan states using *"...incipient motion particle size analysis to determine the threshold of mobility for particles of various sizes for a given hydraulic condition."*

The reason this question is challenging is that I think the geomorphic conditions at this site make are not necessarily appropriate for the use of equations (or models) to provide an accurate prediction that could affect management decisions. It is an approach that should be considered carefully and underlined by an understanding the limitations of our collective understanding of sediment transport. I say this for the following reasons:



1. The state of the science on sediment transport, particularly turbulent gravel bed streams, is nowhere near precise or accurate. The study plan mirrors the Inter-Fluve study, which used Shield's Equation, a nearly one-hundred year old sheer-stress based equation based on uniform sediment size (sand) in a flume and assumes 1-dimensional flow and relies on both quantitative data (particle size, depth, slope) and use of a subjective parameter. While the Shield's Equation has stood the test of time and is the basis for nearly all other transport equations developed since, understanding its limitations is essential in making interpretations and predictions.
2. I believe it is inappropriate to select a transport equation without having a good comprehensive understanding of the stream conditions at multiple levels from a grain-morphology scale to a watershed scale. Grant Creek in particular is a complicated site (I elaborate on this below), therefore the sediment morphology, bedform, and watershed characteristics at this site are parameters that greatly influence transport and are not necessarily considered in the equation, and therefore reduces the confidence of any quantitative results that might be obtained.

So, while it is certainly possible to apply any number of existing incipient motion equations using the measurements we take and with the assumptions we assign, I believe it is probable that the results might not necessarily represent the actual conditions at this site. I would be suspicious of anyone who claims that they can accurately predict the sediment transport characteristics in a complicated gravel-bed system. At present, the science just isn't there to support it and I am not sure there is an equation or model currently available that will produce "real world" results that represent this site

accurately. This is no fault of the study plan, rather just a limitation in the science of sediment transport and we should be aware of the limitations.

My rationale for why I think quantitative analyses may not necessarily provide accurate information is based on what I have learned about the site. The dominant sediment present in Grant Creek in the spawning areas appears to be material that has recently arrived to Grant Creek from the canyon reach – likely through the process of mass wasting (rock fall/topple), and had very little time and transport in an alluvial environment to mechanically “round” the sediment. The geology types in the canyon are important too. They include greywacke (massive, blocky sandstone) and slates (weaker bedding planes and platy). The outcome of these conditions is that the sediment in the channel bed is very angular and consists either of platy or blocky particle geometries. This is important because the quantitative measurements of the sediment (Wolman counts, bulk sampling) sort sediment by the dimension of the B-axis. To illustrate why the geometry of the sediment is important, consider this visualization: Both a holiday serving platter and a watermelon can have the same B-axis dimension (as well as a similar A-axis dimension). The watermelon more closely resembles “typical” stream substrate in that it is rounded and the A, B, and C-axes are somewhat close in size. In contrast, the serving platter has a disproportionately large A and B axes when compared to its C-axis. Assuming the watermelon and platter were composed of the same material, the watermelon would be considerably more massive with a higher volume to surface ratio than the platter even if they had the same B-axis dimension.

What this means is that platy sediment will behave differently than rounded sediment and blocky sediment for a given B-axis in a range of flows. The platy sediment will likely transport earlier in the hydrograph (at lower flows), for a longer duration, more easily become entrained, less likely to roll, and travel further than the greywacke, and therefore platy sediment will become mobilized at lower flows than would be predicted by most incipient motion equations. It is also possible that that greywacke (envison riprap-type geometries) will be more stable in flows that would be predicted to move a rounded particle of with a similar B-axis dimension because it is less susceptible to rolling, one of the early modes of transport as flows increase. In addition, the interlocking nature of angular (riprap-shaped) particles also create a more durable armoring and hiding effects that could also create transport conditions not necessarily represented by calculations. Below are some pictures of the site to help illustrate the conditions I described above.

	<p>Sediment particle morphology upon its delivery in the canyon reach. Geologic composition effects particle morphology (slates = platy, greywacke = blocky). Predominant delivery of sediment to the stream is interpreted to be by mass wasting (rockfall) and results in angular pieces typically of larger particle size ranges. Photo from HDR 2009-2010 field work.</p>
	<p>Within the spawning reaches, it appears in this photo that the channel bed is armored and winnowed with some evidence of sediment “hiding” and “patches”. Some imbrication is visible in some of the smaller particles, so there is evidence of 1st and 2nd phase transport at this site. Some minor “rounding” of the particles can be seen, but sediment is still quite angular. Photo from McMillen 2012.</p>

In addition, the intent of the study outcome is to evaluate the question of whether the proposed management scenarios (modified hydrograph resulting in: decreased peak flows, sustained moderate flows, and decreased low flows; and by-pass of the canyon reach) may reduce the availability of spawning gravel. Therefore, the intent of the study is not to necessarily evaluate the conditions that mobilize the larger sediment particle size range, but rather consider the effects on sediment transport by the more marginal flows that mobilize the “preferred spawning-gravel” size range, although the flows might be one and the same. With this, we potentially decrease our confidence in the results because low or partial transport rates are also more difficult to accurately predict because low transport rates and marginal flows (early to mid-phase transport) are more influenced by turbulent flows, localized hydraulic conditions (related to any number of things such as bioturbation (e.g. salmon redd construction), flow obstructions (e.g. boulder, logs), bed-form (cascades, pools, hiding effects and patches, roughness, secondary flow structures), etc...) which are not necessarily captured in most incipient motion calculations. Again, we arrive to the realization that sediment transport analysis is an imprecise and emerging science, and quantitative results should be accepted with understanding of their limitations.

In conclusion Eric, I am more than happy to have continued dialog with you as to which transport equation could best represent the conditions of this study site and provide meaningful results to inform the ecological concerns that have been raised, and provide results that we have confidence in. Currently, I am thinking that an Andrew's-based equation would make more sense than using the Shield's Equation. However, it is possible that we may come to the conclusion that none of the available equations can accurately predict this system and thus, we may have to rely on qualitative conclusions based on field observations as the basis for our analysis. I am open to feedback from you Eric on which equations you think may best represent this unique site and provide you with information and results you feel comfortable with.

~Paul

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From: Eric Rothwell - NOAA Federal [<mailto:eric.rothwell@noaa.gov>]
Sent: Monday, December 17, 2012 10:09 AM
To: Paul Pittman
Cc: charles.sauvageau@mcmillen-llc.com; Susan Walker - NOAA Federal; Cory Warnock
Subject: Re: Grant Lake/Creek Geomorphology

Paul,

Thank you for the email, sorry I didn't reply Friday I was in the field.

I have not had the opportunity to review the proposed study plan in detail but from the presentation and conversations last week there seems to be some missing detail. In the study plan I can only find one paragraph that talks about fluvial geomorphology (in the Water Resources Draft Study Plan). It appears that there are two components, lake shore line erosion and spawning substrate recruitment. During your presentation it sounded like there would be bed mobility analysis to characterize spawning substrate recruitment, based on an incipient transport equation. That may or may not be sufficient or appropriate, what is needed is more detail about what data is being collected, how baseline sediment transport and bed mobility will be characterized, and then how will the project will change the channel morphology and substrate. The plan should include a description of models/equations being used, what assumptions are being made, what data is needed, and why that equation/model is appropriate. Ideally, we would then have an opportunity to review the plan and provide comments.

In general, an ability to assess the project effects is not present for any of the study areas. There are good characterization pieces but it will be necessary to be able to assess project operations on water quality (lake and stream temp), stream hydraulics, and morphology. Often this is done through a reservoir and routing model. I'm not sure how much back and forth is possible under the TLP but we will comment about this in a letter sometime in January or early February. Cory, it sounded like you wanted comments sometime around the 20th of January? That won't be possible for us with our Susitna deadlines.

Thanks,
Eric

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