

To: Murphy, Karen[karen_a_murphy@fws.gov]; Eric Taylor[Eric_Taylor@fws.gov]; Drew Crane[drew_crane@fws.gov]; John Trawicki[John_Trawicki@fws.gov]
Cc: Charla Sterne[Charla_Sterne@fws.gov]
From: Wendy Loya
Sent: 2018-06-04T15:20:17-04:00
Importance: Normal
Subject: RE: 2019 QRP/SSP: process and timeline
Received: 2018-06-04T15:21:31-04:00

I have talked with Karen, all is good.

From: Murphy, Karen [mailto:karen_a_murphy@fws.gov]
Sent: Monday, June 4, 2018 11:09 AM
To: Eric Taylor <Eric_Taylor@fws.gov>; Drew Crane <drew_crane@fws.gov>; John Trawicki <John_Trawicki@fws.gov>
Cc: Wendy Loya <wendy_loya@fws.gov>; Charla Sterne <Charla_Sterne@fws.gov>
Subject: Fwd: 2019 QRP/SSP: process and timeline

Hello QRP/SSP team. Charla Sterne is out of the office until Thursday this week so I'm writing this email without understanding the process decided upon this year. Wendy suggested putting something into the RDT notes this week about the process and timeline for receiving preproposals. I have not been able to find any broad-scale email that went out to recruit proposal ideas and the email below from Sarena to John Pearce implies that Eric, Drew and John were going to query ideas to bring forward, with preproposals developed this month.

When you meet this afternoon, would you please decide if something should go out more broadly to the region and if you want something in today's RDT notes?

Thank you!
Karen

Karen A Murphy
Science Applications
907-786-3501
karen_a_murphy@fws.gov

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

From: Sarena Selbo <sarena_selbo@fws.gov>
Date: Mon, May 21, 2018 at 9:50 AM
Subject: 2019 QRP/SSP: process and timeline
To: John Pearce <jpearce@usgs.gov>
Cc: karen_a_murphy@fws.gov

Hi John. Below is an update on our QRP/SSP process for FY19. Tomorrow is my last day in the region. Please contact Karen Murphy, Charla or Wendy if you have any questions.

Begin forwarded message:

From: Wendy Loya <Wendy_loya@fws.gov>
Date: May 21, 2018 at 9:35:21 AM AKDT
To: Sarena Selbo <sarena_selbo@fws.gov>, Charla Sterne <charla_sterne@fws.gov>
Cc: Diane Ray <diane_ray@fws.gov>
Subject: RE: 2019 QRP/SSP: process and timeline

The region is now seeking research ideas that advance the best available science for the coastal plain of the Arctic Refuge (1002 area), particularly towards implementing responsible exploration and development of oil and gas resources for the USGS QRP/SSP program (\$337,746 available). Division leads (Eric Taylor, John Trawicki and D

r
ew Crane) have been asked to work with their colleagues, and across divisions, to review the list of studies derived from the 1002 Resource Assessments and identify which study or studies are a good fit for the QRP/SSP opportunity, including identifying a USGS research partner. Because of the rapid-response nature of the Resource Assessments, there may be additional research needs not on the list that may be proposed.

Timeline:

May 15 - 30: Project review and id by POCs

Jun 1 - 22: Pre-proposal development

Jun 25 - Jul 6: RDT review and select

Jul 9 - Aug 30: Full proposal development

Aug 31: Proposals submitted to USGS

Dr. Wendy M. Loya, Coordinator
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US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

To: Mitch Ellis[mitch_ellis@fws.gov]; Mary Colligan[mary_colligan@fws.gov]
From: Wendy Loya
Sent: 2018-06-04T16:13:03-04:00
Importance: Normal
Subject: Revised plan for your review
Received: 2018-06-04T16:14:19-04:00
Draft Plan of Approvals for 1002 Responses to BLM 060418.docx

Hi Mary and Mitch,
I would be grateful for your feedback on the attached document.

Mary, I am calling myself the Arctic Program Coordinator, but whatever we call me, we should be consistent across the two documents (you used Arctic NWR 1002 Science Coordinator). Also, in your protocol, you describe sending info to the Manager and myself; if we are attempting to direct all communications for consistency, it should go from me to Steve per Greg's message today. Mitch, we can talk with Steve about this when ARDs and RD agree to a final protocol.

thank you,
Wendy

Dr. Wendy M. Loya, Coordinator
Office of Science Applications -Arctic Program
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907.277.2942 (mobile)

To: Mary Colligan[mary_colligan@fws.gov]; Mitch Ellis[mitch_ellis@fws.gov]; Socheata Lor[socheata_lor@fws.gov]; Doug Damberg[doug_damberg@fws.gov]; Karen Murphy[karen_a_murphy@fws.gov]
From: Wendy Loya
Sent: 2018-06-04T17:19:13-04:00
Importance: Normal
Subject: DRAFT Budget
Received: 2018-06-04T17:19:49-04:00
Draft Plan of Approvals for 1002 Responses to BLM 060418.docx

Here are the project expenses I currently have for Refuges, OSA and Mig Birds that are towards 1002. It includes FES projects that OSA has funded, but not any funding from FES. Yet? It does not include Arctic Refuge-level spending on research.

The goal today is to show how we are meeting the \$600K spending for Refuges and OSA, to talk about projects that were not on submitted operational plan to ensure awareness towards collaboration and to discuss any projects not funded that would benefit from end of year funds if any of us have excess.

I have printed copies for this afternoon's chat at 2pm in the NWRS Conf Room.

Thank you,
Wendy

Dr. Wendy M. Loya, Coordinator
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Anchorage, Alaska
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To: Ellis, Mitch[mitch_ellis@fws.gov]
Cc: Wendy Loya[wendy_loya@fws.gov]
From: Colligan, Mary
Sent: 2018-06-04T19:55:34-04:00
Importance: Normal
Subject: Re: Revised plan for your review
Received: 2018-06-04T19:55:41-04:00
ESA and MMPA Plan 060418.docx

Sorry this is late I added a section under ESA and under MMPA with the title of "Document Control"

The only other change I made was to Wendy's job title

Please let me know if you have any issues with this

Thanks,
Mary

On Mon, Jun 4, 2018 at 2:56 PM, Ellis, Mitch <mitch_ellis@fws.gov> wrote:

Wendy I read through it and think it addresses what Greg was after. He wanted us to demonstrate what we're doing differently to control information, and how we're handling incoming documents. It is still very inclusive with staff, which I like, but am curious if we will be asked to restrict further. Thanks for putting this together.

Mitch Ellis
Chief of Refuges - Alaska
National Wildlife Refuge System
US Fish and Wildlife Service
(907)786-3667 wk
(907)947-4416 mob

On Mon, Jun 4, 2018 at 12:13 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Mary and Mitch,
I would be grateful for your feedback on the attached document.

Mary, I am calling myself the Arctic Program Coordinator, but whatever we call me, we should be consistent across the two documents (you used Arctic NWR 1002 Science Coordinator). Also, in your protocol, you describe sending info to the Manager and myself; if we are attempting to direct all communications for consistency, it should go from me to Steve per Greg's message today. Mitch, we can talk with Steve about this when ARDs and RD agree to a final protocol.

thank you,
Wendy

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Mary Colligan
Assistant Regional Director
Fisheries and Ecological Services
U.S. Fish and Wildlife Service, Alaska Region
1011 E. Tudor Road, MS-361
Anchorage, AK 99503
907-786-3505
cell: 907-223-5945

To: Greg Siekaniec[greg_siekaniec@fws.gov]; Karen Clark[karen_clark@fws.gov]; Mary Colligan[mary_colligan@fws.gov]; Mitch Ellis[mitch_ellis@fws.gov]; Sara Boario[sara_boario@fws.gov]
From: Wendy Loya
Sent: 2018-06-04T20:26:17-04:00
Importance: Normal
Subject: DRAFT EA/EIS Information quality control and sharing plan
Received: 2018-06-04T20:26:33-04:00
Draft Plan of Approvals for 1002 Responses to BLM 060418.docx

Greg and Karen,

I shared this with Mitch and Mary and we believe it provides a better description of how we will tighten up document sharing, control and editing. Let me know if you see additional areas for improvement before sharing further.

Thank you,
Wendy

Dr. Wendy M. Loya, Coordinator
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To: Wendy Loya[wendy_loya@fws.gov]
Cc: Greg Siekaniec[greg_siekaniec@fws.gov]; Karen Clark[karen_clark@fws.gov]; Mitch Ellis[mitch_ellis@fws.gov]; Sara Boario[sara_boario@fws.gov]
From: Colligan, Mary
Sent: 2018-06-04T21:29:08-04:00
Importance: Normal
Subject: Re: DRAFT EA/EIS Information quality control and sharing plan
Received: 2018-06-04T21:29:19-04:00
[ESA and MMPA Plan 060418.docx](#)

I have attached the updated plan for ESA and MMPA.

On Mon, Jun 4, 2018 at 4:26 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Greg and Karen,

I shared this with Mitch and Mary and we believe it provides a better description of how we will tighten up document sharing, control and editing. Let me know if you see additional areas for improvement before sharing further.

Thank you,
Wendy

Dr. Wendy M. Loya, Coordinator
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Mary Colligan
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cell: 907-223-5945

To: mitch_ellis@fws.gov[mitch_ellis@fws.gov]
From: Wendy Loya
Sent: 2018-06-05T12:42:25-04:00
Importance: Normal
Subject: FW: FW: Note to Reviewer PIL - Seismic EA
Received: 2018-06-05T12:43:32-04:00
PIL-Seismic EA May 24 2018 ANWR final SC MAC.docx

Hi Mitch,

The attached Project Initiation Letter between Steve B and the BLM Arctic District Manager is going through surnaming. I took a moment to ensure that MMM was on board with the timeline described, and they had some comments that need to be included. At the same time, I am wondering if we need to change the Point of Contact from Steve to myself, per the process Greg requested yesterday. We should talk about this today, and bring Steve into the loop. I would imagine there could be further changes to the process after feedback from Greg & Greg.

Thanks,
wendy

From: Colligan, Mary [mailto:mary_colligan@fws.gov]
Sent: Monday, June 4, 2018 7:58 PM
To: Conn, Sarah <sarah_conn@fws.gov>
Cc: Wendy Loya <Wendy_loya@fws.gov>; Drew Crane <drew_crane@fws.gov>
Subject: Re: FW: Note to Reviewer PIL - Seismic EA

I added a few questions and comments - bet you are sorry you copied me, right?

On Mon, Jun 4, 2018 at 3:52 PM, Conn, Sarah <sarah_conn@fws.gov> wrote:
Hi Wendy,

I have a few concerns which I have added into the document in track changes.

Thanks,
Sarah

On Mon, Jun 4, 2018 at 8:35 AM, Wendy Loya <Wendy_loya@fws.gov> wrote:
Drew and Sarah,

I am not sure that it matters as the schedule will definitely change, already has changed, but are you both comfortable with the general timeline on page 6 as refers to MMPA and ESA? Drew, you had some comments previously and maybe things have continued to evolve as FES has been in discussion with SAE.

Thanks, let me know and I can request changes before it goes up to ARDs.

Thanks, and have a great week,
Wendy

Dr. Wendy M. Loya, Coordinator
Office of Science Applications -Arctic Program
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From: Romero, Maria <maria_romero@fws.gov>
Sent: Monday, June 4, 2018 8:26 AM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: Note to Reviewer PIL - Seismic EA

Hello Wendy!

I hope you enjoyed the gorgeous weekend.

Would you please sign the Note to Reviewer and send it back to me.

Thank you,

Toni

Toni Romero
Executive Assistant to the Chief of Refuges
National Wildlife Refuge System
U.S. Fish and Wildlife Service
1011 East Tudor Rd., Mail Stop 225
Anchorage, Alaska 99503
Telephone: (907) 786 3354 | **Fax:** (907) 786 3998
e-mail: maria_romero@fws.gov

--

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cell: 907-223-5945

To: Wendy Loya[wendy_loya@fws.gov]
From: Romero, Maria
Sent: 2018-06-05T12:54:08-04:00
Importance: Normal
Subject: Re: Note to Reviewer PIL - Seismic EA
Received: 2018-06-05T12:54:49-04:00

No problem Wendy, whenever you have the final version and the NTR, please send them to me.

Enjoy a bright day!

Toni

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e-mail: maria_romero@fws.gov

On Tue, Jun 5, 2018 at 8:43 AM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Toni,

This is stuck with me while I reconcile some comments from Marine Mammals and ensure it reflects the process for communications we are defining for the 1002 program.

Thank you,

Wendy

From: Romero, Maria [mailto:maria_romero@fws.gov]
Sent: Monday, June 4, 2018 8:26 AM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: Note to Reviewer PIL - Seismic EA

Hello Wendy!

I hope you enjoyed the gorgeous weekend.

Would you please sign the Note to Reviewer and send it back to me.

Thank you,

Toni

Toni Romero

Executive Assistant to the Chief of Refuges

National Wildlife Refuge System

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Anchorage, Alaska 99503

Telephone: (907) 786 3354 | **Fax:** (907) 786 3998

e-mail: maria_romero@fws.gov

To: Wendy Loya[wendy_loya@fws.gov]
From: Collins, Catherine
Sent: 2018-06-05T14:03:25-04:00
Importance: Normal
Subject: Re: Request for Scoping Comments from FWS Staff for the Arctic Refuge Coastal Plain Leasing EIS
Received: 2018-06-05T14:04:31-04:00

Hi Wendy,
Since this is early in the process, I think it would be best to remove Tamara's information. She has been removed from the email and phone systems and it would just cause confusion for folks trying to make contact.

Thanks again!

Catherine

Catherine Collins, Environmental Engineer
U.S. Fish and Wildlife Service
Branch of Air and Water Quality Resources
7333 W. Jefferson Ave., Suite 375
Lakewood, CO 80235-2034
303-914-3807
(303) 969-5444 fax
Catherine_Collins@fws.gov

On Tue, Jun 5, 2018 at 10:34 AM, Wendy Loya <wendy_loya@fws.gov> wrote:

Thank you for your help! One of our regional staff may contact you for further information as we clean up the comments.

I am sorry to hear about Tamara McCandless passing away. I can remove her name from the document although if she had contributed to the formation of that document, it seems appropriate to acknowledge that? I will do whatever you all feel is best.

Thank you,

Wendy

From: Collins, Catherine [mailto:catherine_collins@fws.gov]
Sent: Tuesday, June 5, 2018 8:23 AM
To: Wendy Loya <wendy_loya@fws.gov>; Tim Allen <tim_allen@fws.gov>

Subject: Re: Request for Scoping Comments from FWS Staff for the Arctic Refuge Coastal Plain Leasing EIS

Hi Wendy,

Thank you for the additional time to provide comments.

Tim and I have revised the FWS Scoping Google Doc by adding a few bullet points to the air section. Additionally, we added two comments that might provided additional clarification in the section These were someone else's comments and I didn't want to change them.

In the Rapid Response document - Air Section, could you please remove Tamara McCandless since she has passed away.

Please let me know if you have further questions or require additional clarification to the comments.

Thanks for allowing us the opportunity to review.

Catherine Collins and Tim Allen

Catherine Collins, Environmental Engineer

U.S. Fish and Wildlife Service

Branch of Air and Water Quality Resources

7333 W. Jefferson Ave., Suite 375

Lakewood, CO 80235-2034

303-914-3807

(303) 969-5444 fax

Catherine_Collins@fws.gov

On Fri, May 25, 2018 at 12:20 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Everyone,

Just a reminder that June 1st, which is next Friday, is the deadline for entering your comments into the Google Docs form. Thank you to those of you that have already done so!

See original email below for more info.

Thank you all, and I hope everyone has a great Memorial Day weekend.

Wendy

Dr. Wendy M. Loya, Coordinator
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On Thu, May 10, 2018 at 1:28 PM Wendy Loya <Wendy_loya@fws.gov> wrote:

Dear colleagues,

Thank you to those of you that were able to participate in the BLM Scoping meeting for Cooperating Agencies on May 3rd, and for sharing your expertise with the EIS Project Manager (Nicole Hayes) and contractor (EMPSi) and sub-contractors (ABR, Steven R Braund & Assoc, Northern Economics, ABR, HDR and DOWL).

Although the contractor took notes, including detailed notes on a laptop and more generalized notes on flip charts, the FWS has decided to submit written scoping comments. We invite you to submit concise, substantive comments on issues within or related to your area of expertise that should be considered for evaluation in the EIS. We especially want to highlight the most pressing issues and unique nature of the Arctic Refuge that should be described and evaluated. See the google doc for more info.

Please enter your comments in the following Google Doc (please do not delete others' comments):

https://docs.google.com/document/d/1sZhCAKBC7m0E6HUF_60kSCVJY7xn6lANn1hwZUxW-y4/edit#heading_h.gjdgxs

Please have your comments entered by June 1. Let your division point of contact know ASAP if that date is unattainable and we'll try to make alternative plans for receiving your comments. The program points of contact will review entries for duplication or clarity and submit to the Regional Director for signature and submission by the June 19th scoping deadline.

For your information the Service provided the BLM and EMPSi a PDF binder of the Resource Assessments and Select FWS Bibliography, which you can access here:

https://drive.google.com/file/d/1_124q-WQ6QnPehIZa84yENIxM4UPnzp-/view?usp_sharing

Again, thank you all!

Wendy (Regional POC)

Steve & Joanna (Arctic Refuge)

John Trawicki (NWRS)

Drew Crane (FES)

Carl Johnson (OSM)

Eric Taylor (MBM)

Dr. Wendy M. Loya, Coordinator

Office of Science Applications -Arctic Program

US Fish and Wildlife Service

Anchorage, Alaska

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To: John Trawicki[john_trawicki@fws.gov]; Elizabeth Powers[elizabeth_powers@fws.gov]; Scott Guyer[sguyer@blm.gov]
From: Wendy Loya
Sent: 2018-06-05T14:20:42-04:00
Importance: Normal
Subject: Arctic Refuge Coastal Plain Veg Map SOW for contract
Received: 2018-06-05T14:21:45-04:00
1002-LandCoverMapSOW-Draft MAY30updates (wml).docx

Hi John,

I need NWRs help with determining the next steps to move forward towards a contract for the updated veg mapping for the Coastal Plain. Attached is the Statement of Work (SOW) that Scott Guyer at BLM has helped us put together and which we believe is "final." Scott can further assist with completing paperwork, but as he is at BLM, we need a person or persons at FWS to be the points of contact, contracting officers, etc.. Basicly, I really don't know next steps, and need someone to work with contracting office here and Scott to put this out to bid.

The approximate budget is \$300K, this would be part of NWRs spending obligation for the 1002 area. There are two known possible vendors, Ducks Unlimited and ABR. There may be others.

Thank you,
Wendy

Dr. Wendy M. Loya, Coordinator
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907.786.3532 (office)
907.277.2942 (mobile)

To: Conn, Sarah[sarah_conn@fws.gov]
Cc: Drew Crane[drew_crane@fws.gov]; Mary Colligan[mary_colligan@fws.gov]
From: Wendy Loya
Sent: 2018-06-05T14:42:11-04:00
Importance: Normal
Subject: RE: FW: Note to Reviewer PIL - Seismic EA
Received: 2018-06-05T14:43:09-04:00

Thanks Sarah and Mary,

I will work with Steve B and BLM to update timelines and language per your comments. I put Ryan Wilson in for PB ecology, since he is the expert contact for the EIS.

Thank you,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Conn, Sarah [mailto:sarah_conn@fws.gov]
Sent: Monday, June 4, 2018 3:52 PM
To: Wendy Loya <Wendy_loya@fws.gov>
Cc: Drew Crane <drew_crane@fws.gov>; Mary Colligan <mary_colligan@fws.gov>
Subject: Re: FW: Note to Reviewer PIL - Seismic EA

Hi Wendy,

I have a few concerns which I have added into the document in track changes.

Thanks,
Sarah

On Mon, Jun 4, 2018 at 8:35 AM, Wendy Loya <Wendy_loya@fws.gov> wrote:
Drew and Sarah,

I am not sure that it matters as the schedule will definitely change, already has changed, but are you both comfortable with the general timeline on page 6 as refers to MMPA and ESA? Drew, you had some comments previously and maybe things have continued to evolve as FES has been in discussion with SAE.

Thanks, let me know and I can request changes before it goes up to ARDs.

Thanks, and have a great week,
Wendy

Dr. Wendy M. Loya, Coordinator
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From: Romero, Maria <maria_romero@fws.gov>
Sent: Monday, June 4, 2018 8:26 AM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: Note to Reviewer PIL - Seismic EA

Hello Wendy!

I hope you enjoyed the gorgeous weekend.

Would you please sign the Note to Reviewer and send it back to me.

Thank you,

Toni

Toni Romero
Executive Assistant to the Chief of Refuges
National Wildlife Refuge System
U.S. Fish and Wildlife Service
1011 East Tudor Rd., Mail Stop 225
Anchorage, Alaska 99503
Telephone: (907) 786 3354 | **Fax:** (907) 786 3998
e-mail: maria_romero@fws.gov

To: Joanna Fox[joanna_fox@fws.gov]; Steve Berendzen[steve_berendzen@fws.gov]
Cc: John Trawicki[john_trawicki@fws.gov]
From: Wendy Loya
Sent: 2018-06-05T17:37:37-04:00
Importance: Normal
Subject: RE: Seismic EA meeting today? update on PIL
Received: 2018-06-05T17:37:46-04:00

John, can you add Josh Rose to the Wednesday 1pm invite?

Thanks!
Wendy

Dr. Wendy M. Loya,
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Anchorage, Alaska
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From: Joanna Fox [mailto:joanna_fox@fws.gov]
Sent: Tuesday, June 5, 2018 1:30 PM
To: Wendy Loya <wendy_loya@fws.gov>
Cc: Steve Berendzen <steve_berendzen@fws.gov>
Subject: Re: Seismic EA meeting today? update on PIL

Yes, we are meeting immediately after the 2pm meeting, so you and anyone else who would like can stay on the line.

Josh will be joining us today, and taking over as IDT Lead/Primary POC for the seismic EA.

Joanna L. Fox
Deputy Refuge Manager
Arctic National Wildlife Refuge
101 12th Avenue, Room 236
Fairbanks, AK 99701
(907) 456-0549

Follow us on Facebook!
www.facebook.com/arcticnationalwildliferefuge

"Do what you can, with what you have, where you are." -- Theodore Roosevelt

On Tue, Jun 5, 2018 at 1:22 PM Wendy Loya <wendy_loya@fws.gov> wrote:
Hi Fairbanks,

Do you have a meeting scheduled with BLM Arctic Field office today? If so, can you include me in a call-in if possible? Greg S would like me to track that process so we have consistency across programs.

Also, the PIL is going through review here still, Marine Mammals had comments on the timeline and Greg wants to make sure it meets the internal information sharing process we are working on describing for HQ/Sheehan. We'll talk about that at tomorrow's meeting at 1pm.

Thank you,
Wendy

Dr. Wendy M. Loya, Coordinator
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907.277.2942 (mobile)

To: Wendy Loya[wendy_loya@fws.gov]
From: Clark, Karen
Sent: 2018-06-07T13:28:33-04:00
Importance: Normal
Subject: Re: Action Item - Projects needing DOI approval
Received: 2018-06-07T13:29:23-04:00

OK- thanks. Can you send me your request in a new email with just the information on the project that needs approval? And with whatever Identifying information you can provide so they can determine which one we are referencing?

Thanks, Karen

Karen P. Clark
Deputy Regional Director
U.S. Fish & Wildlife Service- Alaska Region
1011 E Tudor Rd, MS 374
Anchorage, AK 99503
karen_clark@fws.gov
907.786.3542 office
907.786.3493 direct
907.786.3306 fax

On Thu, Jun 7, 2018 at 8:58 AM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Karen,

It looks like we are going to go through contracting for Line item 1636: Vegetation Mapping for the Coastal Plain, so disregard my request for approval on that item.

For Line item 1637: Updated National Hydrography Data, it is a new agreement so there is not an agreement number, but the DTS number in the log is 068085. The agreement would be with St. Mary's University in Winona, MN who is the primary entity doing NWI updates nationally I believe.

Thank you,

Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
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Anchorage, Alaska
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907.277.2942 (mobile)

From: Clark, Karen [mailto:karen_clark@fws.gov]
Sent: Thursday, June 7, 2018 8:46 AM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: Re: Action Item - Projects needing DOI approval

Hey Wendy,

A couple things before we move forward- can you provide

1. the agreement number
2. who the agreement is with

Thanks! Karen

Karen P. Clark
Deputy Regional Director
U.S. Fish & Wildlife Service- Alaska Region
1011 E Tudor Rd, MS 374
Anchorage, AK 99503

karen_clark@fws.gov

907.786.3542 office

907.786.3493 direct

907.786.3306 fax

On Tue, Jun 5, 2018 at 4:06 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Dear Karen and Greg,

We have two projects entered in the Financial Assistance spreadsheet that need approval by the Senior Advisor, DOI-PMB; both are part of the 1002 operational plan we submitted and which are part of the \$1.2 million commitment from NWRs and OSA.

Line item 1636: Vegetation Mapping for the Coastal Plain

Line item 1637 Updated National Hydrography Data

1. Timeline: We need to submit the paperwork to our regional CGS office by June 29th for both projects in order to issue the agreements in FY18
2. Rationale: These two projects are part to of the Region 7 operations plan submitted to Deputy Principal Sheehan and subsequent agency directed commitment of \$1.2 million dollars to go towards science needed to inform management of the DOI priority program for Oil and Gas Leasing in the Coastal Plain (1002 area) of the Arctic National Wildlife Refuge. Obtaining updated landcover, National Wetlands Inventory and updated National Hydrology Database maps will help FWS, BLM and the Army Corps of Engineers expeditiously process applications for exploration and development.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

To: Karen Clark[karen_clark@fws.gov]
From: Wendy Loya
Sent: 2018-06-07T14:04:46-04:00
Importance: Normal
Subject: RE: Action Item - Projects needing DOI approval
Received: 2018-06-07T14:05:54-04:00

Dear Karen and Greg,

We have a project entered in the Financial Assistance spreadsheet that needs approval by the Senior Advisor, DOI-PMB.

Line item 1637: Updated National Hydrography Data (DTS # 068085; new agreement)

Timeline: We need to submit the paperwork to our regional CGS office by June 29th in order to issue the agreement in FY18.

The agreement would be with St. Mary's University in Winona, MN, who is the primary organization doing NWI and NHD In Alaska.

This project is part to of the Region 7 operations plan submitted to Deputy Principal Sheehan and subsequent agency directed commitment of \$1.2 million dollars to go towards science needed to inform management of the DOI priority program for Oil and Gas Leasing in the Coastal Plain (1002 area) of the Arctic National Wildlife Refuge. Obtaining updated National Hydrology and National Wetlands Inventory maps will help FWS, BLM and the Army Corps of Engineers expeditiously process applications for exploration and development.

Thank you,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

Dear Karen and Greg,

We have two projects entered in the Financial Assistance spreadsheet that need approval by the Senior Advisor, DOI-PMB; both are part of the 1002 operational plan we submitted and which are part of the \$1.2 million commitment from NWRs and OSA.

Line item 1636: Vegetation Mapping for the Coastal Plain

Line item 1637 Updated National Hydrography Data

1. Timeline: We need to submit the paperwork to our regional CGS office by June 29th for both projects in order to issue the agreements in FY18
2. Rationale: These two projects are part to of the Region 7 operations plan submitted to Deputy Principal Sheehan and subsequent agency directed commitment of \$1.2 million

dollars to go towards science needed to inform management of the DOI priority program for Oil and Gas Leasing in the Coastal Plain (1002 area) of the Arctic National Wildlife Refuge. Obtaining updated landcover, National Wetlands Inventory and updated National Hydrology Database maps will help FWS, BLM and the Army Corps of Engineers expeditiously process applications for exploration and development.

Thank you,

Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

To: Nichelle (Shelly) Jones[njones@blm.gov]; Sarah LaMarr[slamarr@blm.gov]
Cc: Steve Berendzen[steve_berendzen@fws.gov]
From: Wendy Loya
Sent: 2018-06-07T19:21:49-04:00
Importance: Normal
Subject: Question regarding language in Project Initiation Letter
Received: 2018-06-07T19:21:59-04:00
PIL-Seismic EA May 24 2018 ANWR final SC MAC WML SC WML.docx

Hi Shelly and Sarah,

Although it seemed like it had moved ahead from FWS, the PIL needed to undergo review by our regional leadership. I am working on mostly small edits, and also inserting myself into the IDT team section as an additional point of contact with Steve per the request of our Regional Director.

One thing that was not clear is what are Issue Statements, as described in the timeline (June 6th) but not in the NEPA section. Can you provide a sentence or two that describes what those are and I can insert it as the last sentence or two in the NEPA section? I perceive they may refer to plausible impacts and do not refer to the Environmental Consequences Chapters, but then the timeline confuses me on June 28th. Our Marine Mammals team has made some adjustments to the timeline per the conversation led by Sarah Conn during our Tuesday 2pm meeting.

Thank you,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

To: Karen Clark[karen_clark@fws.gov]
From: Wendy Loya
Sent: 2018-06-08T12:09:34-04:00
Importance: Normal
Subject: RE: Project Needing Approval
Received: 2018-06-08T12:09:44-04:00

FWS181655

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Clark, Karen [mailto:karen_clark@fws.gov]
Sent: Friday, June 8, 2018 7:29 AM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: Fwd: Project Needing Approval

Hey Wendy, Can you figure out the FWS ID#? See Paul's note below.
Thanks, Karen

Karen P. Clark
Deputy Regional Director
U.S. Fish & Wildlife Service- Alaska Region
1011 E Tudor Rd, MS 374
Anchorage, AK 99503
karen_clark@fws.gov
907.786.3542 office
907.786.3493 direct
907.786.3306 fax

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

From: **Rauch, Paul** <paul_rauch@fws.gov>
Date: Fri, Jun 8, 2018 at 3:57 AM
Subject: Re: Project Needing Approval
To: "Clark, Karen" <karen_clark@fws.gov>
Cc: "Knight, Scott" <scott_knight@fws.gov>, Jean Kvasnicka <jean_kvasnicka@fws.gov>, Rachel Rosen <rachel_hansen@fws.gov>

Karen,

0000009613

Do you have the FWS ID# from the review submission form? This will help us check on the status of this award.

Thanks

Paul

On Thu, Jun 7, 2018 at 2:17 PM, Clark, Karen <karen_clark@fws.gov> wrote:
Hey Paul,

This project is related to our efforts to implement the Oil and Gas Leasing Program on the Arctic Coastal Plain as directed by the Tax Act.

Line item 1637: Updated National Hydrography Data (DTS # 068085; new agreement)

Timeline: We need to submit the paperwork to our regional CGS office by June 29th in order to issue the agreement in FY18.

The agreement would be with St. Mary's University in Winona, MN, who is the primary organization doing NWI and NHD In Alaska.

This project is part to of the approved Region 7 operations plan and would provide information necessary for Oil and Gas Leasing Program in the Coastal Plain (1002 area) of the Arctic National Wildlife Refuge. Obtaining updated National Hydrology and National Wetlands Inventory maps will help FWS, BLM and the Army Corps of Engineers expeditiously process applications for exploration and development.

Thanks for your help, please let me know if you need more information!

Karen

Karen P. Clark
Deputy Regional Director
U.S. Fish & Wildlife Service- Alaska Region
1011 E Tudor Rd, MS 374
Anchorage, AK 99503
karen_clark@fws.gov
907.786.3542 office
907.786.3493 direct
907.786.3306 fax

To: Wendy Loya[wendy_loya@fws.gov]
Cc: Joanna Fox[joanna_fox@fws.gov]
From: Berendzen, Steve
Sent: 2018-06-08T16:48:25-04:00
Importance: Normal
Subject: Re: Friday updates
Received: 2018-06-08T16:48:34-04:00

Thanks, Wendy - I'll be out all of next week, but we'll keep the revised plan to ourselves until further guidance if/when we get it.

Steve Berendzen
Refuge Manager, Arctic National Wildlife Refuge
907 456 0253

On Fri, Jun 8, 2018 at 11:58 AM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Steve and Joanna,

Just a heads up that the MMPA process is moving forward as Mary's team has received an application from SAE for seismic. I expect that BLM is also due to receive an updated Plan of Operations. If they do and they share that with FWS, please do not distribute that further until we have a protocol in place for sharing it in a directed manner. If you think staff need to see it to work on their affected environment chapters before COB Monday, let me know. We may not receive a copy this time around.

I'll be up on Fairbanks starting next Tuesday and staying through the 21st, to prepare and host the alternatives workshop, and the three of us and Josh can find a time to meet to work together on information sharing. Also, Soch is trying to secure a facilitator for the alternatives workshop. It is important that if staff with knowledge of refuge resources aren't in the field, the workshop should be their priority. FYI, Patrick O'dell will come in from Colorado, and Lynnda Kahn will come up from Kenai. I hope to get an updated agenda out Monday if Nicole at BLM sends me a draft agenda for the BLM workshop today.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

To: Mary Colligan[mary_colligan@fws.gov]; Karen Clark[karen_clark@fws.gov]; greg_siekaniec@fws.gov[greg_siekaniec@fws.gov]; Steve Berendzen[steve_berendzen@fws.gov]; Socheata Lor[socheata_lor@fws.gov]; mitch_ellis@fws.gov[mitch_ellis@fws.gov]
From: Wendy Loya
Sent: 2018-06-08T19:48:06-04:00
Importance: Normal
Subject: Draft Agenda for BLM Alternatives Development Meeting
Received: 2018-06-08T19:48:19-04:00
CoastalPlain AltsWkshp Agenda Draft 060818.docx

Attached is the draft agenda for the **BLM** Coastal Plain Alternatives Workshop July 9-12th in Anchorage.

The agenda refers to an Example Workbook, and that will be the NPRA alternatives and Stipulations/BMPs (Table 2.3 in IAP)

Please do not share further until we have a Final Agenda.

Thank you,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Hayes, Miriam (Nicole) [mailto:mnhayes@blm.gov]
Sent: Friday, June 8, 2018 2:35 PM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: Fwd: [EXTERNAL] Coastal Plain: Draft Agenda for Alternatives Development Meeting

From: Google Calendar
Location: Instant Meeting Audio # **b5 - CIP**
Importance: Normal
Subject: Accepted: 1002 Snow @ Mon Jun 11, 2018 1pm - 2pm (AKDT) (wendy_loya@fws.gov)
Start Date/Time: 2018-06-11T17:00:00-04:00
End Date/Time: 2018-06-11T18:00:00-04:00
[invite.ics](#)

Paul Leonard has accepted this invitation.

1002 Snow

Purpose: Work with partners to achieve the following objectives:

- 1) to examine the existing data on snow distribution and density and methods for monitoring snow on the Arctic coastal plain of Alaska via remote sensing and in situ methods, and
- 2) to identify snow monitoring needs and techniques for this region to guide management decisions related to oil and gas exploration and development.

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

When
Where
Video call
Calendar
Who

Mon Jun 11, 2018 1pm - 2pm Alaska Time

Instant Meeting Audio # **65 - CIP** (map)
https://hangouts.google.com/hangouts/ /doi.gov/wendy_loya

[loya](#)

wendy_loya@fws.gov

-
-
-

wendy_loya@fws.gov
Hiemstra, Christopher
Paul Leonard

Invitation from [Google Calendar](#)

You are receiving this email at the account wendy_loya@fws.gov because you are subscribed for invitation replies on calendar wendy_loya@fws.gov.

To stop receiving these emails, please log in to <https://www.google.com/calendar/> and change your notification settings for this calendar.

Forwarding this invitation could allow any recipient to modify your RSVP response. [Learn More.](#)

To: Wendy Loya[wendy_loya@fws.gov]
From: Trawicki, John
Sent: 2018-06-11T13:29:10-04:00
Importance: Normal
Subject: Re: My edits on scoping comments
Received: 2018-06-11T13:30:00-04:00
NWRS FWS Scoping.docx

attached are scoping in word, Rodger is rewriting wild/wilderness and will have it to me this morning.

On Fri, Jun 8, 2018 at 3:21 PM, Crane, Drew <drew_crane@fws.gov> wrote:

Hi Wendy,
Attached are my edits to the scoping comments for my resource areas (which air quality really isn't one ;)

It looks like I edited the whole thing, but I a lot of it is moving stuff around or condensing issues. Let em know if you have any questions.

Thanks!

Drew Crane
Regional Endangered Species Coordinator
Alaska Region
U.S. Fish and Wildlife Service
1011 E. Tudor Road
Anchorage, AK 99503
907-786-3323

--

John Trawicki
Water Resources Branch Chief
National Wildlife Refuge System, Alaska
U.S. Fish and Wildlife Service
1011 E. Tudor Road
Anchorage, AK 99503
Work: (907) 786-3474
Mobile: (907) 360-1656

"The single biggest problem with communication is the illusion that it has taken place"
George Bernard Shaw

To: Charla Sterne[charla_sterne@fws.gov]
From: Wendy Loya
Sent: 2018-06-11T13:34:55-04:00
Importance: Normal
Subject: FW: QRP/SSP Proposals -FES
Received: 2018-06-11T13:35:05-04:00
[FY2019 Contaminants SamplingAlvarez.Matz.docx](#)
[FY2019 PreProposal CanningRiverDollyVarden_final.docx](#)
[QRP PopulationMonitoring Polar Bear Final.docx](#)
[SSP DenDisturbance Polar Bear Final.docx](#)
[SSPBudget OverwinteringDollyVarden.xlsx](#)

FYI, these are the first 4 pre-proposals to come in. I haven't looked at them, and probably won't until next weekend or late next week.

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Crane, Drew [mailto:drew_crane@fws.gov]
Sent: Monday, June 11, 2018 9:32 AM
To: Wendy Loya <wendy_loya@fws.gov>
Cc: Mary Colligan <mary_colligan@fws.gov>
Subject: QRP/SSP Proposals -FES

Hi Wendy,

Attached are the 4 pre-proposals that FES put forward for the QRP/SSP opportunity. One note to add to the contaminants proposal is that the budget can roughly be broken down into the following which may help with understanding scalability of the project: 20% salary, 35% logistics/travel/supplies, 45% analysis. Feel free to contact me if you have any questions.

Thanks!

Drew Crane
Regional Endangered Species Coordinator
Alaska Region
U.S. Fish and Wildlife Service
1011 E. Tudor Road
Anchorage, AK 99503
907-786-3323

From: wendy_loya@fws.gov
Location: Fairbanks (Refuges Conference Room)
Importance: Normal
Subject: FW: FWS Workshop on Alternatives for Coastal Plain Leasing EIS/Seismic EA
Start Date/Time: 2018-06-19T12:30:00-04:00
End Date/Time: 2018-06-20T20:00:00-04:00

This would be a great intro to the Arctic Refuge Coastal Plain oil and gas program and FWS role working with BLM if you can make it. Limited hotel availability in Fairbanks, but can help you coordinate transportation if you can't find a place downtown Fairbanks.

-----Original Appointment-----

From: wendy_loya@fws.gov [mailto:wendy_loya@fws.gov]

Sent: None

To: wendy_loya@fws.gov; Paul Leonard; Greta Burkart; John Trawicki; Randy Brown; Damberg, Doug; Jennifer Reed; Joanna Fox; Hollis Twitchell; Drew Crane; Lynnda Kahn; Angela Matz; Christopher Latty; Patrick O'Dell; Carl Johnson; Mitch Ellis; John Martin; Stephen Arthur; Steve Berendzen; Joshua Ream; Eric Taylor; Richard Lanctot; Catherine Collins; Socheata Lor; Roger Kaye; Edward Decleva; Tim Allen; Ryan Wilson (ryan_r_wilson@fws.gov); Joshua Rose; christopher_putnam@fws.gov; kevin_doherty@fws.gov

Subject: FWS Workshop on Alternatives for Coastal Plain Leasing EIS/Seismic EA

When: Tuesday, June 19, 2018 8:30 AM to Wednesday, June 20, 2018 4:00 PM (UTC-09:00) Alaska.

Where: Fairbanks (Refuges Conference Room)

To prepare for the BLM's Arctic Refuge Coastal Plain Oil Leasing EIS Alternatives Workshop in July, we are holding an internal meeting June 19-20th in Fairbanks. The purpose of this meeting is to identify stipulations, best management practices and other leasing conditions to be applied to specific places that will help us achieve all of the purposes of the Arctic Refuge, from conservation of fish, wildlife, subsistence and water resources to the new purpose of an oil and gas program.

The workshop will be held in Fairbanks, and we hope to have as many people attend in person as possible for engaging, well-informed discussion across disciplines. The draft agenda is outlined below. We will set up a teleconference line for those that cannot make it to Fairbanks.

I will send out more information by subject matter group next week to help us come prepared with the data and existing regulations to support the need for stipulations similar to those found in NPRA. Paul Leonard is coordinating the compilation of spatial and temporal information on species habitat use and locations of special and unique landscape features.

DRAFT Agenda:

Arctic Refuge Coastal Plain Leasing EIS Alternatives Workshop

Tuesday June 19th

1

Welcome and Purpose

0000009622

8:30-8:45

2

Intro to NPRA Alternatives & Stipulations

8:45-9:30

3

Vegetation/soils/permafrost/snow

9:30-10:00

break

4

Fish and Water resources

10:15-11:15

5

Caribou

11:15-11:45

Lunch & informal discussions

11:45-1:00

6

Polar bears/bears

1:00-2:00

7

Migratory birds

2:00-3:00

Break

8

Other mammals/all species

3:15-4:15

Meet for group dinner (optional)

5:30 pm

Wednesday June 20th

9

Wilderness/Recreation/Hunting

8:30-9:30

10

Unique features/WSR/Marine PA

930-1030

break

1030-1045

11

Cultural/Archaeological

10:45-11:45

Lunch & informal discussions

11:45-1:00

Subsistence

1:00-2:00

Operations not already covered

2:00-3:00

Wrap up/action items /adjourn

3:00-3:30

POC meet on next steps

3:30-5:00

Thank you,

Wendy

0000009624

Dr. Wendy M. Loya, Coordinator

Office of Science Applications -Arctic Program

US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

To: Colligan, Mary[mary_colligan@fws.gov]; Wendy Loya[wendy_loya@fws.gov]; Mitch Ellis[Mitch_Ellis@fws.gov]; Socheata Lor[socheata_lor@fws.gov]
From: Clark, Karen
Sent: 2018-06-11T18:19:20-04:00
Importance: Normal
Subject: Fwd: Draft Plan of Approvals for 1002 Documents and Information
Received: 2018-06-11T18:20:10-04:00
[Draft Plan of Approvals for 1002 Documents and Information 06072018 Final.docx](#)

Hi everyone,

We haven't received approval on this yet, but figured it would be good for everyone to have the latest version. Until we hear otherwise, this is out plan for the Region.

Thanks to Wendy for helping us get this on track. Wendy, please let us know if you need any help.

Thanks, Karen

Karen P. Clark
Deputy Regional Director
U.S. Fish & Wildlife Service- Alaska Region
1011 E Tudor Rd, MS 374
Anchorage, AK 99503
karen_clark@fws.gov
907.786.3542 office
907.786.3493 direct
907.786.3306 fax

To: Wendy Loya[wendy_loya@fws.gov]
From: John Trawicki
Sent: 2018-06-11T18:43:03-04:00
Importance: Normal
Subject: Fwd: 1002 communications - edits incorporated
Received: 2018-06-11T18:43:06-04:00
[ATT00001.htm](#)
[Facebook Logo for Email Signature Block.png](#)
[twitter-icon Signature Block.jpg](#)
[ATT00002.htm](#)
[1002 Communications-EA-NRWS MRE KPC KM.docx](#)
[ATT00003.htm](#)

Sent from my iPhone

Begin forwarded message:

From: Joanna Fox <joanna_fox@fws.gov>
Date: June 11, 2018 at 12:58:35 PM AKDT
To: John Trawicki <john_trawicki@fws.gov>
Subject: Fwd: 1002 communications - edits incorporated

These draft talking points that were developed for scoping (but never finalized to my knowledge) contain a paragraph that includes all of the Arctic Refuge purposes (Arctic Range, ANILCA, and new Tax Act). The first bullet in the list ("preservation of unique wildlife, wilderness and recreation values") are the Arctic Range purposes. Are you looking for something more than this?

Joanna L. Fox
Deputy Refuge Manager
Arctic National Wildlife Refuge
101 12th Avenue, Room 236
Fairbanks, AK 99701
(907) 456-0549

Follow us on Facebook!
www.facebook.com/arcticnationalwildliferefuge

"Do what you can, with what you have, where you are." -- Theodore Roosevelt

----- Forwarded message -----
From: Andrea Medeiros <andrea_medeiros@fws.gov>
Date: Tue, May 22, 2018 at 11:18 AM
Subject: 1002 communications - edits incorporated
To: Karen Clark <karen_clark@fws.gov>, Howard, Ameer <amee_howard@fws.gov>,

0000009627

Sara Boario <sara_boario@fws.gov>, Gregory Siekaniec
<gregory_siekaniec@fws.gov>, Mitch Ellis <mitch_ellis@fws.gov>, Colligan,
Mary <mary_colligan@fws.gov>, Berendzen, Steve
<steve_berendzen@fws.gov>, Joanna Fox <joanna_fox@fws.gov>, Wendy Loya
<wendy_loya@fws.gov>

Here is the next iteration with edits accepted.

Andrea Medeiros
U.S. Fish and Wildlife Service,
Alaska Region, External Affairs **tEAm**
Public Affairs Specialist
(907) 786-3695
Mobile: (907) 227-4788

Connect with us:

From: paul_leonard@fws.gov
Location: Teleconference
Importance: Normal
Subject: Invitation: Arctic Snow Studies @ Tue Jun 12, 2018 10:30am - 11:30am (AKDT)
(wendy_loya@fws.gov)
Start Date/Time: 2018-06-12T14:30:00-04:00
End Date/Time: 2018-06-12T15:30:00-04:00
[invite.ics](#)

[more details »](#)

Arctic Snow Studies

Call in Details:
b5 - CIP

Participant Pass:
b5 - CIP

The Arctic LCC (now the Arctic Program) is looking for partners to help with snow studies, monitoring and modeling for the Arctic Refuge Coastal Plain (i.e. 1002 area) and wanted to touch base on any work that the Climate Science Center may have in progress. We have been working informally with Matthew Sturm at UAF Geophysical Institute who did some field work and Structure for Motion imagery this past April. Moving forward, we have the following objectives:

- 1) to examine the existing data on snow distribution and density and methods for monitoring snow on the Arctic coastal plain of Alaska via remote sensing and in situ methods;
- 2) to identify snow monitoring needs and techniques for this region to guide management decisions related to oil and gas exploration and development;
- 3) further down the road, we would be interested in coupling snow and hydrologic monitoring in selected river basins to delineate changing trends that might impact fish populations and habitat for nesting waterbirds.

When	Tue Jun 12, 2018 10:30am - 11:30am Alaska Time
Where	Teleconference (map)
Video call	https://hangouts.google.com/hangouts/_/doi.gov/paul_leonard
Calendar	wendy_loya@fws.gov
Who	

-
-
-
-
-

paul_leonard@fws.gov
sgray@usgs.gov
jittell@usgs.gov
karen_a_murphy@fws.gov
wendy_loya@fws.gov

Going? [Yes](#) [Maybe](#) [No](#) [more options »](#)
Invitation from [Google Calendar](#)

You are receiving this email at the account wendy_loya@fws.gov because you are subscribed for invitations on calendar wendy_loya@fws.gov.

To stop receiving these emails, please log in to <https://www.google.com/calendar/> and change your notification settings for this calendar.

Forwarding this invitation could allow any recipient to modify your RSVP response. [Learn More](#).

To: Wendy Loya[Wendy_loya@fws.gov]
Cc: Karen Murphy[karen_a_murphy@fws.gov]; Steve Berendzen[steve_berendzen@fws.gov]; Paul Leonard[paul_leonard@fws.gov]; Stephen Arthur[stephen_arthur@fws.gov]
From: Bradley, Joshua
Sent: 2018-06-12T12:49:25-04:00
Importance: Normal
Subject: Re: initial draft SOW for Arctic NWR data catalog etc..
Received: 2018-06-12T12:49:52-04:00
Draft1 SOW Arctic Coastal Plain Data Catalog_JLB comments.docx

Hi All,

I know there has been some movement on this, but I thought I would make a pass and share my suggestions on the SOW, see attached. My main concern is that creation of a "data catalog" is an order of magnitude beyond "data rescue" in terms of complexity and effort. I guess I'm not really clear on what "data catalog" means and it's not really defined in the SOW.

Josh

=====
Joshua Bradley
Data Manager, Science Applications
U.S. Fish and Wildlife Service
101 12th Avenue, Room 216
Fairbanks, Alaska 99701
907.455.1847 (office)
907.519.9370 (cell)
<https://www.mdeditor.org/>
=====

On Fri, Jun 1, 2018 at 9:28 AM, Wendy Loya <Wendy_loya@fws.gov> wrote:

Hi Steve A and Josh B,

Karen M drafted the attached statement of work for the data management contract we discussed (and sent it to Steve B, but good to have him in the loop too!). Please have a look and share your thoughts back, by phone with Karen or email would be great!

I think it looks good, I did change Refuge Manager to Refuge Supervisory Ecologist for the consultation parts.

Cheers,

Wendy

0000009630

Dr. Wendy M. Loya, Coordinator

Office of Science Applications -Arctic Program

US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Murphy, Karen <karen_a_murphy@fws.gov>
Sent: Friday, June 1, 2018 7:00 AM
To: Wendy Loya <wendy_loya@fws.gov>; Steve Berendzen <Steve_Berendzen@fws.gov>
Cc: Paul Leonard <paul_leonard@fws.gov>
Subject: initial draft SOW for Arctic NWR data catalog etc..

Hi Steve and Wendy,

Here is my first cut at capturing the potential scope of work to assist Arctic NWR in data organization and rescue. I was able to share most of this with Paul yesterday and incorporated his comments. I am working to see if we can broaden this out in a manner that would help the Region with its data management tasks, but that would have less focus on hard copy review/recovery than what I've written here. My intent would be to keep these components (or whatever we decide they should be) that are specific to Arctic so your comments on this draft would be very helpful.

I can work on this again on Monday or Tuesday next week but will be out Wed-Friday.

Have a good day,

Karen

Karen A Murphy

Science Applications

907-786-3501

karen_a_murphy@fws.gov

To: Stephanie Brady[stephanie_brady@fws.gov]; Tracy Fischbach[tracy_fischbach@fws.gov]; John Trawicki[john_trawicki@fws.gov]; Steve Berendzen[steve_berendzen@fws.gov]; Joanna Fox[joanna_fox@fws.gov]; Joshua Rose[joshua_rose@fws.gov]; Drew Crane[drew_crane@fws.gov]
From: Wendy Loya
Sent: 2018-06-12T13:06:23-04:00
Importance: Normal
Subject: New memo on MOUs for Cooperating Agencies
Received: 2018-06-12T13:06:41-04:00
[DS Memo Coop Agency Process.pdf](#)

The Deputy Secretary has simplified the process for DOI agencies working together on NEPA with guidelines for engagement and no need for an MOU. Please see attached. This should apply to both the EIS and EA. It does not preclude us finalizing the details of the Project initiation Letter for the EA.

We can discuss anything that seems left out at our 1pm meeting Wednesday.

Cheers,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Wendy Loya [mailto:wendy_loya@fws.gov]
Sent: Friday, June 8, 2018 11:58 AM
To: Steve Berendzen <steve_berendzen@fws.gov>; Joanna Fox <joanna_fox@fws.gov>
Subject: Friday updates

Hi Steve and Joanna,

Just a heads up that the MMPA process is moving forward as Mary's team has received an application from SAE for seismic. I expect that BLM is also due to receive an updated Plan of Operations. If they do and they share that with FWS, please do not distribute that further until we have a protocol in place for sharing it in a directed manner. If you think staff need to see it to work on their affected environment chapters before COB Monday, let me know. We may not receive a copy this time around.

I'll be up on Fairbanks starting next Tuesday and staying through the 21st, to prepare and host the alternatives workshop, and the three of us and Josh can find a time to meet to work together on information sharing. Also, Soch is trying to secure a facilitator for the alternatives workshop. It is important that if staff with knowledge of refuge resources aren't in the field, the workshop should be their priority. FYI, Patrick O'dell will come in from Colorado, and Lynnda Kahn will come up from Kenai. I hope to get an updated agenda out Monday if Nicole at BLM sends me a draft agenda for the BLM workshop today.

Thank you,

Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

To: Bud Cribley[bud_cribley@fws.gov]
From: Wendy Loya
Sent: 2018-06-12T13:07:18-04:00
Importance: Normal
Subject: FW: DS Memo on Cooperating Agency process
Received: 2018-06-12T13:07:30-04:00
[DS Memo Coop Agency Process.pdf](#)

FYI ☺

From: Greg Siekaniec [mailto:greg_siekaniec@fws.gov]
Sent: Tuesday, June 12, 2018 8:55 AM
To: Wendy Loya <wendy_loya@fws.gov>
Cc: Karen Clark <karen_clark@fws.gov>; Mary Colligan <mary_colligan@fws.gov>; Mitch Ellis <mitch_ellis@fws.gov>; Socheata Lor <socheata_lor@fws.gov>
Subject: Re: DS Memo on Cooperating Agency process

Thanks Wendy. I read this last night and agree that the changes address what you note. A new way of conducting business.

Greg

Sent from my iPhone

On Jun 12, 2018, at 8:49 AM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Greg and Karen,

Attached is new guidance from the Deputy Secretary on MOUs for DOI agencies working together, and it appears to make unnecessary the MOU we were in the process of surnaming for our work with BLM on the Coastal Plain Leasing EIS. I believe it is also likely applies to the Seismic EA for which we are attempting to finalize a project initiation letter.

Let me know if you believe otherwise.

Thanks,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

<DS Memo Coop Agency Process.pdf>

To: Wendy Loya[wendy_loya@fws.gov]
From: Rose, Joshua
Sent: 2018-06-12T14:06:22-04:00
Importance: Normal
Subject: Re: Please secure file permissions if needed for DRAFT EA.
Received: 2018-06-12T14:06:30-04:00

Wendy,

We are still in transition and I do not have permissions for the EA document. Joanna is on her way to Kaktovik for G to G meetings but should have internet access and I have forwarded her your email. If I don't hear back from her I will send her a text as well.

Thanks,
Josh

On Tue, Jun 12, 2018 at 9:55 AM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Josh,

Can you please make sure that the only people that continue to have access to the document are those doing the review (myself, John T, Stephanie, Sara, Joanna, Steve B and you?). We can share the final document with all staff and BLM when we have approval through RDT.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Rose, Joshua [mailto:joshua_rose@fws.gov]
Sent: Tuesday, June 12, 2018 9:51 AM

0000009636

To: Wendy Loya <wendy_loya@fws.gov>; John Trawicki <john_trawicki@fws.gov>; Stephanie Brady <stephanie_brady@fws.gov>; Sarah Conn <sarah_conn@fws.gov>

Cc: Fox, Joanna <joanna_fox@fws.gov>

Subject: EA chapter 3 is ready for review

We have completed the compilation and first review of the EA chapter 3 and it is ready for your review. During our last meeting we committed to have our draft back to BLM by this Friday, June 15th, so please complete your review as soon as possible to expedite this to the surnaming process. The document is on the google drive and is named "DRAFT Seismic EA - Chapter 3 Existing Condition" I have confirmed that each of you has edit access.

Also, Donna Wixon just returned to the office so I am waiting to hear if we are still having our weekly EA meeting at 3pm today. I will let you know as soon as I hear anything.

If you have any questions please feel free to contact me.

Thanks,

Josh

--

Joshua Rose

Aquatic Ecologist

USFWS Region 7 I&M

101 12th Ave., Rm 216

Fairbanks, AK 99701

phone: (907) 456-0409

--

Joshua Rose

Aquatic Ecologist
USFWS Region 7 I&M
101 12th Ave., Rm 216
Fairbanks, AK 99701
phone: (907) 456-0409

To: Joanna Fox[joanna_fox@fws.gov]
Cc: Rose, Joshua[joshua_rose@fws.gov]
From: Wendy Loya
Sent: 2018-06-12T14:15:11-04:00
Importance: Normal
Subject: Re: Please secure file permissions if needed for DRAFT EA.
Received: 2018-06-12T14:15:18-04:00

Thanks! Nicole can still have access too for editing. Safe travels!

Dr. Wendy M. Loya, Coordinator
Office of Science Applications- Arctic Program
Anchorage, Alaska
907.786.3532 (office)
907.227.2942 (mobile)

On Jun 12, 2018, at 10:12, Joanna Fox <joanna_fox@fws.gov> wrote:

Hi Josh,
I have removed access from all staff except those identified by Wendy and Nicole Gustine (in the event she is still being asked to edit). If you would like me to remove her as well, please let me know.

Thank you,
Joanna

Sent from my iPad

On Jun 12, 2018, at 10:07 AM, Rose, Joshua <joshua_rose@fws.gov> wrote:

Joanna,
Please see Wendy's email below. I do not have permissions to limit access.

Thanks,
Josh

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

From: **Wendy Loya** <wendy_loya@fws.gov>
Date: Tue, Jun 12, 2018 at 9:55 AM
Subject: Please secure file permissions if needed for DRAFT EA.
To: Joshua Rose <joshua_rose@fws.gov>

Hi Josh,

Can you please make sure that the only people that continue to have access to the document are those doing the review (myself, John T, Stephanie, Sara, Joanna, Steve B and you?). We can share the final document with all staff and BLM when we have approval through RDT.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Rose, Joshua [mailto:joshua_rose@fws.gov]

Sent: Tuesday, June 12, 2018 9:51 AM

To: Wendy Loya <wendy_loya@fws.gov>; John Trawicki <john_trawicki@fws.gov>;
Stephanie Brady <stephanie_brady@fws.gov>; Sarah Conn
<sarah_conn@fws.gov>

Cc: Fox, Joanna <joanna_fox@fws.gov>

Subject: EA chapter 3 is ready for review

We have completed the compilation and first review of the EA chapter 3 and it is ready for your review. During our last meeting we committed to have our draft back to BLM by this Friday, June 15th, so please complete your review as soon as possible to expedite this to the surnaming process. The document is on the google drive and is named "DRAFT Seismic EA - Chapter 3 Existing Condition" I have confirmed that each of you has edit access.

Also, Donna Wixon just returned to the office so I am waiting to hear if we are still having our weekly EA meeting at 3pm today. I will let you know as soon as I hear anything.

If you have any questions please feel free to contact me.

Thanks,

Josh

--

Joshua Rose

Aquatic Ecologist

USFWS Region 7 I&M

101 12th Ave., Rm 216

Fairbanks, AK 99701

phone: (907) 456-0409

--

Joshua Rose

Aquatic Ecologist

USFWS Region 7 I&M

101 12th Ave., Rm 216

Fairbanks, AK 99701

phone: (907) 456-0409

To: Murphy, Karen[karen_a_murphy@fws.gov]
Cc: Bradley, Joshua[joshua_bradley@fws.gov]; Wendy Loya[Wendy_loya@fws.gov]; Steve Berendzen[steve_berendzen@fws.gov]; Paul Leonard[paul_leonard@fws.gov]; Christopher Latty[christopher_latty@fws.gov]
From: Arthur, Stephen
Sent: 2018-06-12T15:38:15-04:00
Importance: Normal
Subject: Re: initial draft SOW for Arctic NWR data catalog etc..
Received: 2018-06-12T15:39:05-04:00

Karen et al.,

I think the most effective use of a contract like this would be to start with data we already know about, and work on setting up a searchable database first, with the idea that we will do the searching for old data ourselves. Of the existing data, I think we would want to start with birds, moose, muskoxen, Dall's sheep, vegetation (caribou and polar bear data are managed by other offices/agencies), and aquatic resources.

I do think the data rescue part of this is very important, but that might be difficult for a contractor to accomplish without a lot of help from our staff, and we might do that just as well without the contractor.

Steve

Stephen M. Arthur, Ph.D.

*Supervisory Wildlife Biologist
Arctic National Wildlife Refuge
101 12th Ave., Room 236
Fairbanks, AK 99701
(907)455-1830*

On Tue, Jun 12, 2018 at 9:16 AM, Murphy, Karen <karen_a_murphy@fws.gov> wrote:

Thanks Josh,

Your timing is perfect. I was going to reach out to you today for your comments on this since I think we need to move it forward without waiting for the a broader contract promoted by the Data Management Team. I'm not sure the timing will work for that broader contract.

Your question about the "data catalog" is key to this effort. In my mind it is a searchable database. Ideally it would be something that could roll into a Region wide defined database to track projects and data, but the catalog itself wouldn't hold the actual data. I'm not sure what would be the best format or software so I built in the language in the milestones for them to provide an early draft so that the approach could be agreed upon. If you can articulate a vision it would be very helpful since you are likely to be directly involved in this rather than me. What do you think? How would we define the necessary skill sets? Do we have something in writing that would give a contractor an idea of the restrictions we have on IT?

As for the non digital data, it was my understanding from a call we had earlier that it was a high priority for the refuge to have someone go through the old reports and see if they can find the data used in the reports. As I understood it, the refuge believes that there are historic datasets that could be identified and, ideally, some of them would be made available. There is a linked to the data catalog in the sense that the data catalog could then be used to find that historic data.

0000009642

Steve and Steve, would you please comment on this? Are both equally important or is it more important to focus on making existing digital datasets "whole" (metadata etc) or just on the data rescue aspects? We could tighten the focus if we picked one.

I look forward to hearing more from you all on this.

Best regards.
Karen

Karen A Murphy
Science Applications
907-786-3501
karen_a_murphy@fws.gov

On Tue, Jun 12, 2018 at 8:49 AM, Bradley, Joshua <joshua_bradley@fws.gov> wrote:

Hi All,
I know there has been some movement on this, but I thought I would make a pass and share my suggestions on the SOW, see attached. My main concern is that creation of a "data catalog" is an order of magnitude beyond "data rescue" in terms of complexity and effort. I guess I'm not really clear on what "data catalog" means and it's not really defined in the SOW.

Josh

Joshua Bradley
Data Manager, Science Applications
U.S. Fish and Wildlife Service
101 12th Avenue, Room 216
Fairbanks, Alaska 99701
907.455.1847 (office)
907.519.9370 (cell)
<https://www.mdeditor.org/>

On Fri, Jun 1, 2018 at 9:28 AM, Wendy Loya <Wendy_loya@fws.gov> wrote:

Hi Steve A and Josh B,

Karen M drafted the attached statement of work for the data management contract we discussed (and sent it to Steve B, but good to have him in the loop too!). Please have a look and share your

thoughts back, by phone with Karen or email would be great!

I think it looks good, I did change Refuge Manager to Refuge Supervisory Ecologist for the consultation parts.

Cheers,

Wendy

Dr. Wendy M. Loya, Coordinator

Office of Science Applications -Arctic Program

US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Murphy, Karen <karen_a_murphy@fws.gov>

Sent: Friday, June 1, 2018 7:00 AM

To: Wendy Loya <wendy_loya@fws.gov>; Steve Berendzen <Steve_Berendzen@fws.gov>

Cc: Paul Leonard <paul_leonard@fws.gov>

Subject: initial draft SOW for Arctic NWR data catalog etc..

Hi Steve and Wendy,

Here is my first cut at capturing the potential scope of work to assist Arctic NWR in data organization and rescue. I was able to share most of this with Paul yesterday and incorporated his comments. I am working to see if we can broaden this out in a manner that would help the Region with its data management tasks, but that would have less focus on hard copy review/recovery than what I've written here. My intent would be to keep these components (or whatever we decide they should be) that are specific to Arctic so your comments on this draft would be very helpful.

I can work on this again on Monday or Tuesday next week but will be out Wed-Friday.

Have a good day,

Karen

Karen A Murphy

Science Applications

907-786-3501

karen_a_murphy@fws.gov

To: Wendy Loya[wendy_loya@fws.gov]
From: Brady, Stephanie
Sent: 2018-06-12T16:58:19-04:00
Importance: Normal
Subject: Fwd: Surnaming Package for BLM MOU
Received: 2018-06-12T16:58:29-04:00
[20180524 ARC Note to Reviewer MOU.docx](#)
[20180524 BLM-FWS MOU.docx](#)

Here is the email that Tracy sent to Toni Romero to get the MOU in surname - so you can see how she laid out who should be surnaming. and attached is the note to reviewer that has the language - fatal flaw review only. let me know if you need anything else. Stephanie

stephanie_brady@fws.gov | Branch Chief, Conservation Planning and Policy |
U.S. Fish and Wildlife Service | National Wildlife Refuge System | Alaska |
907.306.7448
https://sites.google.com/a/fws.gov/alaska_region_office_of_conservation_planning_policy/home (DOI employees)

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

From: Fischbach, Tracy <tracy_fischbach@fws.gov>
Date: Thu, May 24, 2018 at 3:09 PM
Subject: Surnaming Package for BLM MOU
To: Maria Romero <maria_romero@fws.gov>
Cc: Stephanie Brady <stephanie_brady@fws.gov>, John Trawicki <John_Trawicki@fws.gov>

Hi Toni,

Attached is the Note to Reviewer and MOU for the Coastal Plain Oil & Gas EIS. We are ready for it to be formatted and routed.

The surnaming list is as follows:

Greg
Karen
Mitch
Steve B
Mary
Wendy
Stephanie
Tracy

Thank you so much!

-Tracy

Tracyann S Fischbach
Natural Resources Planner
U.S. Fish & Wildlife Service
National Wildlife Refuges - Alaska
(907) 786-3369 (office)
(907) 342-5238 (work cell-on during office hours)

0000009646

Hours: Mon - Thurs 6:30 am to 4:00 pm; Friday 9:00 am - 1:00 pm
Planning Questions? (DOI Only)

To: Whitman, Matt[mwhitman@blm.gov]; Nichelle (Shelly) Jones[njones@blm.gov]
Cc: Brown, Randy[randy_j_brown@fws.gov]; Wendy Loya[wendy_loya@fws.gov]
From: Trawicki, John
Sent: 2018-06-12T17:56:08-04:00
Importance: Normal
Subject: Re: communication
Received: 2018-06-12T17:56:54-04:00

Mathew-

Thanks for the heads -

I concur, but will work with the rule.

john t

On Tue, Jun 12, 2018 at 1:50 PM, Whitman, Matt <mwhitman@blm.gov> wrote:

John/Randy - I know this sounds weird, but this is due to very specific directions we were given here at BLM just yesterday.....

For now, if you want to communicate with me about the Arctic Refuge seismic EA or the EIS you have to route through our district manager Shelly Jones (njones@blm.gov 474-2310). And I guess, similarly, I'm supposed to go through her to coordinate with guys, as well.

This all seems highly ineffective for working together, among other things, but I don't make the rules (& not sure who does). Good luck.

Thanks,
Matthew

--

John Trawicki
Water Resources Branch Chief
National Wildlife Refuge System, Alaska
U.S. Fish and Wildlife Service
1011 E. Tudor Road
Anchorage, AK 99503
Work: (907) 786-3474
Mobile: (907) 360-1656

"The single biggest problem with communication is the illusion that it has taken place"
George Bernard Shaw

To: Steve Berendzen[steve_berendzen@fws.gov]; Joanna Fox[joanna_fox@fws.gov]
From: Wendy Loya
Sent: 2018-06-12T18:35:29-04:00
Importance: Normal
Subject: Plan for information sharing/review
Received: 2018-06-12T18:35:43-04:00
Draft Plan of Approvals for 1002 Documents and Information 06072018 Final.pdf

Hi Steve and Joanna,

Attached is the current draft of the Information Quality Control and Sharing. It has not yet been approved by HQ, but we will operate under these guidelines until we get further feedback. This is for your reference and not to be shared with staff, at least until we finalize it. The key pieces that they need to know are that 1) they are free to communicate with BLM in areas of their expertise; and 2) all documents related to input or review of the EIS and EA will be reviewed to ensure it reflects our best work, meaning factual, unbiased, supported by regulations wherever possible, to make sure we aren't overlooking expertise that may reside in other parts of our agency, and the language reflects the Secretary's priorities.

BLM is restricting their communications by directing everything through Shelly Jones, I'll find out more about that today and work with our team to determine how to best implement that.

Thank you,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

To: Wendy Loya[wendy_loya@fws.gov]
From: Trawicki, John
Sent: 2018-06-12T18:47:28-04:00
Importance: Normal
Subject: Fwd: Invitation: Coastal Plain Seismic EA-Status Check @ Weekly from 15:00 to 15:30 on Tuesday (AKDT) (joshua_rose@fws.gov)
Received: 2018-06-12T18:48:14-04:00
[invite.ics](#)

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

From: **Rose, Joshua** <joshua_rose@fws.gov>
Date: Tue, Jun 12, 2018 at 2:15 PM
Subject: Fwd: Invitation: Coastal Plain Seismic EA-Status Check @ Weekly from 15:00 to 15:30 on Tuesday (AKDT) (joshua_rose@fws.gov)
To: Stephanie Brady <stephanie_brady@fws.gov>, John Trawicki <john_trawicki@fws.gov>

Stephanie and John,
Here is the call in info for the meeting. If something doesn't go right you can reach me on my cell **b6**

Thanks,
Josh

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

From: **Donna Wixon** <dwixon@blm.gov>
Date: Tue, Jun 12, 2018 at 1:53 PM
Subject: Invitation: Coastal Plain Seismic EA-Status Check @ Weekly from 15:00 to 15:30 on Tuesday (AKDT) (joshua_rose@fws.gov)
To: joshua_rose@fws.gov, rbrumbau@blm.gov, slamarr@blm.gov, njones@blm.gov, steve_berendzen@fws.gov

[more details »](#)

Coastal Plain Seismic EA-Status Check

This is a standing meeting, so we can check in and discuss what is happening with the Seismic EA.

When Weekly from 15:00 to 15:30 on Tuesday Alaska Time

Where BLM-AK FDO Arctic Conference Room, BLM-AK FDO Bridge **b5 - CIP** Passcode **b5 - CIP** BLM-AK FDO Chandalar Conference Room ([map](#))

Video call https://hangouts.google.com/hangouts/_/doi.gov/njones

Calendar [joshua_rose@fws.gov](#)

Who

- [njones@blm.gov](#) organizer
- [joshua_rose@fws.gov](#)
- [dwixon@blm.gov](#)

- rbrumbau@blm.gov
- slamarr@blm.gov
- joanna_fox@fws.gov
- steve_berendzen@fws.gov

Going? All events in this series: **Yes - Maybe - No** [more options »](#)

Invitation from [Google Calendar](#)

You are receiving this email at the account joshua_rose@fws.gov because you are subscribed for invitations on calendar joshua_rose@fws.gov.

To stop receiving these emails, please log in to <https://www.google.com/calendar/> and change your notification settings for this calendar.

Forwarding this invitation could allow any recipient to modify your RSVP response. [Learn More](#).

--

Joshua Rose
Aquatic Ecologist
USFWS Region 7 I&M
101 12th Ave., Rm 216
Fairbanks, AK 99701
phone: (907) 456-0409

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John Trawicki
Water Resources Branch Chief
National Wildlife Refuge System, Alaska
U.S. Fish and Wildlife Service
1011 E. Tudor Road
Anchorage, AK 99503
Work: (907) 786-3474
Mobile: (907) 360-1656

"The single biggest problem with communication is the illusion that it has taken place"
George Bernard Shaw

To: Nichelle (Shelly) Jones[njones@blm.gov]
From: Wendy Loya
Sent: 2018-06-12T22:16:59-04:00
Importance: Normal
Subject: FW: DS Memo on Cooperating Agency process
Received: 2018-06-12T22:17:10-04:00
[DS Memo Coop Agency Process.pdf](#)

Attached is the new guidance for DOI agencies working together on NEPA as a cooperating agency. You can check with Ted to see if this applies to the Seismic EA.

I will send the updated timeline and IDT Team for FWS in a separate email.

Thanks Shelly,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

To: Nichelle (Shelly) Jones[njones@blm.gov]
From: Wendy Loya
Sent: 2018-06-12T22:25:12-04:00
Importance: Normal
Subject: Updated PIL with updated IDT team for FWS and timeline for MMPA/ESA consultation
Received: 2018-06-12T22:25:23-04:00
PIL-Seismic EA May 24 2018 ANWR final updated FWS-IDT and Timeline per MMPA.docx

Although this is a constantly evolving document, attached are our edits to reflect staffing changes and adding an expert for Climate and an adjusted timeline reflecting how our Marine Mammals team anticipates completing MMPA and ESA authorization.

Thank you,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

To: Joshua Rose[joshua_rose@fws.gov]; John Trawicki[john_trawicki@fws.gov]; Stephanie Brady[stephanie_brady@fws.gov]; Sarah Conn[sarah_conn@fws.gov]; Nicole Gustine[nicole_gustine@fws.gov]
Cc: Joanna Fox[joanna_fox@fws.gov]
From: Wendy Loya
Sent: 2018-06-12T22:46:18-04:00
Importance: Normal
Subject: DEADLINE: EA chapter 3 due by Thursday COB.
Received: 2018-06-12T22:46:20-04:00

Hi POC team and Nicole,

At the meeting with BLM today for the Seismic EA, Josh and I talked through the timeline for the EA and upcoming activity for the EIS. It was agreed that since there is not a complete application yet from SAE for seismic, FWS will be able to build in slightly more time for ensuring this chapter is concise and complete, which won't mean much more time for you as it has to go through ARDs and RD for surnaming :0!

Please have your edits complete by COB Thursday afternoon 6/15. Josh can hopefully resolve any comments or edits by noon Friday and I will then send that document to Soch/Mitch, Mary, Eric and Sara B then up to Karen C and Greg. Target date to BLM is Friday 6/22.

Josh is still the contact for any content questions ☺ We recognize this final Chapter may evolve per the application and further consideration of issues/impacts.

Thank you all for your help,

Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Rose, Joshua [mailto:joshua_rose@fws.gov]
Sent: Tuesday, June 12, 2018 9:51 AM
To: Wendy Loya <wendy_loya@fws.gov>; John Trawicki <john_trawicki@fws.gov>; Stephanie Brady <stephanie_brady@fws.gov>; Sarah Conn <sarah_conn@fws.gov>
Cc: Fox, Joanna <joanna_fox@fws.gov>
Subject: EA chapter 3 is ready for review

We have completed the compilation and first review of the EA chapter 3 and it is ready for your review. During our last meeting we committed to have our draft back to BLM by this Friday, June 15th, so please complete your review as soon as possible to expedite this to the surnaming process. The document is on the google drive and is named "DRAFT Seismic EA - Chapter 3 Existing Condition" I have confirmed that each of you has edit access.

Also, Donna Wixon just returned to the office so I am waiting to hear if we are still having our weekly EA meeting at 3pm today. I will let you know as soon as I hear anything.

If you have any questions please feel free to contact me.

Thanks,

Josh

--

Joshua Rose
Aquatic Ecologist
USFWS Region 7 I&M
101 12th Ave., Rm 216
Fairbanks, AK 99701
phone: (907) 456-0409

From: Google Calendar
Location: Fairbanks (Refuges Conference Room)
Importance: Normal
Subject: Accepted: FWS Workshop on Alternatives for Coastal Plain Leasing EI... @ Tue Jun 19 8:30am - Wed Jun 20, 2018 4pm (AKDT) (wendy_loya@fws.gov)
Start Date/Time: 2018-06-19T12:30:00-04:00
End Date/Time: 2018-06-20T20:00:00-04:00
[invite.ics](#)

Todd Hopkins has accepted this invitation.

FWS Workshop on Alternatives for Coastal Plain Leasing EIS/Seismic EA

To prepare for the BLM's Arctic Refuge Coastal Plain Oil Leasing EIS Alternatives Workshop in July, we are holding an internal meeting June 19 20th in Fairbanks. The purpose of this meeting is to identify stipulations, best management practices and other leasing conditions to be applied to specific places that will help us achieve all of the purposes of the Arctic Refuge, from conservation of fish, wildlife, subsistence and water resources to the new purpose of an oil and gas program.

The workshop will be held in Fairbanks, and we hope to have as many people attend in person as possible for engaging, well informed discussion across disciplines. The draft agenda is outlined below. We will set up a teleconference line for those that cannot make it to Fairbanks.

I will send out more information by subject matter group next week to help us come prepared with the data and existing regulations to support the need for stipulations similar to those found in NPRA. Paul Leonard is coordinating the compilation of spatial and temporal information on species habitat use and locations of special and unique landscape features.

DRAFT Agenda:

Arctic Refuge Coastal Plain Leasing EIS Alternatives Workshop

Tuesday June 19th

1

Welcome and Purpose

8:30 8:45

2

Intro to NPRA Alternatives & Stipulations

8:45 9:30

3

Vegetation/soils/permafrost/snow

9:30 10:00

break

0000009656

4

Fish and Water resources

10:15 11:15

5

Caribou

11:15 11:45

Lunch & informal discussions

11:45 1:00

6

Polar bears/bears

1:00 2:00

7

Migratory birds

2:00 3:00

Break

8

Other mammals/all species

3:15 4:15

Meet for group dinner (optional)

5:30 pm

Wednesday June 20th

9

Wilderness/Recreation/Hunting

8:30 9:30

10

Unique features/WSR/Marine PA

930 1030

break

1030 1045

11

Cultural/Archaeological

10:45 11:45

Lunch & informal discussions

11:45 1:00

Subsistence

1:00 2:00

Operations not already covered

2:00 3:00

Wrap up/action items /adjourn

3:00 3:30

POC meet on next steps

3:30 5:00

Thank you,

Wendy

Dr. Wendy M. Loya, Coordinator

Office of Science Applications Arctic Program

US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

•

When
Where
Video call
Calendar
Who

Time Tue Jun 19 8:30am Wed Jun 20, 2018 4pm Alaska
Fairbanks (Refuges Conference Room) ([map](#))
https://hangouts.google.com/hangouts/_/doi.gov/wendy_loya
wendy_loya@fws.gov

•

To: Murphy, Karen[karen_a_murphy@fws.gov]
Cc: Arthur, Stephen[stephen_arthur@fws.gov]; Wendy Loya[Wendy_loya@fws.gov]; Steve Berendzen[steve_berendzen@fws.gov]; Paul Leonard[paul_leonard@fws.gov]; Christopher Latty[christopher_latty@fws.gov]
From: Bradley, Joshua
Sent: 2018-06-13T11:35:22-04:00
Importance: Normal
Subject: Re: initial draft SOW for Arctic NWR data catalog etc..
Received: 2018-06-13T11:36:40-04:00
Draft1 SOW Arctic Coastal Plain Data Catalog JLB comments.docx

Hi Karen,

I added some language requiring the use of the mdEditor tool. The mdEditor can be used to create a de facto data catalog (there are some planned enhancements that would facilitate the process). Once the metadata is available, it can be push to ScienceBase(already implemented), possibly ServCat(they would need to add support), a system like the LCC Science Catalog(<http://dev.lccnetwork.org/catalog>, we own the code that runs the catalog), or some other system for use by the Region (e.g. like an improved version of metadata.arcticlcc.org). First thing is to get the projects and datasets documented.

Josh

=====
Joshua Bradley
Data Manager, Science Applications
U.S. Fish and Wildlife Service
101 12th Avenue, Room 216
Fairbanks, Alaska 99701
907.455.1847 (office)
907.519.9370 (cell)
<https://www.mdeditor.org/>
=====

On Wed, Jun 13, 2018 at 8:24 AM, Murphy, Karen <karen_a_murphy@fws.gov> wrote:

Thanks Steve,

I thought that the moose data is in good shape after you had support from I&M to work on those data. Did I get that wrong from our last call?

Is there anyway to quantify the amount of datasets that we are talking about? I'm struggling to get enough detail into the contract language so that they can assess the scope of the job. Are the existing digital data already in SERVCAT (if that is broader than just I&M) but just incomplete metadata? For bird data, would there be a reason to link it to the MBM database should I talk with Chuck Frost about that?

I'm planning on working on this more this morning if you have time to give me a call.

Thanks!
Karen

Karen A Murphy
Science Applications
907-786-3501
karen_a_murphy@fws.gov

On Tue, Jun 12, 2018 at 11:38 AM, Arthur, Stephen <stephen_arthur@fws.gov> wrote:

Karen et al.,

I think the most effective use of a contract like this would be to start with data we already know about, and work on setting up a searchable database first, with the idea that we will do the searching for old data ourselves. Of the existing data, I think we would want to start with birds, moose, muskoxen, Dall's sheep, vegetation (caribou and polar bear data are managed by other offices/agencies), and aquatic resources.

I do think the data rescue part of this is very important, but that might be difficult for a contractor to accomplish without a lot of help from our staff, and we might do that just as well without the contractor.

Steve

Stephen M. Arthur, Ph.D.

Supervisory Wildlife Biologist
Arctic National Wildlife Refuge
101 12th Ave., Room 236
Fairbanks, AK 99701
(907)455-1830

On Tue, Jun 12, 2018 at 9:16 AM, Murphy, Karen <karen_a_murphy@fws.gov> wrote:

Thanks Josh,

Your timing is perfect. I was going to reach out to you today for your comments on this since I think we need to move it forward without waiting for the a broader contract promoted by the Data Management Team. I'm not sure the timing will work for that broader contract.

Your question about the "data catalog" is key to this effort. In my mind it is a searchable database. Ideally it would be something that could roll into a Region wide defined database to track projects and data, but the catalog itself wouldn't hold the actual data. I'm not sure what would be the best format or software so I built in the language in the milestones for them to provide an early draft so that the approach could be agreed upon. If you can articulate a vision it would be very helpful since you are likely to be directly involved in this rather than me. What do you think? How would we define the necessary skill sets? Do we have something in writing that would give a contractor an idea of the restrictions we have on IT?

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As for the non digital data, it was my understanding from a call we had earlier that it was a high priority for the refuge to have someone go through the old reports and see if they can find the data used in the reports. As I understood it, the refuge believes that there are historic datasets that could be identified and, ideally, some of them would be made available. There is a linked to the data catalog in the sense that the data catalog could then be used to find that historic data.

Steve and Steve, would you please comment on this? Are both equally important or is it more important to focus on making existing digital datasets "whole" (metadata etc) or just on the data rescue aspects? We could tighten the focus if we picked one.

I look forward to hearing more from you all on this.

Best regards.
Karen

Karen A Murphy
Science Applications
907-786-3501
karen_a_murphy@fws.gov

On Tue, Jun 12, 2018 at 8:49 AM, Bradley, Joshua <joshua_bradley@fws.gov> wrote:

Hi All,

I know there has been some movement on this, but I thought I would make a pass and share my suggestions on the SOW, see attached. My main concern is that creation of a "data catalog" is an order of magnitude beyond "data rescue" in terms of complexity and effort. I guess I'm not really clear on what "data catalog" means and it's not really defined in the SOW.

Josh

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Joshua Bradley
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101 12th Avenue, Room 216
Fairbanks, Alaska 99701
907.455.1847 (office)
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=====

On Fri, Jun 1, 2018 at 9:28 AM, Wendy Loya <Wendy_loya@fws.gov> wrote:

Hi Steve A and Josh B,

Karen M drafted the attached statement of work for the data management contract we discussed (and sent it to Steve B, but good to have him in the loop too!). Please have a look and share your thoughts back, by phone with Karen or email would be great!

I think it looks good, I did change Refuge Manager to Refuge Supervisory Ecologist for the consultation parts.

Cheers,

Wendy

Dr. Wendy M. Loya, Coordinator

Office of Science Applications -Arctic Program

US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Murphy, Karen <karen_a_murphy@fws.gov>

Sent: Friday, June 1, 2018 7:00 AM

To: Wendy Loya <wendy_loya@fws.gov>; Steve Berendzen <Steve_Berendzen@fws.gov>

Cc: Paul Leonard <paul_leonard@fws.gov>

Subject: initial draft SOW for Arctic NWR data catalog etc..

Hi Steve and Wendy,

Here is my first cut at capturing the potential scope of work to assist Arctic NWR in data organization and rescue. I was able to share most of this with Paul yesterday and incorporated his comments. I am working to see if we can broaden this out in a manner that would help the Region with its data management tasks, but that would have less focus on hard copy review/recovery than what I've written here. My intent would be to keep these components (or whatever we decide they

should be) that are specific to Arctic so your comments on this draft would be very helpful.

I can work on this again on Monday or Tuesday next week but will be out Wed-Friday.

Have a good day,

Karen

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Science Applications

907-786-3501

karen_a_murphy@fws.gov

To: Murphy, Karen[karen_a_murphy@fws.gov]
Cc: Bradley, Joshua[joshua_bradley@fws.gov]; Wendy Loya[Wendy_loya@fws.gov]; Steve Berendzen[steve_berendzen@fws.gov]; Paul Leonard[paul_leonard@fws.gov]; Christopher Latty[christopher_latty@fws.gov]
From: Arthur, Stephen
Sent: 2018-06-13T11:56:29-04:00
Importance: Normal
Subject: Re: initial draft SOW for Arctic NWR data catalog etc..
Received: 2018-06-13T11:57:32-04:00

For the moose data, we have done the "data discovery" part, but still need to create and populate a database for long term storage.

Most of the existing digital data are not in SERVCAT, and would need some work to get them ready for that. We have a collection of files in Excel, ArcMap, MapSource, and other formats that need to be organized and put in a common format so that they can be easily accessed.

I think we can make a stab at quantifying the data sets we want to work with for this contract. We could at least choose the highest priority data. Getting this framework established will help us move forward with determining how best to deal with the older data sets.

I'm pretty busy today, but maybe Chris and I can discuss this some more tomorrow.

Steve

Stephen M. Arthur, Ph.D.
*Supervisory Wildlife Biologist
Arctic National Wildlife Refuge
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Joshua Bradley
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U.S. Fish and Wildlife Service
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Fairbanks, Alaska 99701
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Cheers,

Wendy

Dr. Wendy M. Loya, Coordinator

Office of Science Applications -Arctic Program

US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

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Sent: Friday, June 1, 2018 7:00 AM

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Cc: Paul Leonard <paul_leonard@fws.gov>

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Karen

Karen A Murphy

Science Applications

907-786-3501

karen_a_murphy@fws.gov

To: Wendy Loya[wendy_loya@fws.gov]
From: Crane, Drew
Sent: 2018-06-13T12:26:54-04:00
Importance: Normal
Subject: Re: FW: DEADLINE: EA chapter 3 due by Thursday COB.
Received: 2018-06-13T12:27:00-04:00

Hey Wendy,
Checking on this now for you. Would the person need to review the whole thing, or just the marine mammal portion?

Thanks!

Drew

On Tue, Jun 12, 2018 at 6:52 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Drew,

Sarah Conn is out until the 22nd, so we need an MMM POC to review the Affecting Environment section for the Seismic EA. It would make the most sense if that were to be you, as the only other FES POC, but that is up to MMM to decide; maybe you have other excellent writers/editors. Can you let Josh Rose, Joanna and I know who will fill in for Sarah, and then Joanna can add edit access for you or that person?

It's only 72 pages and due on Thursday COB 😊.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Wendy Loya [mailto:wendy_loya@fws.gov]
Sent: Tuesday, June 12, 2018 6:46 PM
To: Joshua Rose <joshua_rose@fws.gov>; John Trawicki <john_trawicki@fws.gov>; Stephanie Brady <stephanie_brady@fws.gov>; Sarah Conn <sarah_conn@fws.gov>; Nicole Gustine <nicole_gustine@fws.gov>
Cc: Joanna Fox <joanna_fox@fws.gov>
Subject: DEADLINE: EA chapter 3 due by Thursday COB.

Hi POC team and Nicole,

At the meeting with BLM today for the Seismic EA, Josh and I talked through the timeline for the EA and upcoming activity for the EIS. It was agreed that since there is not a complete application yet from SAE for seismic, FWS will be able to build in slightly more time for ensuring this chapter is concise and complete, which won't mean much more time for you as it has to go through ARDs and RD for surnaming :O!

Please have your edits complete by COB Thursday afternoon 6/15. Josh can hopefully resolve any comments or edits by noon Friday and I will then send that document to Soch/Mitch, Mary, Eric and Sara B then up to Karen C and Greg. Target date to BLM is Friday 6/22.

Josh is still the contact for any content questions ☺ We recognize this final Chapter may evolve per the application and further consideration of issues/impacts.

Thank you all for your help,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

0000009674

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Rose, Joshua [mailto:joshua_rose@fws.gov]

Sent: Tuesday, June 12, 2018 9:51 AM

To: Wendy Loya <wendy_loya@fws.gov>; John Trawicki <john_trawicki@fws.gov>; Stephanie Brady <stephanie_brady@fws.gov>; Sarah Conn <sarah_conn@fws.gov>

Cc: Fox, Joanna <joanna_fox@fws.gov>

Subject: EA chapter 3 is ready for review

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Also, Donna Wixon just returned to the office so I am waiting to hear if we are still having our weekly EA meeting at 3pm today. I will let you know as soon as I hear anything.

If you have any questions please feel free to contact me.

Thanks,

Josh

--

Joshua Rose

Aquatic Ecologist

USFWS Region 7 I&M

101 12th Ave., Rm 216

Fairbanks, AK 99701

phone: (907) 456-0409

To: Joshua Rose[joshua_rose@fws.gov]; Wendy Loya[wendy_loya@fws.gov]; Joanna Fox[joanna_fox@fws.gov]
From: Trawicki, John
Sent: 2018-06-13T13:09:00-04:00
Importance: Normal
Subject: Fwd: Annotated Literature Updates & Cumulative Effects Matrix
Received: 2018-06-13T13:09:57-04:00
[Coastal Plain 1002 Area Oil & Gas Cumulative Lit Review 11Jun2018jwm.docx](#)
[MITIGATION MATRIX Coastal plain 1002 area DRAFT11Jun2018.docx](#)

fyi

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

From: **Martin, John** <john_w_martin@fws.gov>
Date: Mon, Jun 11, 2018 at 2:20 PM
Subject: Annotated Literature Updates & Cumulative Effects Matrix
To: Stephanie Brady <stephanie_brady@fws.gov>, John Trawicki <john_trawicki@fws.gov>, Margaret Perdue <margaret_perdue@fws.gov>, Greta Burkart <greta_burkart@fws.gov>, Paul Leonard <paul_leonard@fws.gov>

FYI

Latest updates per subject line - 11 Jun 2018. All are subject to change, further discussion and input, and may still be considered less-than-exhaustive.

Both have been added to RO Natural Resources Common Drive/1002ArcticRefuge/1-Working under Literature to support Resource Assessments.

Please distribute to whoever may benefit.

Thanks

John

--

John Trawicki
Water Resources Branch Chief
National Wildlife Refuge System, Alaska
U.S. Fish and Wildlife Service
1011 E. Tudor Road
Anchorage, AK 99503
Work: (907) 786-3474
Mobile: (907) 360-1656

"The single biggest problem with communication is the illusion that it has taken place"
George Bernard Shaw

0000009677

To: Wendy Loya[wendy_loya@fws.gov]; Joshua Bradley[Joshua_Bradley@fws.gov]; Stephen Arthur[stephen_arthur@fws.gov]; Paul Leonard[paul_leonard@fws.gov]; Christopher Latty[christopher_latty@fws.gov]
From: Murphy, Karen
Sent: 2018-06-13T13:28:45-04:00
Importance: Normal
Subject: Fwd: Draft SOW for potential Science BPA contract
Received: 2018-06-13T13:29:21-04:00
[Draft2 SOW Arctic Coastal Plain Data Catalog.docx](#)
[Ordering-Guide-Scientific-Technical-Advisory-Services-BPAs.pdf](#)

Hello all,
Here's the newest draft SOW with help from Steve and Josh. I sent this off to Randy Miller in CGS this morning for him to get us feedback on whether or not it has sufficient detail. He is also going to query the three companies on the Scientific, Technical, and Advisory Services Blanket Purchase Agreement (see attached). If we can use that BPA contracting function it would be easiest since we would only have to review up to three proposals.

Please keep sending me your edits. I'll let you know what Randy says as I expect that we will need additional information before it gets advertised.

Thanks,
Karen

Karen A Murphy
Science Applications
907-786-3501
karen_a_murphy@fws.gov

----- Forwarded message -----
From: **Murphy, Karen** <karen_a_murphy@fws.gov>
Date: Wed, Jun 13, 2018 at 9:22 AM
Subject: Draft SOW for potential Science BPA contract
To: Randall Miller <Randall_Miller@fws.gov>

Hi Randy,
Here is the draft SOW that I spoke to you about yesterday. We would appreciate feedback from you on whether or not this is sufficient detail and if advertising it through the BPA is appropriate. We have tentatively allocated \$150,000 for this work but have little way to estimate its likely cost.

Thanks in advance for your help!
Karen

Karen A Murphy
Science Applications
907-786-3501
karen_a_murphy@fws.gov

To: Joshua Rose[joshua_rose@fws.gov]; John Trawicki[john_trawicki@fws.gov]; Drew Crane[drew_crane@fws.gov]
From: Wendy Loya
Sent: 2018-06-13T13:32:15-04:00
Importance: Normal
Subject: FW: DEADLINE: EA chapter 3 due by Thursday COB.
Received: 2018-06-13T13:32:44-04:00

FYI, Nicole Gustine can do the copy editing for the appendices. Josh has already done citation checks for EA information.

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Brady, Stephanie [mailto:stephanie_brady@fws.gov]
Sent: Wednesday, June 13, 2018 9:13 AM
To: Wendy Loya <wendy_loya@fws.gov>; Gustine, Nicole <nicole_gustine@fws.gov>
Subject: Re: DEADLINE: EA chapter 3 due by Thursday COB.

Hi there - Nicole - can you please take a look at wendys email and review the document for consistency and references? Today and/or tomorrow would be great - thanks!

stephanie_brady@fws.gov | Branch Chief, Conservation Planning and Policy |
U.S. Fish and Wildlife Service | National Wildlife Refuge System | Alaska |
907.306.7448
https://sites.google.com/a/fws.gov/alaska_region_office_of_conservation_planning_policy/home (DOI employees)

On Wed, Jun 13, 2018 at 8:56 AM, Wendy Loya <wendy_loya@fws.gov> wrote:
Hi Stephanie,

If Nicole could help review the appendices and do reference checks to make sure what is cited is listed today and tomorrow, that would be immensely helpful. If not, we will do what we can.

Thank you,
Wendy

Dr. Wendy M. Loya, Coordinator
Office of Science Applications- Arctic Program
Anchorage, Alaska
[907.786.3532](tel:907.786.3532) (office)

907.227.2942 (mobile)

On Jun 13, 2018, at 08:38, Brady, Stephanie <stephanie_brady@fws.gov> wrote:

Wendy, from your email below, it is unclear where Nicole fits in for review? She is off on Fridays and is on leave next week - so at this point, she will not be able to edit the document. Please let me know if you have any questions. Stephanie

stephanie_brady@fws.gov | Branch Chief, Conservation Planning and Policy |
U.S. Fish and Wildlife Service | National Wildlife Refuge System | Alaska |
907.306.7448
https://sites.google.com/a/fws.gov/alaska_region_office_of_conservation_planning_policy/home (DOI employees)

On Tue, Jun 12, 2018 at 6:46 PM, Wendy Loya <wendy_loya@fws.gov> wrote:
Hi POC team and Nicole,

At the meeting with BLM today for the Seismic EA, Josh and I talked through the timeline for the EA and upcoming activity for the EIS. It was agreed that since there is not a complete application yet from SAE for seismic, FWS will be able to build in slightly more time for ensuring this chapter is concise and complete, which won't mean much more time for you as it has to go through ARDs and RD for surnaming :0!

Please have your edits complete by COB Thursday afternoon 6/15. Josh can hopefully resolve any comments or edits by noon Friday and I will then send that document to Soch/Mitch, Mary, Eric and Sara B then up to Karen C and Greg. Target date to BLM is Friday 6/22.

Josh is still the contact for any content questions ☺ We recognize this final Chapter may evolve per the application and further consideration of issues/impacts.

Thank you all for your help,

Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Rose, Joshua [mailto:joshua_rose@fws.gov]

Sent: Tuesday, June 12, 2018 9:51 AM

To: Wendy Loya <wendy_loya@fws.gov>; John Trawicki <john_trawicki@fws.gov>; Stephanie Brady <stephanie_brady@fws.gov>; Sarah Conn <sarah_conn@fws.gov>

Cc: Fox, Joanna <joanna_fox@fws.gov>

Subject: EA chapter 3 is ready for review

We have completed the compilation and first review of the EA chapter 3 and it is ready for your review. During our last meeting we committed to have our draft back to BLM by this Friday, June 15th, so please complete your review as soon as possible to expedite this to the surnaming process. The document is on the google drive and is named "DRAFT Seismic EA - Chapter 3 Existing Condition" I have confirmed that each of you has edit access.

Also, Donna Wixon just returned to the office so I am waiting to hear if we are still having our weekly EA meeting at 3pm today. I will let you know as soon as I hear anything.

If you have any questions please feel free to contact me.

Thanks,

Josh

--

Joshua Rose
Aquatic Ecologist
USFWS Region 7 I&M
101 12th Ave., Rm 216
Fairbanks, AK 99701
phone: (907) 456-0409

To: Karen Murphy[karen_a_murphy@fws.gov]; Joshua Bradley[joshua_bradley@fws.gov]; Stephen Arthur[stephen_arthur@fws.gov]; Paul Leonard[paul_leonard@fws.gov]; Christopher Latty[christopher_latty@fws.gov]
From: Wendy Loya
Sent: 2018-06-13T13:35:26-04:00
Importance: Normal
Subject: RE: Draft SOW for potential Science BPA contract
Received: 2018-06-13T13:35:48-04:00

Since EMPSi, the CO based company on the BPA, is the contractor for the Coastal Plain Leasing EIS, they could potentially be a good possibility. They also subcontract with local companies, which probably makes it more expensive than directly working with companies.

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Murphy, Karen [mailto:karen_a_murphy@fws.gov]
Sent: Wednesday, June 13, 2018 9:29 AM
To: Wendy Loya <wendy_loya@fws.gov>; Joshua Bradley <Joshua_Bradley@fws.gov>; Stephen Arthur <stephen_arthur@fws.gov>; Paul Leonard <paul_leonard@fws.gov>; Christopher Latty <christopher_latty@fws.gov>
Subject: Fwd: Draft SOW for potential Science BPA contract

Hello all,
Here's the newest draft SOW with help from Steve and Josh. I sent this off to Randy Miller in CGS this morning for him to get us feedback on whether or not it has sufficient detail. He is also going to query the three companies on the Scientific, Technical, and Advisory Services Blanket Purchase Agreement (see attached). If we can use that BPA contracting function it would be easiest since we would only have to review up to three proposals.

Please keep sending me your edits. I'll let you know what Randy says as I expect that we will need additional information before it gets advertised.

Thanks,
Karen

Karen A Murphy
Science Applications
907-786-3501
karen_a_murphy@fws.gov

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

From: **Murphy, Karen** <karen_a_murphy@fws.gov>
Date: Wed, Jun 13, 2018 at 9:22 AM
Subject: Draft SOW for potential Science BPA contract
To: Randall Miller <Randall_Miller@fws.gov>

Hi Randy,

Here is the draft SOW that I spoke to you about yesterday. We would appreciate feedback from you on whether or not this is sufficient detail and if advertising it through the BPA is appropriate. We have tentatively allocated \$150,000 for this work but have little way to estimate its likely cost.

Thanks in advance for your help!
Karen

Karen A Murphy
Science Applications
907-786-3501
karen_a_murphy@fws.gov

To: Nicole Gustine[nicole_gustine@fws.gov]
From: Wendy Loya
Sent: 2018-06-13T13:37:47-04:00
Importance: Normal
Subject: RE: DEADLINE: EA chapter 3 due by Thursday COB.
Received: 2018-06-13T13:38:13-04:00

Thank you so much, Nicole. Josh Rose is the contact if you have questions.

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Gustine, Nicole [mailto:nicole_gustine@fws.gov]
Sent: Wednesday, June 13, 2018 9:37 AM
To: Brady, Stephanie <stephanie_brady@fws.gov>
Cc: Wendy Loya <wendy_loya@fws.gov>
Subject: Re: DEADLINE: EA chapter 3 due by Thursday COB.

Will do.

Sincerely,

Nicole Gustine, Refuge Specialist
U.S Fish and Wildlife Service
1011 E. Tudor Rd., MS-235
Anchorage, Alaska 99503
(907) 903-8819 - cell
Hours: Tue - Thurs 6am to 1pm

[Click here to access the Conservation Planning and Policy Google Site \(DOI employees\)](#)

On Wed, Jun 13, 2018 at 11:12 AM, Brady, Stephanie <stephanie_brady@fws.gov> wrote:
Hi there - Nicole - can you please take a look at wendys email and review the document for consistency and references? Today and/or tomorrow would be great - thanks!

stephanie_brady@fws.gov | Branch Chief, Conservation Planning and Policy |
U.S. Fish and Wildlife Service | National Wildlife Refuge System | Alaska |
907.306.7448
https://sites.google.com/a/fws.gov/alaska_region_office_of_conservation_planning_policy/home (DOI employees)

On Wed, Jun 13, 2018 at 8:56 AM, Wendy Loya <wendy_loya@fws.gov> wrote:
Hi Stephanie,

If Nicole could help review the appendices and do reference checks to make sure what is cited is listed today and tomorrow, that would be immensely helpful. If not, we will do what we can.

Thank you,
Wendy

Dr. Wendy M. Loya, Coordinator
Office of Science Applications- Arctic Program
Anchorage, Alaska
[907.786.3532](tel:907.786.3532) (office)
[907.227.2942](tel:907.227.2942) (mobile)

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Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Rose, Joshua [mailto:joshua_rose@fws.gov]
Sent: Tuesday, June 12, 2018 9:51 AM
To: Wendy Loya <wendy_loya@fws.gov>; John Trawicki <john_trawicki@fws.gov>; Stephanie Brady <stephanie_brady@fws.gov>; Sarah Conn <sarah_conn@fws.gov>
Cc: Fox, Joanna <joanna_fox@fws.gov>
Subject: EA chapter 3 is ready for review

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If you have any questions please feel free to contact me.
Thanks,
Josh

--
Joshua Rose
Aquatic Ecologist
USFWS Region 7 I&M
101 12th Ave., Rm 216
Fairbanks, AK 99701
phone: (907) 456-0409

To: Joshua Rose[joshua_rose@fws.gov]
From: Wendy Loya
Sent: 2018-06-13T13:51:31-04:00
Importance: Normal
Subject: terrestrial from scoping comments DRAFT language
Received: 2018-06-13T13:51:42-04:00

Because of the proximity to the Sadlerochit Mountains and the Brooks Range, the coastal plain of the Arctic Refuge is six to eight times steeper than the coastal plain to the west where oil and gas development currently exists on state lands and in National Petroleum Reserve Alaska (NPRA). The more varied terrain results in higher diversity of vegetation, soils, and permafrost including vegetation types more sensitive to disturbance, such as drier sites and tall shrubs in riparian areas and dwarf shrub tundra on slopes. Shallow ice rich permafrost is believed to be extensive in the region (Pastick et al., 2015), which requires thick, intact organic mats and vegetation to be stable and protected from melting and subsidence (thermokarst). Permafrost may provide the majority of the structural integrity of hillsides and shorelines including stream channel banks. Protection of the underlying permafrost is also a key component for any construction design. Two studies of seismic conducted in the Arctic Refuge tracked recovery for at least 15 years, showing that 10 – 20% of the camp move trails were still disturbed 15 years after exploration. This was sometimes due to ground subsidence that caused the trail to become a wetter trough.

The Service requests that the EIS include stipulations and BMPs that protect vegetation, soils and permafrost based off analyses of all landcover including wetland maps, soils, and permafrost data available. Determination of the snow depth necessary to protect vegetation across the coastal plain should be determined by vegetation type and not physiography alone (i.e. more detailed than “coastal” and “foothills”).

Given the limited water resources in the area, the EIS will need to consider how exploration and development practices may differ from NPRA and ensure that stipulations and BMPs are included that minimize the impacts to vegetation, soils, and permafrost of plausible operating procedures for the Arctic Refuge.

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

To: Wendy Loya[wendy_loya@fws.gov]
Cc: Fox, Joanna[joanna_fox@fws.gov]; Joshua Rose[joshua_rose@fws.gov]
From: Crane, Drew
Sent: 2018-06-13T14:26:30-04:00
Importance: Normal
Subject: Re: FW: DEADLINE: EA chapter 3 due by Thursday COB.
Received: 2018-06-13T14:26:39-04:00

Hey Wendy,

Since the review is for ES sections beyond marine mammals, I can do the review and reach out to the MM folks if I have questions.

Joanna, can you provide me edit access to the affected environment document?

Thank you,

Drew Crane
Regional Endangered Species Coordinator
Alaska Region
U.S. Fish and Wildlife Service
1011 E. Tudor Road
Anchorage, AK 99503
907-786-3323

On Tue, Jun 12, 2018 at 6:52 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Drew,

Sarah Conn is out until the 22nd, so we need an MMM POC to review the Affecting Environment section for the Seismic EA. It would make the most sense if that were to be you, as the only other FES POC, but that is up to MMM to decide; maybe you have other excellent writers/editors. Can you let Josh Rose, Joanna and I know who will fill in for Sarah, and then Joanna can add edit access for you or that person?

It's only 72 pages and due on Thursday COB 😊.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Wendy Loya [mailto:wendy_loya@fws.gov]
Sent: Tuesday, June 12, 2018 6:46 PM
To: Joshua Rose <joshua_rose@fws.gov>; John Trawicki <john_trawicki@fws.gov>; Stephanie Brady <stephanie_brady@fws.gov>; Sarah Conn <sarah_conn@fws.gov>; Nicole Gustine <nicole_gustine@fws.gov>
Cc: Joanna Fox <joanna_fox@fws.gov>
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Thank you all for your help,

Wendy

0000009689

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Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

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Also, Donna Wixon just returned to the office so I am waiting to hear if we are still having our weekly EA meeting at 3pm today. I will let you know as soon as I hear anything.

If you have any questions please feel free to contact me.

Thanks,

Josh

--

Joshua Rose

Aquatic Ecologist

USFWS Region 7 I&M

101 12th Ave., Rm 216

Fairbanks, AK 99701

phone: (907) 456-0409

To: Paul Leonard[paul_leonard@fws.gov]
From: Wendy Loya
Sent: 2018-06-13T17:35:39-04:00
Importance: Normal
Subject: FW: [EXTERNAL] RE: Current map of Oil Leasing on Alaska's North Slope?
Received: 2018-06-13T17:35:56-04:00
Existing Oil Dev w Refuge.pdf

FYI....

From: Sullender, Benjamin [mailto:bsullender@audubon.org]
Sent: Wednesday, June 13, 2018 12:49 PM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: RE: [EXTERNAL] RE: Current map of Oil Leasing on Alaska's North Slope?

Hi Wendy,

Sure thing. I don't have the date of lease acquisition for those, but I have the active leases and infrastructure.

I've attached the same active lease map as before, zoomed out to include the Refuge.

I've found that the Alaska DNR Division of Oil and Gas does a good job publishing PDF maps showing the latest activities. They publish a new map every couple months showing latest wells, permit applications, lease transfers, breaking news, announced discoveries, etc. The maps are posted under North Slope Maps->Activity Maps here: <http://dog.dnr.alaska.gov/Information/MapsAndGis>. It's a resource that I keep my eye on, and it might be a useful bookmark for your browser.

Best,
-Ben

Benjamin Sullender
Spatial Ecologist | Audubon Alaska
bsullender@audubon.org
431 W. 7th Ave, Suite 101
Anchorage, AK 99501
(907) 276-7034

From: Wendy Loya [mailto:wendy_loya@fws.gov]
Sent: Wednesday, June 13, 2018 12:01 PM
To: Sullender, Benjamin <bsullender@audubon.org>
Subject: RE: [EXTERNAL] RE: Current map of Oil Leasing on Alaska's North Slope?

Hey Ben,

Thanks for the prompt reply. I believe there are active leases along the border of the Arctic Refuge, if

so, would it be easy to include to the Canning? If not, these are great.

Cheers,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Sullender, Benjamin [mailto:bsullender@audubon.org]
Sent: Wednesday, June 13, 2018 11:54 AM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: [EXTERNAL] RE: Current map of Oil Leasing on Alaska's North Slope?

Hi Wendy,

I've attached two maps from a recent analysis these are current as of April. The analysis focused on the central and western Beaufort, so Point Thomson / the Refuge are clipped out of the frame.

Best,
-Ben

Benjamin Sullender
Spatial Ecologist | Audubon Alaska
bsullender@audubon.org
431 W. 7th Ave, Suite 101
Anchorage, AK 99501
(907) 276-7034

From: Smith, Melanie A.
Sent: Wednesday, June 13, 2018 11:34 AM
To: Wendy Loya <wendy_loya@fws.gov>; Sullender, Benjamin <bsullender@audubon.org>
Subject: RE: Current map of Oil Leasing on Alaska's North Slope?

Thank you Wendy.

We do have an updated map which is stewarded by Ben. He's copied here and will send you the latest.

Melanie

From: Wendy Loya [mailto:wendy_loya@fws.gov]
Sent: Wednesday, June 13, 2018 11:07 AM
To: Smith, Melanie A. <masmith@audubon.org>
Subject: Current map of Oil Leasing on Alaska's North Slope?

Hi Melanie,

Congrats on your new role with Audubon. It sounds like a great way to scale up the work you have done in Alaska, but glad you will still be around to be a resource for Audubon Alaska.

I was wondering if you have a contemporary version of the Oil and Gas Leasing on AK's north slope map? This has always been a great visual resource for thinking about cumulative effects. Couldn't find one on the website...

Thank you,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Smith, Melanie A. [<mailto:masmith@audubon.org>]
Sent: Thursday, June 7, 2018 4:14 PM
To: Smith, Melanie A. <masmith@audubon.org>
Subject: [EXTERNAL] Moving to National Audubon

Dear Colleagues,

I am writing to let you know about my changing role with Audubon. I have accepted a position with National Audubon as a Program Director within the brand-new Migratory Bird Initiative. In this initiative we will synthesize what is known about bird migration, identify data gaps and fund research, and prioritize important sites for conservation action. I will oversee the creation of a migration atlas of North American birds.

While this move transitions me away from working solely on Alaska issues, I won't be disappearing. In August I will begin working in my new position while continuing to work for the Alaska office 25% time through the end of the year. The position I have is flexible in location and I am not leaving Alaska; I plan to keep working from the Anchorage office, getting to continue to spend time with my wonderful colleagues here. During the next several months I will be here to provide continuity during leadership transition and button up projects like the Arctic marine ecological hotspots and the Southeast Alaska Birding Trail.

After ten years at Audubon Alaska, I am sad to step away from the programs I have so much passion for, yet excited to start a new chapter and take on a new challenge with Audubon. I have been

grateful to work with each of you. Thank you for all you do for conservation in Alaska and beyond, and please keep in touch.

Sincerely,

Melanie

Melanie A. Smith
Director of Conservation Science

Audubon Alaska
431 West 7th Ave, Suite 101
Anchorage, AK 99501
(907) 276-7034 office
(907) 440-1964 cell



From: Todd Hopkins
Location: Fairbanks (Refuges Conference Room)
Importance: Normal
Subject: Accepted: FWS Workshop on Alternatives for Coastal Plain Leasing EIS/Seismic EA
Start Date/Time: 2018-06-19T12:30:00-04:00
End Date/Time: 2018-06-20T20:00:00-04:00

To: Wendy Loya[wendy_loya@fws.gov]
From: Crane, Drew
Sent: 2018-06-13T20:36:56-04:00
Importance: Normal
Subject: Re: FW: DEADLINE: EA chapter 3 due by Thursday COB.
Received: 2018-06-13T20:37:02-04:00

Hey Wendy,

I took a look at the sections that were in the ES wheelhouse and had some minor edits. I also provided some comments in sections outside my box, but felt they were worth mentioning. I'm happy to discuss further if you like.

Thanks!

Drew Crane
Regional Endangered Species Coordinator
Alaska Region
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Josh

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Joshua Rose

Aquatic Ecologist

USFWS Region 7 I&M

101 12th Ave., Rm 216

Fairbanks, AK 99701

phone: (907) 456-0409

To: Drew Crane[drew_crane@fws.gov]
From: Wendy Loya
Sent: 2018-06-13T21:13:54-04:00
Importance: Normal
Subject: RE: FW: DEADLINE: EA chapter 3 due by Thursday COB.
Received: 2018-06-13T21:13:58-04:00

Thank you. You get the rockstar award, and thanks for looking at as much as possible!

Dr. Wendy M. Loya,
Arctic Program Coordinator
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Thanks!

Drew Crane
Regional Endangered Species Coordinator
Alaska Region
U.S. Fish and Wildlife Service
1011 E. Tudor Road
Anchorage, AK 99503
907-786-3323

On Tue, Jun 12, 2018 at 6:52 PM, Wendy Loya <wendy_loya@fws.gov> wrote:
Hi Drew,

Sarah Conn is out until the 22nd, so we need an MMM POC to review the Affecting Environment section for the Seismic EA. It would make the most sense if that were to be you, as the only other FES POC, but that is up to MMM to decide; maybe you have other excellent writers/editors. Can you let Josh Rose, Joanna and I know who will fill in for Sarah, and then Joanna can add edit access for you or that person?

It's only 72 pages and due on Thursday COB ☺.

Thank you,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Wendy Loya [mailto:wendy_loya@fws.gov]
Sent: Tuesday, June 12, 2018 6:46 PM
To: Joshua Rose <joshua_rose@fws.gov>; John Trawicki <john_trawicki@fws.gov>; Stephanie Brady <stephanie_brady@fws.gov>; Sarah Conn <sarah_conn@fws.gov>; Nicole Gustine <nicole_gustine@fws.gov>
Cc: Joanna Fox <joanna_fox@fws.gov>
Subject: DEADLINE: EA chapter 3 due by Thursday COB.

Hi POC team and Nicole,

At the meeting with BLM today for the Seismic EA, Josh and I talked through the timeline for the EA and upcoming activity for the EIS. It was agreed that since there is not a complete application yet from SAE for seismic, FWS will be able to build in slightly more time for ensuring this chapter is concise and complete, which won't mean much more time for you as it has to go through ARDs and RD for surnaming :O!

Please have your edits complete by COB Thursday afternoon 6/15. Josh can hopefully resolve any comments or edits by noon Friday and I will then send that document to Soch/Mitch, Mary, Eric and Sara B then up to Karen C and Greg. Target date to BLM is Friday 6/22.

Josh is still the contact for any content questions ☺ We recognize this final Chapter may evolve per the application and further consideration of issues/impacts.

Thank you all for your help,

Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Rose, Joshua [mailto:joshua_rose@fws.gov]
Sent: Tuesday, June 12, 2018 9:51 AM
To: Wendy Loya <wendy_loya@fws.gov>; John Trawicki <john_trawicki@fws.gov>; Stephanie Brady <stephanie_brady@fws.gov>; Sarah Conn <sarah_conn@fws.gov>

Cc: Fox, Joanna <joanna_fox@fws.gov>

Subject: EA chapter 3 is ready for review

We have completed the compilation and first review of the EA chapter 3 and it is ready for your review. During our last meeting we committed to have our draft back to BLM by this Friday, June 15th, so please complete your review as soon as possible to expedite this to the surnaming process. The document is on the google drive and is named "DRAFT Seismic EA - Chapter 3 Existing Condition" I have confirmed that each of you has edit access.

Also, Donna Wixon just returned to the office so I am waiting to hear if we are still having our weekly EA meeting at 3pm today. I will let you know as soon as I hear anything.

If you have any questions please feel free to contact me.

Thanks,

Josh

--

Joshua Rose

Aquatic Ecologist

USFWS Region 7 I&M

101 12th Ave., Rm 216

Fairbanks, AK 99701

phone: (907) 456-0409

To: Mary Colligan[mary_colligan@fws.gov]
Cc: wendy_loya@fws.gov[wendy_loya@fws.gov]
From: Frerich, Lucille
Sent: 2018-06-14T11:18:52-04:00
Importance: Normal
Subject: Re: Greg will be there Tuesday morning
Received: 2018-06-14T11:19:41-04:00

Done - Monday at 10:30. Calendar invites have been sent out.

Lucy

Lucille Frerich
Secretary, Fisheries & Ecological Services
U.S. Fish & Wildlife Service
1011 E. Tudor Rd MS-361
Anchorage, AK 99503
907 786-3856 Fax: 907 786-3848

On Thu, Jun 14, 2018 at 6:52 AM, Mary Colligan <mary_colligan@fws.gov> wrote:

Lucy -could you please set up a 1/2 hour briefing for Wendy, Greg and I on Monday for 1002?

Wendy-I am at the Oil and Gas Forum all day today, but can talk tomorrow about talking points for Greg.

Thanks

Sent from my iPhone

Begin forwarded message:

From: Karen Clark <karen_clark@fws.gov>
Date: June 14, 2018 at 3:56:35 AM AKDT
To: mary_colligan@fws.gov
Subject: Greg will be there Tuesday morning

Hey Mary,
Greg will be there Tuesday. He would like to have a pre-brief and some talking points. Can you work with Wendy to set something up? Will have to be on Monday given he won't be in the office until then.
Thanks! Karen

Sent from my iPhone

To: Wendy Loya[wendy_loya@fws.gov]
Cc: Fox, Joanna[joanna_fox@fws.gov]
From: Rose, Joshua
Sent: 2018-06-15T12:43:43-04:00
Importance: Normal
Subject: Veg papers
Received: 2018-06-15T12:43:51-04:00
[Felix et al 1992 Resistance Resilience of Tundra Plants to Disturbance Winter Seismic Vehicles.pdf](#)
[Jorgenson et al 2010 Longterm recovery patterns tundra after winter seismic.pdf](#)

Wendy,

While I was digging through literature this morning I came across these papers from Janet on impacts to veg communities from the 1980's seismic work. The 2010 paper may be especially useful if we want to try to discuss the sensitivity of different plant communities to disturbance and also has a breakdown of the coastal plain of the Refuge by % cover of each community type.

Also, after several hours of working on the permafrost stuff it has become apparent that I will need through the weekend to add a suitable appendix section that meshes with the rest of the document. We can discuss when you get in but I think we are better off having it as is rather than adding a section that doesn't tie all the section together well.

Thanks,
Josh

Joshua Rose
Aquatic Ecologist
USFWS Region 7 I&M
101 12th Ave., Rm 216
Fairbanks, AK 99701
phone: (907) 456-0409

To: Wendy Loya[wendy_loya@fws.gov]
From: Bud Cribley
Sent: 2018-06-15T14:23:08-04:00
Importance: Normal
Subject: Re: FW: Oil and Gas Forum
Received: 2018-06-15T14:23:25-04:00

Wendy,

b5 - DP

Bud

On Fri, Jun 15, 2018 at 1:23 PM Wendy Loya <wendy_loya@fws.gov> wrote:

From: Colligan, Mary [mailto:mary_colligan@fws.gov]
Sent: Friday, June 15, 2018 8:34 AM
To: Gregory Siekaniec <greg_siekaniec@fws.gov>; Karen Clark <karen_clark@fws.gov>; Mitch Ellis <mitch_ellis@fws.gov>; Socheata Lor <socheata_lor@fws.gov>; Wendy Loya <wendy_loya@fws.gov>
Subject: Oil and Gas Forum

Yesterday, I attended the Oil and Gas Forum sponsored by the North Slope Borough. I just wanted to quickly share a few highlights.

Governor Walker opened the Forum and emphasized the need to properly develop the natural resources and that it was important that the decisions be made by local people. He talked about the fact that AK is the most energy rich state, but has the highest energy cost. He said he wanted to fix that imbalance. He thanked Assistant Secretary Balash for his support and leadership and said how much he admires Secretary Zinke and talked about the day the Izembeck Road deal was signed as a very proud day.

Assistant Secretary Balash talked about how proud he was as an Alaskan to be holding a Cabinet level position and said he takes the responsibility seriously and emphasized the importance of coordination, communication and appreciation. He emphasized the importance of considering the benefit of infrastructure for local villages and people. He said he recently met with Mayor Brower and they agreed to get their teams together to revisit the IAP for the NPRA. He said on his first day on the job the Secretary told him the ANWR leasing program was his job - he said that was both humbling and exciting. He emphasized the importance of stipulations/BMPs to protect subsistence and noted that this whole program

would be heavily scrutinized.

The NSB repeatedly emphasized their desire for a MOU with DOI. They have a couple MOUs with the State and say it has really helped communication and coordination.

The NSB presented on revisions they are trying to make to their zoning code - seems like something the Refuge folks might be interested in.

There were many presentations and discussions about infrastructure planning and coordination including the North Slope Community Winter Access Trails (CWAT), Arctic Strategic Transportation and Resources (ASTAR) and other planning efforts. Frustration was expressed over the fact that oil and gas companies each have their own roads and infrastructure which increases the footprint of impact. The NSB also presented on their program to provide water, wastewater and solid waste service to the industry (Area 10 program) and the need to plan now to accommodate needs given the increased development in the NPRA and with the 1002 potential. The point was made that consideration should be given to the proximity of lease sites to state or NSB lands in order to accommodate the support services that would be necessary and can't be provided on federal lands.

Another theme of the meeting was concern over Decommissioning, Removal and Restoration (DR&R). Concerns were expressed over smaller companies taking over facilities and whether they would have the resources to properly conduct DR&R when the time came. Also some expressed a desire to repurpose the infrastructure for the benefit of villages rather than removal.

At the conclusion, they expressed a desire to hold a forum every couple of years and for future ones to be jointly sponsored by the NSB, State and Federal Agencies.

It seemed appreciated that USFWS was present. Particularly towards the end of the day they asked who was still there and there were only 2 federal agency folks left - whereas there was a large contingent in the morning sessions. Frustration was expressed that the agencies were there to present but not to listen.

Please let me know if you have any questions or want to see any of the information distributed.

Thanks,

Mary

--

Mary Colligan

Assistant Regional Director

Fisheries and Ecological Services

U.S. Fish and Wildlife Service, Alaska Region

1011 E. Tudor Road, MS-361

Anchorage, AK 99503

907-786-3505

cell: 907-223-5945

--

Bud C Cribley

Senior Advisor for Energy with the U.S. Fish & Wildlife Service

Office # 202-208-4331

Cell # 907-717-5141

Office # MIB 3341

email: bud_cribley@fws.gov

To: Leonard, Paul[paul_leonard@fws.gov]; Wendy Loya[wendy_loya@fws.gov]
From: Trawicki, John
Sent: 2018-06-15T17:46:20-04:00
Importance: Normal
Subject: Re: Arctic Refuge Coastal Plain maps
Received: 2018-06-15T17:47:07-04:00

Paul-

<https://erma.noaa.gov/arctic/erma.html#/layers=15+17876+35719+37107&x=-143.46496&y=70.13578&z=7&panel=layer>

ERMA is a NOAA mapping site that is pretty good a few items are outdated, but there is a lot there. It does not work in Explorer. Look at the legends tab. You will likely want to turn off/on one or two of the background layers to get other layer to show-up in a meaningful way.

Layers of interest Natural Resources, Critical Habitats, Cultural Resources, **Environmental Sensitivity Index**, ...

When you click on the title of each layer heading you get the metadata, following the heading for many layers there is a link that will take you to the data.

In the link provided if my layers hold, 2009 PB critical denning habitat is highlighted.

I will work up an ESI map for the area and send as PDF. It is created from this site.

john t

On Thu, Jun 14, 2018 at 4:46 PM, John Trawicki <john_trawicki@fws.gov> wrote:

Yes

Should be able to have one or two with hydrography and topography, and another 2 that are gray scale that folks can draw on .

And I will have the big map.

Sent from my iPhone

On Jun 14, 2018, at 3:18 PM, Leonard, Paul <paul_leonard@fws.gov> wrote:

Hey John,

I do think a few somewhat generic tabletop maps (3-4) with basic landscape features would be useful for the meeting. Perhaps one with the wider ACP would also help folks compare across the landscape.

Do you think there are folks that can help put something like that together in the RO?

Cheers,
Paul

On Mon, Jun 11, 2018 at 11:47 AM, Trawicki, John <john_trawicki@fws.gov> wrote:

sounds good

On Mon, Jun 11, 2018 at 10:52 AM, Leonard, Paul <paul_leonard@fws.gov> wrote:

Hi John,
I do think it would be helpful. We do have a plotter but I have not used it yet. I will make sure I have access and can provide maps this week. If a problem arises, I will circle back.

Cheers,
Paul

On Fri, Jun 1, 2018 at 10:59 AM, Trawicki, John <john_trawicki@fws.gov> wrote:

Hi Paul-

I know you are working on mapping for the coastal plain. For the FWS alternatives workshop do you have or would it be helpful to have a few large printed maps that folks can draw on and label.

Not sure if you have a plotter in FBKs. I can have maps printed here if needed. Let me know.

--

John Trawicki
Water Resources Branch Chief
National Wildlife Refuge System, Alaska
U.S. Fish and Wildlife Service
1011 E. Tudor Road
Anchorage, AK 99503
Work: (907) 786-3474
Mobile: (907) 360-1656

"The single biggest problem with communication is the illusion that it has taken place"
George Bernard Shaw

--

Paul Leonard, PhD
Science Coordinator

Arctic LCC
101 12th Ave. Room 216
Fairbanks, AK 99701
(907) 456-0445

--

John Trawicki
Water Resources Branch Chief
National Wildlife Refuge System, Alaska
U.S. Fish and Wildlife Service
1011 E. Tudor Road
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Work: (907) 786-3474
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--

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--

John Trawicki
Water Resources Branch Chief
National Wildlife Refuge System, Alaska
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1011 E. Tudor Road
Anchorage, AK 99503
Work: (907) 786-3474
Mobile: (907) 360-1656

"The single biggest problem with communication is the illusion that it has taken place"
George Bernard Shaw

To: Colligan, Mary[mary_colligan@fws.gov]
Cc: Mitch Ellis[mitch_ellis@fws.gov]; Socheata Lor[socheata_lor@fws.gov]; Sara Boario[sara_boario@fws.gov]; Eric Taylor[eric_taylor@fws.gov]; Drew Crane[drew_crane@fws.gov]; John Trawicki[john_trawicki@fws.gov]
From: Wendy Loya
Sent: 2018-06-16T00:50:59-04:00
Importance: Normal
Subject: Re: 2 questions on Scoping Comments edits!
Received: 2018-06-16T00:51:01-04:00

I think **b5 - DP** [REDACTED].

Thanks everyone...I will send out the revised draft Saturday before sending to RDs on Monday.

Wendy

Dr. Wendy M. Loya, Coordinator
Office of Science Applications- Arctic Program
Anchorage, Alaska
907.786.3532 (office)
907.227.2942 (mobile)

On Jun 15, 2018, at 20:05, Colligan, Mary <mary_colligan@fws.gov> wrote:

Sorry for the delay. I had **b6** [REDACTED]

Here is the language I questioned in our scoping comments:

b5 - DP [REDACTED]

b5 - DP [REDACTED]

b5 - DP

b5 - DP

b5 - DP

Hopefully that provides some context for my question.

On Fri, Jun 15, 2018 at 4:13 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Let's wait for clarification from Mary...

I interpreted Mary's comment

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Mitch Ellis [mailto:mitch_ellis@fws.gov]

Sent: Friday, June 15, 2018 3:59 PM

To: Socheata Lor <socheata_lor@fws.gov>

Cc: Wendy Loya <wendy_loya@fws.gov>; Sara Boario <sara_boario@fws.gov>; Eric Taylor <eric_taylor@fws.gov>; Mary Colligan <mary_colligan@fws.gov>; Drew Crane <drew_crane@fws.gov>; John Trawicki <john_trawicki@fws.gov>

Subject: Re: 2 questions on Scoping Comments edits!

0000009713

On #2, not sure exactly what **b5 - DP**

Sent from my iPhone

On Jun 15, 2018, at 7:50 PM, Socheata Lor <socheata_lor@fws.gov> wrote:

Wendy,

On #1: we should not include and remove references to it.

#2: **b5 - DP**

Soch

Sent from my iPhone

On Jun 15, 2018, at 2:56 PM, Wendy Loya
<wendy_loya@fws.gov> wrote:

Hi ARDs,

To follow up, there are enough comments here that I will not try to get it done today.

2 Comments I need input on are:

1) **ALL:** The Rapid-Response Resource Assessments were completed in February 2016 and have been previously shared with BLM, via email. We did not send them through surnaming. They are useful, but they should not be considered complete or entirely accurate (given our lack of experience with oil and gas when written in Jan-Feb 2018). I would suggest we do not want them to be published with in

the Public Scoping Report, nor to be a go-to public document. For that reason, I suggest we remove reference from this letter. Thoughts:

2) **SOCH and MARY:** The comment from Mary under Air Quality referring to the interagency MOU on air quality and possible discussion by Steve Wackowski. Is this something that has been rescinded and would alter the content of our comment here?

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Boario, Sara [mailto:sara_boario@fws.gov]

Sent: Friday, June 15, 2018 2:18 PM

To: Taylor, Eric <eric_taylor@fws.gov>

Cc: Wendy Loya <wendy_loya@fws.gov>; Socheata Lor <socheata_lor@fws.gov>;

Mary Colligan <mary_colligan@fws.gov>; Crane, Drew

<drew_crane@fws.gov>; John Trawicki

<john_trawicki@fws.gov>; Mitch Ellis

<mitch_ellis@fws.gov>

Subject: Re: Note to Reviewer: Scoping Comments for Coastal Plain Leasing EIS

Wendy -

Eric caught a few of the typos I was going to flag, and I'm fine with deferring on substance to Mary, Soch and Eric. I

read it all, looks good.

thank you!

sb

On Fri, Jun 15, 2018 at 2:09 PM, Taylor, Eric <eric_taylor@fws.gov> wrote:

Hi Wendy -

Attached are my edits overlaid on Mary's review.
Please let me know if you have any questions.

Eric

Eric J. Taylor

Chief, Division of Migratory Bird Management

U.S. Fish and Wildlife Service

1011 E. Tudor Road, MS 201

Anchorage, Alaska 99503-6199

907.786.3446 (office)

907.903.7210 (cell)

eric_taylor@fws.gov

On Wed, Jun 13, 2018 at 2:32 PM, Wendy Loya
<wendy_loya@fws.gov> wrote:

Hi ARDs on Arctic Refuge Coastal Plain team,

Given the short timeline for turnaround, I would like to ask for concurrent review of the attached FWS Scoping comments for the Coastal Plain Leasing EIS. If you have edits, please return them to me and I will collate those. The comments are due from Greg to BLM next Wednesday June 19th, so if I can get your comments by COB Friday, that would be great. Looking for significant missing issues.

I am working from Fairbanks this week and next, call me on my cell at 227-2942 if you have questions.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Wendy Loya [mailto:wendy_loya@fws.gov]

Sent: Tuesday, June 12, 2018 1:25 PM

To: Socheata Lor <socheata_lor@fws.gov>

Cc: Mitch Ellis <mitch_ellis@fws.gov>

Subject: Note to Reviewer: Scoping Comments for Coastal Plain Leasing EIS

Importance: High

Hi Soch,

Attached is the Note to Reviewer, FWS Scoping Comments for the Coastal Plain EIS and a copy of Attachment 2: RR Resource Assessment and Literature Review for your review and signature. Since Toni is out, please help me keep this moving so we can meet the June 19th deadline.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

--

Sara D. Boario

Assistant Regional Director-External Affairs

U.S. Fish and Wildlife Service, Alaska Region

Anchorage, Alaska

907-786-3431

<image001.png> <image002.jpg>

<FWS Scoping Comments Coastal Plain EIS 061218
MAC_ejt.docx>

--

Mary Colligan
Assistant Regional Director
Fisheries and Ecological Services
U.S. Fish and Wildlife Service, Alaska Region
1011 E. Tudor Road, MS-361
Anchorage, AK 99503
907-786-3505
cell: 907-223-5945

To: stephanie_brady@fws.gov[stephanie_brady@fws.gov]; john_trawicki@fws.gov[john_trawicki@fws.gov]; todd_hopkins@fws.gov[todd_hopkins@fws.gov]
Cc: wendy_loya@fws.gov[wendy_loya@fws.gov]; Mitch Ellis[mitch_ellis@fws.gov]
From: Socheata Lor
Sent: 2018-06-16T11:52:03-04:00
Importance: Normal
Subject: Fwd: Air Quality and Visual & Noise whitepapers
Received: 2018-06-16T11:52:20-04:00
[ATT00001.htm](#)
[Visual Resources and Noise_AKLNG-6020-REG-YPW-DOC-00006.pdf](#)
[FLAG AQRV_Rev0A_1-17-18.pdf](#)
[ATT00002.htm](#)

Stephanie,
Stephanie,

I see in the string that you were working with Melissa on this. Can you connect with Wendy and provide any insight you might have?

Sent from my iPhone

Begin forwarded message:

From: "Colligan, Mary" <mary_colligan@fws.gov>
Date: June 15, 2018 at 7:46:44 PM AKDT
To: Socheata Lor <socheata_lor@fws.gov>, Mitch Ellis <mitch_ellis@fws.gov>
Subject: Fwd: Air Quality and Visual & Noise whitepapers

This is what I was referring to in my other e-mail.

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

From: **Colligan, Mary** <mary_colligan@fws.gov>
Date: Fri, Feb 16, 2018 at 10:24 AM
Subject: Fwd: Air Quality and Visual & Noise whitepapers
To: Socheata Lor <socheata_lor@fws.gov>
Cc: Melissa Burns <melissa_burns@fws.gov>

Soch We were just provided these documents and Greg has a briefing with Steve Wackowski on Tuesday. b5

[REDACTED]

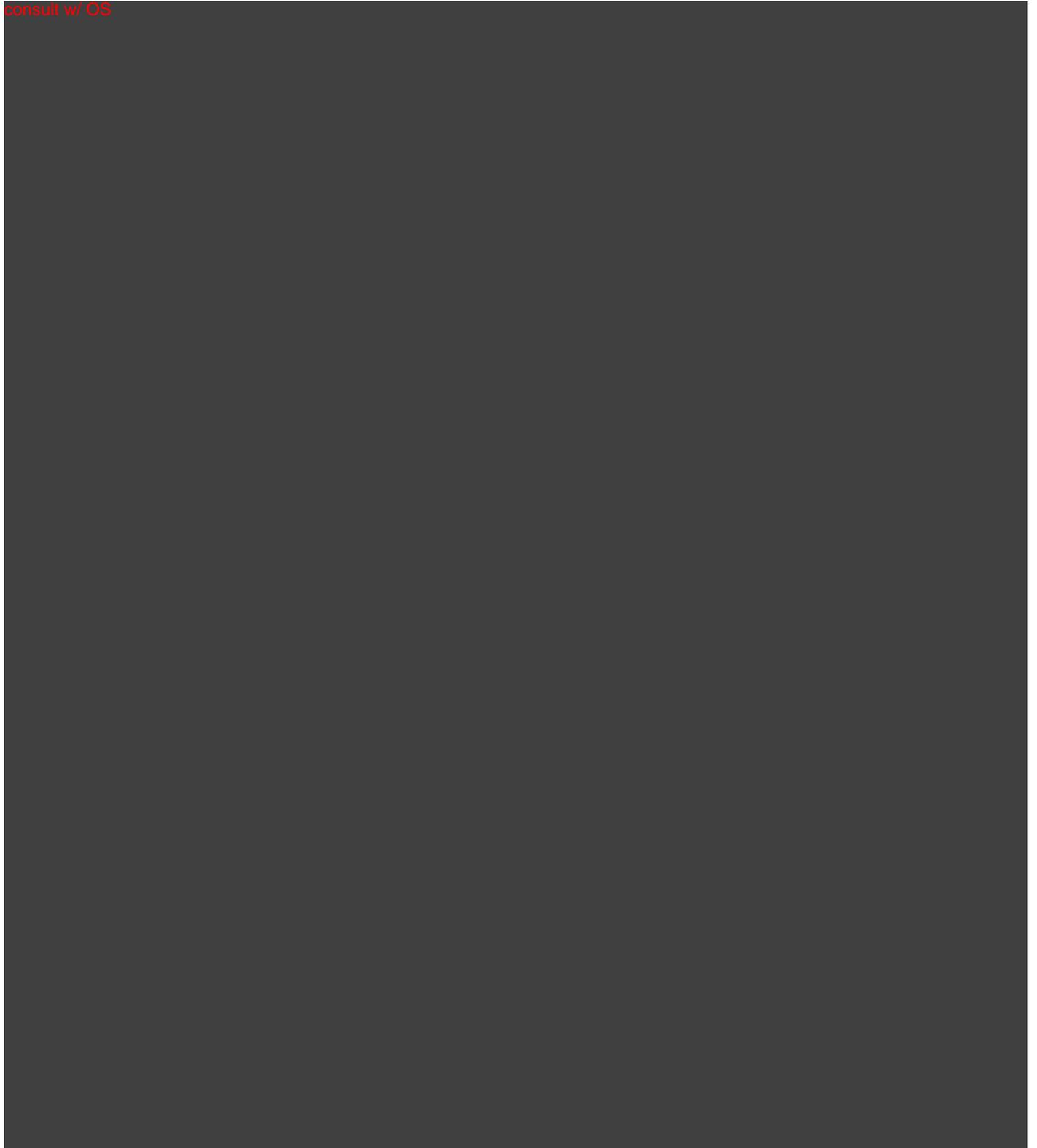
[REDACTED] Can you help? DP

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

From: **Johnson, Philip** <philip_johnson@ios.doi.gov>
Date: Fri, Feb 16, 2018 at 7:49 AM
Subject: Fwd: Air Quality and Visual & Noise whitepapers
To: Herbert Frost <bert_frost@nps.gov>, Greg Siekaniec <greg_siekaniec@fws.gov>, Karen Mouritsen <kmourits@blm.gov>

Cc: "Cooper, Debora" <Debora_Cooper@nps.gov>, Brooke Merrell
<Brooke_Merrell@nps.gov>, Mary Colligan <mary_colligan@fws.gov>, Melissa
Burns <melissa_burns@fws.gov>, Ted Murphy <t75murph@blm.gov>, Serena
Sweet <ssweet@blm.gov>, Grace Cochon <grace_cochon@ios.doi.gov>

consult w/ OS



consult w/ OS



--

Mary Colligan
Assistant Regional Director
Fisheries and Ecological Services
U.S. Fish and Wildlife Service, Alaska Region
1011 E. Tudor Road, MS-361
Anchorage, AK 99503
907-786-3505
cell: 907-223-5945

--

Mary Colligan

0000009722

Assistant Regional Director
Fisheries and Ecological Services
U.S. Fish and Wildlife Service, Alaska Region
1011 E. Tudor Road, MS-361
Anchorage, AK 99503
907-786-3505
cell: 907-223-5945

To: Colligan, Mary[mary_colligan@fws.gov]
Cc: Wendy Loya[wendy_loya@fws.gov]; Mitch Ellis[mitch_ellis@fws.gov]; Sara Boario[sara_boario@fws.gov]; Eric Taylor[eric_taylor@fws.gov]; Drew Crane[drew_crane@fws.gov]; John Trawicki[john_trawicki@fws.gov]
From: Socheata Lor
Sent: 2018-06-16T11:59:50-04:00
Importance: Normal
Subject: Re: 2 questions on Scoping Comments edits!
Received: 2018-06-16T11:59:56-04:00

Thank you for jogging my memory on this Mary. I forwarded the email you forwarded to John T and Stephanie to help clarifying and make sure we're comfortable with the language in our comments. Stephanie worked with Melissa on the docs back in Feb. for Wackowski's briefing.

Sent from my iPhone

On Jun 15, 2018, at 8:05 PM, Colligan, Mary <mary_colligan@fws.gov> wrote:

Sorry for the delay. I had b6 [REDACTED]
[REDACTED]

Here is the language I questioned in our scoping comments:

b5 - DP [REDACTED]
[REDACTED]

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

[REDACTED]
[REDACTED]

b5 - DP

Hopefully that provides some context for my question.

On Fri, Jun 15, 2018 at 4:13 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Let's wait for clarification from Mary...

I interpreted Mary's comment b5 - DP

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Mitch Ellis [mailto:mitch_ellis@fws.gov]

Sent: Friday, June 15, 2018 3:59 PM

To: Socheata Lor <socheata_lor@fws.gov>

Cc: Wendy Loya <wendy_loya@fws.gov>; Sara Boario <sara_boario@fws.gov>; Eric Taylor <eric_taylor@fws.gov>; Mary Colligan <mary_colligan@fws.gov>; Drew Crane <drew_crane@fws.gov>; John Trawicki <john_trawicki@fws.gov>

Subject: Re: 2 questions on Scoping Comments edits!

On #2, not sure exactly b5 - DP

Sent from my iPhone

On Jun 15, 2018, at 7:50 PM, Socheata Lor <socheata_lor@fws.gov> wrote:

Wendy,

On #1: we should not include and remove references to it.

#2: b5 - DP

Soch

Sent from my iPhone

On Jun 15, 2018, at 2:56 PM, Wendy Loya
<wendy_loya@fws.gov> wrote:

Hi ARDs,

To follow up, there are enough comments here that I will not try to get it done today.

2 Comments I need input on are:

- 1) **ALL:** The Rapid-Response Resource Assessments were completed in February 2016 and have been previously shared with BLM, via email. We did not send them through surnaming. They are useful, but they should not be considered complete or entirely accurate (given our lack of experience with oil and gas when written in Jan-Feb 2018). I would suggest we do not want them to be published with in the Public Scoping Report, nor to be a go-to public document. For that reason, I suggest we remove reference from this letter. Thoughts:
- 2) **SOCH and MARY:** The comment from Mary under Air Quality referring to the interagency MOU on air quality and possible discussion by Steve Wackowski. Is this something

that has been rescinded and would alter the content of our comment here?

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Boario, Sara [mailto:sara_boario@fws.gov]

Sent: Friday, June 15, 2018 2:18 PM

To: Taylor, Eric <eric_taylor@fws.gov>

Cc: Wendy Loya <wendy_loya@fws.gov>; Socheata Lor <socheata_lor@fws.gov>;

Mary Colligan <mary_colligan@fws.gov>; Crane, Drew

<drew_crane@fws.gov>; John Trawicki

<john_trawicki@fws.gov>; Mitch Ellis

<mitch_ellis@fws.gov>

Subject: Re: Note to Reviewer: Scoping Comments for Coastal Plain Leasing EIS

Wendy -

Eric caught a few of the typos I was going to flag, and I'm fine with deferring on substance to Mary, Soch and Eric. I read it all, looks good.

thank you!

sb

On Fri, Jun 15, 2018 at 2:09 PM, Taylor, Eric <eric_taylor@fws.gov> wrote:

Hi Wendy -

Attached are my edits overlaid on Mary's review.
Please let me know if you have any questions.

Eric

Eric J. Taylor

Chief, Division of Migratory Bird Management

U.S. Fish and Wildlife Service

1011 E. Tudor Road, MS 201

Anchorage, Alaska 99503-6199

907.786.3446 (office)

907.903.7210 (cell)

eric_taylor@fws.gov

On Wed, Jun 13, 2018 at 2:32 PM, Wendy Loya
<wendy_loya@fws.gov> wrote:

Hi ARDs on Arctic Refuge Coastal Plain team,

Given the short timeline for turnaround, I would like to ask for concurrent review of the attached FWS Scoping comments for the Coastal Plain Leasing EIS. If you have edits, please return them to me and I will collate those. The comments are due from Greg to

0000009728

BLM next Wednesday June 19th, so if I can get your comments by COB Friday, that would be great. Looking for significant missing issues.

I am working from Fairbanks this week and next, call me on my cell at 227-2942 if you have questions.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Wendy Loya [mailto:wendy_loya@fws.gov]

Sent: Tuesday, June 12, 2018 1:25 PM

To: Socheata Lor <socheata_lor@fws.gov>

Cc: Mitch Ellis <mitch_ellis@fws.gov>

Subject: Note to Reviewer: Scoping Comments for Coastal Plain Leasing EIS

Importance: High

Hi Soch,

Attached is the Note to Reviewer, FWS Scoping Comments for the Coastal Plain EIS and a copy of Attachment 2: RR Resource Assessment and Literature Review for your review and signature. Since Toni is out, please help me keep

0000009729

this moving so we can meet the June 19th deadline.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

--

Sara D. Boario

Assistant Regional Director-External Affairs

U.S. Fish and Wildlife Service, Alaska Region

Anchorage, Alaska

907-786-3431

<image001.png> <image002.jpg>

<FWS Scoping Comments Coastal Plain EIS 061218
MAC_ejt.docx>

--

Mary Colligan
Assistant Regional Director
Fisheries and Ecological Services
U.S. Fish and Wildlife Service, Alaska Region
1011 E. Tudor Road, MS-361
Anchorage, AK 99503
907-786-3505
cell: 907-223-5945

To: Wendy Loya[wendy_loya@fws.gov]
From: Colligan, Mary
Sent: 2018-06-17T18:24:57-04:00
Importance: Normal
Subject: talking points for Greg
Received: 2018-06-17T18:25:02-04:00
[talking points for greg for EIS Alternatives in-house wkshop.docx](#)

Wendy I assume for the pre brief for Greg tomorrow he will want to run through the agenda for next week. You didn't send that yet did you? Just wanted to make sure I did not miss it since I was not on the original invite for the workshop.

Karen asked for some talking points for Greg. I put together the attached few points. Please take a look and let me know what you think.

Thanks

--

Mary Colligan
Assistant Regional Director
Fisheries and Ecological Services
U.S. Fish and Wildlife Service, Alaska Region
1011 E. Tudor Road, MS-361
Anchorage, AK 99503
907-786-3505
cell: 907-223-5945

To: Mary Colligan[mary_colligan@fws.gov]
From: Wendy Loya
Sent: 2018-06-17T18:41:56-04:00
Importance: Normal
Subject: RE: talking points for Greg
Received: 2018-06-17T18:42:00-04:00
AGENDA FWS Internal Alternatives Wkshp Coastal Plain Leasing EIS 061519.docx

Hi Mary,

I am attaching the draft agenda, I am pretty sure it is final. I will send it and the handouts to all participants this evening after finishing with the formatting for our stips/bmps table.

I think Karen's talking points are a good start. I'll put my thinking hat on about these later this evening so we can have a good, efficient conversation tomorrow 😊

Draft Seismic EA will be coming out to ARDs first thing tomorrow, it is looking good (enough).

Thanks,

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Colligan, Mary [mailto:mary_colligan@fws.gov]
Sent: Sunday, June 17, 2018 2:25 PM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: talking points for Greg

Wendy - I assume for the pre-brief for Greg tomorrow he will want to run through the agenda for next week. You didn't send that yet did you? Just wanted to make sure I did not miss it since I was not on the original invite for the workshop.

Karen asked for some talking points for Greg. I put together the attached few points. Please take a look and let me know what you think.

Thanks

--

Mary Colligan
Assistant Regional Director
Fisheries and Ecological Services
U.S. Fish and Wildlife Service, Alaska Region
1011 E. Tudor Road, MS-361
Anchorage, AK 99503

907-786-3505
cell: 907-223-5945

To: Wendy Loya[wendy_loya@fws.gov]
From: Mary Colligan
Sent: 2018-06-17T19:31:52-04:00
Importance: Normal
Subject: Re: talking points for Greg
Received: 2018-06-17T19:31:54-04:00

Got it-just wanted to make sure I did not miss any Karen sent
Thanks

Sent from my iPhone

On Jun 17, 2018, at 3:29 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Sorry, I misread your email. They were your talking points, that Karen requested.

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Mary Colligan [mailto:mary_colligan@fws.gov]
Sent: Sunday, June 17, 2018 3:22 PM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: Re: talking points for Greg

Thanks Wendy. I am a bit confused-did Karen send talking points?

Sent from my iPhone

On Jun 17, 2018, at 2:41 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Mary,

I am attaching the draft agenda, I am pretty sure it is final. I will send it and the handouts to all participants this evening after finishing with the formatting for our stips/bmps table.

I think Karen's talking points are a good start. I'll put my thinking hat on about these later this evening so we can have a good, efficient conversation tomorrow 😊

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Thanks,

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Colligan, Mary [mailto:mary_colligan@fws.gov]

Sent: Sunday, June 17, 2018 2:25 PM

To: Wendy Loya <wendy_loya@fws.gov>

Subject: talking points for Greg

Wendy - I assume for the pre-brief for Greg tomorrow he will want to run through the agenda for next week. You didn't send that yet did you? Just wanted to make sure I did not miss it since I was not on the original invite for the workshop.

Karen asked for some talking points for Greg. I put together the attached few points. Please take a look and let me know what you think.

Thanks

--

Mary Colligan
Assistant Regional Director
Fisheries and Ecological Services
U.S. Fish and Wildlife Service, Alaska Region
1011 E. Tudor Road, MS-361
Anchorage, AK 99503
907-786-3505
cell: 907-223-5945

<AGENDA FWS Internal Alternatives Wkshp Coastal Plain Leasing
EIS 061519.docx>

To: Wendy Loya[wendy_loya@fws.gov]
From: Johnson, Carl
Sent: 2018-06-18T11:52:45-04:00
Importance: Normal
Subject: Re: Agenda for FWS Workshop on Alternatives for Coastal Plain Leasing EIS/Seismic EA 6/19-20
Received: 2018-06-18T11:52:51-04:00

Wendy,
I wish I could make it, but I will be out of the state and unable to participate via phone.

Carl

Carl Johnson, J.D.
Supervisory Program Analyst
Office of Subsistence Management
1011 E. Tudor Road,
Anchorage, AK 99503
(907) 786-3676

Like us on [Facebook!](#)

On Sun, Jun 17, 2018 at 5:18 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Dear FWS “1002” team,

Attached is the agenda for the FWS Internal Alternatives Workshop for the Arctic Refuge Coastal Plain Leasing EIS. I am excited to have so many of our staff experts join us in Fairbanks; we will meet in the Refuges Conference room on the 2nd floor of the Fairbanks Field Office/Federal Building downtown. Greg Siekaniec will be opening the workshop at 8:30am on Tuesday, and we hope to be done by 4:30pm both days. We are happy to have Meghan Holtan from Agnew Beck as our facilitator.

The workshop will focus on the spatial component of developing alternatives for the Arctic Refuge Coastal Plain, including availability of lands for leasing and stipulations/best management practices (BMPs) that would protect sensitive resources. There are many BMPs that are used to protect resources that we won't have time to discuss as a group, but which we will solicit feedback on between June 21-July 6th, prior to the BLM Alternatives workshop. You can see all of the NPRA Stipulations and BMPs in the attached excel workbook which organizes the NPRA Final IAP/EIS Table 2.3 by the topics. I will have copies on hand at the workshop.

FYI, we will join the BLM/EMPSi-hosted “Coastal Plain Leasing EIS Affected Environment Kick-off” on Weds at 10am.

A few logistical notes:

Please take the elevator when you come in the North side main entrance and go to 2nd floor. You will get locked in stairwells unless your PIV card is active for the Fairbanks Field Office building.

A few who can't attend can connect via Vidyo and phone, see the agenda for connection info.

I have made a reservation for the group to go to dinner at Chena Pump House Tuesday evening at 6pm. We will have plenty of vehicles to shuttle those that don't have transportation.

If you have indicated you are not able to attend... don't fret, we'll continue to gather information and feedback until the BLM-hosted workshop on July 9th.

Thank you, and see you soon! Don't hesitate to contact me with any questions,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

To: Mary Colligan[mary_colligan@fws.gov]
From: Wendy Loya
Sent: 2018-06-18T15:25:05-04:00
Importance: Normal
Subject: talking points for greg for EIS Alternatives in-house wkshop_wendy.docx
Received: 2018-06-18T15:25:13-04:00
talking points for greg for EIS Alternatives in-house wkshop_wendy.docx

Added the current status of our two documents under the first point

Thanks for pulling these together!
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

To: Karen Murphy[karen_a_murphy@fws.gov]
From: Wendy Loya
Sent: 2018-06-18T18:26:30-04:00
Importance: Normal
Subject: RE: important data mgmt idea
Received: 2018-06-18T18:26:37-04:00

b5 - DP

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Murphy, Karen [mailto:karen_a_murphy@fws.gov]
Sent: Monday, June 18, 2018 2:13 PM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: Re: important data mgmt idea

The only downfall that I see to your suggestion is that we need this \$150K to be spent on a project that we can point to as part of the \$600K contribution to the 1002 science needs. b5 - DP
Right now, SA has put \$310 towards projects so we need this and the snow study to go through to meet our \$600K obligation.

b5 - DP

When you get done with this week's workshop, perhaps we can talk about SSP/QRP ideas and see if there is something that we could fund with USGS that could replace this effort from the standpoint of our \$600K contribution. Then we can explore the space trade-off idea too.

Karen

Karen A Murphy

Science Applications
907-786-3501
karen_a_murphy@fws.gov

On Mon, Jun 18, 2018 at 1:52 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

65 - DP

65 - DP

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

To: Wendy Loya[wendy_loya@fws.gov]
From: Bud Cribley
Sent: 2018-06-18T20:51:09-04:00
Importance: Normal
Subject: Re: Updated Webinar info: FWS Workshop on Alternatives for Coastal Plain Leasing EIS/Seismic EA 6/19-20
Received: 2018-06-18T20:51:11-04:00

??

Sent from my iPad

On Jun 18, 2018, at 7:55 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

NEW Webinar info if you are joining remotely (we cannot use Vidyo with ArcGIS Pro). If you don't have MyMeetings software downloaded, look for the link to RUN A TEMPORARY APPLICATION. That typically works just as well.

1. Join the meeting:

b5 - CIP [REDACTED]

- 2. Enter the required fields.**
- 3. Indicate that you have read the Privacy Policy.**
- 4. Click on Proceed.**

Same phone: b5 - CIP [REDACTED]

And the countdown is on....
See you tomorrow,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Wendy Loya [mailto:wendy_loya@fws.gov]

Sent: Sunday, June 17, 2018 5:19 PM

To: Paul Leonard <paul_leonard@fws.gov>; John Trawicki <john_trawicki@fws.gov>; Randy Brown <randy_j_brown@fws.gov>; Doug Damberg <doug_damberg@fws.gov>; Jennifer Reed <jennifer_reed@fws.gov>; Joanna Fox <joanna_fox@fws.gov>; Hollis Twitchell <hollis_twitchell@fws.gov>; Drew Crane <drew_crane@fws.gov>; Lynnda Kahn <lynnda_kahn@fws.gov>; Angela Matz <angela_matz@fws.gov>; Christopher Latty <christopher_latty@fws.gov>; Patrick O'Dell <patrick_odell@fws.gov>; Carl Johnson <carl_johnson@fws.gov>; Mitch Ellis <mitch_ellis@fws.gov>; Stephen Arthur

<stephen_arthur@fws.gov>; Steve Berendzen <steve_berendzen@fws.gov>; Joshua Ream <joshua_ream@fws.gov>; Eric Taylor <eric_taylor@fws.gov>; Catherine Collins <catherine_collins@fws.gov>; Socheata Lor <socheata_lor@fws.gov>; Roger Kaye <roger_kaye@fws.gov>; Edward Decleva <edward_decleva@fws.gov>; Tim Allen <tim_allen@fws.gov>; Ryan Wilson <ryan_r_wilson@fws.gov>; Joshua Rose <joshua_rose@fws.gov>; Christopher Putnam <christopher_putnam@fws.gov>; Kevin Doherty <kevin_doherty@fws.gov>; Todd Hopkins <todd_hopkins@fws.gov>; Tracy Fischbach <tracy_fischbach@fws.gov>; Karen Clark <karen_clark@fws.gov>; Greg Siekaniec <greg_siekaniec@fws.gov>; Bud Cribley (bud_cribley@fws.gov) <bud_cribley@fws.gov>; 'Agnew Beck' <meghan@agnewbeck.com>; Sara Boario <sara_boario@fws.gov>; Mary Colligan <mary_colligan@fws.gov>

Subject: Agenda for FWS Workshop on Alternatives for Coastal Plain Leasing EIS/Seismic EA 6/19-20

Dear FWS "1002" team,

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If you have indicated you are not able to attend... don't fret, we'll continue to gather information and feedback until the BLM-hosted workshop on July 9th.

Thank you, and see you soon! Don't hesitate to contact me with any questions,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

To: Joshua Rose[joshua_rose@fws.gov]; Loya, Wendy[wendy_loya@fws.gov]
Cc: Reed, Jennifer[jennifer_reed@fws.gov]; Joanna Fox[joanna_fox@fws.gov]
From: Berendzen, Steve
Sent: 2018-06-18T21:06:18-04:00
Importance: Normal
Subject: Fwd: WSR section
Received: 2018-06-18T21:06:20-04:00
2018-6-18 SuggEditsWild and Scenic Rivers.docx

Josh,

Jen added a couple additional sentences to better clarify our management of Wild and Scenic Rivers portion for the Affected Environment. In the attachment.

Steve Berendzen
Refuge Manager, Arctic National Wildlife Refuge
907 456 0253

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

From: **Reed, Jennifer** <jennifer_reed@fws.gov>
Date: Mon, Jun 18, 2018 at 3:39 PM
Subject: Re: WSR section
To: "Berendzen, Steve" <steve_berendzen@fws.gov>

I hope the attached doc captures what you're seeking. Let me know if you need more.

Jennifer J. Reed

Arctic National Wildlife Refuge Public Use Manager

101 12th Ave, Rm 236
Fairbanks, AK 99701
Telephone: (907) 455 1835
Fax: (907) 456 0428

Interagency Visitor Use Management Council USFWS Representative

Interagency Wild & Scenic River Coordinating Council USFWS Representative

Make Your Splash!

NOTE: This email correspondence and any attachments to and from this sender is subject to the Freedom of Information Act (FOIA) and may be disclosed to third parties.

On Mon, Jun 18, 2018 at 1:23 PM, Berendzen, Steve <steve_berendzen@fws.gov> wrote:

Wild and Scenic Rivers

The Wild and Scenic Rivers Act mandates protections for rivers that are designated rivers of the National Wild and Scenic River System (NWSRS), and recommended for their inclusion. A river's preliminary Classification (either Wild, Scenic, or Recreational; based on level of infrastructure) and Wild and Scenic Values (free flowing condition; water quality at time the river was found Eligible; and Outstandingly Remarkable Values (ORV) for each river segment) must be maintained. Numerous rivers bisecting the Coastal Plain were found to be Eligible during the Wild and Scenic River Review completed as part of the 2015 Revised Refuge CCP (See CCP Table 3-1. Eligible Rivers). Protections

are required once a river or river segment is found eligible, but once an eligible river is found non-suitable, there is no legal mandate to protect the values that made the river Eligible. All of the Eligible rivers studied for inclusion were found non-suitable except the Atigun, Marsh Fork-Canning, Hulahula, and Kongakut Rivers.

The recommendation for inclusion of these four rivers in the NWSRS was carried forward to Congress in 2015. Recommended rivers affected include the Hulahula River (Recreational and Cultural ORVs); and may include the Marsh Fork-Canning (if its Recreational ORV is affected by downstream exploration activities on the Canning River); and possibly the Kongakut, (since its Recreational, Scenic, and Geologic ORVs may be tied to the coastal lagoons currently mapped within the exploration area). All of the Recommended rivers were given a preliminary classification of “Wild”, meaning their condition at the time of Eligibility was free of impoundments, with shorelines or watersheds still largely primitive and waters unpolluted.

Permanent structures generally are not allowed, with the exception of historic and cultural resources and, in certain limited circumstances, subsistence or administrative cabins and associated structures. Cabins, temporary structures, and hardened sites should not be visible from the river; where this is impractical, facilities and structures are to be rustic or unobtrusive in appearance. Public use facilities would provide opportunities for low-impact, backcountry recreation experiences.

Steve Berendzen
Refuge Manager, Arctic National Wildlife Refuge
907 456 0253

To: Wendy Loya[wendy_loya@fws.gov]
From: Bud Cribley
Sent: 2018-06-19T10:01:30-04:00
Importance: Normal
Subject: Re: Updated Webinar info: FWS Workshop on Alternatives for Coastal Plain Leasing EIS/Seismic EA 6/19-20
Received: 2018-06-19T10:01:50-04:00

Thanks, I think I will just listen.

Bud

On Tue, Jun 19, 2018 at 9:57 AM Wendy Loya <wendy_loya@fws.gov> wrote:

That sounds great! I should have asked you to do the intro to NPRA that I put together as an example of what we are headed towards. Feel free to speak up on anything!
Wendy

Dr. Wendy M. Loya, Coordinator
Office of Science Applications- Arctic Program
Anchorage, Alaska
[907.786.3532](tel:907.786.3532) (office)
[907.227.2942](tel:907.227.2942) (mobile)

On Jun 19, 2018, at 05:37, Bud Cribley <bud_cribley@fws.gov> wrote:

Wendy,

I was going to listen in to at least the first portion of your workshop today. I don't have anything to say, I just want to hear the direction Greg is giving and hear the feedback. I want to try to stay on the same page as you all and not cause any problems.

If you or Greg have any thoughts or concerns let me know. I'm really regretting not at least asking the question if I could attend. It should be interesting and its Alaska.

Bud

On Mon, Jun 18, 2018 at 7:55 PM Wendy Loya <wendy_loya@fws.gov> wrote:

NEW Webinar info if you are joining remotely (we cannot use Vidyo with ArcGIS Pro). If you don't have MyMeetings software downloaded, look for the link to RUN A TEMPORARY APPLICATION. That typically works just as well.

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66 - CIP

2. Enter the required fields.
3. Indicate that you have read the Privacy Policy.
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Same phone: 65 - CIP

And the countdown is on....

See you tomorrow,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

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Sent: Sunday, June 17, 2018 5:19 PM

To: Paul Leonard <paul_leonard@fws.gov>; John Trawicki <john_trawicki@fws.gov>; Randy Brown <randy_j_brown@fws.gov>; Doug Damberg <doug_damberg@fws.gov>; Jennifer Reed <jennifer_reed@fws.gov>; Joanna Fox <joanna_fox@fws.gov>; Hollis Twitchell <hollis_twitchell@fws.gov>; Drew Crane <drew_crane@fws.gov>; Lynnda Kahn <lynnda_kahn@fws.gov>; Angela Matz <angela_matz@fws.gov>; Christopher Latty <christopher_latty@fws.gov>; Patrick O'Dell <patrick_odell@fws.gov>; Carl Johnson <carl_johnson@fws.gov>; Mitch Ellis <mitch_ellis@fws.gov>; Stephen Arthur <stephen_arthur@fws.gov>; Steve Berendzen <steve_berendzen@fws.gov>; Joshua Ream <joshua_ream@fws.gov>; Eric Taylor <eric_taylor@fws.gov>; Catherine Collins <catherine_collins@fws.gov>; Socheata Lor <socheata_lor@fws.gov>; Roger Kaye <roger_kaye@fws.gov>; Edward Decleva <edward_decleva@fws.gov>; Tim Allen <tim_allen@fws.gov>; Ryan Wilson <ryan_r_wilson@fws.gov>;

Joshua Rose <joshua_rose@fws.gov>; Christopher Putnam <christopher_putnam@fws.gov>; Kevin Doherty <kevin_doherty@fws.gov>; Todd Hopkins <todd_hopkins@fws.gov>; Tracy Fischbach <tracy_fischbach@fws.gov>; Karen Clark <karen_clark@fws.gov>; Greg Siekaniec <greg_siekaniec@fws.gov>; Bud Cribley (bud_cribley@fws.gov) <bud_cribley@fws.gov>; 'Agnew Beck' <meghan@agnewbeck.com>; Sara Boario <sara_boario@fws.gov>; Mary Colligan <mary_colligan@fws.gov>

Subject: Agenda for FWS Workshop on Alternatives for Coastal Plain Leasing EIS/Seismic EA 6/19-20

Dear FWS “1002” team,

Attached is the agenda for the FWS Internal Alternatives Workshop for the Arctic Refuge Coastal Plain Leasing EIS. I am excited to have so many of our staff experts join us in Fairbanks; we will meet in the Refuges Conference room on the 2nd floor of the Fairbanks Field Office/Federal Building downtown. Greg Siekaniec will be opening the workshop at 8:30am on Tuesday, and we hope to be done by 4:30pm both days. We are happy to have Meghan Holtan from Agnew Beck as our facilitator.

The workshop will focus on the spatial component of developing alternatives for the Arctic Refuge Coastal Plain, including availability of lands for leasing and stipulations/best management practices (BMPs) that would protect sensitive resources. There are many BMPs that are used to protect resources that we won't have time to discuss as a group, but which we will solicit feedback on between June 21-July 6th, prior to the BLM Alternatives workshop. You can see all of the NPRA Stipulations and BMPs in the attached excel workbook which organizes the NPRA Final IAP/EIS Table 2.3 by the topics. I will have copies on hand at the workshop.

FYI, we will join the BLM/EMPSi-hosted “Coastal Plain Leasing EIS Affected Environment Kick-off” on Weds at 10am.

A few logistical notes:

Please take the elevator when you come in the North side main entrance and go to

2nd floor. You will get locked in stairwells unless your PIV card is active for the Fairbanks Field Office building.

A few who can't attend can connect via Vidyo and phone, see the agenda for connection info.

I have made a reservation for the group to go to dinner at Chena Pump House Tuesday evening at 6pm. We will have plenty of vehicles to shuttle those that don't have transportation.

If you have indicated you are not able to attend... don't fret, we'll continue to gather information and feedback until the BLM-hosted workshop on July 9th.

Thank you, and see you soon! Don't hesitate to contact me with any questions,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

--

Bud C Cribley

Senior Advisor for Energy with the U.S. Fish & Wildlife Service

Office # 202-208-4331

Cell # 907-717-5141

Office # MIB 3341

email: bud_cribley@fws.gov

--

Bud C Cribley

Senior Advisor for Energy with the U.S. Fish & Wildlife Service

Office # 202-208-4331

Cell # 907-717-5141

Office # MIB 3341

email: bud_cribley@fws.gov

To: Tracy Fischbach[tracy_fischbach@fws.gov]
From: Wendy Loya
Sent: 2018-06-19T12:10:03-04:00
Importance: Normal
Subject: updated table
Received: 2018-06-19T12:10:16-04:00
[Print Version Table 2.3 Stips BMPs for FWS Workshop 061718a .xlsx](#)

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

To: Wendy Loya[Wendy_loya@fws.gov]
From: Peter Butteri
Sent: 2018-06-19T14:51:58-04:00
Importance: Normal
Subject: Fwd: Coastal Plain EIS WBS - LXSSL0120000
Received: 2018-06-19T14:52:19-04:00

BLM established a charge code for tracking EIS expenses. Is there a code I should be using for FWS?

Peter Butteri
Fire Planning Specialist
USFWS Region 7/ BLM Alaska Fire Service

(w) 907-356-5874
(c) 907 350 4782

"Planning is an unnatural process; it is much more fun to do something. The nicest thing about not planning is that failure comes as a complete surprise, rather than being preceded by a period of worry and depression." --Sir John Harvey Jones

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

From: Larson, Angelia <alarson@blm.gov>
Date: Thu, Jun 7, 2018 at 9:04 AM
Subject: Coastal Plain EIS WBS - LXSSL0120000
To: BLM_AK_ALL_EMPLOYEES <blm_ak_all_employees@blm.gov>

Hello

Consult w/ BLM [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

[REDACTED]
[REDACTED]

[REDACTED]
[REDACTED]
[REDACTED]

[REDACTED]
[REDACTED]

Consult w/ BLM

[Redacted]

--

Angie Larson | State Budget Officer

Phone: 907.271.3195 | Fax: 907.271.4596 | alarson@blm.gov

Bureau of Land Management | Alaska State Office | State Director's Office

222 West 7th Avenue #13 | Anchorage, Alaska 99513

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To: Wendy Loya[wendy_loya@fws.gov]; Leonard, Paul[paul_leonard@fws.gov]
From: Arthur, Stephen
Sent: 2018-06-19T19:22:15-04:00
Importance: Normal
Subject: PCH calving maps
Received: 2018-06-19T19:23:00-04:00
Porcupine caribou calving individual years 1983-2006 final.ppt

Here's a figure showing the annual variation.

Stephen M. Arthur, Ph.D.

*Supervisory Wildlife Biologist
Arctic National Wildlife Refuge
101 12th Ave., Room 236
Fairbanks, AK 99701
(907)455-1830*

To: Todd Hopkins[todd_hopkins@fws.gov]; Wendy Loya[wendy_loya@fws.gov]
From: Trawicki, John
Sent: 2018-06-20T17:05:40-04:00
Importance: Normal
Subject: Fwd: EIS Scoping Letter to Zinke from Defenders of Wildlife dated 19 Jun 2018
Received: 2018-06-20T17:06:30-04:00
DOW Letter to Zinke Coastal Plain EIS Scoping 19Jun2018.pdf

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

From: **Martin, John** <john_w_martin@fws.gov>
Date: Wed, Jun 20, 2018 at 11:03 AM
Subject: EIS Scoping Letter to Zinke from Defenders of Wildlife dated 19 Jun 2018
To: Stephanie Brady <stephanie_brady@fws.gov>, Tracy Fischbach
<tracy_fischbach@fws.gov>, John Trawicki <john_trawicki@fws.gov>
Cc: Nicole Gustine <nicole_gustine@fws.gov>

FYI - worth the read with points to ponder.

Obtained from the Alaska Office website - publically accessible at -

<https://newsroom.defenders.org/defenders-condemns-reckless-push-for-arctic-national-wildlife-refuge-drilling>

--

John Trawicki
Water Resources Branch Chief
National Wildlife Refuge System, Alaska
U.S. Fish and Wildlife Service
1011 E. Tudor Road
Anchorage, AK 99503
Work: (907) 786-3474
Mobile: (907) 360-1656

"The single biggest problem with communication is the illusion that it has taken place"
George Bernard Shaw

To: Wendy Loya[wendy_loya@fws.gov]
From: Allen, Tim
Sent: 2018-06-20T17:50:49-04:00
Importance: Normal
Subject: Re: Attendance at the Coastal Plain Oil and Gas Leasing Program EIS: Affected Environment Kick-off June 20 2018
Received: 2018-06-20T17:50:51-04:00

We just joined. Called into the wrong number.. Thanks for sending the number.

On Wed, Jun 20, 2018 at 3:44 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

We are on but can't find you...

b5 - CIP

Am I doing something wrong?

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Allen, Tim [mailto:tim_allen@fws.gov]
Sent: Wednesday, June 20, 2018 1:37 PM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: Re: Attendance at the Coastal Plain Oil and Gas Leasing Program EIS: Affected Environment Kick-off June 20 2018

Thank you !!!

0000009757

Both of us are on.

On Wed, Jun 20, 2018 at 3:33 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Are you two joining the call now for the AQ section?

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Collins, Catherine [mailto:catherine_collins@fws.gov]

Sent: Wednesday, June 20, 2018 10:13 AM

To: Wendy Loya <wendy_loya@fws.gov>

Subject: Attendance at the Coastal Plain Oil and Gas Leasing Program EIS: Affected Environment Kick-off June 20 2018

Hi Wendy,

Tim Allen and I both were on the call today.

Please let me know if you need anything else.

Catherine Collins, Environmental Engineer

U.S. Fish and Wildlife Service

Branch of Air and Water Quality Resources

0000009758

7333 W. Jefferson Ave., Suite 375

Lakewood, CO 80235-2034

303-914-3807

(303) 969-5444 fax

Catherine_Collins@fws.gov

--

Tim Allen

U.S. Fish & Wildlife Service

(303) 914 3802

--

Tim Allen

U.S. Fish & Wildlife Service

(303) 914 3802

To: Joseph Keeney[jkeeney@blm.gov]
Cc: Wendy Loya[wendy_loya@fws.gov]; Fox, Joanna[joanna_fox@fws.gov];
mnhayes@blm.gov[mnhayes@blm.gov]; dwixon@blm.gov[dwixon@blm.gov];
slamarr@blm.gov[slamarr@blm.gov]
From: Edward Decleva
Sent: 2018-06-21T11:15:28-04:00
Importance: Normal
Subject: Re: Marsh Creek 3D Environmental Assessment (1002 Area)
Received: 2018-06-21T11:15:49-04:00

Hi Joe,

Consult w/ BLM - chain part of ongoing consult.



Best regards, Ed

Edward J. DeCleva
Regional Historic Preservation Officer
U.S. Fish and Wildlife Service, Alaska Region
1011 E Tudor Rd, MS-235
Anchorage, AK 99503

edward_decleva@fws.gov
907-786-3399

On Fri, Jun 1, 2018 at 2:58 PM Keeney, Joseph <jkeeney@blm.gov> wrote:

part of ongoing consult w/ BLM



0000009760

part of ongoing consult w/ BLM



On Fri, Jun 1, 2018 at 10:23 AM, Edward Decleva <edward_decleva@fws.gov> wrote:

Hi Joe,

part of ongoing consult w/ BLM



Edward J. DeCleva
Regional Historic Preservation Officer
U.S. Fish and Wildlife Service, Alaska Region
[1011 E Tudor Rd, MS-235](#)
Anchorage, AK 99503

edward_decleva@fws.gov
907-786-3399

On Thu, May 31, 2018 at 2:44 PM Keeney, Joseph <jkeeney@blm.gov> wrote:

part of ongoing consult w/ BLM



part of ongoing consult w/ BLM



Best,
Joe

--

Joe Keeney
Archaeologist
BLM Arctic District Office
222 University Avenue
Fairbanks, Alaska 99709
907 474 2312
jkeeney@blm.gov

--

Joe Keeney
Archaeologist
BLM Arctic District Office
222 University Avenue
Fairbanks, Alaska 99709
907 474 2312
jkeeney@blm.gov

To: Wendy Loya[wendy_loya@fws.gov]
Cc: Mitch Ellis[mitch_ellis@fws.gov]; Eric Taylor[eric_taylor@fws.gov]; Sara Boario[sara_boario@fws.gov]
From: Colligan, Mary
Sent: 2018-06-21T13:33:41-04:00
Importance: Normal
Subject: Re: Note to Reviewer: Coastal Plain Seismic EA Draft Affected Environment Chapter and Specialist Reports
Received: 2018-06-21T13:33:53-04:00
[DRAFT Seismic EA Chapter 3 Existing Condition 06182018 MAC\(1\).docx](#)

I have attached my comments and suggested edits. I don't know if others have already completed their reviews or if they want to add to this. I have the note to reviewer so can sign that and note I submitted comments electronically.

If others let me know where they are in their review I can move the note to reviewer accordingly.

Thanks

On Mon, Jun 18, 2018 at 4:10 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Mary, Mitch, Eric and Sara,

Attached is a draft of the Coastal Plain Seismic EA Draft Affected Environment Chapter and Specialist Reports requested by BLM Arctic Field Office in anticipation of a seismic application from SAE.

It was agreed that this would go out for concurrent review to all ARDs in order to meet the rapid timeline. The desired date to BLM was set as 6/22 so that BLM Arctic Field office staff can use it as a basis to start identifying issue and environmental consequences. However, FWS has not been notified by BLM that a complete application for a seismic permit has been submitted, **b5 - DP**
I will check in on Thursday afternoon to get your feedback on timeline.

I will send the original note to reviewers down to Anchorage with Mary this week.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

--

Mary Colligan

Assistant Regional Director

Fisheries and Ecological Services

U.S. Fish and Wildlife Service, Alaska Region

1011 E. Tudor Road, MS-361

Anchorage, AK 99503

907-786-3505

cell: 907-223-5945

To: Wendy Loya[wendy_loya@fws.gov]
Cc: Mary Colligan[mary_colligan@fws.gov]; Eric Taylor[eric_taylor@fws.gov]; Sara Boario[sara_boario@fws.gov]
From: Mitch Ellis
Sent: 2018-06-21T14:58:43-04:00
Importance: Normal
Subject: Re: Note to Reviewer: Coastal Plain Seismic EA Draft Affected Environment Chapter and Specialist Reports
Received: 2018-06-21T14:58:53-04:00

Wendy - I will do my best to review it this evening. Thanks.

Sent from my iPhone

On Jun 21, 2018, at 2:15 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Mitch and others,
SAE is moving forward today with their application to BLM. We also had a kickoff for the Draft affected environment for the Leasing EIS yesterday and FWS will soon be inundated with requests for information to meet the very short deadline for those chapters. We could greatly minimize duplicative effort if we get this to BLM 'immediately.' We really need to move this forward this week and allow staff and the RDT to focus on the Alternatives next week. As well as QRP/SSP proposals coming your way Monday.

Thank you, it is only getting busier.
Wendy
Dr. Wendy M. Loya, Coordinator
Office of Science Applications- Arctic Program
Anchorage, Alaska
[907.786.3532](tel:907.786.3532) (office)
[907.227.2942](tel:907.227.2942) (mobile)

On Jun 21, 2018, at 10:05, Mitch Ellis <mitch_ellis@fws.gov> wrote:

Wendy - would it be possible to push our internal review deadline to early next week? I won't have time to do a thorough review this week.

Sent from my iPhone

On Jun 18, 2018, at 8:10 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Mary, Mitch, Eric and Sara,

Attached is a draft of the Coastal Plain Seismic EA Draft Affected Environment Chapter and Specialist Reports requested by BLM Arctic Field Office in anticipation of a seismic application from SAE.

It was agreed that this would go out for concurrent review to all ARDs in order to meet the rapid timeline. The desired date to BLM was set as 6/22 so that BLM Arctic Field office staff can use it as a basis to start identifying issue and environmental consequences. However, FWS has not been notified by BLM that a complete application for a seismic permit has been submitted, **b5 - DP**

[REDACTED] I will check in on Thursday afternoon to get your feedback on timeline.

I will send the original note to reviewers down to Anchorage with Mary this week.

Thank you,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

<DRAFT_Seismic_EA_Chapter_3_Existing_Condition_06182018.docx>

<Notice_to_Reviewers_Seismic_EA_Chapter_3_Existing_Conditions_06182018.pdf>

To: Sara Boario[sara_boario@fws.gov]
From: Wendy Loya
Sent: 2018-06-21T18:43:46-04:00
Importance: High
Subject: Draft of Seismic EA Affected environment?
Received: 2018-06-21T18:43:53-04:00

Hi Sara,

Karen C mentioned you are out of the office for training, and I should check with you on your plan for review of the Draft Affected Environment section for the Seismic EA. I need that by COB Friday at latest so I can do edits Friday night and get to Karen and Greg Saturday morning. Thank you,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

To: Steve Berendzen[steve_berendzen@fws.gov]; Joanna Fox[joanna_fox@fws.gov]; John Trawicki[john_trawicki@fws.gov]; Drew Crane[drew_crane@fws.gov]; Sarah Conn[sarah_conn@fws.gov]; Joshua Rose[joshua_rose@fws.gov]
From: Wendy Loya
Sent: 2018-06-21T18:53:05-04:00
Importance: Normal
Subject: FW: Plan of Approvals for 1002 Documents and Information
Received: 2018-06-21T18:53:13-04:00
[Draft Plan of Approvals for 1002 Documents and Information 06072018 Final.docx](#)

Dear POCs for Arctic Refuge Coastal Plain program;

Attached is the current plan for internal approvals. I think you all are aware that all outgoing documents compiling information for BLM must go through surnaming, like our draft EA section, anything we share at the Alternatives workshop, etc. I will ensure we have a pre-planned timeline for how FWS will handle the 2 week review period for the Draft EIS. This version includes new language to describe how the official positions on matters related to the 1002 area will come from RD/DRD and that HQ External Affairs will handle all media requests.

Let me or your ARD know if you have any questions,

Thank you,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Clark, Karen [mailto:karen_clark@fws.gov]
Sent: Thursday, June 21, 2018 2:11 PM
To: Wendy Loya <wendy_loya@fws.gov>; Mitch Ellis <Mitch_Ellis@fws.gov>; Colligan, Mary <mary_colligan@fws.gov>; Boario, Sara <sara_boario@fws.gov>; Steve Berendzen <steve_berendzen@fws.gov>
Cc: Greg Siekaniec <greg_siekaniec@fws.gov>
Subject: Plan of Approvals for 1002 Documents and Information

Hi Everyone!

This is the latest and greatest plan for approvals of 1002 documents and information. Please let me know if you have any questions.

Thanks, Karen

Karen P. Clark
Deputy Regional Director
U.S. Fish & Wildlife Service- Alaska Region

1011 E Tudor Rd, MS 374
Anchorage, AK 99503
karen_clark@fws.gov
907.786.3542 office
907.786.3493 direct
907.786.3306 fax

To: Reed, Jennifer[jennifer_reed@fws.gov]
Cc: Fischbach, Tracy[tracy_fischbach@fws.gov]; Joanna Fox[joanna_fox@fws.gov]; Steve Berendzen[steve_berendzen@fws.gov]; Wendy Loya[wendy_loya@fws.gov]
From: Goodwin, Randy
Sent: 2018-06-21T20:06:06-04:00
Importance: Normal
Subject: Re: EIS recreation contact
Received: 2018-06-21T20:06:13-04:00

I still haven't had any requests for info for the Seismic EA and the EIS kick off just happened so maybe we're good for now.

On Thu, Jun 21, 2018 at 4:03 PM, Reed, Jennifer <jennifer_reed@fws.gov> wrote:

Hi Randy,
Thanks for reaching out and letting me know your ANC-based phone number.

eMy calendar reminds me we had identified June 25 as a possible date to re-connect in the event a need arises for BLM's EIS work on recreation. I'd like to suggest we postpone because I've had a schedule change and will be unavailable most of the time June 25-June 29.

That said, if there is a need, of course I'll prioritize meeting with you!

Please advise.

Jen

Jennifer J. Reed

Arctic National Wildlife Refuge Public Use Manager

101 12th Ave, Rm 236

Fairbanks, AK 99701

Telephone: (907) 455 1835

Fax: (907) 456 0428

Interagency Visitor Use Management Council USFWS Representative

Interagency Wild & Scenic River Coordinating Council USFWS Representative

Make Your Splash!

NOTE: This email correspondence and any attachments to and from this sender is subject to the Freedom of Information Act (FOIA) and may be disclosed to third parties.

On Thu, Jun 21, 2018 at 8:41 AM, Goodwin, Randy <rgoodwin@blm.gov> wrote:

Hi Jennifer
Just wanted to let you know that I'm in Anchorage now at 907-271-3386 if we need to talk about the EIS recreation section.

Randy

--

Randy Goodwin

0000009770

Bureau of Land Management
Travel Management and Transportation Planning
Acting State Lead for Recreation and Nat'l Landscape Conservation System
Alaska State Office Renewable Resources Branch
(907) 271 3386

--

Randy Goodwin
Bureau of Land Management
Travel Management and Transportation Planning
Acting State Lead for Recreation and Nat'l Landscape Conservation System
Alaska State Office Renewable Resources Branch
(907) 271 3386

To: Mitch Ellis[mitch_ellis@fws.gov]
From: Wendy Loya
Sent: 2018-06-21T22:09:22-04:00
Importance: Normal
Subject: Re: Note to Reviewer: Coastal Plain Seismic EA Draft Affected Environment Chapter and Specialist Reports
Received: 2018-06-21T22:09:30-04:00

Thank you.

Dr. Wendy M. Loya, Coordinator
Office of Science Applications- Arctic Program
Anchorage, Alaska
907.786.3532 (office)
907.227.2942 (mobile)

On Jun 21, 2018, at 18:05, Mitch Ellis <mitch_ellis@fws.gov> wrote:

Wendy - [REDACTED]. There are a few typos including words that are capitalized that probably shouldn't be but I think Mary caught most of them. I didn't get a chance to look at the specialist reports. [REDACTED]. Thanks

Sent from my iPhone

On Jun 21, 2018, at 2:15 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Mitch and others,
SAE is moving forward today with their application to BLM. We also had a kickoff for the Draft affected environment for the Leasing EIS yesterday and FWS will soon be inundated with requests for information to meet the very short deadline for those chapters. We could greatly minimize duplicative effort if we get this to BLM 'immediately.' We really need to move this forward this week and allow staff and the RDT to focus on the Alternatives next week. As well as QRP/SSP proposals coming your way Monday.

Thank you, it is only getting busier.
Wendy
Dr. Wendy M. Loya, Coordinator
Office of Science Applications- Arctic Program
Anchorage, Alaska
907.786.3532 (office)
907.227.2942 (mobile)

On Jun 21, 2018, at 10:05, Mitch Ellis <mitch_ellis@fws.gov> wrote:

Wendy - would it be possible to push our internal review deadline to early next week? I won't have time to do a thorough review this week.

Sent from my iPhone

On Jun 18, 2018, at 8:10 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Mary, Mitch, Eric and Sara,

Attached is a draft of the Coastal Plain Seismic EA Draft Affected Environment Chapter and Specialist Reports requested by BLM Arctic Field Office in anticipation of a seismic application from SAE.

It was agreed that this would go out for concurrent review to all ARDs in order to meet the rapid timeline. The desired date to BLM was set as 6/22 so that BLM Arctic Field office staff can use it as a basis to start identifying issue and environmental consequences. However, FWS has not been notified by BLM that a complete application for a seismic permit has been submitted, b5 - DP
[REDACTED] I will check in on Thursday afternoon to get your feedback on timeline.

I will send the original note to reviewers down to Anchorage with Mary this week.

Thank you,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

<DRAFT_Seismic_EA_Chapter_3_Existing

<_Condition_06182018.docx>

<Notice_to_Reviewers_Seismic_EA_Chapter_3_Existing_Conditions_06182018.pdf>

To: Wendy Loya[wendy_loya@fws.gov]
From: Eric Taylor
Sent: 2018-06-22T11:18:47-04:00
Importance: Normal
Subject: Re: Note to Reviewer: Coastal Plain Seismic EA Draft Affected Environment Chapter and Specialist Reports
Received: 2018-06-22T11:18:56-04:00

Most welcome. Sorry to be coming in at the 9th inning with 2 out! Best, Eric

Sent from my iPhone

On Jun 22, 2018, at 9:17 AM, Wendy Loya <wendy_loya@fws.gov> wrote:

Thank you for your comments and edits!

Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Taylor, Eric [mailto:eric_taylor@fws.gov]
Sent: Friday, June 22, 2018 1:06 AM
To: Wendy Loya <wendy_loya@fws.gov>
Cc: Mitch Ellis <mitch_ellis@fws.gov>; Mary Colligan <mary_colligan@fws.gov>; Sara Boario <sara_boario@fws.gov>; Charles Frost <charles_frost@fws.gov>
Subject: Re: Note to Reviewer: Coastal Plain Seismic EA Draft Affected Environment Chapter and Specialist Reports

Hello Wendy -

Attached is my review. I added my edits, corrections, re-writes, and comments to Mary's document. Nearly all are quick fixes but several comments may need you to circle back to an author(s) for clarification.

My review is restricted to the first 13 pages i.e., I assumed the Specialist Reports/Appendices had already received reviews. I apologize if I am wrong but given the short turn around time, lack of MBM personnel in the Regional Office, and finally being on annual leave, this is the best we can do.

Eric

Eric J. Taylor
Chief, Division of Migratory Bird Management

U.S. Fish and Wildlife Service
1011 E. Tudor Road, MS 201
Anchorage, Alaska 99503-6199
907.786.3446 (office)
907.903.7210 (cell)
eric_taylor@fws.gov

On Thu, Jun 21, 2018 at 9:44 PM, Wendy Loya <wendy_loya@fws.gov> wrote:
Hi ARDs,

I have gone through Mary's comments and accepted most edits. I have responded to a few comments where I felt a change was not needed. b5

b5 - DP [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

I have not heard from Sara and Eric, so sending this draft in case they will review Friday morning. Karen C will have to review this weekend as she is out next week, and Greg leaves for a trip also on Monday evening I believe.

Thank you,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Mitch Ellis [mailto:mitch_ellis@fws.gov]

Sent: Thursday, June 21, 2018 6:06 PM

To: Wendy Loya <wendy_loya@fws.gov>

Cc: Mary Colligan <mary_colligan@fws.gov>; Eric Taylor <eric_taylor@fws.gov>; Sara Boario <sara_boario@fws.gov>

Subject: Re: Note to Reviewer: Coastal Plain Seismic EA Draft Affected Environment Chapter and Specialist Reports

Wendy - b5 - DP [REDACTED]. There are a few typos including words that are capitalized that probably shouldn't be but I think Mary caught most of them. I didn't get a chance to look at the specialist reports. b5 - DP [REDACTED]
Thanks

Sent from my iPhone

On Jun 21, 2018, at 2:15 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Mitch and others,

SAE is moving forward today with their application to BLM. We also had a kickoff for the Draft affected environment for the Leasing EIS yesterday and FWS will soon be inundated with requests for information to meet the very short deadline for those chapters. We could greatly minimize duplicative effort if we get this to BLM 'immediately.' We really need to move this forward this week and allow staff and the RDT to focus on the Alternatives next week. As well as QRP/SSP proposals coming your way Monday.

Thank you, it is only getting busier.

Wendy

Dr. Wendy M. Loya, Coordinator
Office of Science Applications- Arctic Program
Anchorage, Alaska

[907.786.3532](tel:907.786.3532) (office)

[907.227.2942](tel:907.227.2942) (mobile)

On Jun 21, 2018, at 10:05, Mitch Ellis <mitch_ellis@fws.gov> wrote:

Wendy - would it be possible to push our internal review deadline to early next week? I won't have time to do a thorough review this week.

Sent from my iPhone

On Jun 18, 2018, at 8:10 PM, Wendy Loya

<wendy_loya@fws.gov> wrote:

Hi Mary, Mitch, Eric and Sara,

Attached is a draft of the Coastal Plain Seismic EA Draft Affected Environment Chapter and Specialist Reports requested by BLM Arctic Field Office in anticipation of a seismic application from SAE.

It was agreed that this would go out for concurrent review to all ARDs in order to meet the rapid timeline. The desired date to BLM was set as 6/22 so that BLM Arctic Field office staff can use it as a basis to start identifying issue and environmental consequences. However, FWS has not

been notified by BLM that a complete application for a seismic permit has been submitted, **65 - DP**

[REDACTED] I will check in on Thursday afternoon to get your feedback on timeline.

I will send the original note to reviewers down to Anchorage with Mary this week.

Thank you,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and
Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

<DRAFT_Seismic_EA_Chapter_3_Existing_Condition_06182018.docx>

<Notice_to_Reviewers_Seismic_EA_Chapter_3_Existing_Conditions_06182018.pdf>

To: Wendy Loya[wendy_loya@fws.gov]
From: Paul Leonard
Sent: 2018-06-22T12:28:13-04:00
Importance: Normal
Subject: Return Trip
Received: 2018-06-22T12:28:22-04:00

Hey Wendy,

I hope the alternatives workshop final day went well and you were able to take at least a day off.

Just a heads up, I need to change my return to Tuesday the 26th and be back in the office by Wed. The 27th. I think that is the day we informed the groups to submit information back? I'm checking email so let me know if we need to discuss any of this.

Also, I've heard from the coastal plain EIS contractor GIS lead and am setting up a time to speak with her about data when I return.

Cheers,
Paul

Paul Leonard, PhD
Science Coordinator
Arctic Landscape Conservation Cooperative
101 12th Ave. Room 216
Fairbanks, AK 99709
(907) 456-0445

To: Wendy Loya[wendy_loya@fws.gov]
Cc: Grant Hilderbrand[ghilderbrand@usgs.gov]; John Pearce[jpearce@usgs.gov]; Jeff Conaway[jconaway@usgs.gov]; Aimee Devaris[adevaris@usgs.gov]; Durelle Smith[dpsmith@usgs.gov]
From: Zimmerman, Christian
Sent: 2018-06-22T15:45:56-04:00
Importance: Normal
Subject: FY2019 Alaska Science Center SSP/QRP Pre-proposals
Received: 2018-06-22T15:46:09-04:00

Consult w/ USGS



Thank you,

Chris

Christian E. Zimmerman
Center Director
USGS Alaska Science Center
4210 University Dr.
Anchorage, AK 99508
(907)786-7071
czimmerman@usgs.gov

To: lucille_frerich@fws.gov[lucille_frerich@fws.gov]; wendy_loya@fws.gov[wendy_loya@fws.gov]
From: Greg Siekaniec
Sent: 2018-06-22T19:06:47-04:00
Importance: Normal
Subject: Meeting
Received: 2018-06-22T19:06:48-04:00

Lucy,

Please schedule 30 minutes with Wendy on Monday morning to discuss
1002 EIS and seismic application.

Thanks,

Greg
Sent from my iPhone

To: Steve Berendzen[steve_berendzen@fws.gov]
From: Wendy Loya
Sent: 2018-06-22T19:31:23-04:00
Importance: Normal
Subject: Re: Edits to WSR section of Seismic EA
Received: 2018-06-22T19:31:35-04:00

No worries, I feel good about my understanding of what she said, so I will move these edits to Karen C and Greg, but knowing this is a draft that we have time to continue to edit with BLM. Have a good weekend,
Wendy

Dr. Wendy M. Loya, Coordinator
Office of Science Applications -Arctic Program
US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

On Fri, Jun 22, 2018 at 2:42 PM Berendzen, Steve <steve_berendzen@fws.gov> wrote:

Wendy,
Jen is on leave today, so I looked at this while trying to recall anything about the discussion on WSR's. **b5 - DP** [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Sorry we didn't get any changes to you.

Steve Berendzen
Refuge Manager, Arctic National Wildlife Refuge
907 456 0253

On Fri, Jun 22, 2018 at 7:12 AM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Jen,

I am suggesting **b5 - DP** [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

I need to get this to Karen and Greg today, so grateful if you could try to look at it this morning. I am driving from Fairbanks to Anchorage from about 8am - 2pm, so may not be available to respond to questions until this afternoon.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

To: Wendy Loya[wendy_loya@fws.gov]
From: Colligan, Mary
Sent: 2018-06-22T20:00:50-04:00
Importance: Normal
Subject: 1002
Received: 2018-06-22T20:00:56-04:00
[EA AE transmittal.docx](#)

Wendy I spoke with Karen earlier and she said you were on your way back to Anchorage and would be finishing edits on the Affected Environment later today or tomorrow. We thought it would be good to have a transmittal memo when the draft is sent so it is clear in our record. I have put together the attached simple memo that could be used if you agree with that suggestion.

Thank you and let me know if there is anything I can do to help

--

Mary Colligan
Assistant Regional Director
Fisheries and Ecological Services
U.S. Fish and Wildlife Service, Alaska Region
1011 E. Tudor Road, MS-361
Anchorage, AK 99503
907-786-3505
cell: 907-223-5945

From: Regional Director's Office
Location: RD Office
Importance: Normal
Subject: New event: Mtg with Wendy Loya to discuss 1002 EIS and Seismic Appli... @ Mon Jun 25, 2018 10am - 10:30am (AKDT) (Regional Director's Office)
Start Date/Time: 2018-06-25T14:00:00-04:00
End Date/Time: 2018-06-25T14:30:00-04:00
[invite.ics](#)

[more details »](#)

Mtg with Wendy Loya to discuss 1002 EIS and Seismic Application

When Mon Jun 25, 2018 10am - 10:30am Alaska Time
Where RD Office ([map](#))
Video call https://hangouts.google.com/hangouts/_/doi.gov/greg_siekaniec
Calendar Regional Director's Office
Who

-
-
-

lucille_frerich@fws.gov
greg_siekaniec@fws.gov
wendy_loya@fws.gov

Invitation from [Google Calendar](#)

You are receiving this email at the account [tauline davis@fws.gov](mailto:davis@fws.gov) because you are subscribed for new event updates on calendar Regional Director's Office.

To stop receiving these emails, please log in to <https://www.google.com/calendar/> and change your notification settings for this calendar.

Forwarding this invitation could allow any recipient to modify your RSVP response. [Learn More.](#)

To: Wendy Loya[wendy_loya@fws.gov]
From: Lanctot, Richard
Sent: 2018-06-25T13:20:24-04:00
Importance: Normal
Subject: Re: Science Support program
Received: 2018-06-25T13:21:27-04:00
FY2019 SSP waterbird PreProposal 17June2018.docx

Hi Wendy,

Here is the proposal that I was going to submit. We were looking for funds to expand the helicopter survey to more days so as to focus on 2D seismic important areas, wetland areas, and repeat plots from 2002/2004 era, but also to put out nest monitors to get baseline levels of nest survival before oil and gas development. The nest survival portion of the study requires us to return to sites in future years (hence our request for multi year funding) so this is not very realistic to fund from 2018 funds but getting more helicopter time for surveys would be helpful. I am also hoping BOEM and other sources of funds will become available to buy more GPS tags to deploy on birds found at nest sites. To do this, we need to stay at survey sites longer to find nests (and hence need more helicopter time). I could provide a more focused proposal in a week or so but still up in Barrow and neck deep in field work for the next several weeks.

Thanks for your consideration and support,

Cheers, Rick

Richard Lanctot, PhD
Region 7 Shorebird Coordinator
U.S. Fish and Wildlife Service
1011 East Tudor Road, MS 201
Anchorage, Alaska 99503
Ph: 907-786-3609
Fax: 907-786-3641
Cell: 907-440-9733
E-mail: richard_lanctot@fws.gov

"Hockey is Life - Keep your stick on the ice!" Unknown author

On Mon, Jun 25, 2018 at 8:24 AM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Rick,

I saw that you were missing in the list. If you have a 1-pager it would be good to know what you would have asked for, or need...I think it was something along the lines of improving next year's PRISM survey? If there is a way to contribute to that in 2018 let me know.

Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Lanctot, Richard <richard_lanctot@fws.gov>
Sent: Monday, June 25, 2018 7:50 AM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: Science Support program

Hi Wendy,

Just wanted to let you know that I was not able to establish a good project with the USGS to submit for the Science Support Program proposal process. John Pearce decided he would pursue an aerial waterfowl detection survey refinement instead.

It is unfortunate but without a USGS partner I had not choice.

Hope your summer is going well.

Cheers, Rick

Richard Lanctot, PhD
Region 7 Shorebird Coordinator
U.S. Fish and Wildlife Service
1011 East Tudor Road, MS 201

Anchorage, Alaska 99503

Ph: 907-786-3609

Fax: 907-786-3641

Cell: 907-440-9733

E-mail: richard_lanctot@fws.gov

"Hockey is Life - Keep your stick on the ice!" Unknown author

To: Wendy Loya[wendy_loya@fws.gov]
Cc: Steve Berendzen[steve_berendzen@fws.gov]
From: Reed, Jennifer
Sent: 2018-06-25T14:48:43-04:00
Importance: Normal
Subject: Re: Edits to WSR section of Seismic EA
Received: 2018-06-25T14:48:51-04:00

Trying to reach you to determine if there is still a need I can help fill. Left voice message with office phone; and get recording for mobile "this number is not available at this time."

Jennifer J. Reed

Arctic National Wildlife Refuge Public Use Manager

101 12th Ave, Rm 236

Fairbanks, AK 99701

Telephone: (907) 455 1835

Fax: (907) 456 0428

Interagency Visitor Use Management Council USFWS Representative

Interagency Wild & Scenic River Coordinating Council USFWS Representative

Make Your Splash!

NOTE: This email correspondence and any attachments to and from this sender is subject to the Freedom of Information Act (FOIA) and may be disclosed to third parties.

On Fri, Jun 22, 2018 at 7:12 AM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Jen,

I am suggesting **b5 - DP**

I need to get this to Karen and Greg today, so grateful if you could try to look at it this morning. I am driving from Fairbanks to Anchorage from about 8am - 2pm, so may not be available to respond to questions until this afternoon.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

To: Brandon Nye[brandon_nye@fws.gov]
Cc: Wendy Loya[wendy_loya@fws.gov]; John Trawicki[john_trawicki@fws.gov]
From: Granfors, Diane
Sent: 2018-06-25T16:17:26-04:00
Importance: Normal
Subject: Arctic Landcover Project
Received: 2018-06-25T16:18:05-04:00
[PPR ArcticNWR LandcoverMap JT.pdf](#)
[1002-LandCoverMapSOW-MAY30.docx](#)

Hi Brandon-

Please find attached the PR and SOW for landcover map for the Arctic NWR. This will be part of the \$600k we received from NRPC.

thanks-
Diane

--

Diane Granfors, PhD
Alaska Region Inventory and Monitoring Coordinator
National Wildlife Refuge System
U.S. Fish and Wildlife Service
1011 East Tudor Road, MS 235
Anchorage, AK 99503
diane_granfors@fws.gov
907-786-3429

Collaborative ecosystem science to inform National Wildlife Refuge System conservation decisions in Alaska.

To: John Trawicki[john_trawicki@fws.gov]
From: Wendy Loya
Sent: 2018-06-25T16:42:52-04:00
Importance: Normal
Subject: FW: FY2019 Alaska Science Center SSP/QRP Pre-proposals
Received: 2018-06-25T16:43:04-04:00
FY2019 Preproposal Groundwater 20180622.pdf

Let me know if this DOES NOT look like final proposal 😊

To: Wendy Loya[wendy_loya@fws.gov]
Cc: Steve Berendzen[steve_berendzen@fws.gov]; Joanna Fox[joanna_fox@fws.gov]
From: Reed, Jennifer
Sent: 2018-06-25T16:52:49-04:00
Importance: Normal
Subject: Fwd: Edits to WSR section of Seismic EA
Received: 2018-06-25T16:53:00-04:00
Wild and Scenic Rivers suggested edits 062518_JR.docx

The third paragraph contained information that was incorrect as written. I contacted the Alaska-WSR expert for the IWSRCC to receive guidance for edits, and I am confident the suggested edits attached in *Wild and Scenic Rivers suggested edits 062518_JR.docx* accurately capture the salient info necessary for the EA's WSR section.

Jen

Arctic National Wildlife Refuge Public Use Manager

101 12th Ave, Rm 236
Fairbanks, AK 99701
Telephone: (907) 455 1835
Fax: (907) 456 0428

Interagency Visitor Use Management Council USFWS Representative

Interagency Wild & Scenic River Coordinating Council USFWS Representative

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

From: Berendzen, Steve <steve_berendzen@fws.gov>
Date: Fri, Jun 22, 2018 at 2:42 PM
Subject: Re: Edits to WSR section of Seismic EA
To: Wendy Loya <wendy_loya@fws.gov>, Joanna Fox <joanna_fox@fws.gov>
Cc: Jennifer Reed <jennifer_reed@fws.gov>

Wendy,

Jen is on leave today, so I looked at this while trying to recall anything about the discussion on WSR's. b5 - DP

Sorry we didn't get any changes to you.

Steve Berendzen
Refuge Manager, Arctic National Wildlife Refuge
907 456 0253

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

From: Wendy Loya <wendy_loya@fws.gov>
Date: Fri, Jun 22, 2018 at 7:12 AM
Subject: Edits to WSR section of Seismic EA

0000009794

To: Jennifer Reed <jennifer_reed@fws.gov>, Steve Berendzen <steve_berendzen@fws.gov>

Hi Jen,

I am suggesting b5 - DP

A large section of the email body is redacted with four thick black horizontal bars, obscuring the text that follows the initial suggestion.

I need to get this to Karen and Greg today, so grateful if you could try to look at it this morning. I am driving from Fairbanks to Anchorage from about 8am - 2pm, so may not be available to respond to questions until this afternoon.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

To: Wendy Loya[wendy_loya@fws.gov]
From: Crane, Drew
Sent: 2018-06-25T17:09:53-04:00
Importance: Normal
Subject: Re: Stips and BMPs - Invitation to collaborate
Received: 2018-06-25T17:10:02-04:00

Oohh, this is what you were talking about getting together to review. I was thinking you meant we would be looking at sections of the affected environment from the EA and building off of that. Sorry about that.

Drew Crane
Regional Endangered Species Coordinator
Alaska Region
U.S. Fish and Wildlife Service
1011 E. Tudor Road
Anchorage, AK 99503
907-786-3323

On Mon, Jun 25, 2018 at 1:06 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Drew,

Given that you will be out of town when edits come in COB Weds, I do not expect you to review them. If you wanted to find someone to serve on your behalf, we could work them into the conversation on Thurs. Let me know what you think!

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Crane, Drew <drew_crane@fws.gov>
Sent: Monday, June 25, 2018 1:04 PM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: Re: Stips and BMPs - Invitation to collaborate

Hey Wendy,

Is the expectation that the POCs will review once all edits have been made by resource specialists?

Thanks,

Drew Crane

Regional Endangered Species Coordinator

Alaska Region

U.S. Fish and Wildlife Service

1011 E. Tudor Road

Anchorage, AK 99503

907-786-3323

On Thu, Jun 21, 2018 at 4:19 PM, Wendy Loya (via Google Drive) <drive-shares-noreply@google.com> wrote:

wendy_loya@fws.gov has invited you to **contribute to** the following shared folder:

Stips and BMPs

Edits due no later than: Wednesday 6/27 4pm

Google Folder with Stipulations and BMPs from NPRA Table 2.3 for FWS Staff Experts to edit for

0000009797

applicability for 1002 area. Please only edit those documents for which you have knowledge and expertise in, all edits should be tracked, but formatting changes can be accepted to keep document as readable as possible.

Thank you, let Wendy know if you have any questions.

Open

Google Drive: Have all your files within reach from any device.

Google LLC, [1600 Amphitheatre Parkway, Mountain View, CA 94043, USA](#)

To: Drew Crane[drew_crane@fws.gov]
From: Wendy Loya
Sent: 2018-06-25T17:20:01-04:00
Importance: Normal
Subject: RE: Stips and BMPs - Invitation to collaborate
Received: 2018-06-25T17:20:12-04:00

The EA AE is so old news, pshhh!

;))

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Crane, Drew <drew_crane@fws.gov>
Sent: Monday, June 25, 2018 1:10 PM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: Re: Stips and BMPs - Invitation to collaborate

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Drew Crane
Regional Endangered Species Coordinator
Alaska Region
U.S. Fish and Wildlife Service
1011 E. Tudor Road
Anchorage, AK 99503
907-786-3323

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Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Crane, Drew <drew_crane@fws.gov>

Sent: Monday, June 25, 2018 1:04 PM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: Re: Stips and BMPs - Invitation to collaborate

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Thanks,

Drew Crane
Regional Endangered Species Coordinator
Alaska Region
U.S. Fish and Wildlife Service
[1011 E. Tudor Road](#)
[Anchorage, AK 99503](#)
907-786-3323

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Google Drive: Have all your files within reach from any device.

Google LLC, [1600 Amphitheatre Parkway, Mountain View, CA 94043, USA](#)

To: Jennifer Reed[jennifer_reed@fws.gov]
From: Wendy Loya
Sent: 2018-06-25T17:22:05-04:00
Importance: Normal
Subject: RE: Edits to WSR section of Seismic EA
Received: 2018-06-25T17:22:12-04:00

Thank you, glad to have this in correct form. Appreciate your time in a busy week!

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Reed, Jennifer <jennifer_reed@fws.gov>
Sent: Monday, June 25, 2018 12:53 PM
To: Wendy Loya <wendy_loya@fws.gov>
Cc: Steve Berendzen <steve_berendzen@fws.gov>; Joanna Fox <joanna_fox@fws.gov>
Subject: Fwd: Edits to WSR section of Seismic EA

The third paragraph contained information that was incorrect as written. I contacted the Alaska-WSR expert for the IWSRCC to receive guidance for edits, and I am confident the suggested edits attached in *Wild and Scenic Rivers suggested edits 062518_JR.docx* accurately capture the salient info necessary for the EA's WSR section.

Jen

Arctic National Wildlife Refuge Public Use Manager
101 12th Ave, Rm 236
Fairbanks, AK 99701
Telephone: (907) 455-1835
Fax: (907) 456-0428
Interagency Visitor Use Management Council-USFWS Representative
Interagency Wild & Scenic River Coordinating Council-USFWS Representative

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Information Act (FOIA) and may be disclosed to third parties.

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

0000009801

From: **Berendzen, Steve** <steve_berendzen@fws.gov>
Date: Fri, Jun 22, 2018 at 2:42 PM
Subject: Re: Edits to WSR section of Seismic EA
To: Wendy Loya <wendy_loya@fws.gov>, Joanna Fox <joanna_fox@fws.gov>
Cc: Jennifer Reed <jennifer_reed@fws.gov>

Wendy,

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Sorry we didn't get any changes to you.

Steve Berendzen
Refuge Manager, Arctic National Wildlife Refuge
907-456-0253

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

From: **Wendy Loya** <wendy_loya@fws.gov>
Date: Fri, Jun 22, 2018 at 7:12 AM
Subject: Edits to WSR section of Seismic EA
To: Jennifer Reed <jennifer_reed@fws.gov>, Steve Berendzen <steve_berendzen@fws.gov>

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Thank you,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

To: mccrea_cobb@fws.gov



We're pleased to announce the release of the new issue of *Alaska Park Science*.

Alaska is home to many amazing migrations. In this issue, you can read about caribou, salmon, Golden Eagles, Swainson's Thrushes, beluga whales, and more. Human migrations have also occurred here, from ancient Beringia to the Klondike Gold Rush. You can even read about now-extinct species from the Cretaceous and Pleistocene eras. Enjoy this issue of *Alaska Park Science* on migration.

You are receiving this message because of your interest in Alaska's parks; if you do not wish to be notified of future issues of *Alaska Park Science*, you may unsubscribe at the bottom of this message.

Thank you for your interest! I hope you enjoy this issue of *Alaska Park Science*!

[Download Full Issue](#)



Migration: On the Move in Alaska

A Survey of Human Migration in

The far north provides both challenges and benefits to the people and animals that live here. Migration is one way people and animals can find the resources to survive and thrive. This article introduces the *Alaska Park Science* issue on migration. [Read more](#)

Alaska's National Parks through Time

Ancient hunter-gatherers of the Arctic and Subarctic regions were nomadic people that moved camp regularly with the seasons. Ethnographic data show Native Alaskan populations typically limited their residential moves within familiar territories; however, the archaeological record demonstrates there were times in prehistory when humans spread from their homelands to new areas, sometimes lands where humans had never lived before. This is the story of Beringian migration. [Read more](#)

Duck-billed Dinosaurs (Hadrosauridae), Ancient Environments, and Cretaceous Beringia in Alaska's National Parks

This article presents new information from Aniakchak National Monument and Preserve on the Alaska Peninsula, that sheds light on the likely ancient environment that allowed the migration of one group of dinosaurs, the hadrosaurs (duck-billed dinosaurs), across Beringia during the Cretaceous. [Read more](#)

Pleistocene Megafauna in Beringia

At the peak of the last ice age, 20,000 years ago, when most of northern North America was covered by massive glaciers, much of Alaska was ice-free and home to a diverse assortment of large mammals. Learn more about how the ice age megafauna migrated across the land bridge and what species successfully survived. [Read more](#)



The Klondike Gold Rush: A Search for the Archaeological Traces of an Historic Migration Event

People have been migrating into and through Alaska for over 14,000 years. The last major migration into Alaska began with the Russian colonialism in the mid-late 18th century and intensified with the arrival of Euro-American traders, missionaries, and prospectors in the mid-late 19th century. The Klondike Gold Rush from 1896-1899 was a particularly intense, but brief, wave of migration that would forever change the course of history for Alaska. [Read more](#)

Future Challenges for Salmon and the Freshwater Ecosystems of Southeast Alaska

Mass animal migrations are awe-inspiring sights. Every summer and fall, residents and visitors to Alaska can witness one of the great underwater migrations: Pacific salmon returning from the ocean to their home streams, rivers, and lakeshores to spawn. Hundreds of millions of salmon return to Alaska's freshwaters annually. [Read more](#)

History, Purpose, and Status of Caribou Movements in Northwest Alaska

Migration is a distinctive behavioral trait of caribou. Caribou display the longest terrestrial migrations

Influence of Spring Prey Pulses on Seasonal Migrations of Pinnipeds in the North Pacific Ocean

anywhere on the planet. In northwest Alaska, caribou travel up to 2,737 miles (4,404 km) per year. One of the main purposes of migration is to minimize exposure to predation, especially during calving when young animals are particularly vulnerable. [Read more](#)

Central to understanding the migration of organisms is an understanding of *why* they move. Explanations for migratory behavior may include reducing the risk of predation, enhancing access to breeding opportunities, or, in the case of seals and sea lions, enhancing access to aggregations of high-quality food or shifting patterns of food abundance. [Read more](#)

Seasonal Sea Ice and Arctic Migrations of the Beluga Whale

Sea ice break-up in the spring and freeze-up in the fall govern the accessibility of Alaska's Arctic Ocean for several migratory marine species. Each year, beluga and bowhead whales navigate the Bering Strait and enter the southern Chukchi Sea, one of the most seasonally productive regions of the global oceans. Some belugas and most bowhead whales continue on their >1,500 mile migration north of Alaska to the Canadian Beaufort Sea. [Read more](#)

Annual Cycle Studies Provide New Information for Protecting Future Generations of Golden Eagles

Telemetry studies provide new information on the movements of non-territorial (migrating) Golden Eagles in Alaska during the breeding season, expanding our understanding of the ecology of this species. This information should be useful for developing effective management and conservation. [Read more](#)



Connecting Taiga to Tropics: Swainson's Thrush as a Model for Nearctic-Neotropical Migration in Alaska

Twice a year, the Swainson's Thrush connects the boreal forests of North America to the tropical forests of Central and South America through its flight across the Western Hemisphere. About 200 bird species, primarily songbirds such as thrushes and warblers, are considered Nearctic-Neotropical migrants that fly thousands of miles annually between breeding and wintering areas. [Read more](#)

Bridging the Boreal: Landscape Linkages Connecting the Federal Conservation Estate in Alaska

Migration, like other ecological functions and processes, depends on connected landscapes. Alaska's vast forests, river valleys, and mountain ranges provide wildlife with diverse habitats and the ability to move between them as conditions require. In this article, read why landscape connectivity is important and how to plan for connectivity given climate change. [Read more](#)

Migration's Foundation: Ecological Intactness of Alaska's Ecosystems

The future of migration in Alaska depends on the capability of landscapes to support it. It is clear current landscape permeability and ecosystem integrity will change; however, the intactness of habitats in Alaska provides an enviable foundation for ensuring successful adaptation to those changes. [Read More](#)

Alaska Park Science is a semi-annual, peer-reviewed journal that shares what we are learning through the scientific study of Alaska's national parks. Alaska's parks are cultural and natural landscapes that inspire us, provoke wonder, and deserve respect. We conserve these incredible places so that they may be enjoyed now and in the future.



Nina Chambers
Managing Editor
Alaska Park Science
National Park Service
nina_chambers@nps.gov
akr_alaska_park_science@nps.gov

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--
John Morton, Ph.D.
Supervisory Fish & Wildlife Biologist
Kenai National Wildlife Refuge

U.S. Fish and Wildlife Service
P.O. Box 2139
Soldotna, AK 99669
(TEL) 907 260 2815 / (FAX) 907 262 3599
john_m_morton@fws.gov
<http://www.fws.gov/refuge/kenai/>
<http://www.facebook.com/kenainationalwildliferefuge>

From: Google Calendar
Location: Fairbanks (Refuges Conference Room (2nd floor) or **b5 - CIP**)
Importance: Normal
Subject: Accepted: Coastal Plain Seismic @ Tue Jun 26, 2018 3pm - 4pm (AKDT)
(wendy_loya@fws.gov)
Start Date/Time: 2018-06-26T19:00:00-04:00
End Date/Time: 2018-06-26T20:00:00-04:00
[invite.ics](#)

Nichelle (Shelly) Jones has accepted this invitation.

Coastal Plain Seismic

Check in following last Thursday's meeting with SAE/ASRC, who provided information requested towards advancing Seismic permit application/NEPA.

BLM will come to FWS on 6/26, and we can join with Anchorage folks by phone. Forward as needed to be inclusive J

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

When Tue Jun 26, 2018 3pm - 4pm Alaska Time
Where Fairbanks (Refuges Conference Room (2nd floor) or 1
Video call **b5 - CIP** (map) https://hangouts.google.com/hangouts/_/doi.gov/wendy_loya
Calendar wendy_loya@fws.gov
Who

-
-
-
-
-
-
-
-

wendy_loya@fws.gov
Sarah LaMarr
Joanna Fox
Trawicki, John
Nichelle (Shelly) Jones
Donna Wixon (dwixon)
Rose, Joshua
Sarah Conn

Invitation from [Google Calendar](#)

You are receiving this email at the account wendy_loya@fws.gov because you are subscribed for invitation replies on calendar wendy_loya@fws.gov.

To stop receiving these emails, please log in to <https://www.google.com/calendar/> and change your notification settings for this calendar.

Forwarding this invitation could allow any recipient to modify your RSVP response. [Learn More.](#)

To: Rose, Joshua[joshua_rose@fws.gov]
Cc: Wendy Loya[wendy_loya@fws.gov]; Steve Berendzen[steve_berendzen@fws.gov]; Joanna Fox[joanna_fox@fws.gov]
From: Jones, Nichelle (Shelly)
Sent: 2018-06-26T13:38:42-04:00
Importance: Normal
Subject: Re: Draft Affected Environment Chapter for Seismic EA
Received: 2018-06-26T13:39:29-04:00

See you then.

Shelly Jones
Acting Manager
Arctic District Office
222 University Avenue
Fairbanks, AK 99709

(907) 474-2310 (w)
(907) 460 0086 (c)

On Tue, Jun 26, 2018 at 8:54 AM, Rose, Joshua <joshua_rose@fws.gov> wrote:

That sounds good with us. Steve is in Kaktovik today but Joanna and I are here and have an open room. 3 sounds good.

Thanks,
Josh

On Mon, Jun 25, 2018 at 4:12 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Shelly,

I am back in Anchorage, but I do think we should meet given last week's productive meeting with SAE. I'll let Steve and Joanna chime in on hosting at FWS Fairbanks.

I think you all know, but our meeting at 2pm with Nicole is cancelled since she is out of town.

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Jones, Nichelle (Shelly) <njones@blm.gov>
Sent: Monday, June 25, 2018 4:08 PM
To: Wendy Loya <wendy_loya@fws.gov>
Cc: Steve Berendzen <steve_berendzen@fws.gov>; Joanna Fox <joanna_fox@fws.gov>; Joshua Rose <joshua_rose@fws.gov>
Subject: Re: Draft Affected Environment Chapter for Seismic EA

Will do. Thanks Wendy. Are we still planning to meet tomorrow at 3? I can check with Sarah and perhaps we can come over to your building tomorrow?

Shelly Jones

Acting Manager

Arctic District Office

222 University Avenue

Fairbanks, AK 99709

-

(907) 474-2310 (w)

(907) 460 0086 (c)

On Mon, Jun 25, 2018 at 3:43 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Shelly,

-

I apologize, but I sent the Draft Affected Environment chapter without the necessary header (DRAFT for DOI Use Pre-Decisional) and watermark showing that it was sent to BLM. Can you please retain this email and delete the one I sent at 3:35 pm?

Thank you,

0000009813

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Wendy Loya <wendy_loya@fws.gov>
Sent: Monday, June 25, 2018 3:35 PM
To: Nichelle (Shelly) Jones <njones@blm.gov>
Cc: Steve Berendzen <steve_berendzen@fws.gov>; Joanna Fox <joanna_fox@fws.gov>;
Joshua Rose <joshua_rose@fws.gov>
Subject: Draft Affected Environment Chapter for Seismic EA

Hi Shelly,

Attached is the Draft Affected Environment for Coastal Plain Seismic EA and transmittal memo. We look forward to continuing to work with you and your staff to ensure we provide the information necessary to complete NEPA for this project.

I will send the timeline that has the updated MMPA/ESA info and our current IDT Team list in a separate email to you shortly.

On behalf of the Arctic Refuge and Regional FWS staff,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

--

Joshua Rose

Aquatic Ecologist

USFWS Region 7 I&M

101 12th Ave., Rm 216

Fairbanks, AK 99701

phone: (907) 456-0409

To: Wendy Loya[wendy_loya@fws.gov]
From: Rose, Joshua
Sent: 2018-06-26T13:50:24-04:00
Importance: Normal
Subject: Re: Draft Affected Environment Chapter for Seismic EA
Received: 2018-06-26T13:50:31-04:00

Wendy,
You win the prize. Refugees conference room is booked..

Thanks,
Josh

On Tue, Jun 26, 2018 at 9:17 AM, Wendy Loya <wendy_loya@fws.gov> wrote:

What room in Fairbanks? I'll send an invite to POCs

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Rose, Joshua <joshua_rose@fws.gov>
Sent: Tuesday, June 26, 2018 8:54 AM
To: Wendy Loya <wendy_loya@fws.gov>
Cc: Nichelle (Shelly) Jones <njones@blm.gov>; Steve Berendzen <steve_berendzen@fws.gov>; Joanna Fox <joanna_fox@fws.gov>

Subject: Re: Draft Affected Environment Chapter for Seismic EA

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I think you all know, but our meeting at 2pm with Nicole is cancelled since she is out of town.

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

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From: Jones, Nichelle (Shelly) <njones@blm.gov>
Sent: Monday, June 25, 2018 4:08 PM
To: Wendy Loya <wendy_loya@fws.gov>
Cc: Steve Berendzen <steve_berendzen@fws.gov>; Joanna Fox <joanna_fox@fws.gov>; Joshua Rose <joshua_rose@fws.gov>
Subject: Re: Draft Affected Environment Chapter for Seismic EA

Will do. Thanks Wendy. Are we still planning to meet tomorrow at 3? I can check with Sarah and perhaps we can come over to your building tomorrow?

Shelly Jones

Acting Manager

0000009817

Arctic District Office
222 University Avenue
Fairbanks, AK 99709

-

(907) 474-2310 (w)

(907) 460 0086 (c)

On Mon, Jun 25, 2018 at 3:43 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Shelly,

-

I apologize, but I sent the Draft Affected Environment chapter without the necessary header (DRAFT for DOI Use Pre-Decisional) and watermark showing that it was sent to BLM. Can you please retain this email and delete the one I sent at 3:35 pm?

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

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From: Wendy Loya <wendy_loya@fws.gov>
Sent: Monday, June 25, 2018 3:35 PM
To: Nichelle (Shelly) Jones <njones@blm.gov>

0000009818

Cc: Steve Berendzen <steve_berendzen@fws.gov>; Joanna Fox <joanna_fox@fws.gov>;
Joshua Rose <joshua_rose@fws.gov>
Subject: Draft Affected Environment Chapter for Seismic EA

Hi Shelly,

Attached is the Draft Affected Environment for Coastal Plain Seismic EA and transmittal memo. We look forward to continuing to work with you and your staff to ensure we provide the information necessary to complete NEPA for this project.

I will send the timeline that has the updated MMPA/ESA info and our current IDT Team list in a separate email to you shortly.

On behalf of the Arctic Refuge and Regional FWS staff,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

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--

Joshua Rose

Aquatic Ecologist

USFWS Region 7 I&M

101 12th Ave., Rm 216

Fairbanks, AK 99701

phone: (907) 456-0409

--

Joshua Rose

Aquatic Ecologist

USFWS Region 7 I&M

101 12th Ave., Rm 216

Fairbanks, AK 99701

phone: (907) 456-0409

To: Sarah LaMarr[slamarr@blm.gov]; Joanna Fox[joanna_fox@fws.gov]; John Trawicki[john_trawicki@fws.gov]; Nichelle (Shelly) Jones[njones@blm.gov]; Donna Wixon[dwixon@blm.gov]; Joshua Rose[joshua_rose@fws.gov]; Sarah Conn[sarah_conn@fws.gov]
From: Wendy Loya
Sent: 2018-06-26T17:44:39-04:00
Importance: Normal
Subject: Coastal Plain Seismic IDT List and Draft Timeline
Received: 2018-06-26T17:44:49-04:00
[Coastal Plain Seismic IDT Team 062618.docx](#)
[Coastal Plain Seismic DRAFT Timeline 062618.docx](#)

Hi all,

Attached are our current versions of the IDT Team and Timeline for the Seismic EA. They are the same as I sent Shelly on 6/12/18, but extracted from the PIL (obsolete given DOI agency guidance on MOUs) as separate documents. I expect the timeline may warrant further adjustment based on the date of application completion?

Wanted to send these so they are handy if needed for our meeting today.

Cheers,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

-----Original Appointment-----

From: wendy_loya@fws.gov <wendy_loya@fws.gov>
Sent: Tuesday, June 26, 2018 9:33 AM
To: wendy_loya@fws.gov; Sarah LaMarr; Joanna Fox; Trawicki, John; Nichelle (Shelly) Jones; Donna Wixon (dwixon@blm.gov); Rose, Joshua; Sarah Conn
Subject: Coastal Plain Seismic
When: Tuesday, June 26, 2018 3:00 PM-4:00 PM (UTC-09:00) Alaska.
Where: Fairbanks (Refuges Conference Room (2nd floor) or **b5 - CIP**)
b5 - CIP

Check in following last Thursday's meeting with SAE/ASRC, who provided information requested towards advancing Seismic permit application/NEPA.

BLM will come to FWS on 6/26, and we can join with Anchorage folks by phone. Forward as needed to be inclusive J

Dr. Wendy M. Loya,

To: Hanson, Heather[heather_hanson@fws.gov]
Cc: Wendy Loya[wendy_loya@fws.gov]; David Wigglesworth[david_wigglesworth@fws.gov]; Drew Crane[drew_crane@fws.gov]; Mary Colligan[mary_colligan@fws.gov]; Michael Daigneault[michael_daigneault@fws.gov]; Neil Stichert[neil_stichert@fws.gov]; Brown, Randy[randy_j_brown@fws.gov]; Joshua Rose[Joshua_Rose@fws.gov]
From: Trawicki, John
Sent: 2018-06-27T12:31:01-04:00
Importance: Normal
Subject: Re: 1002 BMPs
Received: 2018-06-27T12:32:18-04:00

Thanks Heather, we will incorporate your recommendations.

On Wed, Jun 27, 2018 at 8:26 AM, Hanson, Heather <heather_hanson@fws.gov> wrote:

Hi Wendy.

Thank you for the opportunity to comment on the BMP's for the 1002 area.

The BMP's for fish passage outlined in "Stream Crossing Design Procedure for Fish Streams on the North Slope Coastal Plain" by McDonald et al. (1994) and "Fundamentals of Culvert Design for Passage of Weak Swimming Fish" by Behlke et al. (1991) are based on the hydraulic design method. The hydraulic design method is an outdated method that attempts to match fish swimming ability with the predicted velocity and depth at a road stream crossing to ensure fish passage. This method has not proven very successful as it relies on accurate predictions of the hydrological flow regime. However, the confidence interval on hydrological flow estimates can be plus or minus 100% or more. Using this method to design fish passage structures may result in the installation of new barriers to fish passage.

The USFWS recommends the stream simulation approach for the design of culverts at road stream crossings. The stream simulation approach was developed by the US Forest Service and is outlined in this document "Stream Simulation: An Ecological Approach to Providing Passage for Aquatic Organisms at Road Stream Crossings" U.S. Forest Service. 2008. In addition, the USFWS has developed the attached guidelines for design of stream simulation culverts in Alaska. The attached guidelines focus on the design features of culverts at road stream crossings that are important to ensure fish passage. In addition to the BMP's outlined in these documents for stream simulation design, the design engineer should ensure that crossing structures are designed for aufeis, permafrost, sheet flow, additional freeboard during breakup, and other unique conditions of the arctic environment. To allow for sheet flow and flood plain dynamics and to ensure fish passage and passage of other organisms, bridges are preferred over culverts if technically feasible.

Heather Hanson, P.E.
Fish Passage Engineer
Office Tel: 907-271-1630
Cell: 907-891-3765

U.S. Fish and Wildlife Service
4700 BLM Road
Anchorage, AK 99507-2546

On Tue, Jun 26, 2018 at 12:56 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi David et al,

We are working from the NPRA Best Management Practices, but welcome additional BMPs in a

similar format if you feel it is important to suggest additional performance standards. If you wanted to understand how they are implemented, you could look to the GMT 1 or GMT2 EISes, where they are put into action on an NPRA project. For BMPs, we could receive any suggestions up through next Tuesday COB, needing time to reconcile and finalize our suggestions by the end of the week (and hopefully taking the holiday off). We will gather Matthew Whitman at BLM's expertise on how well the NPRA BMPs work during the upcoming BLM alternatives workshop.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Wigglesworth, David <david_wigglesworth@fws.gov>
Sent: Tuesday, June 26, 2018 12:37 PM
To: Wendy Loya <wendy_loya@fws.gov>
Cc: John Trawicki <john_trawicki@fws.gov>; Heather Hanson <heather_hanson@fws.gov>; Drew Crane <drew_crane@fws.gov>; Mary Colligan <mary_colligan@fws.gov>; Michael Daigneault <michael_daigneault@fws.gov>; Neil Stichert <Neil_Stichert@fws.gov>
Subject: Re: 1002 BMPs

Also, I saw the NPRA standards being used as our starting point, but what has been drafted to date by us concerning fish passage, culverts etc. We'd need to see these as well.

On Tue, Jun 26, 2018 at 12:32 PM, Wigglesworth, David <david_wigglesworth@fws.gov> wrote:

Hi Wendy, thanks for looping back to us on this issue. I have also included Mike

Daigneault in this discussion and Neil. I know things are moving quickly, but it would be most helpful to have a deadline for comments.

David

On Tue, Jun 26, 2018 at 12:26 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Heather and David,

Thank you for putting this issue on your radar! We welcome your suggested edits or additional BMPs that might be necessary, John Trawicki and Randy Brown are the go-to guys for any questions.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Trawicki, John <john_trawicki@fws.gov>

Sent: Tuesday, June 26, 2018 12:14 PM

To: Heather Hanson <heather_hanson@fws.gov>

Cc: Drew Crane <drew_crane@fws.gov>; Wendy Loya <wendy_loya@fws.gov>

Subject: Fwd: 1002 BMPs

Below is the BMP the BLM is currently using for the NPRA. Not sure I can get another acronym in that sentence. We are working on BMPs for the Coastal Plain and are interested in your opinion and recommendation. There is a very fast turn around for a draft, COB tomorrow, but an opportunity to make updates next week if necessary.

Thank you very much

Requirement/Standard: To ensure that crossings provide for fish passage, all proposed crossing designs shall adhere to the best management practices outlined in "Stream Crossing Design Procedure for Fish Streams on the North Slope Coastal Plain" by McDonald et al. (1994), "Fundamentals of Culvert Design for Passage of Weak-Swimming Fish" by Behlke et al. (1991), and other generally accepted best management procedures prescribed by the authorized officer. To adhere to these best management practices, at least 3 years of hydrologic and fish data shall be collected by the lessee for any proposed crossing of a stream whose structure is designed to occur, wholly or partially, below the stream's ordinary high watermark. These data shall include, but are not limited to, the range of water levels (highest and lowest) at the location of the planned crossing, and the seasonal distribution and composition of fish populations using the stream.

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

From: **Crane, Drew** <drew_crane@fws.gov>

Date: Tue, Jun 26, 2018 at 11:45 AM

Subject: Fwd: 1002 BMPs

To: Wendy Loya <wendy_loya@fws.gov>, John Trawicki <john_trawicki@fws.gov>

Hey there,

Something to include in your discussions regarding 1002 BMPs. Let me know if you would like me to follow up with David or Heather on anything.

Thanks!

Drew Crane

Regional Endangered Species Coordinator

Alaska Region

U.S. Fish and Wildlife Service

1011 E. Tudor Road

Anchorage, AK 99503

907-786-3323

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

From: **Wigglesworth, David** <david_wigglesworth@fws.gov>

Date: Tue, Jun 26, 2018 at 9:15 AM

Subject: 1002 BMPs

To: Drew Crane <drew_crane@fws.gov>, "Colligan, Mary" <mary_colligan@fws.gov>

Cc: Michael Daigneault <michael_daigneault@fws.gov>

Would like to recommend that our fish passage engineer review 1002 BMPs relating to culverts and stream crossings. Heather has developed best practice guidance and the plan is to brief Greg on this in July. Greg requested such a briefing after meeting with the HR crew last February.

I have attached the guidelines developed. In short, the presumption is that 1002 design standards should meet natural stream channel characteristics unless proven otherwise.

David

--

David Wigglesworth

Deputy ARD/Fish & Aquatic Conservation

US FWS Region 7

1011 East Tudor Rd

Anchorage, AK 99503

direct: 907-786-3925

cell: 907-301-3943

0000009827

email: david_wigglesworth@fws.gov

--

John Trawicki

Water Resources Branch Chief

National Wildlife Refuge System, Alaska

U.S. Fish and Wildlife Service

1011 E. Tudor Road

Anchorage, AK 99503

Work: (907) 786-3474

Mobile: (907) 360-1656

"The single biggest problem with communication is the illusion that it has taken place"

George Bernard Shaw

--

David Wigglesworth

Deputy ARD/Fish & Aquatic Conservation

US FWS Region 7

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cell: 907-301-3943

email: david_wigglesworth@fws.gov

--

David Wigglesworth

Deputy ARD/Fish & Aquatic Conservation

US FWS Region 7

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direct: 907-786-3925

cell: 907-301-3943

email: david_wigglesworth@fws.gov

--

John Trawicki

Water Resources Branch Chief

National Wildlife Refuge System, Alaska

U.S. Fish and Wildlife Service

1011 E. Tudor Road

Anchorage, AK 99503

Work: (907) 786-3474

Mobile: (907) 360-1656

"The single biggest problem with communication is the illusion that it has taken place"
George Bernard Shaw

To: Wendy Loya[wendy_loya@fws.gov]
Cc: John Trawicki[john_trawicki@fws.gov]
From: Crane, Drew
Sent: 2018-06-27T13:35:23-04:00
Importance: Normal
Subject: Re: 1002 BMPs
Received: 2018-06-27T13:36:24-04:00

Hi Wendy,

Just FYI, I spoke with David yesterday and he provided Heather a draft document that he found on the printer that actually has nothing to do with the 1002 BMP effort. I'm not sure if current BMP's within NPRA reference the 1991 methodology, so the first paragraph Heather provided may be irrelevant. Her second paragraph likely still applies.

Thanks!

Drew Crane
Regional Endangered Species Coordinator
Alaska Region
U.S. Fish and Wildlife Service
1011 E. Tudor Road
Anchorage, AK 99503
907-786-3323

On Wed, Jun 27, 2018 at 8:31 AM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Heather,

Thank you very much for this info on fish passages! We can take your suggestions to the table as recommended BMPs for the Arctic Refuge. Copying Randy Brown also, who is our team lead for fish, and we will get back to you if we have any questions or concerns.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

0000009830

907.786.3532 (office)

907.277.2942 (mobile)

From: Hanson, Heather <heather_hanson@fws.gov>
Sent: Wednesday, June 27, 2018 8:27 AM
To: Wendy Loya <wendy_loya@fws.gov>
Cc: David Wigglesworth <david_wigglesworth@fws.gov>; John Trawicki <john_trawicki@fws.gov>; Drew Crane <drew_crane@fws.gov>; Mary Colligan <mary_colligan@fws.gov>; Michael Daigneault <michael_daigneault@fws.gov>; Neil Stichert <neil_stichert@fws.gov>
Subject: Re: 1002 BMPs

Hi Wendy.

Thank you for the opportunity to comment on the BMP's for the 1002 area.

The BMP's for fish passage outlined in "Stream Crossing Design Procedure for Fish Streams on the North Slope Coastal Plain" by McDonald et al. (1994) and "Fundamentals of Culvert Design for Passage of Weak Swimming Fish" by Behlke et al. (1991) are based on the hydraulic design method. The hydraulic design method is an outdated method that attempts to match fish swimming ability with the predicted velocity and depth at a road stream crossing to ensure fish passage. This method has not proven very successful as it relies on accurate predictions of the hydrological flow regime. However, the confidence interval on hydrological flow estimates can be plus or minus 100% or more. Using this method to design fish passage structures may result in the installation of new barriers to fish passage.

The USFWS recommends the stream simulation approach for the design of culverts at road stream crossings. The stream simulation approach was developed by the US Forest Service and is outlined in this document "Stream Simulation: An Ecological Approach to Providing Passage for Aquatic Organisms at Road Stream Crossings" U.S. Forest Service. 2008. In addition, the USFWS has developed the attached guidelines for design of stream simulation culverts in Alaska. The attached guidelines focus on the design features of culverts at road stream crossings that are important to ensure fish passage. In addition to the BMP's outlined in these documents for stream simulation design, the design engineer should ensure that crossing structures are designed for aufeis, permafrost, sheet flow, additional freeboard during breakup, and other unique conditions of the arctic environment. To allow for sheet flow and flood plain dynamics and to ensure fish passage and passage of other organisms, bridges are preferred over culverts if technically feasible.

Heather Hanson, P.E.

Fish Passage Engineer

0000009831

Office Tel: 907-271-1630

Cell: 907-891-3765

U.S. Fish and Wildlife Service

4700 BLM Road

Anchorage, AK 99507-2546

On Tue, Jun 26, 2018 at 12:56 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi David et al,

We are working from the NPRA Best Management Practices, but welcome additional BMPs in a similar format if you feel it is important to suggest additional performance standards. If you wanted to understand how they are implemented, you could look to the GMT 1 or GMT2 EISes, where they are put into action on an NPRA project. For BMPs, we could receive any suggestions up through next Tuesday COB, needing time to reconcile and finalize our suggestions by the end of the week (and hopefully taking the holiday off). We will gather Matthew Whitman at BLM's expertise on how well the NPRA BMPs work during the upcoming BLM alternatives workshop.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Wigglesworth, David <david_wigglesworth@fws.gov>
Sent: Tuesday, June 26, 2018 12:37 PM
To: Wendy Loya <wendy_loya@fws.gov>
Cc: John Trawicki <john_trawicki@fws.gov>; Heather Hanson <heather_hanson@fws.gov>; Drew Crane <drew_crane@fws.gov>; Mary Colligan <mary_colligan@fws.gov>; Michael Daigneault <michael_daigneault@fws.gov>; Neil Stichert <Neil_Stichert@fws.gov>
Subject: Re: 1002 BMPs

Also, I saw the NPRA standards being used as our starting point, but what has been drafted to date by us concerning fish passage, culverts etc. We'd need to see these as well.

On Tue, Jun 26, 2018 at 12:32 PM, Wigglesworth, David <david_wigglesworth@fws.gov> wrote:

Hi Wendy, thanks for looping back to us on this issue. I have also included Mike Daigneault in this discussion and Neil. I know things are moving quickly, but it would be most helpful to have a deadline for comments.

David

On Tue, Jun 26, 2018 at 12:26 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Heather and David,

Thank you for putting this issue on your radar! We welcome your suggested edits or additional BMPs that might be necessary, John Trawicki and Randy Brown are the go-to guys for any questions.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Trawicki, John <john_trawicki@fws.gov>
Sent: Tuesday, June 26, 2018 12:14 PM
To: Heather Hanson <heather_hanson@fws.gov>
Cc: Drew Crane <drew_crane@fws.gov>; Wendy Loya <wendy_loya@fws.gov>
Subject: Fwd: 1002 BMPs

Below is the BMP the BLM is currently using for the NPRA. Not sure I can get another acronym in that sentence. We are working on BMPs for the Coastal Plain and are interested in your opinion and recommendation. There is a very fast turn around for a draft, COB tomorrow, but an opportunity to make updates next week if necessary.

Thank you very much

Requirement/Standard: To ensure that crossings provide for fish passage, all proposed crossing designs shall adhere to the best management practices outlined in "Stream Crossing Design Procedure for Fish Streams on the North Slope Coastal Plain" by McDonald et al. (1994), "Fundamentals of Culvert Design for Passage of Weak-Swimming Fish" by Behlke et al. (1991), and other generally accepted best management procedures prescribed by the authorized officer. To adhere to these best management practices, at least 3 years of hydrologic and fish data shall be collected by the lessee for any proposed crossing of a stream whose structure is designed to occur, wholly or partially, below the stream's ordinary high watermark. These data shall include, but are not limited to, the range of water levels (highest and lowest) at the location of the planned crossing, and the seasonal distribution and composition of fish populations using the stream.

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

From: Crane, Drew <drew_crane@fws.gov>
Date: Tue, Jun 26, 2018 at 11:45 AM
Subject: Fwd: 1002 BMPs
To: Wendy Loya <wendy_loya@fws.gov>, John Trawicki <john_trawicki@fws.gov>

0000009834

Hey there,

Something to include in your discussions regarding 1002 BMPs. Let me know if you would like me to follow up with David or Heather on anything.

Thanks!

Drew Crane

Regional Endangered Species Coordinator

Alaska Region

U.S. Fish and Wildlife Service

1011 E. Tudor Road

Anchorage, AK 99503

907-786-3323

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

From: **Wigglesworth, David** <david_wigglesworth@fws.gov>

Date: Tue, Jun 26, 2018 at 9:15 AM

Subject: 1002 BMPs

To: Drew Crane <drew_crane@fws.gov>, "Colligan, Mary" <mary_colligan@fws.gov>

Cc: Michael Daigneault <michael_daigneault@fws.gov>

Would like to recommend that our fish passage engineer review 1002 BMPs relating to culverts and stream crossings. Heather has developed best practice guidance and the plan is to brief Greg on this in July. Greg requested such a briefing after meeting with the HR crew last February.

I have attached the guidelines developed. In short, the presumption is that 1002 design standards should meet natural stream channel characteristics unless proven otherwise.

0000009835

David

--

David Wigglesworth

Deputy ARD/Fish & Aquatic Conservation

US FWS Region 7

1011 East Tudor Rd

Anchorage, AK 99503

direct: 907-786-3925

cell: 907-301-3943

email: david_wigglesworth@fws.gov

--

John Trawicki

Water Resources Branch Chief

National Wildlife Refuge System, Alaska

U.S. Fish and Wildlife Service

1011 E. Tudor Road

Anchorage, AK 99503

Work: (907) 786-3474

Mobile: (907) 360-1656

"The single biggest problem with communication is the illusion that it has taken place"

George Bernard Shaw

--

David Wigglesworth

Deputy ARD/Fish & Aquatic Conservation

US FWS Region 7

1011 East Tudor Rd

Anchorage, AK 99503

direct: 907-786-3925

cell: 907-301-3943

email: david_wigglesworth@fws.gov

--

David Wigglesworth

Deputy ARD/Fish & Aquatic Conservation

US FWS Region 7

1011 East Tudor Rd

Anchorage, AK 99503

direct: 907-786-3925

cell: 907-301-3943

email: david_wigglesworth@fws.gov

To: Wendy Loya[wendy_loya@fws.gov]
Cc: Nichelle Jones[njones@blm.gov]
From: Sarah LaMarr
Sent: 2018-06-27T15:02:30-04:00
Importance: Normal
Subject: Re: File request for Seismic info
Received: 2018-06-27T15:02:51-04:00

The powerpoint is too large so it's being sent as a google drive. I hope you receive it. We also left hard copies with Joshua and Joanna yesterday.

ANWR Seismic Review.pptx

Sarah La Marr
Bureau of Land Management
Arctic District Office
Fairbanks, Alaska
907-474-2334 (desk)
907-888-3407 (cell)
slamarr@blm.gov

On Wed, Jun 27, 2018 at 10:34 AM Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Sarah,

I am hoping you can send the SAE files, particularly the powerpoint, today. I will provide those to the Arctic Refuge Manger, deputy and Oil and gas program coordinator but they will not be distributed to all staff.

Thank you,

Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)

907.277.2942 (mobile)

To: Wendy Loya[wendy_loya@fws.gov]
Cc: Nichelle Jones[njones@blm.gov]
From: Sarah LaMarr
Sent: 2018-06-27T15:05:12-04:00
Importance: Normal
Subject: Re: File request for Seismic info
Received: 2018-06-27T15:05:36-04:00
SAE Responses to BLM Questions-Final-Clean2.docx

Sarah La Marr
Bureau of Land Management
Arctic District Office
Fairbanks, Alaska
907-474-2334 (desk)
907-888-3407 (cell)
slamarr@blm.gov

On Wed, Jun 27, 2018 at 10:34 AM Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Sarah,

I am hoping you can send the SAE files, particularly the powerpoint, today. I will provide those to the Arctic Refuge Manger, deputy and Oil and gas program coordinator but they will not be distributed to all staff.

Thank you,

Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

To: Wendy Loya[wendy_loya@fws.gov]
Cc: Nichelle Jones[njones@blm.gov]
From: Sarah LaMarr
Sent: 2018-06-27T16:34:38-04:00
Importance: Normal
Subject: Re: File request for Seismic info
Received: 2018-06-27T16:35:37-04:00

I'll remove it now.

Sarah La Marr
Bureau of Land Management
Arctic District Office
Fairbanks, Alaska
907-474-2334 (desk)
907-888-3407 (cell)
slamarr@blm.gov

On Wed, Jun 27, 2018 at 12:30 PM Wendy Loya <wendy_loya@fws.gov> wrote:

FYI, you can remove the file from google now that I have downloaded it. It is stored here on a secure drive at FWS requiring my permission to access or share.

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Jones, Nichelle (Shelly) <njones@blm.gov>
Sent: Wednesday, June 27, 2018 12:24 PM
To: Wendy Loya <wendy_loya@fws.gov>
Cc: Sarah LaMarr <slamarr@blm.gov>
Subject: Re: File request for Seismic info

Consult w/ BLM

0000009841

-Shelly

Shelly Jones

Acting Manager

Arctic District Office

222 University Avenue

Fairbanks, AK 99709

(907) 474-2310 (w)

(907) 460 0086 (c)

On Wed, Jun 27, 2018 at 11:52 AM, Wendy Loya <wendy_loya@fws.gov> wrote:

Thank you, got this and the presentation.

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Sarah LaMarr <slamarr@blm.gov>
Sent: Wednesday, June 27, 2018 11:05 AM
To: Wendy Loya <wendy_loya@fws.gov>
Cc: Nichelle Jones <njones@blm.gov>
Subject: Re: File request for Seismic info

Sarah La Marr

Bureau of Land Management

Arctic District Office

Fairbanks, Alaska

907-474-2334 (desk)

907-888-3407 (cell)

slamarr@blm.gov

On Wed, Jun 27, 2018 at 10:34 AM Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Sarah,

I am hoping you can send the SAE files, particularly the powerpoint, today. I will provide those to the Arctic Refuge Manger, deputy and Oil and gas program coordinator but they will not be distributed to all staff.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

To: Wendy Loya[wendy_loya@fws.gov]; Drew Crane[drew_crane@fws.gov]; Ryan Wilson[ryan_r_wilson@fws.gov]; Lemons, Patrick[patrick_lemons@fws.gov]; Colligan, Mary[mary_colligan@fws.gov]
From: Christopher Putnam
Sent: 2018-06-27T19:09:15-04:00
Importance: Normal
Subject: Re: Stips and BMPs - Invitation to collaborate
Received: 2018-06-27T19:09:42-04:00

Hi Wendy,

We've finished making polar bear related edits and comments in the lease stipulations and best management practices documents. Ryan and I added edits and comments in the "polar bear" document. I also added some polar bear and brown bear related edits and comments in the "wildlife" and "operations and reclamation documents". I think we adequately covered the ideas we discussed at the meeting in Fairbanks last week. We could offer more detailed and specific comments, stips, and BMPs regarding oil and gas industry activity, facilities, and infrastructure and their interaction with polar bears and polar bear habitat, but given the extremely short time allowed to complete this task, I we've submitted the best we can do for now. Let us know if you have any questions.

Christopher Putnam
Supervisory Fish and Wildlife Biologist
Marine Mammals Management
U.S. Fish & Wildlife Service
1011 East Tudor Rd, MS 341
Anchorage, AK 99503-6199
907-786-3844 office
907-268-0577 mobile
907-786-3816 fax

"All that is gold does not glitter, not all those who wander are lost; the old that is strong does not wither, deep roots are not reached by the frost."
-- J.R.R. Tolkien

On Thu, Jun 21, 2018 at 4:19 PM Wendy Loya (via Google Drive) <drive-shares-noreply@google.com> wrote:

wendy_loya@fws.gov has invited you to **contribute to** the following shared folder:

Stips and BMPs

Edits due no later than: Wednesday 6/27 4pm

Google Folder with Stipulations and BMPs from NPRA Table 2.3 for FWS Staff Experts to edit for applicability for 1002 area. Please only edit those documents for which you have knowledge and expertise in, all edits should be tracked, but formatting changes can be accepted to keep document as readable as possible.

Thank you, let Wendy know if you have any questions.

Open

Google Drive: Have all your files within reach from any device.

Google LLC, 1600 Amphitheatre Parkway, Mountain View, CA 94043, USA

To: Wendy Loya[wendy_loya@fws.gov]
Cc: Steve Berendzen[steve_berendzen@fws.gov]
From: Joanna Fox
Sent: 2018-06-27T20:05:45-04:00
Importance: Normal
Subject: Draft executive summary
Received: 2018-06-27T20:06:30-04:00

Here's the link to the working document (some text has been added since I sent you the former watermarked draft). Only you, Steve Berendzen, Josh Rose and I have access to it now. I believe the only missing information is the polar bear section, which Steve is now planning to get when he's down in the RO tomorrow.

https://docs.google.com/document/d/1lQmrqCy52FqLsomUmLdWw9LzR5tR_1Ax8BKj4kTic2M/edit?usp_sharing

Joanna L. Fox
Deputy Refuge Manager
Arctic National Wildlife Refuge
101 12th Avenue, Room 236
Fairbanks, AK 99701
(907) 456-0549

Follow us on Facebook!

www.facebook.com/arcticnationalwildliferefuge

"Do what you can, with what you have, where you are." -- Theodore Roosevelt

To: Wendy Loya[wendy_loya@fws.gov]
From: Johnson, Carl
Sent: 2018-06-28T13:49:11-04:00
Importance: Normal
Subject: Re: 1002 RDT meeting Frida 9-11: Webinar link & Agenda
Received: 2018-06-28T13:49:21-04:00

Unfortunately, I will be in an all-day meeting here at OSM and cannot attend.

Carl Johnson, J.D.
Supervisory Program Analyst
Office of Subsistence Management
1011 E. Tudor Road,
Anchorage, AK 99503
(907) 786-3676

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On Thu, Jun 28, 2018 at 9:42 AM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi all,

For those of you unable to join in the Mary Smith Conf room tomorrow for the biweekly *extended* RDT meeting, we will add a webinar component to Friday's meeting to share visual aids during our discussion about Leasing EIS Alternatives, so please log on to the mymeetings.com link as you call in:

Phone: b5 - CIP Participant: b5 - CIP

Web:

b5 - CIP

Agenda items:

1. Timeline check-in for Leasing and Seismic NEPA
2. Quick overview of SAE's draft seismic plan
3. Any questions about QRP/SSP proposals from ARDS?
4. Other items from Region and DC
5. Presentation of ideas from internal alternatives workshop and discussion about what we take to BLM workshop July 9-12

To: Wendy Loya[wendy_loya@fws.gov]
From: Angela Matz
Sent: 2018-06-28T14:03:40-04:00
Importance: Normal
Subject: Fwd: Moving forward with requests for pre-proposals for USGS QRP/SSP
Received: 2018-06-28T14:04:27-04:00
FY2019 PreProposalTemplate 20180514 Alvarez.Matz.docx

Hi Wendy,

I spoke with Dave Alvarez. A rough cost breakdown for this proposal is: 20% salary, 35% logistics/travel/supplies, 45% analysis.

If non-USGS money came in, he'd be willing to help with the chemical analyses. We'd need to hire a couple of techs to get the work done, however, and the costs wouldn't be that much different.

A continuing issue is overhead. The proposal as written contains no overhead.

Thanks!

Angela

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

From: **Angela Matz** <angela_matz@fws.gov>
Date: Fri, Jun 8, 2018 at 9:52 AM
Subject: Fwd: Moving forward with requests for pre-proposals for USGS QRP/SSP
To: Drew Crane <drew_crane@fws.gov>

Hi Drew,

A VERY ROUGH estimate of proportions for the budget for this proposal is 20% salary, 35% logistics/travel/supplies, 45% analysis.

Thanks!
Angela

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

From: Angela Matz <angela_matz@fws.gov>
Date: Thu, May 31, 2018 at 10:11 AM
Subject: Re: Moving forward with requests for pre-proposals for USGS QRP/SSP
To: John Trawicki <john_trawicki@fws.gov>, Drew Crane <drew_crane@fws.gov>

Hi John and Drew,

Please find attached a pre-proposal for baseline contaminants sampling. Let me know if you have questions, and thanks!

Angela

On Tue, May 29, 2018 at 2:11 PM Trawicki, John <john_trawicki@fws.gov> wrote:

Apologize for not having the forms attached last week, could not find the original email.

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

From: **Wendy Loya** <Wendy_loya@fws.gov>

Date: Tue, May 15, 2018 at 10:51 AM

Subject: Moving forward with requests for pre-proposals for USGS QRP/SSP

To: Eric Taylor <eric_taylor@fws.gov>, Drew Crane <drew_crane@fws.gov>, John Trawicki <john_trawicki@fws.gov>

Hi Eric, Drew and John,

The region is now seeking proposals for the Quick Response Program (QRP) and Science Support Partnerships (SSP) for FY2019. These funds are made available annually by the U.S. Geological Survey (USGS) to address priority research needs identified by USFWS. SSP projects can extend over three years while QRP projects must be completed within 18 months and require no more than \$50,000. In FY2019, a total of \$337,746 will be available for projects that advance the best available science for the coastal plain of the Arctic National Wildlife Refuge (1002 area), particularly towards implementing responsible exploration and development of oil and gas resources. Proposed projects can extend beyond the Refuge Coastal Plain if appropriate to answering management questions.

You have been identified by your ARD (or yourself) as the lead for your division to work with your colleagues, including across divisions, to review the list of studies derived from the Resource Assessments ([link](#)) and the Resource Assessments themselves ([link](#)), and to identify which study or studies are a good fit for the QRP/SSP opportunity, including identifying a USGS research partner. Promising projects will then be described in a pre-proposal to be submitted to me, and I will forward these to the RDT for consideration and determining which should be developed into full proposals. Because of the rapid-response nature of the Resource Assessments, there may be additional research needs not on the list that may be proposed.

Naturally, Mig Birds should consider avian studies, and include Chris Latty in discussion; FES should consider at least Polar Bears and Fish; and Refuges should consider projects within the expertise of NWRs and Arctic Refuge staff. Please also consider talking with BLM Arctic Field Office staff with relevant expertise in identifying projects which are appropriate for FWS to conduct, by considering also which studies are typically done by industry to meet their project or site specific needs. We'll work to include a biometrician and data-manager in the full proposal development.

Timeline (proposed):

May 15 - June 1: Project list review, select best fit(s) including possible USGS partner(s)

Jun 4 - 22: Pre-proposal development for best fit project(s)

Jun 25 - Jul 9: RDT review and select

Jul 9 - Aug 30: Full proposal development

Aug 31: Proposals submitted to USGS

I am sure you'll have questions, so don't hesitate to reach out to me and we can also try to have a 30 min group discussion if needed. I hope I am not overlooking any major details...?

Attached is the pre-proposal template. I'll send an invite for us to meet around June 4th to have a look at the suite of projects selected for pre-proposal development.

Thank you,

Wendy

Dr. Wendy M. Loya, Coordinator

Office of Science Applications -Arctic Program

US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

--

John Trawicki
Water Resources Branch Chief
National Wildlife Refuge System, Alaska

U.S. Fish and Wildlife Service
1011 E. Tudor Road
Anchorage, AK 99503
Work: (907) 786-3474
Mobile: (907) 360-1656

"The single biggest problem with communication is the illusion that it has taken place"
George Bernard Shaw

--

Angela Matz, Ph.D.
U.S. Fish and Wildlife Service
4700 BLM Road Anchorage, AK 99507 2546
angela_matz@fws.gov
Phone: 907 271 2778 Cell: 907 750 8527
Fax: 907 271 2786 Toll Free: 1 800 272 4174

--

Angela Matz, Ph.D.
U.S. Fish and Wildlife Service
4700 BLM Road Anchorage, AK 99507 2546
angela_matz@fws.gov
Phone: 907 271 2778 Cell: 907 750 8527
Fax: 907 271 2786 Toll Free: 1 800 272 4174

--

Angela Matz, Ph.D.
U.S. Fish and Wildlife Service
4700 BLM Road Anchorage, AK 99507 2546
angela_matz@fws.gov
Phone: 907 271 2778 Cell: 907 750 8527
Fax: 907 271 2786 Toll Free: 1 800 272 4174

To: Wendy Loya[wendy_loya@fws.gov]
From: Bud Cribley
Sent: 2018-06-28T16:09:05-04:00
Importance: Normal
Subject: Re: 1002 RDT meeting Frida 9-11: Webinar link & Agenda
Received: 2018-06-28T16:09:22-04:00

Wendy,

Sounds like fun, I look forward to the updates.

bud

On Thu, Jun 28, 2018 at 1:42 PM Wendy Loya <wendy_loya@fws.gov> wrote:

Hi all,

For those of you unable to join in the Mary Smith Conf room tomorrow for the biweekly *extended* RDT meeting, we will add a webinar component to Friday's meeting to share visual aids during our discussion about Leasing EIS Alternatives, so please log on to the mymeetings.com link as you call in:

Phone: b5 - CIP Participant: b5 - CIP

Web:

b5 - CIP

Agenda items:

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4. Other items from Region and DC
5. Presentation of ideas from internal alternatives workshop and discussion about what we take to BLM workshop July 9-12

Thank you,

Wendy

To: Sarah Conn[sarah_conn@fws.gov]
From: Wendy Loya
Sent: 2018-06-29T18:24:46-04:00
Importance: Normal
Subject: FW: Updated Seismic Timeline and Example Issue Statements
Received: 2018-06-29T18:24:58-04:00
[Timeline June 26 2018.docx](#)

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Sarah LaMarr <slamarr@blm.gov>
Sent: Wednesday, June 27, 2018 4:34 PM
To: Wendy Loya <wendy_loya@fws.gov>
Cc: Wixon, Donna <dwixon@blm.gov>
Subject: Updated Seismic Timeline and Example Issue Statements

Consult w/BLM



Thanks, sarah

Sarah La Marr
Bureau of Land Management
Arctic District Office
Fairbanks, Alaska
907-474-2334 (desk)
907-888-3407 (cell)
slamarr@blm.gov

0000009858

To: Paul Leonard[paul_leonard@fws.gov]
From: Wendy Loya
Sent: 2018-06-29T19:20:50-04:00
Importance: Normal
Subject: Arctic Refuge DRAFT ADDITIONAL PROTECTIONS THAT APPLY IN SELECT BIOLOGICALLY SENSITIVE AREAS.docx
Received: 2018-06-29T19:20:57-04:00
Arctic Refuge DRAFT ADDITIONAL PROTECTIONS THAT APPLY IN SELECT BIOLOGICALLY SENSITIVE AREAS.docx

This is not entirely correct, but useful for springs

To: Wendy Loya[wendy_loya@fws.gov]
Cc: Sarah Conn[sarah_conn@fws.gov]; Joshua Rose[joshua_rose@fws.gov]; Joanna Fox[joanna_fox@fws.gov]; Mary Colligan[mary_colligan@fws.gov]
From: Steve Berendzen
Sent: 2018-06-29T22:56:35-04:00
Importance: Normal
Subject: Re: Seismic EA: Request for issues statements
Received: 2018-06-29T22:56:37-04:00

Thanks, Wendy- and especially thankful to Sarah & Josh for working on this :)

Sent from my iPhone

On Jun 29, 2018, at 3:15 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Consult w/BLM



Consult w/BLM

Thank you,
Let me know if you have any questions,
Wendy
Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

To: Sarah Conn[sarah_conn@fws.gov]; Steve Berendzen[steve_berendzen@fws.gov]; Joshua Rose[joshua_rose@fws.gov]; Joanna Fox[joanna_fox@fws.gov]; Drew Crane[drew_crane@fws.gov]; Todd Hopkins[todd_hopkins@fws.gov]; John Trawicki[john_trawicki@fws.gov]; Sara Boario[sara_boario@fws.gov]; Stephen Arthur[stephen_arthur@fws.gov]
From: Wendy Loya
Sent: 2018-07-02T20:25:44-04:00
Importance: Normal
Subject: Interesting article on 1002 area/seismic and topography mapping
Received: 2018-07-02T20:25:52-04:00

This came across my Facebook feed, and I thought I would share....

<http://fairbanksfodar.com/detecting-tire-tracks-in-the-1002-area-with-fodar>

Arctic LCC had strained relations over deliverables with Dr. Nolan, but this web article captures a lot in images of what Janet has described.

Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

To: Drew Crane[drew_crane@fws.gov]
From: Wendy Loya
Sent: 2018-07-05T15:05:37-04:00
Importance: Normal
Subject: FW: 2019 USGS QRP/SSP Pre-proposals for 1002 RDT team selection
Received: 2018-07-05T15:05:52-04:00

Part of Consult w/ USGS



See my excel sheet, welcome feedback at meeting on priorities by timeline or whatever

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Wendy Loya <wendy_loya@fws.gov>
Sent: Monday, June 25, 2018 2:24 PM
To: Mary Colligan <mary_colligan@fws.gov>; Mitch Ellis <mitch_ellis@fws.gov>; Eric Taylor <eric_taylor@fws.gov>; Karen Murphy <karen_a_murphy@fws.gov>; Sara Boario <sara_boario@fws.gov>; Greg Siekaniec <greg_siekaniec@fws.gov>; Karen Clark <karen_clark@fws.gov>
Cc: Charla Sterne <charla_sterne@fws.gov>
Subject: 2019 USGS QRP/SSP Pre-proposals for 1002 RDT team selection

Dear Greg, Karen, Mary, Mitch, Eric, Karen M, Sara,

Greg and Karen, I think this is an FYI more than an action item for you, but keeping you in the loop given short timelines and busy summer schedules.

Attached are 8 pre-proposals prepared jointly by FWS and USGS scientists for consideration for 2019 funding. I am also attaching a spreadsheet where they are listed and have a preliminary ranking with regards to POCs perceived applicability to the most immediate timeline. I would like to have a preliminary discussion on Friday 29th in first part of standing 1002 RDT meeting (9am) and work towards a selection process so we can notify FWS and USGS staff on or about July 6th as to which proposals will move to the full development stage. Final proposals due to USGS Aug 31st. We could fund additional projects above the \$337,000 available, would need to add overhead.

Thank you,
Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

To: Steve Berendzen[steve_berendzen@fws.gov]
Cc: Joanna Fox[joanna_fox@fws.gov]; Wendy Loya[wendy_loya@fws.gov]
From: Reed, Jennifer
Sent: 2018-07-05T18:21:40-04:00
Importance: Normal
Subject: Fwd: Recreation Visitation for Arctic Refuge
Received: 2018-07-05T18:21:51-04:00

Part of ongoing consult w/BLM



Jennifer J. Reed

Arctic National Wildlife Refuge Public Use Manager

101 12th Ave, Rm 236
Fairbanks, AK 99701
Telephone: (907) 455 1835
Fax: (907) 456 0428

Interagency Visitor Use Management Council USFWS Representative

Interagency Wild & Scenic River Coordinating Council USFWS Representative

Make Your Splash!

NOTE: This email correspondence and any attachments to and from this sender is subject to the Freedom of Information Act (FOIA) and may be disclosed to third parties.

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

From: Reed, Jennifer <jennifer_reed@fws.gov>
Date: Thu, Jul 5, 2018 at 1:56 PM
Subject: Re: Recreation Visitation for Arctic Refuge
To: Randy Goodwin <rgoodwin@blm.gov>, Nathan Beauchamp <nathan_beauchamp@fws.gov>
Cc: "Spomer, Katherine" <katherine_spomer@fws.gov>

Part of ongoing consult w/BLM



Part of ongoing consult w/BLM



Jennifer J. Reed

Arctic National Wildlife Refuge Public Use Manager

101 12th Ave, Rm 236

Fairbanks, AK 99701

Telephone: (907) 455 1835

Fax: (907) 456 0428

Interagency Visitor Use Management Council USFWS Representative

Interagency Wild & Scenic River Coordinating Council USFWS Representative

Make Your Splash!

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On Thu, Jul 5, 2018 at 10:56 AM, Beauchamp, Nathan <nathan_beauchamp@fws.gov> wrote:

Part of ongoing consult w/BLM



On Thu, Jun 28, 2018 at 7:16 PM, Goodwin, Randy <rgoodwin@blm.gov> wrote:

Part of ongoing consult w/BLM



0000009866

Part of ongoing consult w/BLM

Thank you, Randy

To: Wendy Loya[wendy_loya@fws.gov]
Cc: Mary Colligan[mary_colligan@fws.gov]; Steve Berendzen[steve_berendzen@fws.gov]; Paul Leonard[paul_leonard@fws.gov]
From: Reed, Jennifer
Sent: 2018-07-06T12:49:20-04:00
Importance: Normal
Subject: Re: Example Viewshed model for hulahula river
Received: 2018-07-06T12:49:29-04:00

Based on my limited knowledge of visual resource science this map and your suggestion to bring it forth as an example seem very effective, particularly if BLM were able to expand Paul's initial effort with select points along the river to include the length of the river corridor.

Modeling a visual buffer, and coupling this information with what can be known about noise over distance to model a sound buffer, could help specify the necessity of a recreation buffer size.

Jennifer J. Reed

Arctic National Wildlife Refuge Public Use Manager

101 12th Ave, Rm 236

Fairbanks, AK 99701

Telephone: (907) 455 1835

Fax: (907) 456 0428

Interagency Visitor Use Management Council USFWS Representative

Interagency Wild & Scenic River Coordinating Council USFWS Representative

Make Your Splash!

NOTE: This email correspondence and any attachments to and from this sender is subject to the Freedom of Information Act (FOIA) and may be disclosed to third parties.

On Fri, Jul 6, 2018 at 8:22 AM, Wendy Loya <wendy_loya@fws.gov> wrote:

Dear Mary, Steve and Jen,

Attached is a first draft at a viewshed model by Paul for the Hulahula. Big kudos to him for working through this with a crappy computer and a holiday. It models how visible a 40 ft structure (approx. 3 story building (30ft) with 5 ft airspace over 5 ft gravel pad) would be visible from select points along the river (blue dots). The orange area is the approximate distance to which the building could occur and still be visible. Beyond the orange, the building would not be visible from the blue points (could be visible from points along river not sampled). Clearly Paul was not able to model for every point along the river given time constraints. I am hoping we can take this *as an example* of the type of analysis that should be done in the EIS to evaluate river buffers.

Send thoughts, questions, feedback to Paul and I.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Leonard, Paul <paul_leonard@fws.gov>
Sent: Thursday, July 5, 2018 7:29 PM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: Viewshed

Can discuss as many details as you'd like.

Finest resolution I could practicably do (24m spatial grain) given immediate constraints.
Vertical accuracy is probably less than 1m.

Apologies for the ugly map, I am quite limited with this video card (e.g., see the phantom lines in the map?) I can easily stylize differently though if you'd like.

FYI: this is a high-res map so you can print larger or zoom electronically if you'd like.

Cheers,

Paul

--

Paul Leonard, PhD

Science Coordinator

Arctic LCC

101 12th Ave. Room 216

Fairbanks, AK 99701

(907) 456-0445

To: Wendy Loya[wendy_loya@fws.gov]
Cc: Karen Murphy[karen_a_murphy@fws.gov]
From: Clark, Karen
Sent: 2018-07-06T13:31:11-04:00
Importance: Normal
Subject: Re: Wendy Leave Request July 25th-Aug 8th
Received: 2018-07-06T13:31:58-04:00

Thanks Wendy! Enjoy your time off :)

Karen P. Clark
Deputy Regional Director
U.S. Fish & Wildlife Service- Alaska Region
1011 E Tudor Rd, MS 374
Anchorage, AK 99503
karen_clark@fws.gov
907.786.3542 office
907.786.3493 direct
907.786.3306 fax

On Thu, Jul 5, 2018 at 12:58 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Karen C (cc Karen M),

I am hoping to take leave from July 25th-August 8th, tucked neatly between 1002 EIS deadlines. I am planning a trip in the Arctic Refuge, and will line up someone to be the POC with BLM and the FWS programs, and I can arrange to have a satellite phone if necessary. The Draft EIS review begins on August 9th and runs through 22nd, and I will have a timeline in place for how we can move the review through FWS in the next 1.5 weeks from today.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

To: Joshua Rose[joshua_rose@fws.gov]
Cc: Steve Berendzen[steve_berendzen@fws.gov]; Joanna Fox[joanna_fox@fws.gov]
From: Wendy Loya
Sent: 2018-07-06T14:05:15-04:00
Importance: Normal
Subject: RE: Issue statement schedule
Received: 2018-07-06T14:05:23-04:00

Thanks Josh, that sounds great! Please include me in the July 6th review period ☺

Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Rose, Joshua <joshua_rose@fws.gov>
Sent: Friday, July 6, 2018 9:45 AM
To: Wendy Loya <wendy_loya@fws.gov>
Cc: Steve Berendzen <Steve_Berendzen@fws.gov>; Fox, Joanna <joanna_fox@fws.gov>
Subject: Issue statement schedule

Wendy,

I spoke with Sarah Lamarr at BLM yesterday and want to give you an update on the schedule for the issue statements. In talking with Sarah I learned the proposed action is not expected to be completed for about a week and a half. Since they don't need the issue statements until they have a proposed action Sarah and I agreed to have our issue statements to them by the 18th of July. To meet that deadline here is an updated schedule.

July 6 - review by refuge management
July 9 - review by Regional POC's
July 11 - return to me for assimilation of comments
July 13 - RDT review and surnaming
July 18 - provide issue statements to BLM

Let me know if you have any issues with this.

Thanks,
Josh

--

Joshua Rose
Acting Oil and Gas Coordinator
Arctic National Wildlife Refuge

0000009873

101 12th Ave., Rm 236
Fairbanks, AK 99701
phone: (907) 456-0409

To: Wendy Loya[wendy_loya@fws.gov]
From: Rose, Joshua
Sent: 2018-07-06T14:38:02-04:00
Importance: Normal
Subject: Re: Issue statement schedule
Received: 2018-07-06T14:38:11-04:00

Will do.

On Fri, Jul 6, 2018 at 10:05 AM, Wendy Loya <wendy_loya@fws.gov> wrote:

Thanks Josh, that sounds great! Please include me in the July 6th review period 😊

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Rose, Joshua <joshua_rose@fws.gov>
Sent: Friday, July 6, 2018 9:45 AM
To: Wendy Loya <wendy_loya@fws.gov>
Cc: Steve Berendzen <Steve_Berendzen@fws.gov>; Fox, Joanna <joanna_fox@fws.gov>
Subject: Issue statement schedule

Wendy,

I spoke with Sarah Lamarr at BLM yesterday and want to give you an update on the schedule for the issue statements. In talking with Sarah I learned the proposed action is not expected to be completed for about a week and a half. Since they don't need the issue statements until they have a proposed action Sarah and I agreed to have our issue statements to them by the 18th of July. To meet that deadline here is an updated schedule.

0000009875

July 6 - review by refuge management

July 9 - review by Regional POC's

July 11 - return to me for assimilation of comments

July 13 - RDT review and surnaming

July 18 - provide issue statements to BLM

Let me know if you have any issues with this.

Thanks,

Josh

--

Joshua Rose

Acting Oil and Gas Coordinator

Arctic National Wildlife Refuge

101 12th Ave., Rm 236

Fairbanks, AK 99701

phone: (907) 456-0409

--

Joshua Rose

Acting Oil and Gas Coordinator

Arctic National Wildlife Refuge

101 12th Ave., Rm 236

Fairbanks, AK 99701

phone: (907) 456-0409

To: Mary Colligan[mary_colligan@fws.gov]; Steve Berendzen[steve_berendzen@fws.gov]
From: Wendy Loya
Sent: 2018-07-09T10:23:16-04:00
Importance: Normal
Subject: Current draft of Stips table 070918
Received: 2018-07-09T10:23:27-04:00
Arctic Refuge Coastal Plain DRAFT Table of Stips and BMPs 070918.docx

A few updates over the weekend. I don't have printed copies, but can bring some on Tuesday for us.

DRAFT date 070918.

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

To: Sarah Conn[sarah_conn@fws.gov]; Joshua Rose[joshua_rose@fws.gov]
Cc: Steve Berendzen[steve_berendzen@fws.gov]; Joanna Fox[joanna_fox@fws.gov]
From: Wendy Loya
Sent: 2018-07-09T10:26:35-04:00
Importance: Normal
Subject: Re: NPRA snow depth requirement (best management Practice)
Received: 2018-07-09T10:27:08-04:00
[HulaHulaApril2017 - 1 \(1\).jpg](#)
[HulaHulaApril2017 - 1.jpg](#)
[lvoMelt2000.dat](#)

Hi Sarah and Josh,

To follow up and continue forward on the winter tundra travel issue, here is an update that you can share with your team working on this issue. [Consult w/ BLM \(Related to ongoing consult\)](#)

[Consult w/ BLM \(related to ongoing consult\)](#)



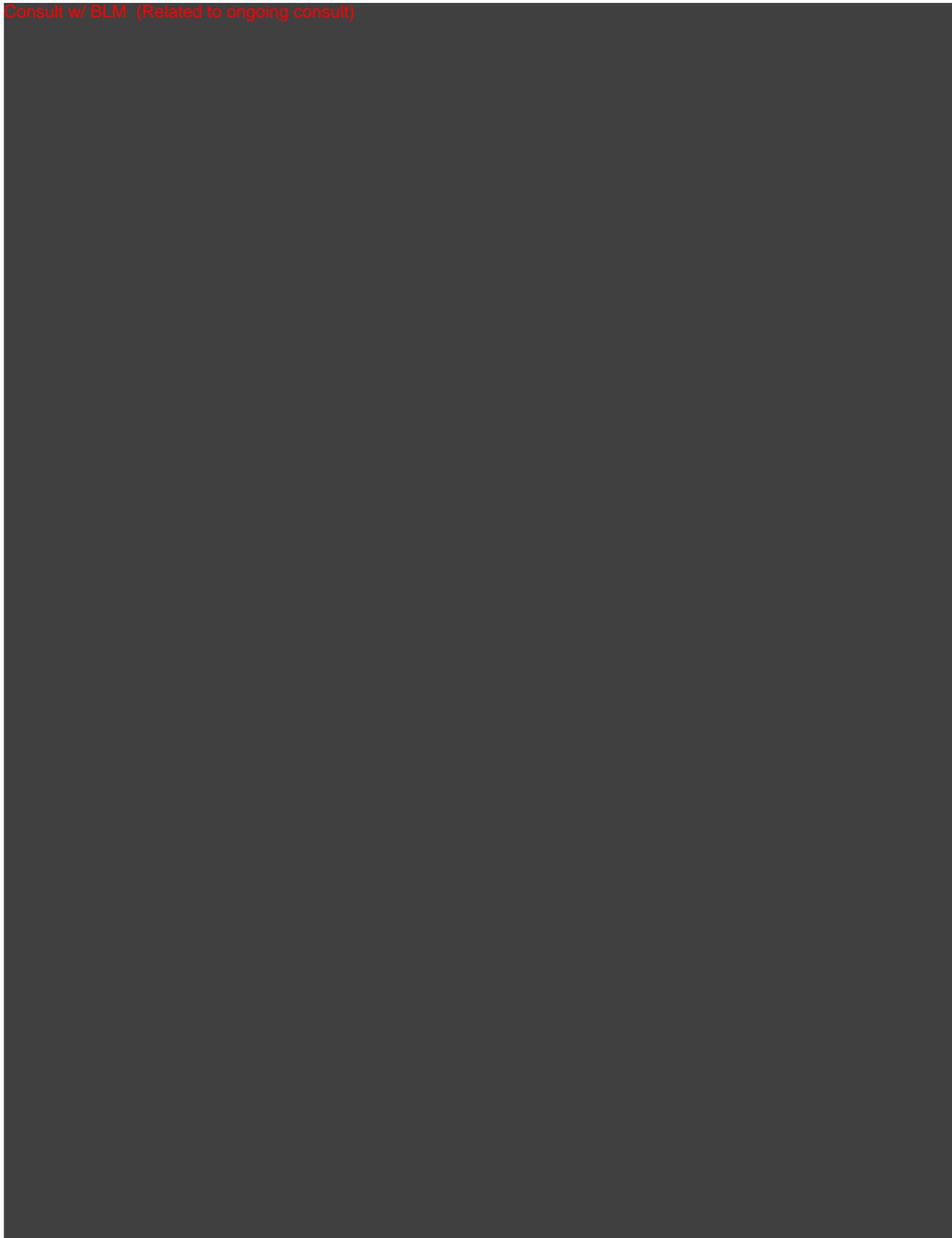
Consult w/ BLM (Related to ongoing consult)



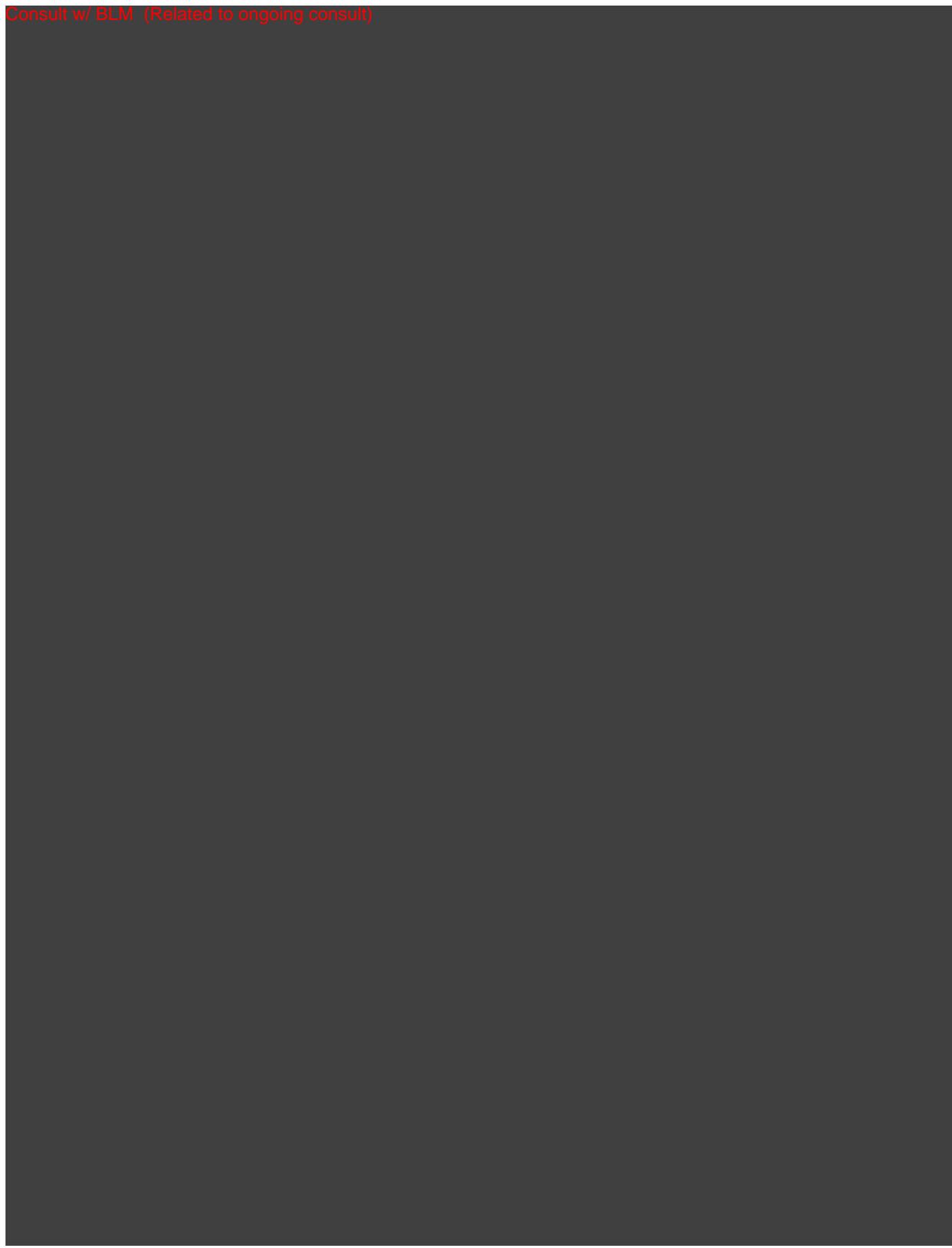
Consult w/ BLM (Related to ongoing consult)

Consult w/ BLM (Related to ongoing consult)

Consult w/ BLM (Related to ongoing consult)



Consult w/ BLM (Related to ongoing consult)



Consult w/ BLM (Related to ongoing consult)



To: Wendy Loya[wendy_loya@fws.gov]; Mary Colligan[mary_colligan@fws.gov]; Lor, Socheata[socheata_lor@fws.gov]; Drew Crane[drew_crane@fws.gov]
Cc: Eric Taylor[eric_taylor@fws.gov]
From: Osnas, Erik
Sent: 2018-07-09T16:32:01-04:00
Importance: Normal
Subject: MBM review of FY2019 SSP and QRP pre-proposals
Received: 2018-07-09T16:32:11-04:00
[FY19 SSP and QRP proposals MBM comments 9 July 2018.docx](#)

Hello,
Please find attached review comments on the FY19 SSP and QRP proposals from Migratory Bird Management. If you have any questions, please try to contact Eric Taylor, who is at FWS HQ this week. Thanks,

Erik

Erik Osnas
Supervisory Wildlife Biologist (Biometrician)
Division of Migratory Bird Management, Region 7
U.S. Fish and Wildlife Service
1011 E. Tudor Road, MS 201
Anchorage, Alaska 99503 6199
907 786 3853 (office)
907 312 3504 (cell)
erik_osnas@fws.gov

To: Wendy Loya[wendy_loya@fws.gov]
From: Gray, Stephen
Sent: 2018-07-09T18:01:23-04:00
Importance: Normal
Subject: Re: Arctic Snow studies
Received: 2018-07-09T18:01:33-04:00

No worries. I completely understand...
Hope the meeting goes well,
Steve

Stephen T. Gray, Ph.D.
Director
Alaska Climate Adaptation Science Center
DOI/US Geological Survey
Anchorage, AK
Phone: +1-907-301-7830
sgray@usgs.gov

On Mon, Jul 9, 2018 at 1:57 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Apologies, when I read your email earlier I interpreted it as 2pm today. Paul should be back tomorrow.
Sorry!

Dr. Wendy M. Loya, Coordinator
Office of Science Applications- Arctic Program
Anchorage, Alaska
[907.786.3532](tel:907.786.3532) (office)
[907.227.2942](tel:907.227.2942) (mobile)

On Jul 9, 2018, at 13:40, Gray, Stephen <sgray@usgs.gov> wrote:

Call was scheduled for tomorrow if that helps.
Steve

Stephen T. Gray, Ph.D.
Director
Alaska Climate Adaptation Science Center
DOI/US Geological Survey
Anchorage, AK
Phone: +1-907-301-7830
sgray@usgs.gov

On Mon, Jul 9, 2018 at 1:36 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

I just got a text from Paul and he is not able to make the call today. He will work with you to reschedule. I am in a workshop Mon thru Thursday this week, and can't join today.

Apologies,
Wendy

Dr. Wendy M. Loya, Coordinator
Office of Science Applications- Arctic Program
Anchorage, Alaska
907.786.3532 (office)
907.227.2942 (mobile)

On Jul 9, 2018, at 09:39, Gray, Stephen <sgray@usgs.gov> wrote:

Looks like we are still on for 2:00, unless I hear otherwise by COB today. If it's just Paul on the line, I'll call your office number directly. If it turns out that Karen can join us as well, I'll send out info for a conference line.

Many thanks,
Steve

Stephen T. Gray, Ph.D.
Director
Alaska Climate Adaptation Science Center
DOI/US Geological Survey
Anchorage, AK
Phone: +1-907-301-7830
sgray@usgs.gov

On Mon, Jul 2, 2018 at 11:14 AM, Gray, Stephen <sgray@usgs.gov> wrote:

Great. Let's plan on 2-3:00 for the moment. I'll confirm and get back to you.

Best,
Steve

Stephen T. Gray, Ph.D.
Director
Alaska Climate Adaptation Science Center
DOI/US Geological Survey
Anchorage, AK
Phone: +1-907-301-7830
sgray@usgs.gov

On Mon, Jul 2, 2018 at 1:11 PM, Leonard, Paul <paul_leonard@fws.gov> wrote:

Hi Stephen,
This sounds like a good opportunity.

I'll be available to do a call-in from Fairbanks. I also prefer the 2-4 slot.

Cheers,
Paul

On Mon, Jul 2, 2018 at 10:25 AM, Littell, Jeremy <jlittell@usgs.gov> wrote:

I'm available, with a solid preference for 2-4, but 9-10 could work.
JL

Jeremy S. Littell

USGS Research Ecologist

Lead Research Scientist
DOI Alaska Climate Adaptation Science Center

jlittell@usgs.gov
907.360.9416

Alaska Climate Science Center
[4210 University Drive](#)
[Anchorage, AK 99508](#)

On Mon, Jul 2, 2018 at 9:48 AM, Gray, Stephen <sgray@usgs.gov> wrote:

Consult w/ USGS



Looks like 9:00-10:00 and 2-4:00 are open for Doug and me on 7/10.

Best,
Steve

Stephen T. Gray, Ph.D.
Director
Alaska Climate Adaptation Science Center
DOI/US Geological Survey
Anchorage, AK
Phone: +1-907-301-7830
sgray@usgs.gov

On Mon, Jun 11, 2018 at 6:58 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Let's do 1030 AK. Thank you for helping make that work. I will send out a teleconference number by tomorrow morning

Dr. Wendy M. Loya, Coordinator
Office of Science Applications- Arctic Program
Anchorage, Alaska
[907.786.3532](tel:907.786.3532) (office)
[907.227.2942](tel:907.227.2942) (mobile)

On Jun 11, 2018, at 16:54, Jeremy Littell <jlittell@usgs.gov> wrote:

Our lunch break is scheduled from 12:30-1:30 MT time and I cannot skip the session right before. Would 10:30 or so work?
JL

Sent from something with buttons too small for my thumbs

On Jun 11, 2018, at 4:56 PM, Murphy, Karen <karen_a_murphy@fws.gov> wrote:

That would work for me.

*Karen A Murphy
Science Applications
907-786-3501*

0000009890

karen_a_murphy@fws.gov

On Mon, Jun 11, 2018 at 1:54 PM, Wendy Loya
<wendy_loya@fws.gov> wrote:

Are we able to meet tomorrow by
phone at 10am AK or 12 MT?

Thanks!

wEndy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US
Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Stephen Gray
[mailto:sgray@usgs.gov]

Sent: Wednesday, June 6, 2018 7:27 AM
To: Littell, Jeremy <jlittell@usgs.gov>
Cc: Wendy Loya <wendy_loya@fws.gov>; Karen Murphy
<karen_a_murphy@fws.gov>; Paul
Leonard <paul_leonard@fws.gov>

Subject: Re: Arctic Snow studies

Would Tuesday work better? Jeremy and I will both be in Montana by
that point. We're having issues

0000009891

accessing the agenda for the meeting we'll be attending, but I predict we'd have breaks around 8:30 and 10:00 AKDT.

Steve

Sent from my iPhone

On Jun 5, 2018, at 8:02 PM, Littell, Jeremy <jlittell@usgs.gov> wrote:

I don't yet know what my schedule looks like - I'll be in Montana working with a colleague that day. Ideally, earlier in the day would be better, but due to the time difference it won't be all that early there even if it is here in AK.

Jeremy

Jeremy S. Littell

USGS Research
Ecologist

Lead Research Scientist

DOI Alaska Climate
Adaptation Science
Center

jlittell@usgs.gov

907.360.9416

Alaska Climate Science
Center

4210 University Drive

Anchorage, AK 99508

On Tue, Jun 5, 2018 at
10:44 AM, Wendy Loya
<wendy_loya@fws.gov
> wrote:

Monday would be great.
If you can suggest a time
that works for you and
Jeremy, Paul and I can
make it work.

Dr. Wendy M. Loya,

Arctic Program
Coordinator

Office of Science
Applications, US Fish
and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Stephen Gray
[mailto:sgray@usgs.gov]

Sent: Tuesday, June 5, 2018 10:40 AM

0000009893

To: Wendy Loya <wendy_loya@fws.gov>

Cc: Jeremy Littell <jlittell@usgs.gov>; Karen Murphy
<karen_a_murphy@fws.gov>; Leonard, Paul
<paul_leonard@fws.gov>

Subject: Re: Arctic Snow studies

Consult w/ USGS



Best,

Steve

Sent from my iPhone

On Jun 5, 2018, at 10:30 AM, Wendy Loya

<wendy_loya@fws.gov>
> wrote:

Hi Steve
and
Jeremy,

The Arctic
LCC (now
the Arctic
Program)
is looking
for
partners to
help with
snow
studies,

monitoring
and
modeling
for the
Arctic
Refuge
Coastal
Plain (i.e.
1002 area)
and wanted
to touch
base on
any work
that the
Climate
Science
Center
may have
in
progress.
We have
been
working
informally
with
Matthew
Sturm at
UAF
Geophysic
al Institute
who did
some field
work and
Structure
for Motion
imagery
this past
April.
Moving
forward,
we have
the
following
objectives:

1) to examine the existing data on snow distribution and density and methods for monitoring snow on the Arctic coastal plain of Alaska via remote sensing and in-situ methods;

2) to identify snow monitoring needs and techniques for this region to guide management decisions related to oil and gas exploration and development;

3) further down the road, we would be interested in coupling snow and hydrologic monitoring in selected

river basins
to delineate
changing
trends that
might
impact fish
populations
and habitat
for nesting
waterbirds.

The
timeline on
the first two
is tight, as
we we have
an
application
for winter
seismic
exploration.

We have
funding to
contribute
to this
project, but
are looking
ways to
work with
Matthew
and others
on meeting
our
objectives.

With that
introduction,
perhaps
we could
find time to
talk about
any work
you all have
that might

be related
or planned,
and
potential
pathways
for
collaboratio
n?

Thank you,

Wendy

Dr.
Wendy M.
Loya,
Coordinat
or

Office of
Science
Applicatio
ns -Arctic
Program

US Fish
and
Wildlife
Service

Anchorag
e, Alaska

907.786.3
532
(office)

907.277.2
942
(mobile)

--

Paul Leonard, PhD
Science Coordinator

Arctic LCC

101 12th Ave. Room 216

Fairbanks, AK 99701

(907) 456-0445

To: Wendy Loya[wendy_loya@fws.gov]
From: Taylor, Eric
Sent: 2018-07-09T19:06:17-04:00
Importance: Normal
Subject: Fwd: MBM review of FY2019 SSP and QRP pre-proposals
Received: 2018-07-09T19:06:26-04:00
FY19 SSP and QRP proposals MBM comments 9 July 2018.docx

Hi Wendy

In hindsight I should have sent you separate documents so you can forward them to the authors/co authors. I am traveling but do you want Erik to do this or do you mind? I don't think my reviews on all proposals should be sent to all authors in one document. Sorry.

Eric

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

From: Osnas, Erik <erik_osnas@fws.gov>
Date: Mon, Jul 9, 2018 at 12:32 PM
Subject: MBM review of FY2019 SSP and QRP pre-proposals
To: Wendy Loya <wendy_loya@fws.gov>, Mary Colligan <mary_colligan@fws.gov>, "Lor, Socheata" <socheata_lor@fws.gov>, Drew Crane <drew_crane@fws.gov>
Cc: Eric Taylor <eric_taylor@fws.gov>

Hello,

Please find attached review comments on the FY19 SSP and QRP proposals from Migratory Bird Management. If you have any questions, please try to contact Eric Taylor, who is at FWS HQ this week. Thanks,

Erik

Erik Osnas
Supervisory Wildlife Biologist (Biometrician)
Division of Migratory Bird Management, Region 7
U.S. Fish and Wildlife Service
1011 E. Tudor Road, MS 201
Anchorage, Alaska 99503 6199
907 786 3853 (office)
907 312 3504 (cell)
erik_osnas@fws.gov

0000009900

To: Sarah LaMarr[slamarr@blm.gov]; Joshua Rose[joshua_rose@fws.gov]; Donna Wixon[dwixon@blm.gov]; Joanna Fox[joanna_fox@fws.gov]; Steve Berendzen[steve_berendzen@fws.gov]
From: Wendy Loya
Sent: 2018-07-09T20:48:14-04:00
Importance: Normal
Subject: RE: Tomorrow's Seismic EA Check In
Received: 2018-07-09T20:48:21-04:00

Hi Sarah,

Steve B and I are in the Alternatives workshop, and our EIS call is cancelled this week. I will leave it to Josh and Joanna to decide to meet

Thank you for the updated schedule.

Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

From: Sarah LaMarr <slamarr@blm.gov>
Sent: Monday, July 9, 2018 3:44 PM
To: Rose, Joshua <joshua_rose@fws.gov>; Wendy Loya <wendy_loya@fws.gov>; Wixon, Donna <dwixon@blm.gov>; Joanna Fox <joanna_fox@fws.gov>; Steve Berendzen <steve_berendzen@fws.gov>
Subject: Tomorrow's Seismic EA Check In

Hi folks -

Do you folks have a Coastal Plain EIS call tomorrow? Were you planning on coming to the BLM or are you folks involved in the Coastal Plain EIS alternative development workshop this week?

I'm assuming you're involved in the EIS alternative workshop but, if not, we may want to cancel our meeting tomorrow. Both Donna and Shelly will be out but I'm more than happy to chat if you want/need too!

Josh - attached is the BLM NEPA handbook that I promised to send. There's a good discussion on issues (page 40). I'm also attaching a good discussion specifically on issues.

Sarah La Marr
Bureau of Land Management
Arctic District Office
Fairbanks, Alaska

0000009901

907-474-2334 (desk)
907-888-3407 (cell)
slamarr@blm.gov

To: Colligan, Mary[mary_colligan@fws.gov]; Wendy Loya[wendy_loya@fws.gov]; Eric Taylor[eric_taylor@fws.gov]; Crane, Drew[drew_crane@fws.gov]
Cc: Stephen Arthur[stephen_arthur@fws.gov]
From: Lor, Socheata
Sent: 2018-07-09T21:03:41-04:00
Importance: Normal
Subject: Fwd: Porcupine caribou QRP
Received: 2018-07-09T21:04:21-04:00

Hi All,

I spoke with Steve this afternoon and asked him to summarize what he shared with me over the phone. **bs - DP**
[REDACTED]
[REDACTED]
[REDACTED]?

This project seems to have merit in adding value to the information on caribou and very relevant to the issues in the 1002 area.

Soch

~~~~~  
*Socbeata Lor, Ph.D.*  
*Deputy Assistant Regional Director Region 7*  
*National Wildlife Refuge System*  
*U.S. Fish and Wildlife Service*  
*1011 E. Tudor Road*  
*Anchorage, AK 99503*  
*Office: 907.786.3420*  
*Cell: 907.891.6194*  
~~~~~

----- Forwarded message -----
From: Arthur, Stephen <stephen_arthur@fws.gov>
Date: Mon, Jul 9, 2018 at 4:15 PM
Subject: Porcupine caribou QRP
To: Socheata Lor <socheata_lor@fws.gov>

Here is a brief description of how this proposal differs from previous work:
Most of the past research on calving habitat use by the PCH has consisted of large-scale assessments of vegetation phenology (measured by NDVI) on the calving grounds. We propose a finer-scale approach that will assess use and selection of individual vegetation communities as well as geographic parameters such as terrain features, distance to the coast and to the mountains, and snow cover. In particular, snow cover is likely to be a major determinant of caribou distribution (based on observations from the field) but this has not been included in past studies due to the lack of available data on snow conditions over such a large, remote area. We propose to use weekly snow cover data that have become available since 2000 to develop models

of caribou habitat use and selection under varying conditions of snow cover. We also plan to assess how annual use of habitats during recent years has affected calf survival during the first month of life, and we will include an analysis of habitat selection during the post-calving period (mid June to mid July). The goal of this work is to assess the potential effects of displacing caribou from preferred calving grounds at the scale of vegetation communities (as opposed to large-scale geographic displacement), and how those effects might vary according to different weather patterns (i.e., early vs. delayed snow melt).

Let me know if you have any other questions.

Regards,

Stephen M. Arthur, Ph.D.

*Supervisory Wildlife Biologist
Arctic National Wildlife Refuge
101 12th Ave., Room 236
Fairbanks, AK 99701
(907)455-1830*

To: Sarah LaMarr[slamarr@blm.gov]
Cc: Rose, Joshua[joshua_rose@fws.gov]; Wendy Loya[wendy_loya@fws.gov]; Wixon, Donna[dwixon@blm.gov]; Joanna Fox[joanna_fox@fws.gov]
From: Steve Berendzen
Sent: 2018-07-09T22:26:52-04:00
Importance: Normal
Subject: Re: Tomorrow's Seismic EA Check In
Received: 2018-07-09T22:27:01-04:00

Sarah, I'm at the alternatives workshop, & I don't think Nicole plans on a coordination call tomorrow. I can't speak for Joanna & Josh on a seismic meeting

Sent from my iPhone

> On Jul 9, 2018, at 3:44 PM, Sarah LaMarr <slamarr@blm.gov> wrote:
>
> Hi folks -
>
> Do you folks have a Coastal Plain EIS call tomorrow? Were you planning on
> coming to the BLM or are you folks involved in the Coastal Plain EIS
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> a good discussion on issues (page 40). I'm also attaching a good
> discussion specifically on issues.
>
> Sarah La Marr
> Bureau of Land Management
> Arctic District Office
> Fairbanks, Alaska
> 907-474-2334 (desk)
> 907-888-3407 (cell)
> slamarr@blm.gov
> <NEPAHandbook_H-1790_508.pdf>
> <Issue Discussion.pdf>

To: Steve Berendzen[steve_berendzen@fws.gov]
Cc: Rose, Joshua[joshua_rose@fws.gov]; Wendy Loya[wendy_loya@fws.gov]; Wixon, Donna[dwixon@blm.gov]; Joanna Fox[joanna_fox@fws.gov]
From: Sarah LaMarr
Sent: 2018-07-10T11:46:57-04:00
Importance: Normal
Subject: Re: Tomorrow's Seismic EA Check In
Received: 2018-07-10T11:47:18-04:00

Thanks everyone - after chatting with Josh, we decided to cancel the meeting for this week. Good luck with the Coastal Plain meetings and we'll see you all next Tuesday!

Sarah La Marr
Bureau of Land Management
Arctic District Office
Fairbanks, Alaska
907-474-2334 (desk)
907-888-3407 (cell)
slamarr@blm.gov

On Mon, Jul 9, 2018 at 6:26 PM Steve Berendzen <steve_berendzen@fws.gov> wrote:

Sarah, I'm at the alternatives workshop, & I don't think Nicole plans on a coordination call tomorrow. I can't speak for Joanna & Josh on a seismic meeting

Sent from my iPhone

> On Jul 9, 2018, at 3:44 PM, Sarah LaMarr <slamarr@blm.gov> wrote:
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> a good discussion on issues (page 40). I'm also attaching a good
> discussion specifically on issues.
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> Sarah La Marr
> Bureau of Land Management
> Arctic District Office

- > Fairbanks, Alaska
- > 907-474-2334 (desk)
- > 907-888-3407 (cell)
- > slamarr@blm.gov
- > <NEPAHandbook_H-1790_508.pdf>
- > <Issue Discussion.pdf>

To: Stephen Gray[sgray@usgs.gov]
Cc: Murphy, Karen[karen_a_murphy@fws.gov]; Wendy Loya[wendy_loya@fws.gov]; Littell, Jeremy[jlittell@usgs.gov]
From: Leonard, Paul
Sent: 2018-07-10T13:26:20-04:00
Importance: Normal
Subject: Re: Arctic Snow studies
Received: 2018-07-10T13:27:00-04:00

Sounds Great.
Thanks.

Cheers,
Paul

On Tue, Jul 10, 2018 at 6:52 AM, Stephen Gray <sgray@usgs.gov> wrote:

Welcome back! If it's just you and Paul, I should be able to conference you in from my office phone.

Paul and Karen- I'll dial your offices at 2:00, unless I hear otherwise.

Many thanks,
Steve

Sent from my iPhone

On Jul 10, 2018, at 6:44 AM, Murphy, Karen <karen_a_murphy@fws.gov> wrote:

I can join in at 2:00pm today. Do you already have a call in number set up?

Karen A Murphy
Science Applications
907-786-3501
karen_a_murphy@fws.gov

On Mon, Jul 9, 2018 at 1:57 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Apologies, when I read your email earlier I interpreted it as 2pm today. Paul should be back tomorrow.

Sorry!

Dr. Wendy M. Loya, Coordinator
Office of Science Applications- Arctic Program
Anchorage, Alaska
[907.786.3532](tel:907.786.3532) (office)
[907.227.2942](tel:907.227.2942) (mobile)

On Jul 9, 2018, at 13:40, Gray, Stephen <sgray@usgs.gov> wrote:

Call was scheduled for tomorrow if that helps.
Steve

Stephen T. Gray, Ph.D.
Director
Alaska Climate Adaptation Science Center
DOI/US Geological Survey
Anchorage, AK
Phone: +1-907-301-7830
sgray@usgs.gov

On Mon, Jul 9, 2018 at 1:36 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

I just got a text from Paul and he is not able to make the call today. He will work with you to reschedule. I am in a workshop Mon thru Thursday this week, and can't join today.
Apologies,
Wendy

Dr. Wendy M. Loya, Coordinator
Office of Science Applications- Arctic Program
Anchorage, Alaska
[907.786.3532](tel:907.786.3532) (office)
[907.227.2942](tel:907.227.2942) (mobile)

On Jul 9, 2018, at 09:39, Gray, Stephen <sgray@usgs.gov> wrote:

Looks like we are still on for 2:00, unless I hear otherwise by COB today. If it's just Paul on the line, I'll call your office number directly. If it turns out that Karen can join us as well, I'll send out info for a conference line.
Many thanks,
Steve

Stephen T. Gray, Ph.D.
Director
Alaska Climate Adaptation Science Center
DOI/US Geological Survey
Anchorage, AK
Phone: +1-907-301-7830

sgray@usgs.gov

On Mon, Jul 2, 2018 at 11:14 AM, Gray, Stephen <sgray@usgs.gov> wrote:

Great. Let's plan on 2-3:00 for the moment. I'll confirm and get back to you.

Best,
Steve

Stephen T. Gray, Ph.D.
Director
Alaska Climate Adaptation Science Center
DOI/US Geological Survey
Anchorage, AK
Phone: +1-907-301-7830
sgray@usgs.gov

On Mon, Jul 2, 2018 at 1:11 PM, Leonard, Paul <paul_leonard@fws.gov> wrote:

Hi Stephen,
This sounds like a good opportunity.

I'll be available to do a call-in from Fairbanks. I also prefer the 2-4 slot.

Cheers,
Paul

On Mon, Jul 2, 2018 at 10:25 AM, Littell, Jeremy <jlittell@usgs.gov> wrote:

I'm available, with a solid preference for 2-4, but 9-10 could work.
JL

Jeremy S. Littell

USGS Research Ecologist

Lead Research Scientist
DOI Alaska Climate Adaptation Science Center

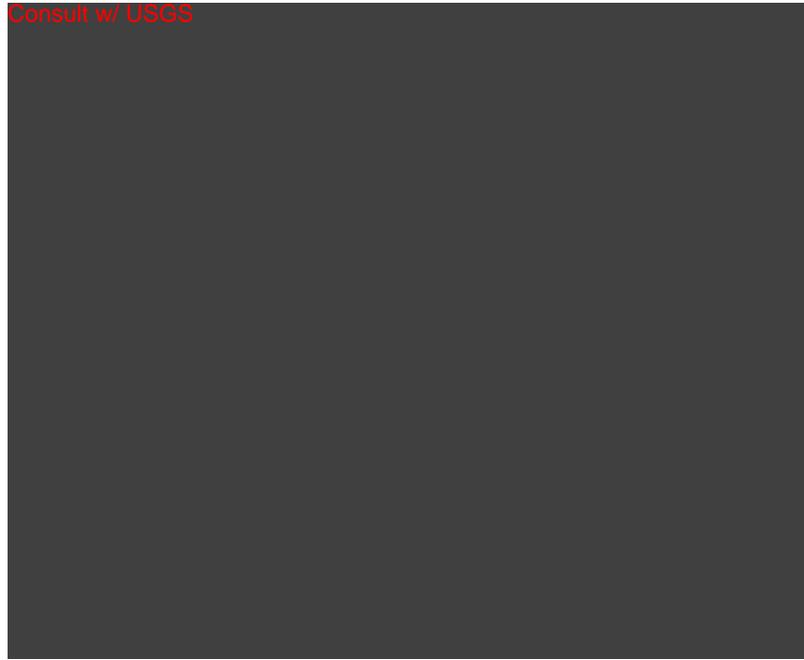
jlittell@usgs.gov
907.360.9416

Alaska Climate Science Center

4210 University Drive
Anchorage, AK 99508

On Mon, Jul 2, 2018 at 9:48 AM, Gray, Stephen <sgray@usgs.gov> wrote:

Consult w/ USGS



Looks like 9:00-10:00 and 2-4:00 are open for Doug and me on 7/10.

Best,
Steve

Stephen T. Gray, Ph.D.
Director
Alaska Climate Adaptation Science Center
DOI/US Geological Survey
Anchorage, AK
Phone: +1-907-301-7830
sgray@usgs.gov

On Mon, Jun 11, 2018 at 6:58 PM, Wendy Loya <wendy_loya@fws.gov>
wrote:

Let's do 1030 AK. Thank you for helping make
that work. I will send out a teleconference
number by tomorrow morning

Dr. Wendy M. Loya, Coordinator

0000009911

Office of Science Applications- Arctic Program
Anchorage, Alaska
907.786.3532 (office)
907.227.2942 (mobile)

On Jun 11, 2018, at 16:54, Jeremy Littell <jlittell@usgs.gov> wrote:

Our lunch break is scheduled from
12:30-1:30 MT time and I cannot
skip the session right before. Would
10:30 or so work?
JL

Sent from something with buttons too small for my thumbs

On Jun 11, 2018, at 4:56 PM, Murphy, Karen
<karen_a_murphy@fws.gov> wrote:

That would work for
me.

Karen A Murphy
Science Applications
907-786-3501
karen_a_murphy@fws.gov

On Mon, Jun 11, 2018 at 1:54 PM, Wendy Loya
<wendy_loya@fws.gov
> wrote:

Are we able to meet
tomorrow by phone at
10am AK or 12 MT?

Thanks!

wEndy

Dr. Wendy M. Loya,

Arctic Program
Coordinator

Office of Science
Applications, US Fish
and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Stephen Gray
[mailto:sgray@usgs.gov]

Sent: Wednesday, June 6, 2018 7:27 AM

To: Littell, Jeremy <jlittell@usgs.gov>

Cc: Wendy Loya <wendy_loya@fws.gov>; Karen Murphy
<karen_a_murphy@fws.gov>; Paul Leonard
<paul_leonard@fws.gov>

Subject: Re: Arctic Snow studies

Would Tuesday work better? Jeremy and I will both be in Montana by that point. We're having issues accessing the agenda for the meeting we'll be attending, but I predict we'd have breaks around 8:30 and 10:00 AKDT.

Steve

Sent from my iPhone

On Jun 5, 2018, at 8:02 PM, Littell, Jeremy <jlittell@usgs.gov> wrote:

I don't yet
know what
my
schedule
looks like -
I'll be in
Montana
working
with a
colleague
that day.
Ideally,
earlier in
the day
would be
better, but
due to the
time
difference
it won't be
all that
early there
even if it is
here in
AK.

Jeremy

Jeremy S.
Littell

USGS
Research
Ecologist

Lead
Research
Scientist

DOI
Alaska

Climate
Adaptation
Science
Center

jlittell@us
gs.gov

907.360.94
16

Alaska
Climate
Science
Center

4210
University
Drive

Anchorage
, AK
99508

On Tue,
Jun 5,
2018 at
10:44 AM,
Wendy
Loya
<wendy_lo
ya@fws.go
v> wrote:

Monday
would be
great. If
you can

suggest a time that works for you and Jeremy, Paul and I can make it work.

Dr.
Wendy M.
Loya,

Arctic
Program
Coordinator

Office of
Science
Applications, US
Fish and
Wildlife
Service

Anchorage,
Alaska

907.786.3
532
(office)

907.277.2
942
(mobile)

From:
Stephen
Gray
[mailto:sggray@usgs.gov]

Sent: Tuesday, June 5, 2018 10:40 AM
To: Wendy Loya <wendy_loya@fws.gov>

Cc: Jeremy Littell <jlittell@usgs.gov>; Karen Murphy

<karen_a_murphy@fws.gov>;
Leonard,
Paul
<paul_leonard@fws.gov>

Subject: Re: Arctic Snow studies

Consult w/ USGS



Best,

Steve

Sent from my iPhone

On Jun 5, 2018, at 10:30 AM, Wendy Loya

<wendy_loya@fws.gov>
wrote:

Hi Steve and Jeremy,

The Arctic LCC (now the Arctic Program) is looking for partners to help with snow studies, monitoring and modeling for the Arctic Refuge Coastal Plain (i.e. 1002 area) and wanted to touch base on any work that the Climate Science Center may have in progress. We have been working informally with Matthew Sturm at UAF Geophysical Institute who did some field work and Structure for Motion imagery this past April. Moving forward, we have the following objectives:

- 1) to examine the existing data on snow distribution and density and methods for monitoring snow on the Arctic coastal plain of Alaska via remote sensing and in-situ methods;
- 2) to identify snow monitoring needs and techniques for this region to guide management decisions related to oil and gas exploration and development;
- 3) further down the road, we would be interested in coupling snow and hydrologic monitoring in selected river basins to delineate changing trends that might impact fish populations and habitat for nesting waterbirds.

The timeline on the first two is tight, as we we have an application for winter seismic exploration. We have funding to contribute to this project, but are looking ways to work with Matthew and others on meeting our objectives.

With that introduction, perhaps we could find time to talk about any work you all have that might be related or planned, and potential pathways for collaboration?

Thank you,

Wendy

Dr. Wendy M. Loya, Coordinator
Office of Science Applications -Arctic Program
US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

--
Paul Leonard, PhD
Science Coordinator
Arctic LCC
101 12th Ave. Room 216
Fairbanks, AK 99701
(907) 456-0445

--
Paul Leonard, PhD
Science Coordinator
Arctic LCC
101 12th Ave. Room 216
Fairbanks, AK 99701
(907) 456-0445

To: Wendy Loya[wendy_loya@fws.gov]
From: Crane, Drew
Sent: 2018-07-10T13:35:37-04:00
Importance: Normal
Subject: Fwd: MBM review of FY2019 SSP and QRP pre-proposals
Received: 2018-07-10T13:35:47-04:00
FY19 SSP and QRP proposals MBM comments 9 July 2018.docx

Hi Wendy,

Were you going to reach out to folks and request they submit a full proposal (minus the one caribou project) and address the questions in Erik's attachment, or were the POCs to do that? Sorry, I don't recall :)

Thanks!

Drew Crane
Regional Endangered Species Coordinator
Alaska Region
U.S. Fish and Wildlife Service
1011 E. Tudor Road
Anchorage, AK 99503
907-786-3323

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

From: Osnas, Erik <erik_osnas@fws.gov>
Date: Mon, Jul 9, 2018 at 12:32 PM
Subject: MBM review of FY2019 SSP and QRP pre-proposals
To: Wendy Loya <wendy_loya@fws.gov>, Mary Colligan <mary_colligan@fws.gov>, "Lor, Socheata" <socheata_lor@fws.gov>, Drew Crane <drew_crane@fws.gov>
Cc: Eric Taylor <eric_taylor@fws.gov>

Hello,

Please find attached review comments on the FY19 SSP and QRP proposals from Migratory Bird Management. If you have any questions, please try to contact Eric Taylor, who is at FWS HQ this week. Thanks,

Erik

Erik Osnas
Supervisory Wildlife Biologist (Biometrician)
Division of Migratory Bird Management, Region 7
U.S. Fish and Wildlife Service
1011 E. Tudor Road, MS 201
Anchorage, Alaska 99503 6199
907 786 3853 (office)
907 312 3504 (cell)
erik_osnas@fws.gov

0000009920

To: Mary Colligan[mary_colligan@fws.gov]
Cc: Wendy Loya[wendy_loya@fws.gov]; Karen Clark[karen_clark@fws.gov]; Berendzen, Steve[steve_berendzen@fws.gov]
From: Greg Siekaniec
Sent: 2018-07-10T13:43:43-04:00
Importance: Normal
Subject: Re: Update from Alternatives workshop and urgent request
Received: 2018-07-10T13:44:29-04:00

Are there other cooperating organizations attending this alternative development effort? I have a call in to Steve to discuss.

Thanks,

greg

On Mon, Jul 9, 2018 at 8:10 PM Greg Siekaniec <greg_siekaniec@fws.gov> wrote:

Thanks for the update and thoughts. b5 - DP/AC
[Redacted]

Greg

Sent from my iPhone

On Jul 9, 2018, at 6:27 PM, Colligan, Mary <mary_colligan@fws.gov> wrote:

Just to add a bit to Wendy's message, b5 - DP/AC
[Redacted]

On Mon, Jul 9, 2018 at 4:42 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hey Greg,

Today's BLM hosted workshop b5 - DP/AC
[Redacted]

b5 - DP/AC
[Redacted]

b5 - DP/AC
[Redacted]
No extra time.

Thank you, feel free to call me tomorrow to discuss if you wish 907-227-2942.
We can share images if needed ☺

On behalf of the 1002 team,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.277.2942 (mobile)

--
Mary Colligan
Assistant Regional Director
Fisheries and Ecological Services
U.S. Fish and Wildlife Service, Alaska Region

1011 E. Tudor Road, MS-361
Anchorage, AK 99503
907-786-3505
cell: 907-223-5945

To: Wendy Loya[wendy_loya@fws.gov]
From: Crane, Drew
Sent: 2018-07-10T13:58:30-04:00
Importance: Normal
Subject: Fwd: QRP/SSP Project
Received: 2018-07-10T13:58:39-04:00

FYI

Drew Crane
Regional Endangered Species Coordinator
Alaska Region
U.S. Fish and Wildlife Service
1011 E. Tudor Road
Anchorage, AK 99503
907-786-3323

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

From: **Angela Matz** <angela_matz@fws.gov>
Date: Mon, Jul 9, 2018 at 2:05 PM
Subject: Re: QRP/SSP Project
To: Drew Crane <drew_crane@fws.gov>, Mary Colligan <mary_colligan@fws.gov>

hi Drew,

I mentioned to Wendy and Eric Taylor that we would be happy to, but unlikely to be able to, coordinate with other sampling efforts, but that all depends on the details. In general, our samples would have hold times that require out-and-back in one day or at most overnight trips, unlike vegetation sampling (for example) that may go to a 10-day camp to collect their information. Not having seen the other proposals, I can't tell you which we would be able to coordinate with, but certainly any helicopter use that returned to Kaktovik daily would fit in with our sampling needs.

Your second question is very broad - we would certainly use similar sample collection techniques and perhaps even analytical methods, but in my experience the numbers and extent of samples collected and present in the past are insufficient to document changes from baseline over the areal extent of industrial impact. They also would not take an ecotoxicological approach that we propose, which will examine more thoroughly pollution impacts to biota including those used for subsistence, which are not covered in regulations and would therefore not be included in Stips/BMPS.

Angela

On Fri, Jul 6, 2018 at 3:15 PM Crane, Drew <drew_crane@fws.gov> wrote:

Hi Angela,

A couple of questions came up related to your proposal came up during discussions on the QRP/SSP proposals yesterday. Could you address the questions below?

1. If there are other collection processes/crews that may be taking place (i.e. vegetation sampling) in the 1002 area, would your proposal be able to take advantage of those crews to collect the necessary samples and if so, do you know what the cost savings may look like?
2. Do you know if the methodology you are proposing to use is similar to the methodology that

0000009924

companies currently use for contaminant sampling in NPRA? We are assuming a similar stip/bmp will be put in place for 1002 and are hoping your study and what the companies are required to do would be complimentary.

Thank you!

Drew Crane
Regional Endangered Species Coordinator
Alaska Region
U.S. Fish and Wildlife Service
1011 E. Tudor Road
Anchorage, AK 99503
907-786-3323

--

Angela Matz, Ph.D.
Oil Spill and Contaminants Coordinator, Alaska Region
U.S. Fish and Wildlife Service
1011 E. Tudor Road, Anchorage, AK 99503
angela_matz@fws.gov
Mobile: 907 750 8527
Landline: 907 786 3483

To: Stephen Gray[sgray@usgs.gov]
Cc: Murphy, Karen[karen_a_murphy@fws.gov]; Wendy Loya[wendy_loya@fws.gov]; Leonard, Paul[paul_leonard@fws.gov]
From: Littell, Jeremy
Sent: 2018-07-10T18:06:50-04:00
Importance: Normal
Subject: Re: Arctic Snow studies
Received: 2018-07-10T18:07:05-04:00

I did not see a number in the thread, but I've been out.
If one hasn't been sent, let's use **65 - CIF** - that's the AKCASC conference line.

JL

Jeremy S. Littell

USGS Research Ecologist

Lead Research Scientist
DOI Alaska Climate Adaptation Science Center

jlittell@usgs.gov
907.360.9416

Alaska Climate Science Center
4210 University Drive
Anchorage, AK 99508

On Tue, Jul 10, 2018 at 2:02 PM, Stephen Gray <sgray@usgs.gov> wrote:

Ok, we'll call at 2:10. Thanks, Steve
Sent from my iPhone

On Jul 10, 2018, at 1:49 PM, Stephen Gray <sgray@usgs.gov> wrote:

We're running late coming out of the last meeting. Will shoot you a message before we are ready to call in.
Steve

Sent from my iPhone

On Jul 10, 2018, at 6:44 AM, Murphy, Karen <karen_a_murphy@fws.gov> wrote:

I can join in at 2:00pm today. Do you already have a call in number set up?

Karen A Murphy
Science Applications
907-786-3501
karen_a_murphy@fws.gov

On Mon, Jul 9, 2018 at 1:57 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Apologies, when I read your email earlier I interpreted it as 2pm today. Paul should be back tomorrow.
Sorry!

Dr. Wendy M. Loya, Coordinator
Office of Science Applications- Arctic Program
Anchorage, Alaska
[907.786.3532](tel:907.786.3532) (office)
[907.227.2942](tel:907.227.2942) (mobile)

On Jul 9, 2018, at 13:40, Gray, Stephen <sgray@usgs.gov> wrote:

Call was scheduled for tomorrow if that helps.
Steve

Stephen T. Gray, Ph.D.
Director
Alaska Climate Adaptation Science Center
DOI/US Geological Survey
Anchorage, AK
Phone: +1-907-301-7830
sgray@usgs.gov

On Mon, Jul 9, 2018 at 1:36 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

I just got a text from Paul and he is not able to make the call today. He will work with you to reschedule. I am in a workshop Mon thru Thursday this week, and can't join today.
Apologies,
Wendy

Dr. Wendy M. Loya, Coordinator
Office of Science Applications- Arctic Program
Anchorage, Alaska

907.786.3532 (office)
907.227.2942 (mobile)

On Jul 9, 2018, at 09:39, Gray, Stephen <sgray@usgs.gov> wrote:

Looks like we are still on for 2:00, unless I hear otherwise by COB today. If it's just Paul on the line, I'll call your office number directly. If it turns out that Karen can join us as well, I'll send out info for a conference line.
Many thanks,
Steve

Stephen T. Gray, Ph.D.
Director
Alaska Climate Adaptation Science Center
DOI/US Geological Survey
Anchorage, AK
Phone: +1-907-301-7830
sgray@usgs.gov

On Mon, Jul 2, 2018 at 11:14 AM, Gray, Stephen <sgray@usgs.gov> wrote:

Great. Let's plan on 2-3:00 for the moment. I'll confirm and get back to you.
Best,
Steve

Stephen T. Gray, Ph.D.
Director
Alaska Climate Adaptation Science Center
DOI/US Geological Survey
Anchorage, AK
Phone: +1-907-301-7830
sgray@usgs.gov

On Mon, Jul 2, 2018 at 1:11 PM, Leonard, Paul
<paul_leonard@fws.gov> wrote:

Hi Stephen,
This sounds like a good opportunity.

I'll be available to do a call-in from Fairbanks. I also prefer the 2-4 slot.

Cheers,
Paul

On Mon, Jul 2, 2018 at 10:25 AM, Littell, Jeremy <jlittell@usgs.gov> wrote:

I'm available, with a solid preference for 2-4, but 9-10 could work.

JL

Jeremy S. Littell

USGS Research Ecologist

Lead Research Scientist
DOI Alaska Climate Adaptation Science Center

jlittell@usgs.gov
907.360.9416

©

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4210 University Drive
Anchorage, AK 99508

On Mon, Jul 2, 2018 at 9:48 AM, Gray, Stephen <sgray@usgs.gov> wrote:

Consult w/ USGS



Consult w/ USGS

Looks like 9:00-10:00 and 2-4:00 are open for Doug and me on 7/10.

Best,
Steve

Stephen T. Gray, Ph.D.
Director
Alaska Climate Adaptation Science Center
DOI/US Geological Survey
Anchorage, AK
Phone: +1-907-301-7830
sgray@usgs.gov

On Mon, Jun 11, 2018 at 6:58 PM, Wendy Loya
<wendy_loya@fws.gov> wrote:

Let's do 1030 AK. Thank you for helping make that work. I will send out a teleconference number by tomorrow morning

Dr. Wendy M. Loya, Coordinator
Office of Science Applications- Arctic Program
Anchorage, Alaska
[907.786.3532](tel:907.786.3532) (office)
[907.227.2942](tel:907.227.2942) (mobile)

On Jun 11, 2018, at 16:54, Jeremy Littell <jlittell@usgs.gov> wrote:

Our lunch break is scheduled from 12:30-1:30 MT time and I cannot skip the session

right before. Would
10:30 or so work?
JL

Sent from something with buttons too small for my thumbs

On Jun 11, 2018, at 4:56 PM, Murphy, Karen

<karen_a_murphy@fws.
gov> wrote:

That would
work for
me.

Karen A Murphy
Science Applications
907-786-3501
karen_a_murphy@fws.gov

On Mon, Jun 11, 2018 at 1:54 PM, Wendy Loya

<wendy_lo
ya@fws.go
v> wrote:

Are we able
to meet
tomorrow
by phone at
10am AK or
12 MT?

Thanks!

wEndy

Dr. Wendy
M. Loya,

Arctic

Program
Coordinator

Office of
Science
Applications, US Fish
and
Wildlife
Service

Anchorage,
Alaska

907.786.35
32 (office)

907.277.29
42
(mobile)

From:
Stephen
Gray
[mailto:sgray@usgs.gov]
]

Sent: Wednesday, June 6, 2018 7:27 AM

To: Littell, Jeremy <jlittell@usgs.gov>

Cc: Wendy Loya <wendy_loya@fws.gov>; Karen Murphy

<karen_a_murphy@fws.gov>;

Paul

Leonard

<paul_leonard@fws.gov>

>

Subject: Re: Arctic Snow studies

Would Tuesday work better? Jeremy and I will both be in
Montana

by that
point.
We're
having
issues
accessing
the agenda
for the
meeting
we'll be
attending,
but I
predict
we'd have
breaks
around
8:30 and
10:00
AKDT.

Steve

Sent from my iPhone

On Jun 5, 2018, at 8:02 PM, Littell, Jeremy

[<jlittell@u
sgs.gov>](mailto:jlittell@usgs.gov)
wrote:

I don't yet know what my schedule looks like - I'll
be in Montana working with a colleague that day.
Ideally, earlier in the day would be better, but due
to the time difference it won't be all that early there
even if it is here in AK.

Jeremy

Jeremy S. Littell

USGS Research Ecologist

Lead Research Scientist

DOI Alaska Climate Adaptation Science Center

jlittell@usgs.gov

907.360.9416

Alaska Climate Science Center

4210 University Drive

Anchorage, AK 99508

On Tue, Jun 5, 2018 at 10:44 AM, Wendy Loya
<wendy_loya@fws.gov> wrote:

Monday would be great. If you can suggest a time that works for you and Jeremy, Paul and I can make it work.

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife
Service

Anchorage, Alaska

907.786.3532 (office)

907.277.2942 (mobile)

From: Stephen Gray [<mailto:sgray@usgs.gov>]

Sent: Tuesday, June 5, 2018 10:40 AM
To: Wendy Loya <wendy_loya@fws.gov>
Cc: Jeremy Littell <jlittell@usgs.gov>; Karen Murphy <karen_a_murphy@fws.gov>; Leonard, Paul <paul_leonard@fws.gov>
Subject: Re: Arctic Snow studies

consult w/ USGS



Best,

Steve

Sent from my iPhone

On Jun 5, 2018, at 10:30 AM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Steve and Jeremy,

The Arctic LCC (now the Arctic Program) is looking for partners to help with snow studies, monitoring and modeling for the Arctic Refuge Coastal Plain (i.e. 1002 area) and wanted to touch base on any work that the Climate Science Center may have in progress. We have been working informally with Matthew Sturm at UAF Geophysical Institute who did some field work and Structure for Motion imagery this past April. Moving forward, we have the following objectives:

1) to examine the existing data on snow distribution and density and methods for monitoring snow on the Arctic coastal plain of Alaska via remote sensing and in-situ methods;

2) to identify snow monitoring needs and techniques for this region to guide management decisions related to oil and gas exploration and development;

3) further down the road, we would be interested in coupling snow and hydrologic monitoring in selected river basins to delineate changing trends that might impact fish populations and habitat for nesting waterbirds.

The timeline on the first two is tight, as we we have an application for winter seismic exploration. We have funding to contribute to this project, but are looking ways to work with Matthew and others on meeting our objectives.

With that introduction, perhaps we could find time to talk about any work you all have that might be related or planned, and potential pathways for collaboration?

Thank you,

Wendy

Dr. Wendy M. Loya, Coordinator

Office of Science Applications -Arctic
Program

US Fish and Wildlife Service

Anchorage, Alaska

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--

Paul Leonard, PhD
Science Coordinator

Arctic LCC

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