

To: Eric Taylor[eric_taylor@fws.gov]
From: Wendy Loya
Sent: 2018-09-12T12:08:07-04:00
Importance: Normal
Subject: Transmittal memo for QRP/SSP selections
Received: 2018-09-12T12:08:17-04:00
2019 QRPSSP R7 Selections TransmittalMemo 091218.doc

Hi Eric,

Would you have time to take a look at the transmittal letter for Greg to send to USGS regarding out proposal ranking/selection? I would appreciate your feedback on if this captures the key points about priorities before I send to Greg for signing. If you don't, I'll go ahead and move it up, knowing that conversations can continue.

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)
907.227.2942 (mobile)

To: Lucille Frerich[lucille_frerich@fws.gov]
From: Wendy Loya
Sent: 2018-09-12T19:46:24-04:00
Importance: Normal
Subject: Memo for Greg's Signature (USGS Proposal funding recommendations)
Received: 2018-09-12T19:47:18-04:00
2019 QRPSSP R7 Selections TransmittalMemo 091218.doc

Hi Lucille,

Attached is the memo I am bringing for Greg to sign. I made the corrections you identified, but if you see other things that need changing before he signs, I would be grateful for your help. I'll bring the folder up with the revised memo.

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)
907.227.2942 (mobile)

To: Greg Siekaniec[greg_siekaniec@fws.gov]; Karen Clark[karen_clark@fws.gov]
From: Wendy Loya
Sent: 2018-09-12T19:56:32-04:00
Importance: Normal
Subject: Memo for signing: FWS selections for USGS QRP/SSP
Received: 2018-09-12T19:56:43-04:00
2019 QRPSSP R7 Selections TransmittalMemo 091218.doc

Hi Greg and Karen,

I have dropped off the attached memo for signing, but sending it via email in case that is helpful in your review timing. I would like to get it to USGS 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)
907.227.2942 (mobile)

To: Leonard, Paul[paul_leonard@fws.gov]
Cc: Wendy Loya[wendy_loya@fws.gov]
From: Frank Urban
Sent: 2018-09-13T15:18:14-04:00
Importance: Normal
Subject: Re: Weather Stations - GTN-P
Received: 2018-09-13T15:18:20-04:00

Yep,

Monday morning 10am AK time works. Let me know the number to call into.

Frank

On Sep 13, 2018, at 1:12 PM, Leonard, Paul <paul_leonard@fws.gov> wrote:

Hi Frank,
This sound very promising. I'd like to propose a phone call early next week.
Monday AM would be great if you can swing it.

How does 10am AK time look for you?

Cheers,
Paul

On Thu, Sep 13, 2018 at 10:59 AM, Frank Urban <furban@usgs.gov> wrote:

Paul,

Sending to USGS for consult [Redacted]

[Redacted]

[Redacted]

[Redacted]

Sending to USGS for consult

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

Thanks!

Frank

On Sep 13, 2018, at 9:18 AM, Leonard, Paul <paul_leonard@fws.gov> wrote:

Hi Frank,

I was wondering if you could have a look at the specs on these MET stations. The Arctic LCC has 1 of the 3 here that we might deploy somewhere on the coastal plain. Is this setup similar to the GTN-P stations? One of the things that appears missing is instrumentation to collect frost depth. Can you advise about additional instrumentation we'd need to approach a GTN-P station or if it is even possible given this data logger?

Thanks so much for your help. I also like to catch up with you soon about your thoughts on where we might deploy a new MET station that could compliment the 3 that are already in place.

Also, I saw the report from those 3 stations has been updated here: <https://pubs.er.usgs.gov/publication/ds1092>

Thanks for all your work keeping these going. I do hope that you'll be attending our snow workshop next month in Fairbanks. Let me know if you have any issues/questions/concerns.

Cheers,
Paul

--

Paul Leonard, PhD
Science Coordinator
Arctic LCC
101 12th Ave. Room 216
Fairbanks, AK 99701
(907) 456-0445

<Capture.PNG>

--

Paul Leonard, PhD
Science Coordinator
Arctic LCC

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

To: Leonard, Paul[paul_leonard@fws.gov]
Cc: Wendy Loya[wendy_loya@fws.gov]
From: Frank Urban
Sent: 2018-09-13T15:22:07-04:00
Importance: Normal
Subject: Re: Weather Stations - GTN-P
Received: 2018-09-13T15:22:14-04:00

Sending to USGS for consult
[Redacted]

On Sep 13, 2018, at 1:12 PM, Leonard, Paul <paul_leonard@fws.gov> wrote:

Hi Frank,
This sound very promising. I'd like to propose a phone call early next week.
Monday AM would be great if you can swing it.

How does 10am AK time look for you?

Cheers,
Paul

On Thu, Sep 13, 2018 at 10:59 AM, Frank Urban <furban@usgs.gov> wrote:

Paul,

Sending to USGS for consult
[Redacted]

[Redacted]

[Redacted]

Sending to USGS for consult

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

Thanks!

Frank

On Sep 13, 2018, at 9:18 AM, Leonard, Paul <paul_leonard@fws.gov> wrote:

Hi Frank,

I was wondering if you could have a look at the specs on these MET stations. The Arctic LCC has 1 of the 3 here that we might deploy somewhere on the coastal plain. Is this setup similar to the GTN-P stations? One of the things that appears missing is instrumentation to collect frost depth. Can you advise about additional instrumentation we'd need to approach a GTN-P station or if it is even possible given this data logger?

Thanks so much for your help. I also like to catch up with you soon about your thoughts on where we might deploy a new MET station that could compliment the 3 that are already in place.

Also, I saw the report from those 3 stations has been updated here: <https://pubs.er.usgs.gov/publication/ds1092>

Thanks for all your work keeping these going. I do hope that you'll be attending our snow workshop next month in Fairbanks. Let me know if you have any issues/questions/concerns.

Cheers,
Paul

--

Paul Leonard, PhD
Science Coordinator
[Arctic LCC](#)
[101 12th Ave. Room 216](#)
[Fairbanks, AK 99701](#)
[\(907\) 456-0445](#)

<Capture.PNG>

--

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: Frerich, Lucille
Sent: 2018-09-13T19:54:18-04:00
Importance: Normal
Subject: Final Letter - word document
Received: 2018-09-13T19:55:06-04:00
2019 QRPSSP R7 Selections TransmittalMemo 091218.doc

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

To: Wendy Loya[wendy_loya@fws.gov]
Cc: Joanna Fox[joanna_fox@fws.gov]
From: Berendzen, Steve
Sent: 2018-09-14T19:19:45-04:00
Importance: Normal
Subject: Re: FW: Coastal Plain Cooperating Agency Meeting
Received: 2018-09-14T19:19:51-04:00

Wendy, I'll be available those days, and I selected times that also work for you. Since it wasn't sent to me, please let me know what Nicole selects as the meeting time since she might not include me in that feedback

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

On Fri, Sep 14, 2018 at 9:34 AM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Steve,

I'd like to include you in this meeting so you can understand BLM's Preliminary DEIS Coop Agency comment incorporation process, to convey to both regional NWRS staff, Arctic Refuge staff and as you interact with communities/tribes in the Refuge. Can you, or Joanna if you are not available next week, complete the Doodle poll below? My thought is for the two of us to attend and then share updates through the our other programmatic POCS to the IDT, but welcome your thoughts.

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)

907.227.2942 (mobile)

From: Hayes, Miriam (Nicole) <mnhayes@blm.gov>

0000010302

Sent: Friday, September 14, 2018 9:19 AM

To: Faith C Martineau (DNR) <faith.martineau@alaska.gov>; Kevin S. Fisher <Kevin.Fisher@north-slope.org>; Molly Vaughan <vaughan.molly@epa.gov>; patrick hanson <(b) (6)>
Tiffany Yatlin <(b) (6)> Tonya Garnett <(b) (6)>
Wendy Loya <wendy_loya@fws.gov>; Matthew Rexford <(b) (6)> Tom Lohman <(b) (6)>

Cc: amy lewis <amy.lewis@emp.si.com>

Subject: Coastal Plain Cooperating Agency Meeting

Good morning, Cooperating Agencies:

Now that we have worked through many of the comments provided by the Cooperating Agencies and interdisciplinary team members on the Preliminary Draft EIS, we would like to discuss how the comments have informed the development of the Draft. In addition, it will be an opportunity to talk about next steps and address any specific questions or concerns.

Please email me any agenda items you would like to include. Also - please go to the following link and mark your availability on the doodle poll ***by 10:00 a.m. Monday, September 17th***
<https://doodle.com/poll/x2qxzuaxckmdi2wf>

Thank you,
Nicole

Nicole Hayes

Project Coordinator

Bureau of Land Management

222 W. 7th Avenue #13

Anchorage, Alaska 99513

Desk: (907) 271-4354

Cell: (907) 290-0179

0000010303

To: Wendy Loya[wendy_loya@fws.gov]
From: Johnson, Heather
Sent: 2018-09-18T14:22:14-04:00
Importance: Normal
Subject: Re: Request for full proposal: calving/post-calving habitat
Received: 2018-09-18T14:22:15-04:00

I'll give your office number a call at 10, unless there's a better number to reach you at.
Thanks so much, Heather

On Tue, Sep 18, 2018 at 10:16 AM, Wendy Loya <wendy_loya@fws.gov> wrote:

Sounds good. Do you want to come by FWS or I could come by USGS or we could talk by phone.

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.227.2942 (mobile)

From: Johnson, Heather <heatherjohnson@usgs.gov>
Sent: Tuesday, September 18, 2018 10:13 AM
To: Loya, Wendy <wendy_loya@fws.gov>

Subject: Re: Request for full proposal: calving/post-calving habitat

How about 10am on Monday?

On Tue, Sep 18, 2018 at 10:08 AM, Loya, Wendy <wendy_loya@fws.gov> wrote:

I am open most of Monday and Tuesday, if either are good for you suggest a time and I will confirm :)

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

On Tue, Sep 18, 2018 at 9:04 AM Johnson, Heather <heatherjohnson@usgs.gov> wrote:

Thanks for that information. Is there a good time to give you a call next week?

Heather

On Tue, Sep 18, 2018 at 8:38 AM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Heather,

I can chat with you next week about more details, but the vegetation mapping has been contracted out to ABR. They would start this winter with prelim imagery classification, do field validation next summer, and complete the final mapping product by Spring 2020 (I will look at contract to see when final product due, but can't do that today). We are also doing updated National Wetlands Inventory and Hydrography along a similar timeline, but those would be less directly relevant to caribou habitat.

Janet Jorgenson was our botanist but she retired, she could be available to discuss. Scott Guyer at BLM is a good contact for the existing information as it was reprocessed when BLM's NSSI did an update to north slope veg. Or Steve Arthur would be another POC given his role as supervisory ecologist with refuge, and working with Janet. Next week I could help set up further conversations, or you can do that on your own if you prefer...either way 😊

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)

907.227.2942 (mobile)

From: Johnson, Heather <heatherjohnson@usgs.gov>

Sent: Monday, September 17, 2018 2:55 PM

To: Wendy Loya <wendy_loya@fws.gov>

Subject: Re: Request for full proposal: calving/post-calving habitat

Hi Wendy,

I wanted to follow-up with you about information on the current vegetation mapping project, so I can better assess the value of waiting for that product for analyzing caribou data. Who are the best people to talk with about the quality of the existing vegetation map, and the updated map?

Thanks so much, Heather Johnson

On Wed, Aug 8, 2018 at 11:32 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Heather,

The updated Veg mapping would not likely to be completed until April 2020. Given that, does it make sense to wait in this piece? I can put you in touch with our retired botanist to understand the quality of our existing veg map.

Thanks! Just back in office after leave and can talk more this Friday of helpful?

Wendy

Dr. Wendy M. Loya, Coordinator

Office of Science Applications- Arctic Program

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)

On Aug 1, 2018, at 15:51, Johnson, Heather <heatherjohnson@usgs.gov> wrote:

Hi Wendy,

I'm wondering where I can get details about the updated vegetation mapping that is currently being done in ANWR, as we consider that data in our upcoming caribou proposal. Also, is there a projected completion date for that work?

Thanks so much, Heather

On Tue, Jul 10, 2018 at 9:57 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Dear Steve and Heather,

The FWS would like to see a full proposal for the caribou calving habitat use (\$50K) you described in your pre-proposal. Below are questions from one reviewer that should be considered. Another important considerations we would like you to consider is that the FWS is anticipating completion of updated vegetation, wetland and NHD mapping in 2 years; would this project benefit from waiting for these updated data?

The project relating caribou forage conditions to caribou habitat use and neonate calf survival (\$192K) was not selected for a full proposal for consideration in this funding cycle by the FWS.

The deadline for full proposals to FWS is August 16th so that our 1002 team can review prior to submission to USGS by August 31st.

6. Evaluating factors associated with calving and post-calving habitat use of the Porcupine Caribou Herd and their influence on neonate calf survival.

- Please describe the current knowledge and understanding of calving and post-calving areas within the Arctic Refuge. See Griffith et al. 2002. The Porcupine caribou herd. Pages 8-37 in Douglas, D.C. et al. USGS/BRD/BSR-2002-0001.

- Please describe how past studies have been used to assess potential effects of different development scenarios on calving and post-calving areas within the Arctic Refuge and likely impacts to abundance trend of the PCH. For example, see Griffith et al. 2002 and others.

- Given the current range of neonate survival estimates (0.59-1.0), please provide the likelihood that covariate (vegetation types, vegetation phenology, snow conditions, predator densities represented by distances to the foothills/mountains, and topographic features) based analyses will predict neonate survival at the habitat level.

- The authors seek to determine the likely consequences of displacing caribou from calving and post-calving ranges within the Arctic Refuge. How will this aspect differ from previous analyses and reports?

- Please describe how the shifting of calving grounds by the CAH due to oil and gas development has impacted abundance, trend and health of the herd.

The proposed work *would identify and map key areas for caribou that could be used by DOI agencies...and industry for future development planning...* Please describe previous research addressing this specific question and how this research is necessary to mitigate risks associated with oil and gas exploration and development. How will this proposed work refine previous estimates? Do the authors plan to simulate how potential development scenarios could displace the PCH from concentrated calving areas, annual calving and the aggregate extent of calving based on quantifying forage

conditions across these areas and resultant effects on abundance and population trend?

- What is meant by *clarify the value of the 1002 Area relative to other calving and post-calving ranges*? Please describe where other calving and post-calving ranges and plans to sample these areas to provide comparative data with the 1002 area.

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)

--

Heather Johnson, Ph.D.

Research Wildlife Biologist

USGS Alaska Science Center

4210 University Drive

Anchorage, Alaska 99508

Phone: 907.786.7155

Email: heatherjohnson@usgs.gov

--

To: Karen_A_Murphy[Karen_A_Murphy@fws.gov]
From: Wendy Loya
Sent: 2018-09-18T15:56:11-04:00
Importance: Normal
Subject: Fwd: USFWS Alaska Region Recommendations for FY2019 QRP/SSP
Received: 2018-09-18T15:56:22-04:00
[ATT00001.htm](#)
[Groundwater Budget final.xlsx](#)
[QRP FY2019 R7StudyPlan Caribou 20180815 Final.docx](#)
[ATT00002.htm](#)
[QRP FY2019 R7StudyPlan PB monitoring plan Final.docx](#)
[ATT00003.htm](#)
[SSP FY2019 R7StudyPlan 1002birdmodeling Final.docx](#)
[ATT00004.htm](#)
[SSP FY2019 R7StudyPlan CanningRiverDollyVarden Final.docx](#)
[ATT00005.htm](#)
[SSP FY2019 R7StudyPlan Groundwater Final.docx](#)
[ATT00006.htm](#)
[SSP FY2019 R7StudyPlan PB Den Disturbance Final.docx](#)
[ATT00007.htm](#)
[2019 FWS Transmittal memo to USGS QRP SSP funding recs 091418.pdf](#)
[ATT00008.htm](#)

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)

Begin forwarded message:

From: Wendy Loya <wendy_loya@fws.gov>
Date: September 14, 2018 at 09:44:03 AKDT
To: Aimee Devaris <adevaris@usgs.gov>
Cc: Steven Hilburger <shilburger@usgs.gov>, Christian Zimmerman <czimmerman@usgs.gov>, John Pearce <jpearce@usgs.gov>
Subject: **USFWS Alaska Region Recommendations for FY2019 QRP/SSP**

Dear Aimee,

Attached is the memorandum identifying the U.S. Fish and Wildlife Service Alaska Region's recommendations for FY2019 Quick Response Program (QRP) and Science Support Partnership (SSP) research funding, as well as the full proposals we considered. The FY2019 QRP/SSP opportunity was focused on addressing science needs that are clearly linked to Service program priorities and management decisions related to implementing an oil and gas program on the coastal plain (1002 area) of the Arctic National Wildlife Refuge.

0000010310

We greatly appreciate John Pearce and your science team's assistance in identifying research ideas to help meet our high priority information needs, and look forward to working with you in the coming year. Please let me know if you have any questions.

Sincerely,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.227.2942 (mobile)

To: Steve Berendzen[steve_berendzen@fws.gov]; joanna_fox@fws.gov[joanna_fox@fws.gov]
From: Wendy Loya
Sent: 2018-09-19T11:29:18-04:00
Importance: Normal
Subject: Fwd: UPDATE: Coastal Plain Cooperating Agency Meeting
Received: 2018-09-19T11:29:26-04:00

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

Begin forwarded message:

From: "Hayes, Miriam (Nicole)" <mnhayes@blm.gov>
Date: September 19, 2018 at 07:18:17 AKDT
To: "Faith C Martineau (DNR)" <faith.martineau@alaska.gov>, "Kevin S. Fisher" <Kevin.Fisher@north-slope.org>, Molly Vaughan <vaughan.molly@epa.gov>, patrick hanson <(b) (6)> Tiffany Yatlin <(b) (6)> Tonya Garnett <(b) (6)> Wendy Loya <wendy_loya@fws.gov>, Matthew Rexford <(b) (6)> Tom Lohman <(b) (6)>
Cc: amy lewis <amy.lewis@empsi.com>
Subject: UPDATE: Coastal Plain Cooperating Agency Meeting

Good morning, everyone,

The CA meeting will be at *1:00 p.m., Friday September 21, 2018.*

I will send out a meeting invite with a call in number later today.

Thank you,
Nicole

Nicole Hayes
Project Coordinator
Bureau of Land Management
222 W. 7th Avenue #13
Anchorage, Alaska 99513
Desk: (907) 271-4354
Cell: (907) 290-0179

On Fri, Sep 14, 2018 at 9:19 AM, Hayes, Miriam (Nicole) <mnhayes@blm.gov> wrote:

0000010312

Good morning, Cooperating Agencies:

Now that we have worked through many of the comments provided by the Cooperating Agencies and interdisciplinary team members on the Preliminary Draft EIS, we would like to discuss how the comments have informed the development of the Draft. In addition, it will be an opportunity to talk about next steps and address any specific questions or concerns.

Please email me any agenda items you would like to include. Also - please go to the following link and mark your availability on the doodle poll **by 10:00 a.m. Monday, September 17th** <https://doodle.com/poll/x2qxzuaxckmdi2wf>

Thank you,
Nicole

Nicole Hayes
Project Coordinator
Bureau of Land Management
222 W. 7th Avenue #13
Anchorage, Alaska 99513
Desk: (907) 271-4354
Cell: (907) 290-0179

To: Wendy Loya[wendy_loya@fws.gov]
From: Cribley, Bud
Sent: 2018-09-19T11:45:42-04:00
Importance: Normal
Subject: Fwd: [EXTERNAL]
Received: 2018-09-19T11:45:56-04:00

Wendy,

Were you all effected by this article?

Bud

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

From: Bud Cribley <(b) (6)>
Date: Tue, Sep 18, 2018 at 4:09 PM
Subject: [EXTERNAL]
To: Bud Cribley <bud_cribley@fws.gov>

As administration pursues ANWR drilling, Trump official accuses federal employees of creating
'road bumps'

By **Elizabeth Harball, Alaska's Energy Desk - Anchorage -**
September 17, 2018

• •

Biologists participating in a U.S. Fish and Wildlife Service research trip in the Canning River area. (Photo by Lisa Hupp/U.S. Fish and Wildlife Service)

Late last year, Congress ordered the federal government to hold oil lease sales in a portion of the Arctic National Wildlife Refuge. Defying opponents who say the land is too ecologically fragile to drill, the Trump administration has prioritized carrying out the new law.

Vm
P

Now, without offering many details, a top Trump administration official is accusing federal employees of making that job more difficult, saying they seem unhappy about the prospect of oil development happening on land they've managed as a refuge for decades.

Joe Balash is Assistant Secretary for Land and Minerals Management at the U.S. Department

of Interior and a former natural resources commissioner for Alaska. He's one of the top political appointees at the Interior Department, and he's overseeing the process to begin oil development in the Arctic National Wildlife refuge.

In an interview last month, Balash described what he called a "really difficult management challenge" with U.S. Fish and Wildlife Service employees. He said during a recent meeting with the agency in Alaska, he felt employees weren't eager to carry out the new law.

"You could just tell from all of the nonverbal communication going on in the room that they were not happy to see us, they were not happy to talk about this, they still weren't necessarily prepared to accept this new reality," Balash said.

Balash is the head of some divisions within the Interior Department, including the Bureau of Land Management, but the Fish and Wildlife Service doesn't report to him. He accused Fish and Wildlife employees of causing challenges for his agency as it works to pursue oil development in ANWR, creating "some little hiccups and road bumps along the way."

Balash gave just one specific example: this spring, the Washington Post obtained plans to begin the search for oil in the refuge that were submitted to the Fish and Wildlife Service. Balash thinks those documents were leaked from a Fish and Wildlife Service employee.

"I think that's evidence that there's some unhappy campers," Balash said.

Balash didn't cite any direct evidence to prove the documents came from the Fish and Wildlife Service. And in the story, it's not clear exactly where they came from — a Washington Post reporter who worked on the piece declined to say.

Still, Balash said he's asking management at the Fish and Wildlife Service to address what he views as a problem in the agency, "taking steps, every so often, to help remind people that there's a real need to be professional and not allow those very human feelings to get in the way of doing the job the American Congress has charged us with."

"I think with each successive month and with each effort that we make, [we will be] able to

show these employees that we are taking care to look out for the things that matter here and that are potentially affected if leasing occurs,” Balash said, adding, “I wouldn’t say that we’re ever going to get them on board.”

Balash did not threaten retribution over this issue. He said Interior needs the knowledge of longtime Fish and Wildlife Service employees to carry out the oil leasing program.

A spokesperson with the Alaska office of the Fish and Wildlife Service office declined to comment on Balash’s remarks.

But Rosa Meehan, a former longtime Fish and Wildlife Service manager in Alaska, said she’s confident workers at the agency are acting appropriately.

“I absolutely believe in the integrity and professionalism of the Fish and Wildlife Service and all my colleagues in the Service,” Meehan said.

Meehan said she’s concerned about Balash’s words about employees not being “on board” with oil lease sales in the refuge. The federal environmental review process is meant to be an objective, scientific discussion of all potential impacts, she added.

She said that includes impacts that could be viewed as negative, and it’s the Fish and Wildlife Service’s job to point out them out, no matter what.

“It makes it sound as if you don’t really want to that hear anything that could be interpreted as opposing or saying this is really a bad idea or pointing out significant impacts, or potential impacts,” Meehan said. “And that’s what’s really uncomfortable about this.”

Interior aims to put out a draft environmental review on oil leasing in ANWR in the coming months. Like all environmental reviews, it will present a “no action alternative” the option to do nothing. But it’s not a real option.

No matter what that analysis says, Congress ordered Interior to hold the first oil lease sale in the refuge by the end of 2021, and the Trump administration wants to get it done even sooner

than that.

Sent from my iPhone

--

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: Wendy Loya[wendy_loya@fws.gov]
From: Boario, Sara
Sent: 2018-09-20T02:09:00-04:00
Importance: Normal
Subject: Re: quick question
Received: 2018-09-20T02:09:02-04:00

thanks for the prompt response :-)
hope you get some rest tonight!

sb

On Wed, Sep 19, 2018 at 10:06 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

We basically started in mid-January with Rapid Resource Assessments and EIS workshop was July, so about 6 mo. It was 1 mo between our internal workshop to rewrite NPRA stipulations to fit Arctic Refuge and the EIS workshop.
Either number would be an accurate description of the rapid pace at which everyone worked to create a viable pathway forward for the oil and gas purpose.

Thanks! Have fun :)
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 Sep 19, 2018, at 21:58, Boario, Sara <sara_boario@fws.gov> wrote:

Thanks for your write up on 10-02 work for greg's SES performance. I wanted to give a sense of just how fast the team had to mobilize - how many months passed between the team's creation and the EIS workshop?

thanks!

sb

--

Sara D. Boario
Assistant Regional Director External Affairs
U.S. Fish and Wildlife Service, Alaska Region
Anchorage, Alaska
907 786 3431

<[Facebook Logo for Email Signature Block.png](#)> <[twitter icon Signature Block.jpg](#)>

--

Sara D. Boario
Assistant Regional Director External Affairs
U.S. Fish and Wildlife Service, Alaska Region
Anchorage, Alaska
907 786 3431



To: Wendy Loya[wendy_loya@fws.gov]
From: Powers, Elizabeth
Sent: 2018-09-20T19:12:40-04:00
Importance: Normal
Subject: Re: FW: Request for full proposal: calving/post-calving habitat
Received: 2018-09-20T19:13:00-04:00

The timeline to review the veg work in the Arctic is Dec 5.

Table 2. Schedule of deliverables for Land Cover Map for North Slope of Arctic NWR

Item No	Deliverable Description	Schedule and Estimated Completion Date
A1	Review recent vegetation classification work across the Arctic and work with USFWS to develop a vegetation classification that will form the basis for the land cover map classes.	December 5, 2018

I'm not sure when he plans to call Janet, but I will ask.

Elizabeth Powers, PhD
Regional NWI Coordinator
U.S. Fish and Wildlife Services
1011 E. Tudor Rd., MS 281
Anchorage, AK 99503
Tel: 907 786 3914
Cell: 907 887 1225

On Thu, Sep 20, 2018 at 3:01 PM Wendy Loya <wendy_loya@fws.gov> wrote:

Great, do you know timeline for that?

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.227.2942 (mobile)

From: Powers, Elizabeth <elizabeth_powers@fws.gov>
Sent: Thursday, September 20, 2018 2:57 PM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: Re: FW: Request for full proposal: calving/post-calving habitat

FYI, Aaron Wells (ABR) is going to talk to Janet about existing veg datasets in the Arctic. They are in the process of identifying the existing Arctic NWR veg datasets for the Landcover mapping project. I'd be happy to forward information along once Aaron identifies/ compiles the datasets.

Elizabeth Powers, PhD

Regional NWI Coordinator

U.S. Fish and Wildlife Services

1011 E. Tudor Rd., MS-281

Anchorage, AK 99503

Tel: 907-786-3914

Cell: 907-887-1225

On Thu, Sep 20, 2018 at 2:50 PM Powers, Elizabeth <elizabeth_powers@fws.gov> wrote:

Scott or Janet would know the most about the quality of the old data.

On Thu, Sep 20, 2018 at 1:09 PM Wendy Loya <wendy_loya@fws.gov> wrote:

Elizabeth,

Heather Johnson is a wildlife biologist at USGS and interested in doing different habitat selection models. I had indicated that FWS would have a new veg map for the 1002 in about 2 years, and she is asking about the quality of the old data and the plan for the new one. Do you have knowledge about the existing map/data? Wasn't sure if you had gotten info from Janet or dug into that at all as part of your new role (knowing your focus is NWI, but asking anyway). I think Scott Guyer may be the person that knows the most at this point, but just checking

Thanks,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)

From: Johnson, Heather <heatherjohnson@usgs.gov>
Sent: Monday, September 17, 2018 2:55 PM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: Re: Request for full proposal: calving/post-calving habitat

Hi Wendy,

I wanted to follow-up with you about information on the current vegetation mapping project, so I can better assess the value of waiting for that product for analyzing caribou data. Who are the best people to talk with about the quality of the existing vegetation map, and the updated map?

Thanks so much, Heather Johnson

On Wed, Aug 8, 2018 at 11:32 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Heather,

The updated Veg mapping would not likely to be completed until April 2020. Given that, does it make sense to wait in this piece? I can put you in touch with our retired botanist to understand the quality of our existing veg map.

Thanks! Just back in office after leave and can talk more this Friday of helpful?

Wendy

Dr. Wendy M. Loya, Coordinator

Office of Science Applications- Arctic Program

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)

On Aug 1, 2018, at 15:51, Johnson, Heather <heatherjohnson@usgs.gov> wrote:

Hi Wendy,

I'm wondering where I can get details about the updated vegetation mapping that is currently being done in ANWR, as we consider that data in our upcoming caribou proposal. Also, is there a projected completion date for that work?

Thanks so much, Heather

On Tue, Jul 10, 2018 at 9:57 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Dear Steve and Heather,

The FWS would like to see a full proposal for the caribou calving habitat use (\$50K) you described in your pre-proposal. Below are questions from one reviewer that should be considered. Another important considerations we would like you to consider is that the FWS is anticipating completion of updated vegetation, wetland and NHD mapping in 2 years; would this project benefit from waiting for these updated data?

The project relating caribou forage conditions to caribou habitat use and neonate calf survival (\$192K) was not selected for a full proposal for consideration in this funding cycle by the FWS.

The deadline for full proposals to FWS is August 16th so that our 1002 team can review prior to submission to USGS by August 31st.

6. Evaluating factors associated with calving and post-calving habitat use of the Porcupine Caribou Herd and their influence on neonate calf survival.

- Please describe the current knowledge and understanding of calving and post-calving areas within the Arctic Refuge. See Griffith et al. 2002. The Porcupine caribou herd. Pages 8-37 in Douglas, D.C. et al. USGS/BRD/BSR-2002-0001.

- Please describe how past studies have been used to assess potential effects of different development scenarios on calving and post-calving areas within the Arctic Refuge and likely impacts to abundance trend of the PCH. For example, see Griffith et al. 2002 and others.

- Given the current range of neonate survival estimates (0.59-1.0), please provide the likelihood that covariate (vegetation types, vegetation phenology, snow conditions, predator densities represented by distances to the foothills/mountains, and topographic features) based analyses will predict neonate survival at the habitat level.

- The authors seek to determine the likely consequences of displacing caribou from calving and post-calving ranges within the Arctic Refuge. How will this aspect differ from previous analyses and reports?

- Please describe how the shifting of calving grounds by the CAH due to oil and gas development has impacted abundance, trend and health of the herd.

The proposed work *would identify and map key areas for caribou that could be used by DOI agencies...and industry for future development planning...* Please describe previous research addressing this specific question and how this research is necessary to mitigate risks associated with oil and gas exploration and development. How will this proposed work refine previous estimates? Do the authors plan to simulate how potential development scenarios could displace the PCH from concentrated calving areas, annual calving and the aggregate extent of calving based on quantifying forage conditions across these areas and resultant effects on abundance and population trend?

- What is meant by *clarify the value of the 1002 Area relative to other calving and post-calving ranges*? Please describe where other calving and post-calving ranges and plans to sample these areas to provide comparative data with the 1002 area.

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)

--

Heather Johnson, Ph.D.

Research Wildlife Biologist

USGS Alaska Science Center

4210 University Drive

Anchorage, Alaska 99508

Phone: 907.786.7155

Email: heatherjohnson@usgs.gov

--

Heather Johnson, Ph.D.

Research Wildlife Biologist

USGS Alaska Science Center

4210 University Drive

Anchorage, Alaska 99508

Phone: 907.786.7155

Email: heatherjohnson@usgs.gov

To: Greg Siekaniec[greg_siekaniec@fws.gov]
Cc: Mary Colligan[mary_colligan@fws.gov]
From: Wendy Loya
Sent: 2018-09-20T19:44:06-04:00
Importance: Normal
Subject: FWS Arctic Bibliography
Received: 2018-09-20T19:44:16-04:00
Coastal Plain 1002 Area FWS LITERATURE 030118.docx

Hi Greg,

Attached is the bibliography we completed on March 1, 2018 that describes most publications related to Service staff research in the Arctic. I will work with the ARDs to update it every 6 months.

Thank you, let me know if you need any other information,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.227.2942 (mobile)

To: Wendy Loya[wendy_loya@fws.gov]
From: Cribley, Bud
Sent: 2018-09-24T11:25:35-04:00
Importance: Normal
Subject: Re: Notes from BLM update call for Cooperating Agencies on preliminary Leasing DEIS 9/21/18
Received: 2018-09-24T11:25:52-04:00

Thanks for sharing.

Bud

On Fri, Sep 21, 2018 at 5:31 PM Wendy Loya <wendy_loya@fws.gov> wrote:

Hi all,

Please share with your divisions' 1002 team members:

Today we had a 20 min call with a few updates from Nicole Hayes at BLM; there was representation on the call from all Coop Agencies.

- Sending to BLM for consult
[Redacted]
- [Redacted]
- [Redacted]
 - [Redacted]
 - [Redacted]
 - [Redacted]
 - [Redacted]
- [Redacted]
- [Redacted]

- Sending to BLM for consult [REDACTED]
[REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
[REDACTED]

There weren't any questions or concerns raised on the phone; I will update everyone on the comment matrix at our next meeting, after we have had a chance to consider the responses.

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)

907.227.2942 (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

To: Paul Leonard[paul_leonard@fws.gov]
From: Wendy Loya
Sent: 2018-09-25T16:47:36-04:00
Importance: Normal
Subject: FW: I need to Cancel the Seismic EA Update Meeting Today
Received: 2018-09-25T16:48:40-04:00

SWE survived!

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.227.2942 (mobile)

From: Jones, Nichelle (Shelly) <njones@blm.gov>
Sent: Tuesday, September 25, 2018 12:01 PM
To: Steve Berendzen <steve_berendzen@fws.gov>; Fox, Joanna <joanna_fox@fws.gov>; Joshua Rose <joshua_rose@fws.gov>; Wendy Loya <wendy_loya@fws.gov>; LaMarr, Sarah <slamarr@blm.gov>; Donna Wixon <dwixon@blm.gov>; Robert Brumbaugh <rbrumbau@blm.gov>
Subject: I need to Cancel the Seismic EA Update Meeting Today

Part of ongoing consult with BLM
[Redacted]

[Redacted]

[Redacted]

[Redacted]

-Shelly

Shelly Jones
Acting Manager
Arctic District Office
222 University Avenue
Fairbanks, AK 99709

(907) 474-2310 (w)
(907) 460 0086 (c)

To: John Pearce[jpearce@usgs.gov]
From: Wendy Loya
Sent: 2018-09-26T12:38:20-04:00
Importance: Normal
Subject: RE: USGS contaminants contact?
Received: 2018-09-26T12:38:32-04:00
DRAFT SOW IAA FWS USGS 1002 BASELINE CONTAM.doc

Hi John,
The contaminants work is being done in collaboration with:

David Alvarez, Ph.D.
Chief, Environmental Chemistry Branch
USGS Columbia Environmental Research Center

I am attaching the DRAFT statement of work, which is likely different than the final IAA, but Angela Matz is not in. I will forward the final if you would like when I track it down. NSSI contributed significantly more money towards a broader sampling scheme and analysis. Let me know if you have other questions,
Thanks!
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.227.2942 (mobile)

From: Pearce, John <jpearce@usgs.gov>
Sent: Wednesday, September 26, 2018 8:29 AM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: USGS contaminants contact?

Hi Wendy,

Do you remember the name of the contaminants folks in USGS in the lower 48 that were going to work with Angela Matz on some 1002 area contaminants work?

I just want to include their work in an update to the Department about all USGS work taking place on the North Slope.

Thanks,
John

John M. Pearce, Ph.D.
Supervisory Wildlife Biologist
Manager, Wetland and Terrestrial Ecosystems Office
U.S.Geological Survey, Alaska Science Center

4210 University Drive
Anchorage, Alaska 99508
Tel. 907.786.7094
Email: jpearce@usgs.gov
<https://www.usgs.gov/staff-profiles/john-m-pearce>

To: Wendy Loya[wendy_loya@fws.gov]
Cc: Granfors, Diane[diane_granfors@fws.gov]; Scott Guyer[sguyer@blm.gov]; Paul Leonard[paul_leonard@fws.gov]; Joshua Rose[joshua_rose@fws.gov]
From: Powers, Elizabeth
Sent: 2018-09-26T13:39:35-04:00
Importance: Normal
Subject: Re: Info on aviation logistics for 1002 next summer
Received: 2018-09-26T13:39:57-04:00
[PPN F18AS00259 summary.docx](#)

Thank you for forwarding the information from Steve B and initiating the development of a 1002 science advisory group. Do you intend to include the project leads (i.e. Aaron Wells) in this group?

If no, it would be helpful to bring the project leads together to discuss the scope of their projects. There will be a lot of overlap with baseline data needs (veg maps, imagery, etc) and field data collection (veg type, plot photos).

FYI, yesterday the notice of award letter for the NWI & NHD mapping was sent to St. Mary's University, Minnesota. Andrew Robertson is the project lead. I will fill him about the need for logistical coordination and potential opportunities for collaboration with ABR.

I attached the NWI/NHD project narrative.

Cheers,
Elizabeth

On Mon, Sep 24, 2018 at 12:46 PM Wendy Loya <wendy_loya@fws.gov> wrote:

Hi 1002 Veg team,

Forwarding this email from Steve B, which was a delayed response to a May inquiry about the extent of veg mapping. But helicopter/aviation use in 1002 next summer is going to require careful coordination. We have a number of projects, including the veg mapping, NHD/NWI, contaminants, USGS SSP proposals, as well as potential final cleanup from winter seismic operations that could have a significant impact on summer wildlife and recreation users.

I'm hoping to bring together a science advisory team in the next week or two to help ensure we have as much coordination across projects as possible as well as working towards effective data management.

More soon!

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)

From: Berendzen, Steve <steve_berendzen@fws.gov>
Sent: Friday, September 21, 2018 3:42 PM
To: Loya, Wendy <Wendy_loya@fws.gov>
Cc: Joanna Fox <joanna_fox@fws.gov>; Paul Leonard <paul_leonard@fws.gov>; Joshua Rose <joshua_rose@fws.gov>
Subject: Re: Info request relating to helicopter use in Wilderness for veg mapping of coastal plain

Wendy,

I was just reminded of this email and your question about helicopter use in Wilderness outside the 1002 Area. Sorry that I missed this email back when you sent it, but we've been scratching our heads trying to determine how we'll accommodate the logistical needs for all the field work that's tentatively planned for next summer.

The answer to your specific question about helicopter use in Wilderness, is no, we don't even want to consider doing an MRA and undergo the process and public review that would not serve us well from my perspective. I think we'll have to be content to get veg mapping for just the 1002 Area.

Another complication for all activities is that we have been denied the opportunity to place a bulk fuel tank at the Kaktovik airport. We'll continue pursuing this, but I have no expectation that we could get approval in time to get a tank placed for fuel use next summer. The alternative to this that we've been telling people is to get fuel from Kavik (b) (5) DPP

0000010335

(b) (5) DPP

, or to place fuel at an airstrip inside the 1002 such as Jago Bitty.

Josh did a rough estimate of fuel needs for next summer and it's in the ballpark of 2,000 - 4,000 gallons needed - probably closer to the larger number. We'll have complications transporting and storing that much fuel at Jago Bitty, so we should ideally talk among ourselves about project priorities and see if there are opportunities to reduce logistical needs or possibly even back off on the schedule of anything.

Another item that I need to get out in the open for all to be aware of and to pass on to project coordinators is that we don't anticipate being able to provide lodging at the Barter Island bunkhouse. The daily flights in and out of Barter Island crippled relations with some of the local residents last summer, so we want aircraft to avoid Barter Island as much as possible. Also, it looks like the bunkhouse will be filled up most of the summer anyway.

If we could get together some time in the near future to discuss, that would be appreciated.

Steve Berendzen

Refuge Manager, Arctic National Wildlife Refuge

907-456-0253

On Thu, May 31, 2018 at 9:33 AM Wendy Loya <Wendy_loya@fws.gov> wrote:

Hi Steve and Joanna,

We are working towards a map of the area of interest for an updated vegetation map of the Arctic Refuge Coastal Plain. Janet and others provided the attached map, which shows the 1002 area in a dotted line but the broader coastal plain area within the red line. Ideally we would update veg mapping of the entire coastal plain, but that would cross into Designated Wilderness to the east and south of the 1002 area. Methods for doing the veg mapping would include intensive helicopter use over several days (1-3 days I would imagine for the Wilderness area, out of 10 days total intensive surveys).

0000010336

We are only at the stage of writing a Statement of work to seek a contractor, but want to make sure we don't ask for surveys in an area that would not be accessible.

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)

To: DuBour, Kristin[kristin_dubour@fws.gov]
From: Wendy Loya
Sent: 2018-09-26T14:12:39-04:00
Importance: Normal
Subject: RE: Biologists' Conference Call discussion
Received: 2018-09-26T14:12:49-04:00

Thank you, looking forward to sharing how we used a lot of great science to develop management alternatives for the NEPA processes related to the Coastal Plain (1002) Leasing EIS and Seismic EA.

I will be in Fairbanks, so if there is a group gathering in the Refuges conference room or somewhere else, I will join them.

Thank you for the invite!
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.227.2942 (mobile)

From: DuBour, Kristin <kristin_dubour@fws.gov>
Sent: Wednesday, September 26, 2018 10:07 AM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: Biologists' Conference Call discussion

Hi Wendy,

Thanks for agreeing to participate on our next conference call. We will meet at 8:30am on Thursday, October 11. Will you be in the Fairbanks field office for the call? If so, I can connect you with someone up there that will be participating.

As we discussed, plan on speaking for about 15 min and allowing 10-15 minutes for questions/discussion. I think the biologists will be interested in a broad overview of the 1002: what's happening, why and what are the implications.

Thanks much! I'll be in touch as we get closer to October 11.

Kristin

Kristin DuBour
Inventory and Monitoring Wildlife Biologist
National Wildlife Refuge System
USFWS Alaska Region
1011 E. Tudor Road, MS 231
Anchorage, AK 99503

PH: 907-786-3450
FAX: 907-786-3976

To: Wendy Loya[wendy_loya@fws.gov]
From: Leonard, Paul
Sent: 2018-09-26T20:01:57-04:00
Importance: Normal
Subject: workshop agenda draft
Received: 2018-09-26T20:02:30-04:00
Draft AgendaSeptember25.docx

--

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: Leonard, Paul
Sent: 2018-09-26T20:35:01-04:00
Importance: Normal
Subject: Re: workshop agenda draft
Received: 2018-09-26T20:35:34-04:00

I like this :)
Thanks

On Wed, Sep 26, 2018 at 4:13 PM Wendy Loya <wendy_loya@fws.gov> wrote:

Paul,

Feel free to share this with Matthew...

FWS does not have specific management requirements, as the BLM is implementing the oil and gas program, including winter seismic and I don't know for sure that the Seismic EA will be released by Oct 10th. So the title of the presentation I might give would need to change. Here is a suggestion:

Arctic NWR Management Consideration: I could speak about what BLM and FWS jointly considered as BMPs related to winter activities in the EA and why, including touching on the multiple purposes (wilderness, polar bears, fish wintering habitat, aufeis) that we considered in trying to reduce winter tundra travel impacts.

Let me know what you all think or what the goal was, and I'll be happy to help draft a different title for it 😊

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)

From: Leonard, Paul <paul_leonard@fws.gov>
Sent: Wednesday, September 26, 2018 4:02 PM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: workshop agenda draft

--

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: hilary_krieger@fws.gov[hilary_krieger@fws.gov]
From: Wendy Loya
Sent: 2018-09-27T17:12:54-04:00
Importance: Normal
Subject: Tax Act relating to Arctic NWR 1002 area
Received: 2018-09-27T17:13:03-04:00
Tax Act 2017 TitleII Sec20001 OilandGas ANWR.docx

Here you go!

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.227.2942 (mobile)

To: Wendy Loya[wendy_loya@fws.gov]
Cc: Karen Clark[karen_clark@fws.gov]
From: Colligan, Mary
Sent: 2018-10-01T19:08:20-04:00
Importance: Normal
Subject: Re: Update on 1002 for All Employee Meeting
Received: 2018-10-01T19:08:26-04:00

MMPA: We have received an application from SAExploration for 2 year Incidental Take Regulations to authorize the incidental take of polar bears during their seismic operations. We are currently in the process of reviewing the application and discussing additional mitigation measures with the applicant.

On Mon, Oct 1, 2018 at 2:44 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Karen,

Here are updates on the Leasing EIS and Seismic EA. Mary will add one to update on MMPA, but I am going to head out again on sick leave now.

1002 update for All Employee Meeting:

- Along with the other Cooperating Agencies, we submitted comments on the preliminary Draft of the Arctic Refuge Coastal Plain Leasing Draft Environmental Impact Statement, which outlined 4 alternative approaches to where and how leasing could occur in the 1002 area. BLM considered every comment and provided a response which has been shared back with the interdisciplinary team of scientists. We were pleased to see that the alternative that FWS put forward was included in the preliminary draft.
- BLM is scheduled to Brief Deputy Secretary Bernhardt on the Draft Leasing EIS next week, and the outcome of that will determine when it is published for public review. It is expected that there will be a 45-day public review period and public meetings will be held in all the 7 locations where scoping occurred, plus Ft. Yukon. (Full list: Kaktovik, Arctic Village, Venetie, Utqiagvik, Fairbanks, Anchorage, DC, Ft Yukon)
- The Environmental Assessment evaluating the seismic application for the Arctic Refuge Coastal Plain is still in progress, as BLM continues to work with the applicant on refining their proposed plan and developing the guidelines under which they will operate.
- MMM update:

I'll keep an eye on my email if you need anything else,

Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.227.2942 (mobile)

From: Clark, Karen <karen_clark@fws.gov>
Sent: Monday, October 1, 2018 10:15 AM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: Update on 1002 for All Employee Meeting

Hey Wendy,

Greg would like to provide a 1002 update at the All Employee Meeting tomorrow. Could you write up a few bullets that you think would be useful for folks to know? I'm thinking what we have done (comments on EIS) and next steps in the process? And anything else you think would be useful (but short :)

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

--

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: christopher_latty@fws.gov[christopher_latty@fws.gov]
Cc: Paul Leonard[paul_leonard@fws.gov]
From: Wendy Loya
Sent: 2018-10-02T11:47:30-04:00
Importance: Normal
Subject: Fwd: [EXTERNAL] Coastal Plain: Snow geese
Received: 2018-10-02T11:47:36-04:00
[ATT00001.htm](#)
[CoastalPlain_AE_Wildlife_birdsSnowGeese_V02.pdf](#)
[Pages from CCP_04_CH4_AffectEnv.pdf](#)
[ATT00002.htm](#)

Hi Chris,

Can you see the time-sensitive email below and let me know if you can help with these questions for the Leasing DEIS?

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)

Begin forwarded message:

From: Marcia Rickey <marcia.rickey@empsi.com>
Date: October 2, 2018 at 07:35:45 AKDT
To: Wendy Loya <wendy_loya@fws.gov>, Paul Leonard <paul_leonard@fws.gov>
Cc: "Hamfler, Cindy" <chamfler@blm.gov>, Amy Lewis <amy.lewis@empsi.com>, "Hayes, Miriam (Nicole)" <mnhayes@blm.gov>, Alex Dierker <alex.dierker@empsi.com>
Subject: [EXTERNAL] Coastal Plain: Snow geese

Hi Wendy,

Since Paul is out-of-the office, would you be able to review my question below regarding the snow geese data from the FWS CCP? Thanks!

Marcia Rickey
EMPSi Environmental Management and Planning Solutions, Inc.
3005 Center Green Drive, Suite 205
Boulder, CO 80301
main: 303-447-7160 fax: 866-625-0707
www.EMPSi.com Twitter: EMPSInc Facebook: EMPSi

Bringing clarity to the complex™
GSA Contract GS10F-0412S

Albuquerque Denver Durango Portland Reno San Francisco Santa Fe Washington, DC

0000010347

PLEASE NOTE: This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.

From: Marcia Rickey
Sent: Tuesday, October 2, 2018 9:31 AM
To: Paul Leonard <paul_leonard@fws.gov>
Cc: Hamfler, Cindy <chamfler@blm.gov>; Amy Lewis <amy.lewis@empsi.com>; Hayes, Miriam (Nicole) <mnhayes@blm.gov>; Alex Dierker <alex.dierker@empsi.com>
Subject: RE: FW: [EXTERNAL] ArcGIS Pro data from FWS for Alternatives Snow geese

Hi Paul,

In our internal review of the Coastal Plain maps/admin DEIS, the bird resource author had some questions I wasn't able to answer. I've attached the snow goose map that we included in internal 20180913 draft EIS sent to BLM/Nicole and I've attached the snow goose map from the CCP. A couple questions on these maps, or would you let me know if there is someone else who might know? Thanks!

1. The extents are different (the CCP map extends to the western edge of 1002, but the data you sent extents about halfway to the west of 1002)
2. There are 6 categories of number of flocks on the CCP map, but the data just have high-medium-low. I think this might be because the data were generalized since publication of the CCP?
3. On the Coastal EIS map, I added text similar to the text on the CCP map, is that correct, or would there be better descriptive text to use?

Thanks!

Marcia Rickey
EMPSi Environmental Management and Planning Solutions, Inc.
3005 Center Green Drive, Suite 205
Boulder, CO 80301
tel: 303-495-3506 main: 303-447-7160 fax: 866-625-0707
www.EMPSi.com Twitter: EMPSInc Facebook: EMPSi

Bringing clarity to the complex™

GSA Contract GS10F-0412S

Albuquerque Denver Durango Portland Reno San Francisco Santa Fe Washington, DC

PLEASE NOTE: This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.

On Tue, Jul 17, 2018 at 4:38 PM Leonard, Paul <paul_leonard@fws.gov> wrote:
Please find additional information on potential species of interest.

- Snow Goose Density Estimates per CCP
- The Barrier Island Waterbirds data was collected opportunistically and does include a handful of records for the LTDU
- The Yellow-billed Loon data should be the same information that BLM already has but is also included.
- The Eider information - there have been several efforts through the years to sample for nesting eiders and I don't think this dataset represents all information but it is what is currently available.

0000010348

https://drive.google.com/file/d/1247ENG8_qWomAGLLHqx26TvRPQwR2B7t/view?usp_sharing

Let me know if you have concerns and/or questions.

On Fri, Jul 13, 2018 at 10:44 AM, Marcia Rickey <marcia.rickey@empsi.com> wrote:

Hi Paul,

Please see the attached shorebirds map from the CCP. Is this data you'd be able to provide?

Also, can you confirm that you don't have data for the following: staging areas of shorebirds, staging areas for long-tailed ducks, and staging areas for loons. I've reviewed the BLM's version of the ACP data and didn't see it there.

thanks!

Marcia Rickey

EMPSi Environmental Management and Planning Solutions, Inc.
Boulder, CO 80301
tel: 303-447-7160 fax: 866-625-0707

www.EMPSi.com Twitter: EMPSInc Facebook: EMPSi

Bringing clarity to the complex™

GSA Contract GS10F-0412S

Asheville Denver Portland Reno San Francisco Santa
Fe Washington, DC

PLEASE NOTE: This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

0000010349

Office of Science Applications, 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]
Cc: Paul Leonard[paul_leonard@fws.gov]
From: Koch, Joshua
Sent: 2018-10-02T14:53:59-04:00
Importance: Normal
Subject: Re: Circling back on Arctic LCC Met station
Received: 2018-10-02T14:54:18-04:00

Tomorrow is fine, hope you feel better quick.
~Josh

Joshua C. Koch
Research Hydrologist, U.S. Geological Survey
4210 University Dr. Anchorage, AK 99508
office: 907-786-7119, cell: 303-817-5595
jkoch@usgs.gov

[USGS Profile](#)
[Google Scholar Profile](#)
[Project Website: Arctic Boreal Catchment Studies](#)

On Tue, Oct 2, 2018 at 10:51 AM Wendy Loya <wendy_loya@fws.gov> wrote:

Let me coordinate with you to tomorrow if that is ok? I am out sick today but need to get it by Friday:)

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 Oct 2, 2018, at 10:49, Koch, Joshua <jkoch@usgs.gov> wrote:

Hi Wendy and Paul,
Is there a good time this week when I could bring the met station to you, or when you'd like to pick it up here?

Thanks,
~Josh

Joshua C. Koch
Research Hydrologist, U.S. Geological Survey
4210 University Dr. Anchorage, AK 99508
office: 907-786-7119, cell: 303-817-5595
jkoch@usgs.gov

[USGS Profile](#)

[Google Scholar Profile](#)

[Project Website: Arctic Boreal Catchment Studies](#)

On Wed, Sep 12, 2018 at 8:08 AM Wendy Loya <wendy_loya@fws.gov> wrote:

Hey Josh,

My schedule is a little uncertain next week so let's touch base the first week of October. 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)

907.227.2942 (mobile)

From: Koch, Joshua <jkoch@usgs.gov>

Sent: Tuesday, September 11, 2018 3:45 PM

To: Wendy Loya <wendy_loya@fws.gov>

Cc: Paul Leonard <paul_leonard@fws.gov>

Subject: Re: Circling back on Arctic LCC Met station

Sounds good, Wendy. I have a pieces in a few different places, so maybe it'd be easier if I brought it all over to you. Is there a good time next week or the first week of October when I could do that? I'll be out of the office/working remotely from Sept. 21st to Oct. 2nd.

Thanks,

~Josh

Joshua C. Koch

Research Hydrologist, U.S. Geological Survey

4210 University Dr. Anchorage, AK 99508

office: 907-786-7119, cell: 303-817-5595

jkoch@usgs.gov

[USGS Profile](#)

[Google Scholar Profile](#)

[Project Website: Arctic Boreal Catchment Studies](#)

On Tue, Sep 11, 2018 at 3:13 PM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hey Josh,

Maybe I can pick that up from you and take up to Fairbanks with me by Oct 6th? We are thinking about setting it up possibly this fall for winter monitoring ☺ Welcome any feedback.

Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.227.2942 (mobile)

From: Koch, Joshua <jkoch@usgs.gov>
Sent: Tuesday, September 11, 2018 12:45 PM
To: Leonard, Paul <paul_leonard@fws.gov>
Cc: Wendy Loya <wendy_loya@fws.gov>
Subject: Re: Circling back on Arctic LCC Met station

Hi Paul,

Great timing. I just retrieved the remaining pieces of the met station from the NPS warehouse in Kotzebue - the shipment showed up literally an hour ago. So I have all of the pieces here in Anchorage, generally packaged for transport. The only thing that might be needed is a new battery.

Please let me know how to proceed. I can hold on to the pieces for the winter, or could deliver to you if you're planning to set it up soon.

Thanks,

~Josh

Joshua C. Koch
Research Hydrologist, U.S. Geological Survey
4210 University Dr. Anchorage, AK 99508
office: 907-786-7119, cell: 303-817-5595
jkoch@usgs.gov

USGS Profile

Google Scholar Profile

Project Website: Arctic Boreal Catchment Studies

On Mon, Sep 10, 2018 at 1:59 PM, Leonard, Paul <paul_leonard@fws.gov> wrote:

Hi Josh,

I wanted to reach out and ask about the extra met station that was not deployed in the Agashashok that we were discussing earlier this year. We are in the beginning stages of planning a monitoring network in/around the Arctic Refuge and I think the met station may be of good use there.

Can you provide any update on the location of the station or its current status?

Thanks so much!

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]
From: Jorgenson, Janet
Sent: 2018-10-03T17:49:03-04:00
Importance: Normal
Subject: Re: [EXTERNAL] Fwd: ANWR Snow Workshop
Received: 2018-10-03T17:49:15-04:00

OK, thanks. I left him a phone message. I'm in office now, but please continue to use my home email because I see that more often than this one. Home: (b) (6).

On Wed, Oct 3, 2018 at 1:44 PM Wendy Loya <wendy_loya@fws.gov> wrote:

Hi Janet,

I am not sure how full the workshop is, but I hope there is space. Please contact and verify, then you can register online via the links below. I would love to have you there, so let Fritz know you are a preferred FWS attendee. Let me know if you have any problems. See you next week!

the event coordinator, Fritz Freudenberger, at 907-474-7185 or ffreudenberger@alaska.edu.

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)

From: Jorgenson, Janet <janet_jorgenson@fws.gov>
Sent: Wednesday, October 3, 2018 1:41 PM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: Fwd: [EXTERNAL] Fwd: ANWR Snow Workshop

Hi Wendy, can I attend parts of this workshop? I looked for Paul but see he is out of office.

0000010357

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

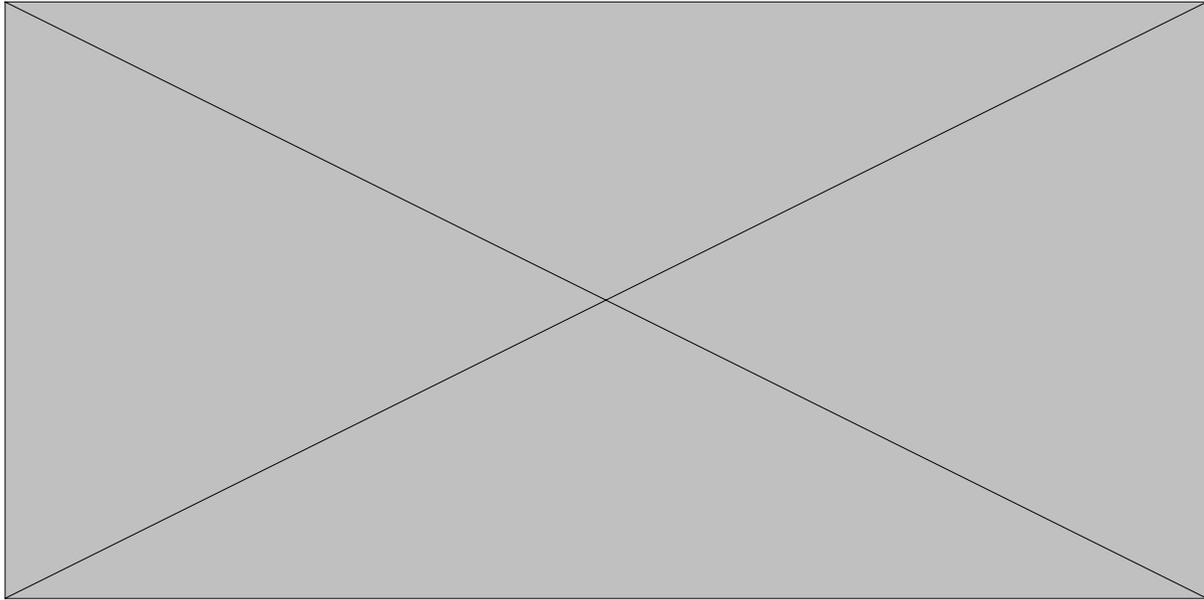
From: **Matt Macander** <mmacander@abrinc.com>
Date: Tue, Oct 2, 2018 at 9:49 AM
Subject: [EXTERNAL] Fwd: ANWR Snow Workshop
To: Janet Jorgenson <janet_jorgenson@fws.gov>

Hi Janet, this is the tentative agenda for the snow workshop.

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

From: **Matthew Sturm** <msturm1@alaska.edu>
Date: Wed, Sep 26, 2018 at 9:13 PM
Subject: ANWR Snow Workshop
To: msturm1@alaska.edu <msturm1@alaska.edu>, cparr4@alaska.edu <cparr4@alaska.edu>, furban@usgs.gov <furban@usgs.gov>, eyeager@blm.gov <eyeager@blm.gov>, sgray@usgs.gov <sgray@usgs.gov>, joshua_rose@fws.gov <joshua_rose@fws.gov>, joanna_fox@fws.gov <joanna_fox@fws.gov>, njones@blm.gov <njones@blm.gov>, slamarr@blm.gov <slamarr@blm.gov>, dwixon@blm.gov <dwixon@blm.gov>, wendy_loya@fws.gov <wendy_loya@fws.gov>, paul_leonard@fws.gov <paul_leonard@fws.gov>, sguyer@blm.gov <sguyer@blm.gov>, mwhitman@blm.gov <mwhitman@blm.gov>, tvosburgh@blm.gov <tvosburgh@blm.gov>, melissa.head@alaska.gov <melissa.head@alaska.gov>, clif.enochs@alaska.gov <clif.enochs@alaska.gov>, kimberley.maher@alaska.gov <kimberley.maher@alaska.gov>, becky.baird@alaska.gov <becky.baird@alaska.gov>, kenneth_hill@nps.gov <kenneth_hill@nps.gov>, wrbolton@alaska.edu <wrbolton@alaska.edu>, pbieniek@alaska.edu <pbieniek@alaska.edu>, rtladerjr@alaska.edu <rtladerjr@alaska.edu>, brien.e.reep@exxonmobil.com <brien.e.reep@exxonmobil.com>, Robyn.E.McGhee@conocophillips.com <Robyn.E.McGhee@conocophillips.com>, tiffany.c.carey@conocophillips.com <tiffany.c.carey@conocophillips.com>, rtrupp@saexploration.com <rtrupp@saexploration.com>, Daniel.Fisher@ak.usda.gov <Daniel.Fisher@ak.usda.gov>, richard.thoman@noaa.gov <richard.thoman@noaa.gov>, info@akfrontiers.com <info@akfrontiers.com>, jeffmiller@cruzconstruct.com <jeffmiller@cruzconstruct.com>, eric.weiman@peakalaska.com <eric.weiman@peakalaska.com>, stewart.seaberg@asrcenergy.com <stewart.seaberg@asrcenergy.com>, jennifer.collins@bp.com <jennifer.collins@bp.com>, Steve.McKendrick@bp.com <Steve.McKendrick@bp.com>, tcater@abrinc.com <tcater@abrinc.com>, flier@allamericanoilfield.com <flier@allamericanoilfield.com>, wcrowell@hilcorp.com <wcrowell@hilcorp.com>, graham.smith@alaska.gov <graham.smith@alaska.gov>, nathaniel.emery@alaska.gov <nathaniel.emery@alaska.gov>, csbenison@alaska.edu <csbenison@alaska.edu>, mmacander@abrinc.com <mmacander@abrinc.com>, faith.martineaux@alaska.gov <faith.martineaux@alaska.gov>, jnunley@olgoonik.com <jnunley@olgoonik.com>, ffreudenberger@alaska.edu

<ffreudenberger@alaska.edu>, tlthomas5@alaska.edu <tlthomas5@alaska.edu>, kdtape@alaska.edu <kdtape@alaska.edu>, jbjohnson5@alaska.edu <jbjohnson5@alaska.edu>



Hello All!

Thank you for participating in the ANWR Snow Workshop. We believe the workshop is important, timely, and will be useful and interesting.

We look forward to working with you and want to reach out to go over a bit of housekeeping and logistics. The information below, and future updates, can be found at the meeting website: gi.alaska.edu/registration.

First, a reminder that the meeting will take place on **October 9 and 10** at **Pike's Waterfront Lodge, 1850 Hoselton Road, Fairbanks AK 99709.**

For those of you traveling out of town, there is a block room reservation at the Pike's Lodge with a discounted rate. Call **(907) 456-4500 to reserve your room** and mention you are with "ANWR Snow Training." If you are flying in and would like transportation from the airport to the hotel, please call 907-456-5200.

The meeting will run roughly from 8 a.m. – 6 p.m. each day with 20 min. breaks in-between. **Breakfast and lunch will be provided on both days and dinner will be provided the first evening.** Coffee, tea and water will be available throughout the day.

A draft schedule is attached and will be available on the website as it is updated. We have been in contact with speakers, and in the next few days we will be talking to each speaker with additional suggestions etc.

If you have questions about logistics, topics, or any other please contact the event coordinator, Fritz Freudenberger, at 907-474-7185 or ffreudenberger@alaska.edu.

Dr. Matthew Sturm on behalf of the full workshop organizers

AGENDA

ANWR Snow Workshop, Fairbanks, Alaska October 9-10, 2018

Pikes Waterfront Lodge

DAY 1 (October 9, 2018)

8:00 AM: Breakfast & Registration

9:00 AM: Welcome (M. Sturm)

9:15 AM: Participant Introductions ('round the room)

9:30 AM: Land Management Needs and Challenges (Joanna Fox (USFWS): Shelly Jones

(BLM)

9:45 AM: History of Exploration & Oil Exploration, North Slope, Alaska (Matthew Sturm)

10:00 AM to 1:00 PM

ANWR & the 1002 Area: Comparisons to the NPRA

(Coffee Break @ 10:30 to 10:50 in Binkley Room)

√□□□□ Topography and physiography (M. Macander) (30 minutes)

√□□□□ Hydrology (M. Whitman; confirmation pending) (10 minutes)

BREAK

√□□□□ Vegetation (Tim Cater) (30 minutes)

√□□□□ Winter Climate/regional (Rick Thoman) (30 minutes)

√□□□□ Winter Climate/local (Frank Urban) (20 minutes)

√□□□□ Cultural & Economic Setting (Vince Matthews; pending) (25 minutes)

1:00 PM to 2:00 PM: Lunch

2:00 PM to 3:30 PM: The Nature of the Arctic Snow Cover

√□□□□ The seasonal pattern of snow build-up and drifting (Frank Urban & Matt Macander)

√□□□□ The resulting stratigraphy, properties and what it means (Matthew Sturm)

√□□□□ Scaling and snow: spatial variations in depth, density and other properties (Charles Parr)

3:30 PM to 3:50 PM: Coffee Break, Binkley Room

3:50 PM to 5:30 PM: Snow and Vehicles

√□□□□ The physics of shearing, compaction, rutting (Jerry Johnson)

√□□□□ Snow as protection of tundra vs. inhibitor of frost penetration (Matthew Sturm)

√□□□□ Practical results from vehicle tests: operational considerations (Tim Cater)

6:00 PM to Dinner at Pikes

DAY 2 (October 10, 2018)

8:00 AM: Breakfast & Registration

9:00 AM: Recap from Day 1 (Paul Leonard)

9:15 AM to 12:00 PM: Regulatory Environment & Seismic Practice

(Coffee Break @ 10:30 to 10:50 in Binkley Room)

√□□□□ State of Alaska Regulation of Winter Operations (Melissa Head) (30 minutes)

√□□□□ NPRA Regulation of Winter Operations (TBD) (20 minutes)

√□□□□ Arctic Refuge Management Considerations (Wendy Loya) (20 minutes)

BREAK

√□□□□ Winter Seismic Operations: equipment, recon, routing, camps, geophysics (Rick Trupp) (30 minutes)

√□□□□ More on Seismic Practice (Tiffany Carey or alternate) (20 minutes)

√□□□□ Snow & Ice Roads & Off-road Traffic (Federico Lier) (20 minutes)

√□□□□ More Snow & Ice Roads (Cruz Construction....not confirmed) (20 minutes)

12:00 PM to 1:00 PM: Snow Measurements

√□□□□ Measurement tools, techniques and strategies (various people in 5-minute slots)

- o Depth, density, hardness, strength
- o Remote sensing (aerial and ground-based)
- o Heterogeneity and representative measurements

1:00 PM to 2:00 PM: Lunch

2:00 PM to 5:00 PM: Monitoring Networks, Knowledge Gaps and Climate Change

Panel Discussion with Audience Participation (Panel TBD)

5:00 PM: Closing Remarks (Matthew Sturm)

5:30 PM: Adjourn

--

Dr. Matthew Sturm

Geophysical Institute

University of Alaska-Fairbanks

907-474-5257

msturml@alaska.edu

--

Janet C. Jorgenson

Botanist

Arctic National Wildlife Refuge

101 12th Ave, Rm 236

Fairbanks, Alaska 99701

907-456-0216

--

Janet C. Jorgenson

Botanist

Arctic National Wildlife Refuge

101 12th Ave, Rm 236

Fairbanks, Alaska 99701

907-456-0216

To: Fischbach, Tracy[tracy_fischbach@fws.gov]; Wendy Loya[wendy_loya@fws.gov]; Ryan Mollnow[ryan_mollnow@fws.gov]; Ameer Howard[ameer_howard@fws.gov]
Cc: Crane, Drew[drew_crane@fws.gov]; Ronnie Sanchez[ronnie_sanchez@fws.gov]
From: Lor, Socheata
Sent: 2018-10-04T15:33:22-04:00
Importance: Normal
Subject: Fwd: Arctic and Izembek
Received: 2018-10-04T15:34:20-04:00
[BP Arctic 1002 Acting Director Aug2018 v2.docx](#)
[20181004 BP Izembek Land Exchange.docx](#)

Hi,

See Noah's notes. I attempted to update the IZM BP but need the Arctic one. Attached are the most current that I have. We have the 400 pg. summary of comments. Wendy, can you update the next steps with the EIS and the seismic EA?

I don't know when he needs it. Waiting to hear back from him.

Thank you!

Soch

~~~~~  
*Socheata 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: **Matson, Noah** <noah_matson@fws.gov>
Date: Thu, Oct 4, 2018 at 9:55 AM
Subject: Arctic and Izembek
To: "Lor, Socheata" <socheata_lor@fws.gov>

Hi Soch,

I have a request for talking points on current status of Arctic and Izembek for Steve Guertin. Do you have anything off the shelf?

Thanks

Noah Matson
Acting Chief, Division of Natural Resources and Conservation Planning
National Wildlife Refuge System
U.S. Fish and Wildlife Service
noah_matson@fws.gov
(703) 358 2660

0000010365

To: Socheata Lor[socheata_lor@fws.gov]
Cc: Tracy Fischbach[tracy_fischbach@fws.gov]; Wendy Loya[wendy_loya@fws.gov]; Ryan Mollnow[ryan_mollnow@fws.gov]; Drew Crane[drew_crane@fws.gov]; Ronnie Sanchez[ronnie_sanchez@fws.gov]
From: Howard, Amee
Sent: 2018-10-04T15:37:23-04:00
Importance: Normal
Subject: Re: Arctic and Izembek
Received: 2018-10-04T15:38:26-04:00
[08.23.18 Izembek Land Exchange.docx](#)
[08.23.18 Arctic Coastal Plain 1002.docx](#)

Hi All,
Here is what I have. The most current ones that were uploaded to DTS by Lucy.

Thanks so much!
Amee

On Thu, Oct 4, 2018 at 11:33 AM Lor, Socheata <socheata_lor@fws.gov> wrote:

Hi,

See Noah's notes. I attempted to update the IZM BP but need the Arctic one. Attached are the most current that I have.
We have the 400 pg. summary of comments. Wendy, can you update the next steps with the EIS and the seismic EA?

I don't know when he needs it. Waiting to hear back from him.

Thank you!

Soch

~~~~~  
*Socheata 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: **Matson, Noah** <noah_matson@fws.gov>
Date: Thu, Oct 4, 2018 at 9:55 AM
Subject: Arctic and Izembek
To: "Lor, Socheata" <socheata_lor@fws.gov>

Hi Soch,

I have a request for talking points on current status of Arctic and Izembek for Steve Guertin. Do you have anything off the shelf?

Thanks

Noah Matson
Acting Chief, Division of Natural Resources and Conservation Planning
National Wildlife Refuge System
U.S. Fish and Wildlife Service
noah_matson@fws.gov
(703) 358 2660

--

Amee Howard
Congressional and State Liaison
U.S. Fish & Wildlife Service
Anchorage, Alaska
Office: (907)786-3509
Mobile: (907)229-8575
[Get Inspired](#)

To: Howard, Amee[amee_howard@fws.gov]
Cc: Tracy Fischbach[tracy_fischbach@fws.gov]; Wendy Loya[wendy_loya@fws.gov]; Ryan Mollnow[ryan_mollnow@fws.gov]; Drew Crane[drew_crane@fws.gov]; Ronnie Sanchez[ronnie_sanchez@fws.gov]
From: Socheata Lor
Sent: 2018-10-04T15:49:41-04:00
Importance: Normal
Subject: Re: Arctic and Izembek
Received: 2018-10-04T15:50:39-04:00

Thank you

Sent from my iPhone

On Oct 4, 2018, at 11:37 AM, Howard, Amee <amee_howard@fws.gov> wrote:

Hi All,
Here is what I have. The most current ones that were uploaded to DTS by Lucy.

Thanks so much!
Amee

On Thu, Oct 4, 2018 at 11:33 AM Lor, Socheata <socheata_lor@fws.gov> wrote:

Hi,

See Noah's notes. I attempted to update the IZM BP but need the Arctic one. Attached are the most current that I have. We have the 400 pg. summary of comments. Wendy, can you update the next steps with the EIS and the seismic EA?

I don't know when he needs it. Waiting to hear back from him.

Thank you!

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: Matson, Noah <noah_matson@fws.gov>

Date: Thu, Oct 4, 2018 at 9:55 AM
Subject: Arctic and Izembek
To: "Lor, Socheata" <socheata_lor@fws.gov>

Hi Soch,
I have a request for talking points on current status of Arctic and Izembek for Steve Guertin. Do you have anything off the shelf?

Thanks

Noah Matson
Acting Chief, Division of Natural Resources and Conservation Planning
National Wildlife Refuge System
U.S. Fish and Wildlife Service
noah_matson@fws.gov
(703) 358 2660

--

Amee Howard
Congressional and State Liaison
U.S. Fish & Wildlife Service
Anchorage, Alaska
Office: (907)786-3509
Mobile: (907)229-8575
[Get Inspired](#)

<08.23.18 Izembek Land Exchange.docx>

<08.23.18 Arctic Coastal Plain 1002.docx>

To: Wendy Loya[wendy_loya@fws.gov]
From: Lor, Socheata
Sent: 2018-10-05T15:21:14-04:00
Importance: Normal
Subject: Re: DRAFT updated Arctic 1002 Briefing due Oct 9th
Received: 2018-10-05T15:21:50-04:00

Thanks Wendy!

Do you have an idea about when BLM will have the public meeting in Fairbanks? Or should we say something general late fall or at a later date yet to be announced?

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*

~~~~~

On Fri, Oct 5, 2018 at 11:09 AM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi All,

Attached is a draft of my suggested briefing update for the 1002. I have added the snow workshop (since it is designed to be collaborative with BLM, State of AK and Industry) and from Gil's Porcupine Management Board update from the RDT notes this week. If those aren't appropriate, feel free to delete.

Deadline to DC is Tuesday for Thursday briefing.

Thanks, welcome your feedback,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)

From: Howard, Amee <amee_howard@fws.gov>
Sent: Thursday, October 4, 2018 11:37 AM
To: Socheata Lor <socheata_lor@fws.gov>
Cc: Tracy Fischbach <tracy_fischbach@fws.gov>; Wendy Loya <wendy_loya@fws.gov>; Ryan Mollnow <ryan_mollnow@fws.gov>; Drew Crane <drew_crane@fws.gov>; Ronnie Sanchez <ronnie_sanchez@fws.gov>
Subject: Re: Arctic and Izembek

Hi All,

Here is what I have. The most current ones that were uploaded to DTS by Lucy.

Thanks so much!

Amee

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

From: **Matson, Noah** <noah_matson@fws.gov>
Date: Thu, Oct 4, 2018 at 11:32 AM
Subject: Re: Arctic and Izembek
To: "Lor, Socheata" <socheata_lor@fws.gov>

COB Tuesday if possible. Steve needs them for Thursday.

Thanks!

Noah

0000010371

On Thu, Oct 4, 2018 at 11:33 AM Lor, Socheata <socheata_lor@fws.gov> wrote:

Hi,

See Noah's notes. I attempted to update the IZM BP but need the Arctic one. Attached are the most current that I have. We have the 400 pg. summary of comments. Wendy, can you update the next steps with the EIS and the seismic EA?

I don't know when he needs it. Waiting to hear back from him.

Thank you!

Soch

~~~~~

*Socheata 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: **Matson, Noah** <noah_matson@fws.gov>

Date: Thu, Oct 4, 2018 at 9:55 AM

Subject: Arctic and Izembek

To: "Lor, Socheata" <socheata_lor@fws.gov>

Hi Soch,

I have a request for talking points on current status of Arctic and Izembek for Steve Guertin. Do you have anything off the shelf?

Thanks

Noah Matson

Acting Chief, Division of Natural Resources and Conservation Planning

National Wildlife Refuge System

U.S. Fish and Wildlife Service

noah_matson@fws.gov

(703) 358 2660

--

Amee Howard

Congressional and State Liaison

U.S. Fish & Wildlife Service

Anchorage, Alaska

Office: (907)786-3509

Mobile: (907)229-8575

[Get Inspired](#)

To: FW7 Refuge Biologists[fw7_refuge_biologists@fws.gov]; FW7 RNR Staff[fw7_rnr_staff@fws.gov]
Cc: Edward Decleva[edward_decleva@fws.gov]; Wendy Loya[wendy_loya@fws.gov]
From: DuBour, Kristin
Sent: 2018-10-05T18:03:52-04:00
Importance: Normal
Subject: October 11: Biologists conference call
Received: 2018-10-05T18:04:08-04:00

I hope you've all had a fun and productive summer! The new season of biologists' conference calls will begin next Thursday.

The purpose of these calls is to facilitate communication between station biologists, the RO and other R7 programs. We meet monthly on the second Thursday of each month, October through May. This year we've invited several experts from outside programs and we'll hear in-depth project updates from station biologists. If there are particular topics that would be of interest to the group or you'd like to present please get in touch.

Please provide updates for your station or program on the [agenda](#).

10/11/2018, 8:30-9:30 am

Call in number: (b) (5) CIP **Passcode:** (b) (5) CIP

[WebEx Link](#)

Presentations/Discussion Topics:

Wendy Loya, Arctic Program Coordinator - "Overview of Arctic coastal plain oil and gas leasing program"

Ed Decleva, Regional Historic Preservation Officer / Archaeologist - "Historic & archaeological services provided to refuges in Region 7"

Hilmar Maier, Data Manager - "Linking PRIMR project documents to ServCat"

Kristin DuBour
Inventory and Monitoring Wildlife Biologist
National Wildlife Refuge System
USFWS Alaska Region
1011 E. Tudor Road, MS 231
Anchorage, AK 99503
PH: 907-786-3450
FAX: 907-786-3976

To: Wendy Loya[wendy_loya@fws.gov]
From: Matz, Angela
Sent: 2018-10-08T19:15:26-04:00
Importance: Normal
Subject: Fwd: IAA 4500125172 - Assessing Baseline Contaminants in the 1002 Area...
Received: 2018-10-08T19:16:06-04:00
[1002 Contaminants baseline SOW.docx](#)
[4500125172 USGS.pdf](#)

FYI

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

From: **Tina Racy** <tina_racy@fws.gov>
Date: Wed, Aug 22, 2018 at 6:52 AM
Subject: IAA 4500125172 - Assessing Baseline Contaminants in the 1002 Area...
To: Lori Buitink <lbuitink@usgs.gov>
Cc: David Alvarez <dalvarez@usgs.gov>, Matz, Angela <angela_matz@fws.gov>

Please find attached below a fully executed copy of the above reference IAA for your records. If you have any questions please feel free to give me a call.

Thanks!

~~~~~

Tina Y. Racy  
Budget Analyst  
Region 7 - Fisheries/Ecological Services & Science Applications

US Fish & Wildlife Service  
1011 E. Tudor Road MS 361  
Anchorage, AK 99503

Phone: (907) 786-3475  
Email: [tina\\_racy@fws.gov](mailto:tina_racy@fws.gov)

--

*Angela Matz  
Oil Spill and Contaminants Coordinator, Alaska Region  
U.S. Fish and Wildlife Service  
1011 E. Tudor Road, MS 361  
Anchorage, AK 99503  
[angela\\_matz@fws.gov](mailto:angela_matz@fws.gov)  
Mobile: 907 750 8527  
Landline: 907 786 3483*

0000010375

**To:** Angela Matz[angela\_matz@fws.gov]  
**From:** Wendy Loya  
**Sent:** 2018-10-08T19:19:11-04:00  
**Importance:** Normal  
**Subject:** RE: IAA 4500125172 - Assessing Baseline Contaminants in the 1002 Area...  
**Received:** 2018-10-08T19:19:20-04:00

Thanks!

Dr. Wendy M. Loya,  
Arctic Program Coordinator  
Office of Science Applications, US Fish and Wildlife Service  
Anchorage, Alaska  
907.786.3532 (office)  
907.227.2942 (mobile)

**From:** Matz, Angela <angela\_matz@fws.gov>  
**Sent:** Monday, October 8, 2018 3:15 PM  
**To:** Wendy Loya <wendy\_loya@fws.gov>  
**Subject:** Fwd: IAA 4500125172 - Assessing Baseline Contaminants in the 1002 Area...

FYI

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

**From:** Tina Racy <tina\_racy@fws.gov>  
**Date:** Wed, Aug 22, 2018 at 6:52 AM  
**Subject:** IAA 4500125172 - Assessing Baseline Contaminants in the 1002 Area...  
**To:** Lori Buitink <lbuitink@usgs.gov>  
**Cc:** David Alvarez <dalvarez@usgs.gov>, Matz, Angela <angela\_matz@fws.gov>

Please find attached below a fully executed copy of the above reference IAA for your records. If you have any questions please feel free to give me a call.

Thanks!

~~~~~  
Tina Y. Racy
Budget Analyst
Region 7 - Fisheries/Ecological Services & Science Applications

US Fish & Wildlife Service
1011 E. Tudor Road MS 361
Anchorage, AK 99503

Phone: (907) 786-3475
Email: tina_racy@fws.gov

--

Angela Matz

Oil Spill and Contaminants Coordinator, Alaska Region

U.S. Fish and Wildlife Service

1011 E. Tudor Road, MS 361

Anchorage, AK 99503

angela_matz@fws.gov

Mobile: 907-750-8527

Landline: 907 786 3483

To: John Pearce[jpearce@usgs.gov]
From: Wendy Loya
Sent: 2018-10-08T19:22:17-04:00
Importance: Normal
Subject: SOW for USGS/FWS Contaminants assessment for Arctic NWR Coastal Plain/1002 area
Received: 2018-10-08T19:22:20-04:00
1002 Contaminants baseline SOW.docx

Hi John,

I just received the statement of work for the collaborative study between David Alvarez (USGS) and Angela Matz (FWS), which is attached. If you need any additional information on this project, let me know.

Cheers,
Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.227.2942 (mobile)

From: Wendy Loya <wendy_loya@fws.gov>
Sent: Wednesday, September 26, 2018 8:53 AM
To: John Pearce <jpearce@usgs.gov>
Subject: RE: USGS contaminants contact?

I have a request in to Angela, and will share as soon as I know..she wasn't at her desk just now.

I believe NSSI funding will allow more sampling in more places and across time. I believe they contributed something along the lines of \$140K, but let me verify. This all happened while I was leading review of the preliminary Leasing DEIS and others helped move this research plan along.

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.227.2942 (mobile)

From: Pearce, John <jpearce@usgs.gov>
Sent: Wednesday, September 26, 2018 8:50 AM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: Re: USGS contaminants contact?

Thanks. Did NSSI contribute to this SOW or other work? Just curious what the overall plan on that is, but I can check with Dave Alvarez too.

John M. Pearce, Ph.D.
Supervisory Wildlife Biologist
Manager, Wetland and Terrestrial Ecosystems Office
U.S. Geological Survey, Alaska Science Center
4210 University Drive
Anchorage, Alaska 99508
Tel. 907.786.7094
Email: jpearce@usgs.gov
<https://www.usgs.gov/staff-profiles/john-m-pearce>

On Wed, Sep 26, 2018 at 8:38 AM, Wendy Loya <wendy_loya@fws.gov> wrote:

Hi John,

The contaminants work is being done in collaboration with:

David Alvarez, Ph.D.
Chief, Environmental Chemistry Branch
USGS Columbia Environmental Research Center

I am attaching the DRAFT statement of work, which is likely different than the final IAA, but Angela Matz is not in. I will forward the final if you would like when I track it down. NSSI contributed significantly more money towards a broader sampling scheme and analysis. Let me know if you have other questions,

Thanks!

Wendy

Dr. Wendy M. Loya,
Arctic Program Coordinator
Office of Science Applications, US Fish and Wildlife Service
Anchorage, Alaska
907.786.3532 (office)
907.227.2942 (mobile)

From: Pearce, John <jpearce@usgs.gov>
Sent: Wednesday, September 26, 2018 8:29 AM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: USGS contaminants contact?

Hi Wendy,

Do you remember the name of the contaminants folks in USGS in the lower 48 that were going to work with Angela Matz on some 1002 area contaminants work?

I just want to include their work in an update to the Department about all USGS work taking place on the North Slope.

Thanks,
John

John M. Pearce, Ph.D.
Supervisory Wildlife Biologist
Manager, Wetland and Terrestrial Ecosystems Office
U.S. Geological Survey, Alaska Science Center
4210 University Drive
Anchorage, Alaska 99508
Tel. 907.786.7094
Email: jpearce@usgs.gov
<https://www.usgs.gov/staff-profiles/john-m-pearce>

To: Matson, Noah[noah_matson@fws.gov]
Cc: Fischbach, Tracy[tracy_fischbach@fws.gov]; Wendy Loya[wendy_loya@fws.gov]; Ameer Howard[amee_howard@fws.gov]; Doug Damberg[doug_damberg@fws.gov]; Ronnie Sanchez[ronnie_sanchez@fws.gov]; Mitch Ellis[mitch_ellis@fws.gov]
From: Lor, Socheata
Sent: 2018-10-09T13:41:14-04:00
Importance: Normal
Subject: Re: Arctic and Izembek
Received: 2018-10-09T13:41:51-04:00
[Arctic Coastal Plain BP 20181009.docx](#)
[Izembek Land Exchange BP 20181009.docx](#)

Noah,

Attached are BPs on Arctic and Izembek. Hope these help for talking points for Steve G. Let us know if you need other info.

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*  
~~~~~

On Thu, Oct 4, 2018 at 11:32 AM, Matson, Noah <noah_matson@fws.gov> wrote:

COB Tuesday if possible. Steve needs them for Thursday.
Thanks!

Noah

On Thu, Oct 4, 2018 at 3:30 PM Lor, Socheata <socheata_lor@fws.gov> wrote:

Noah,

We need to update the BPs on those topics. When do you need them?

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  
~~~~~

On Thu, Oct 4, 2018 at 9:55 AM, Matson, Noah <noah_matson@fws.gov> wrote:

Hi Soch,
I have a request for talking points on current status of Arctic and Izembek for Steve Guertin. Do you have anything off the shelf?

Thanks

Noah Matson
Acting Chief, Division of Natural Resources and Conservation Planning
National Wildlife Refuge System
U.S. Fish and Wildlife Service
noah_matson@fws.gov
(703) 358 2660

To: Socheata Lor[Socheata_Lor@fws.gov]; Wendy Loya[wendy_loya@fws.gov]; John Trawicki[john_trawicki@fws.gov]
From: Damberg, Doug
Sent: 2018-10-10T15:19:14-04:00
Importance: Normal
Subject: Fwd: VIP trip
Received: 2018-10-10T15:19:34-04:00
Draft Itinerary - Marcella Burke.docx

Just an FYI re: VIP trip to Kaktovik in November for Marcella Burke, DOI Deputy Solicitor for Energy and Minerals.

Doug Damberg
Refuge Supervisor, AK North Zone
U.S. Fish and Wildlife Service
1011 E. Tudor Rd.; Anchorage, AK 99503
Office: (907) 786-3329
Cell: (907) 947-6302

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

From: Boario, Sara <sara_boario@fws.gov>
Date: Wed, Oct 10, 2018 at 9:11 AM
Subject: Fwd: VIP trip
To: Joanna Fox <joanna_fox@fws.gov>
Cc: Berendzen, Steve <steve_berendzen@fws.gov>, Howard, Ameer <amee_howard@fws.gov>, Damberg, Doug <doug_damberg@fws.gov>

Hi Joanna -

I know Steve is out this week and next, but wanted to get this to you guys now (so I don't forget to loop back when he returns). As you can see, BLM is organizing a trip to Kaktovik on November 5. I know that Steve is potentially going to be in Kaktovik around that time for polar bear viewing planning -- do you know those dates and if his schedule would allow him to participate with this group on the 5th?

Greg and Karen wanted us to reach out to Steve first before exploring other options.

As always, thanks for your assistance!

sb

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

From: Ellis-Wouters, Lesli <lellis@blm.gov>
Date: Wed, Oct 10, 2018 at 7:14 AM
Subject: VIP trip

0000010383

To: Sara Boario <sara_boario@fws.gov>

Sara,

I've been tasked with putting together an itinerary for Marcella Burke, DOI Deputy Solicitor for Energy and Minerals. She asked for an itinerary similar to the one we did for Kate Macgregor July 2017. I'm attaching one created similar to that. Will someone from FWS be available to do a meeting in Kaktovik on Nov. 5? Let me know, I'm scheduling aircraft now.

Lesli J. Ellis-Wouters

Communications Director
Alaska State Office
Bureau of Land Management
907-271-4418 | cell - 907-331-8763

--

Sara D. Boario
Assistant Regional Director External Affairs
U.S. Fish and Wildlife Service, Alaska Region
Anchorage, Alaska
907 786 3431



To: Wendy Loya[wendy_loya@fws.gov]
From: Kahn, Lynnda
Sent: 2018-10-11T12:15:24-04:00
Importance: Normal
Subject: Re: monthly refuge biologist conference calls
Received: 2018-10-11T12:17:03-04:00

Oh, okay Wendy. Thanks!
I'll let Pat know that I'll provide him with an update later this morning.
Hope you're well.

Lynnda

On Thu, Oct 11, 2018 at 8:14 AM Wendy Loya <wendy_loya@fws.gov> wrote:

I was invited to speak just this once, I was invited by Kristin DuBour, so she would be the first person to ask about joining...I know nothing about the format/invite ☺ I'll reply to your seismic EA update after the call

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)

From: Kahn, Lynnda <lynnnda_kahn@fws.gov>
Sent: Thursday, October 11, 2018 8:12 AM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: monthly refuge biologist conference calls

I just read in the RDT notes that the monthly refuge biologist conference calls are kicking off on Thursday, October 11th at 8:30 am and that you are providing an update on the Arctic NWR oil and gas issue.

Can I participate on these calls?

Lynnda

Lynnda Kahn | Fish & Wildlife Biologist

Kenai National Wildlife Refuge
P.O. Box 2139 | Soldotna, AK 99669
(907) 260-2818

><(((('>_.. ^`..`..><(((('>_.. ^`..`..><(((('>_.. ^`..`..><(((('>_.. ^`..`..><(((('>

To: Murphy, Karen[karen_a_murphy@fws.gov]
Cc: Sara Boario[sara_boario@fws.gov]; Wendy Loya[wendy_loya@fws.gov]
From: Howard, Amee
Sent: 2018-10-12T13:14:49-04:00
Importance: Normal
Subject: Re: language describing our Coastal Plains team
Received: 2018-10-12T13:15:00-04:00

Hi Karen,

This is language from a recent briefing paper:

On December 22, 2017, the Tax Cuts and Jobs Act of 2017, Public Law 115 97 (Tax Act) was signed. Title II, Section 20001 of the Tax Act directs the Secretary of the Interior through the Bureau of Land Management (BLM) to establish and administer a competitive oil and gas program for leasing, developing, producing, and transporting oil and gas in and from the Coastal Plain area in the Arctic National Wildlife Refuge (Arctic Refuge).

As the administrator of the oil and gas program, the BLM is developing an Environmental Impact Statement (EIS) for leasing land for development on the Arctic Refuge Coastal Plain. The Service is a cooperating agency and has been working closely with the BLM staff to develop the draft EIS.

This language was used for a response to House Appropriations staff in August:

At the beginning of the Coastal Plain Leasing Environmental Impact Statement (EIS) process, the U.S. Fish and Wildlife Service (FWS) formed an interdisciplinary team of ~20 FWS biologist and physical scientists from the Alaska region as well as in the Natural Resource Program Center in Colorado, to contribute our knowledge about the Refuge's wildlife and habitat to the planning process led by BLM. Team leaders meet with the BLM project leads on a weekly basis.

Let me know if this will work.

Thanks so much!

Amee

On Fri, Oct 12, 2018 at 8:29 AM Murphy, Karen <karen_a_murphy@fws.gov> wrote:

Hi Amee,

Do you have any language that describes our interdisciplinary team working on the Coastal Plain science/EIS etc.? I'm looking for a short paragraph that has already been "blessed" by Karen and/or Greg. Can you help?

Thanks,
Karen

*Karen A Murphy
Science Applications*

0000010387

907-786-3501
karen_a_murphy@fws.gov

--

Amee Howard

Congressional and State Liaison

U.S. Fish & Wildlife Service

Anchorage, Alaska

Office: (907)786-3509

Mobile: (907)229-8575

Get Inspired

To: Paul Leonard[paul_leonard@fws.gov]
From: Wendy Loya
Sent: 2018-10-12T19:56:05-04:00
Importance: Normal
Subject: RE: [EXTERNAL] Re: report of meeting
Received: 2018-10-12T19:56:18-04:00
Report of Meeting_KDT. FWSdocx.docx

Dr. Wendy M. Loya
Arctic Program Coordinator
US Fish and Wildlife Service, Office of Science Applications
Anchorage, Alaska
907.786.3532 (office)
907.227.2942 (mobile)

From: Leonard, Paul <paul_leonard@fws.gov>
Sent: Friday, October 12, 2018 3:42 PM
To: Wendy Loya <wendy_loya@fws.gov>
Subject: Fwd: [EXTERNAL] Re: report of meeting

----- Forwarded message -----
From: Ken Tape <kdtape@alaska.edu>
Date: Fri, Oct 12, 2018 at 3:04 PM
Subject: [EXTERNAL] Re: report of meeting
To: Matthew Sturm <msturm1@alaska.edu>
Cc: Charles Parr <cparr4@alaska.edu>, Paul Leonard <paul_leonard@fws.gov>

Hi Matthew,

Great job on the brief report. I made some minor comments; use 'em or lose 'em.

Thanks,
Ken

On Fri, Oct 12, 2018 at 1:16 PM, Matthew Sturm <msturm1@alaska.edu> wrote:

Dear Paul, Ken and Charlie:

As discussed, there is a DRAFT report of meeting, the agenda, and the attendee list. Charlie has all the talks. Collectively, these will be the report of meeting.

I need:

- additions/deletions to the attendee list
- edits to the Report of Meeting.

I leave Sunday, so if possible, even today it would be good if Charlie has a final text of the Report and the other two documents. He will then figure out how to create a "Public" website (or GoogleDoc) that people can go to to get the info.

Thanks all.

Matthew

Dr. Matthew Sturm

Geophysical Institute

903 Koyukuk Drive

University of Alaska

Fairbanks, AK 99775 7320

907 474 5257

--

Ken D. Tape
Research Associate Professor
Snow, Ice, & Permafrost Group
Geophysical Institute
University of Alaska Fairbanks
401E Elvey Building
office: (907) 474-1967
cell: (907) 687-1997
<https://sites.google.com/a/alaska.edu/kentape/>

--

Paul Leonard, PhD
Science Coordinator
Arctic LCC
101 12th Ave. Room 216
Fairbanks, AK 99701
(907) 456-0445

To: Matz, Angela[angela_matz@fws.gov]
Cc: Wendy Loya[wendy_loya@fws.gov]
From: Racy, Tina
Sent: 2018-10-15T10:37:33-04:00
Importance: Normal
Subject: Re: Final Contaminants IAA?
Received: 2018-10-15T10:38:17-04:00
[1002 Contaminants baseline SOW.docx](#)
[4500125172 USGS.pdf](#)

Here is what I have.

~~~~~  
Tina Y. Racy  
Budget Analyst  
Region 7 - Fisheries/Ecological Services & Science Applications

US Fish & Wildlife Service  
1011 E. Tudor Road MS 361  
Anchorage, AK 99503

Phone: (907) 786-3475  
Email: [tina\\_racy@fws.gov](mailto:tina_racy@fws.gov)

On Wed, Oct 3, 2018 at 9:13 AM Matz, Angela <[angela\\_matz@fws.gov](mailto:angela_matz@fws.gov)> wrote:

Hi Tina,  
Could you send the final paperwork for the IAA with Columbia Environmental Research Lab to both me and Wendy?

Wendy, I'll follow up with the total project budget.

Thanks, Angela

On Wed, Sep 26, 2018 at 8:39 AM Wendy Loya <[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)> wrote:

Hi Angela,

Do you have a copy of the final USGS IAA Statement of work I could have for our 1002 files? Also, if there is a final budget amount that is different than the IAA, that would be good to know also.

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)

907.227.2942 (mobile)

--

*Angela Matz  
Oil Spill and Contaminants Coordinator, Alaska Region  
U.S. Fish and Wildlife Service  
1011 E. Tudor Road, MS 361  
Anchorage, AK 99503  
[angela\\_matz@fws.gov](mailto:angela_matz@fws.gov)  
Mobile: 907 750 8527  
Landline: 907 786 3483*

**To:** Wendy Loya[wendy\_loya@fws.gov]; David Wigglesworth[david\_wigglesworth@fws.gov]  
**Cc:** Granfors, Diane[diane\_granfors@fws.gov]  
**From:** Powers, Elizabeth  
**Sent:** 2018-10-15T16:50:33-04:00  
**Importance:** Normal  
**Subject:** Re: 1002 science planning  
**Received:** 2018-10-15T16:50:51-04:00

Hi Wendy, Diane and David,

Do you have any updates relating to the Science Advisory group?

I am leaving the USFWS at the end of this week so I have included David Wigglesworth in this email. I would appreciate if you could make sure David is aware of the status of the science advisory group and coordination needs for the NWI/NHD/ landcover mapping projects.

Thanks,  
Elizabeth

On Wed, Sep 26, 2018 at 10:10 AM Wendy Loya <[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)> wrote:

Hi Elizabeth,

We will discuss how to organize the science advisory group today at our 1002 Point of Contact (POCs) meeting and should be doing outreach soon after. What I envision as that we have a standing group of divisional POCs and partners agency POCs that share info with their team, as that has worked well for the NEPA process. This would include working with FWS staff that partner with contractors or are project PIs to help ensure cross collaboration, which could include participating in research coordination meetings, logistic coordination meetings and data management discussions (that is my preliminary list of topics to tackle).

I am open to see how it will work best, whether FWS staff can represent internal and external needs, or if we do need to include project leads (like Aaron Wells). No charter or bylaws, so we can adapt as we go! LOL.

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)

**From:** Powers, Elizabeth <[elizabeth\\_powers@fws.gov](mailto:elizabeth_powers@fws.gov)>  
**Sent:** Wednesday, September 26, 2018 9:40 AM  
**To:** Wendy Loya <[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)>  
**Cc:** Granfors, Diane <[diane\\_granfors@fws.gov](mailto:diane_granfors@fws.gov)>; Scott Guyer <[sguyer@blm.gov](mailto:sguyer@blm.gov)>; Paul Leonard <[paul\\_leonard@fws.gov](mailto:paul_leonard@fws.gov)>; Joshua Rose <[joshua\\_rose@fws.gov](mailto:joshua_rose@fws.gov)>  
**Subject:** Re: Info on aviation logistics for 1002 next summer

Thank you for forwarding the information from Steve B and initiating the development of a 1002 science advisory group. Do you intend to include the project leads (i.e. Aaron Wells) in this group?

If no, it would be helpful to bring the project leads together to discuss the scope of their projects. There will be a lot of overlap with baseline data needs (veg maps, imagery, etc) and field data collection (veg type, plot photos).

FYI, yesterday the notice of award letter for the NWI & NHD mapping was sent to St. Mary's University, Minnesota. Andrew Robertson is the project lead. I will fill him about the need for logistical coordination and potential opportunities for collaboration with ABR.

I attached the NWI/NHD project narrative.

Cheers,

Elizabeth

On Mon, Sep 24, 2018 at 12:46 PM Wendy Loya <[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)> wrote:

Hi 1002 Veg team,

Forwarding this email from Steve B, which was a delayed response to a May inquiry about the extent of veg mapping. But helicopter/aviation use in 1002 next summer is going to require careful coordination. We have a number of projects, including the veg mapping, NHD/NWI, contaminants, USGS SSP proposals, as well as potential final cleanup from winter seismic operations that could have a significant impact on summer wildlife and recreation users.

I'm hoping to bring together a science advisory team in the next week or two to help ensure we have as much coordination across projects as possible as well as working towards effective data management.

More soon!

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)

**From:** Berendzen, Steve <[steve\\_berendzen@fws.gov](mailto:steve_berendzen@fws.gov)>

**Sent:** Friday, September 21, 2018 3:42 PM

**To:** Loya, Wendy <[Wendy\\_loya@fws.gov](mailto:Wendy_loya@fws.gov)>

**Cc:** Joanna Fox <[joanna\\_fox@fws.gov](mailto:joanna_fox@fws.gov)>; Paul Leonard <[paul\\_leonard@fws.gov](mailto:paul_leonard@fws.gov)>; Joshua Rose <[joshua\\_rose@fws.gov](mailto:joshua_rose@fws.gov)>

**Subject:** Re: Info request relating to helicopter use in Wilderness for veg mapping of coastal plain

Wendy,

I was just reminded of this email and your question about helicopter use in Wilderness outside the 1002 Area. Sorry that I missed this email back when you sent it, but we've been scratching our heads trying to determine how we'll accommodate the logistical needs for all the field work that's tentatively planned for next summer.

The answer to your specific question about helicopter use in Wilderness, is no, we don't even want to consider doing an MRA and undergo the process and public review that would not serve us well from my perspective. I think we'll have to be content to get veg mapping for just the 1002 Area.

Another complication for all activities is that we have been denied the opportunity to place a bulk fuel tank at the Kaktovik airport. We'll continue pursuing this, but I have no expectation that we could get approval in time to get a tank placed for fuel use next summer. The alternative to this that we've been telling people is to get fuel from Kavik (b) (5) DEP [REDACTED], or to place fuel at an airstrip inside the 1002 such as Jago Bitty.

Josh did a rough estimate of fuel needs for next summer and it's in the ballpark of 2,000 - 4,000 gallons needed - probably closer to the larger number. We'll have complications transporting and storing that much fuel at Jago Bitty, so we should ideally talk among ourselves about project priorities and see if there are opportunities to reduce logistical needs or possibly even back off on the schedule of anything.

Another item that I need to get out in the open for all to be aware of and to pass on to project coordinators is that we don't anticipate being able to provide lodging at the Barter Island bunkhouse. The daily flights in and out of Barter Island crippled relations with some of the local residents last summer, so we want aircraft to avoid Barter Island as much as possible. Also, it looks like the bunkhouse will be filled up most of the summer anyway.

If we could get together some time in the near future to discuss, that would be appreciated.

Steve Berendzen

Refuge Manager, Arctic National Wildlife Refuge

907-456-0253

On Thu, May 31, 2018 at 9:33 AM Wendy Loya <[Wendy\\_loya@fws.gov](mailto:Wendy_loya@fws.gov)> wrote:

Hi Steve and Joanna,

We are working towards a map of the area of interest for an updated vegetation map of the Arctic Refuge Coastal Plain. Janet and others provided the attached map, which shows the 1002 area in a dotted line but the broader coastal plain area within the red line. Ideally we would update veg mapping of the entire coastal plain, but that would cross into Designated Wilderness to the east and south of the 1002 area. Methods for doing the veg mapping would include intensive helicopter use over several days (1-3 days I would imagine for the Wilderness area, out of 10 days total intensive surveys).

We are only at the stage of writing a Statement of work to seek a contractor, but want to make sure we don't ask for surveys in an area that would not be accessible.

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)

0000010397

**To:** edward\_decleva@fws.gov[edward\_decleva@fws.gov]  
**From:** Wendy Loya  
**Sent:** 2018-10-16T10:27:18-04:00  
**Importance:** Normal  
**Subject:** Fwd: Coastal Plain Oil and Gas Leasing Program - Development of a Program PA  
**Received:** 2018-10-16T10:27:25-04:00

Good morning,

Below is the meeting info, they have a meeting room at BLM downtown or a phone line. I will attend also, but will be going there directly from another meeting downtown from 8-9. There is free visitor parking for the federal bldg in the lot to the west, across C st. A few spots in the row closest to C St and then more marked in other rows.

Thank you, glad you are able to go.

Wendy

Dr. Wendy M. Loya  
Arctic Program Coordinator  
US Fish and Wildlife Service, Office of Science Applications  
Anchorage, Alaska  
907.786.3532 (office)  
907.227.2942 (mobile)

Begin forwarded message:

**From:** "Miriam (Nicole) Hayes" <[mnhayes@blm.gov](mailto:mnhayes@blm.gov)>  
**To:** "[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)" <[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)>, "[tmcculloch@achp.gov](mailto:tmcculloch@achp.gov)" <[tmcculloch@achp.gov](mailto:tmcculloch@achp.gov)>, "[r2king@blm.gov](mailto:r2king@blm.gov)" <[r2king@blm.gov](mailto:r2king@blm.gov)>, "[paul.lawrence@srbak.com](mailto:paul.lawrence@srbak.com)" <[paul.lawrence@srbak.com](mailto:paul.lawrence@srbak.com)>, "[chad.ricklefs@empfi.com](mailto:chad.ricklefs@empfi.com)" <[chad.ricklefs@empfi.com](mailto:chad.ricklefs@empfi.com)>, "[judy.bittner@alaska.gov](mailto:judy.bittner@alaska.gov)" <[judy.bittner@alaska.gov](mailto:judy.bittner@alaska.gov)>, "[jkeeney@blm.gov](mailto:jkeeney@blm.gov)" <[jkeeney@blm.gov](mailto:jkeeney@blm.gov)>, "[jake.anders@srbak.com](mailto:jake.anders@srbak.com)" <[jake.anders@srbak.com](mailto:jake.anders@srbak.com)>, "[steve\\_berendzen@fws.gov](mailto:steve_berendzen@fws.gov)" <[steve\\_berendzen@fws.gov](mailto:steve_berendzen@fws.gov)>, "[stephen.braund@srbak.com](mailto:stephen.braund@srbak.com)" <[stephen.braund@srbak.com](mailto:stephen.braund@srbak.com)>  
**Subject:** Coastal Plain Oil and Gas Leasing Program - Development of a Program PA

You have been invited to the following event.

Title: Coastal Plain Oil and Gas Leasing Program - Development of a Program PA

To discuss BLM's proposed path forward for development of a Programmatic Agreement for compliance with Section 106 of the NHPA for the Coastal Plain Leasing Program EIS. If this time will not work, please advise as soon as

possible. An agenda will be forthcoming. Thank you!

When: Tue Oct 16, 2018 9:30am - 10:30am Alaska Time - Anchorage

Where: BLM AK State Office - Knik Room or Teleconference: (b) (5) CIP, passcode (b) (5) CIP, BLM-AK SO Knik Room

Video call: [https://hangouts.google.com/hangouts/\\_/doi.gov/mnhayes](https://hangouts.google.com/hangouts/_/doi.gov/mnhayes)

<[https://hangouts.google.com/hangouts/\\_/doi.gov/mnhayes?hceid\\_bW5oYXllc0BibG0uZ292.261pegk74ssotsun9radtrc97j](https://hangouts.google.com/hangouts/_/doi.gov/mnhayes?hceid_bW5oYXllc0BibG0uZ292.261pegk74ssotsun9radtrc97j)>

Calendar: [wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)

Who:

- \* [mnhayes@blm.gov](mailto:mnhayes@blm.gov) - organizer
- \* [tmcculloch@achp.gov](mailto:tmcculloch@achp.gov)
- \* [r2king@blm.gov](mailto:r2king@blm.gov)
- \* [paul.lawrence@srbak.com](mailto:paul.lawrence@srbak.com)
- \* [chad.ricklefs@empsi.com](mailto:chad.ricklefs@empsi.com)
- \* [judy.bittner@alaska.gov](mailto:judy.bittner@alaska.gov)
- \* [jkeeney@blm.gov](mailto:jkeeney@blm.gov)
- \* [jake.anders@srbak.com](mailto:jake.anders@srbak.com)
- \* [steve\\_berendzen@fws.gov](mailto:steve_berendzen@fws.gov)
- \* [wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)
- \* [stephen.braund@srbak.com](mailto:stephen.braund@srbak.com)

Event details:

<https://www.google.com/calendar/event?action=VIEW&eid=MjYxcGVnazc0c3NvdHN1bjlyYWR0cmM5N2kgd2VuZHlfG95YUBmd3MuZ292&tok=MTUjbW5oYXllc0BibG0uZ292NmNmY2MyOTNhMjVhZmUwZDIzMDM1NTc1ZDU3NGI5ZmUyNjc5ZDE0MA&ctz=America%2FAnchorage&hl=en&es=1>

Invitation from Google Calendar: <https://www.google.com/calendar/>

You are receiving this email at the account [wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov) because you are subscribed for invitations on calendar [wendy\\_loya@fws.gov](mailto: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 at

<https://support.google.com/calendar/answer/37135#forwarding>

**To:** Wendy Loya[wendy\_loya@fws.gov]  
**From:** Pearce, John  
**Sent:** 2018-10-19T15:00:09-04:00  
**Importance:** Normal  
**Subject:** Fwd: USFWS Alaska Region Recommendations for FY2019 QRP/SSP  
**Received:** 2018-10-19T15:00:27-04:00  
[QRP FY2019 R7StudyPlan Caribou 20180815 Final.docx](#)  
[QRP FY2019 R7StudyPlan PB monitoring plan Final.docx](#)  
[SSP FY2019 R7StudyPlan 1002birdmodeling Final.docx](#)  
[SSP FY2019 R7StudyPlan CanningRiverDollyVarden Final.docx](#)  
[SSP FY2019 R7StudyPlan Groundwater Final.docx](#)  
[SSP FY2019 R7StudyPlan PB Den Disturbance Final.docx](#)  
[2019 FWS Transmittal memo to USGS QRP SSP funding recs 091418.pdf](#)

John M. Pearce, Ph.D.  
Supervisory Wildlife Biologist  
Manager, Wetland and Terrestrial Ecosystems Office  
U.S.Geological Survey, Alaska Science Center  
4210 University Drive  
Anchorage, Alaska 99508  
Tel. 907.786.7094  
Email: [jpearce@usgs.gov](mailto:jpearce@usgs.gov)  
<https://www.usgs.gov/staff-profiles/john-m-pearce>

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

**From:** Pearce, John <[jpearce@usgs.gov](mailto:jpearce@usgs.gov)>  
**Date:** Wed, Sep 19, 2018 at 11:34 AM  
**Subject:** Fwd: USFWS Alaska Region Recommendations for FY2019 QRP/SSP  
**To:** Steve Berendzen <[steve\\_berendzen@fws.gov](mailto:steve_berendzen@fws.gov)>  
**Cc:** Grant Hilderbrand <[ghilderbrand@usgs.gov](mailto:ghilderbrand@usgs.gov)>

Dear Steve,

Sending to USGS for consult  
[Redacted content]

Best Regards,  
John

John M. Pearce, Ph.D.  
Supervisory Wildlife Biologist  
Manager, Wetland and Terrestrial Ecosystems Office  
U.S. Geological Survey, Alaska Science Center  
4210 University Drive  
Anchorage, Alaska 99508  
Tel. 907.786.7094  
Email: [jpearce@usgs.gov](mailto:jpearce@usgs.gov)  
<https://www.usgs.gov/staff-profiles/john-m-pearce>

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

From: **Wendy Loya** <[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)>  
Date: Fri, Sep 14, 2018 at 9:44 AM  
Subject: USFWS Alaska Region Recommendations for FY2019 QRP/SSP  
To: Aimee Devaris <[adevaris@usgs.gov](mailto:adevaris@usgs.gov)>  
Cc: Steven Hilburger <[shilburger@usgs.gov](mailto:shilburger@usgs.gov)>, Christian Zimmerman <[czimmerman@usgs.gov](mailto:czimmerman@usgs.gov)>, John Pearce <[jpearce@usgs.gov](mailto:jpearce@usgs.gov)>

Dear Aimee,

Attached is the memorandum identifying the U.S. Fish and Wildlife Service Alaska Region's recommendations for FY2019 Quick Response Program (QRP) and Science Support Partnership (SSP) research funding, as well as the full proposals we considered. The FY2019 QRP/SSP opportunity was focused on addressing science needs that are clearly linked to Service program priorities and management decisions related to implementing an oil and gas program on the coastal plain (1002 area) of the Arctic National Wildlife Refuge.

We greatly appreciate John Pearce and your science team's assistance in identifying research ideas to help meet our high priority information needs, and look forward to working with you in the coming year. Please let me know if you have any questions.

Sincerely,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)

**To:** Wendy Loya[wendy\_loya@fws.gov]  
**From:** Powers, Elizabeth  
**Sent:** 2018-10-19T16:58:20-04:00  
**Importance:** Normal  
**Subject:** Fwd:  
**Received:** 2018-10-19T16:58:34-04:00  
1002 Logistical Considerations.docx

Elizabeth Powers, PhD  
Regional NWI Coordinator  
U.S. Fish and Wildlife Services  
1011 E. Tudor Rd., MS 281  
Anchorage, AK 99503  
Tel: 907 786 3914  
Cell: 907 887 1225

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

**From:** Powers, Elizabeth <[elizabeth\\_powers@fws.gov](mailto:elizabeth_powers@fws.gov)>  
**Date:** Fri, Oct 19, 2018 at 10:33 AM  
**Subject:**  
**To:** Andy Robertson <[aroberts@smumn.edu](mailto:aroberts@smumn.edu)>  
**Cc:** David Wigglesworth <[david\\_wigglesworth@fws.gov](mailto:david_wigglesworth@fws.gov)>

Hi Andy,

I wanted to provide some additional information about logistical considerations for the 1002 mapping project. In previous conversations I mentioned that there are several other projects in the Arctic NWR that are either starting up next summer or ongoing. This will require coordination among PIs to work through field logistics, identify opportunities to share baseline data, and increase efficiency with field data collection.

For example, the PIs for Landcover mapping have pulled together baseline imagery, vegetation data and existing literature in the 1002. This information will be useful for multiple projects, so I'd like to make sure that the PIs are aware of the other project activities and share information as needed. I also think it is important that the NWI, NHD, Landcover and any other mapping projects map to the same imagery. I would be happy to fill you in about what was discussed in the Landcover scoping meeting this week.

Have you started to consider baseline data needs, timing of field work, number of days in the field and plot locations for the NWI and NHD?

When you have time, could you provide us with details about the following:

- Potential timing of field work, number of days in the field
- Is the timing of field work flexible?
- Helicopter needs (# of days, hours per day, type of helicopter)
- Estimate of # gallons of fuel needed
- Plot locations or general geography of field locations
- Need to access Wilderness land?

- Need to access KIC land?

It will be very beneficial to get the PIs together to give a brief overview of their project, what data is being collected in the field, and field logistical considerations. Wendy Loya (USFWS Arctic Science Coordinator) will assemble a science advisory group to help coordinate the projects. I believe you should see an email coming from Wendy Loya Wendy Loya ([wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)) soon. Josh Rose ([joshua\\_rose@fws.gov](mailto:joshua_rose@fws.gov)) has a pretty good understanding of some of the logistical challenges and may be able to answer questions relating about field access, fuel, etc.

I attached a document with some logistical considerations that were discussed during the Landcover scoping meeting earlier this week. I hope this is helpful.

Elizabeth

Elizabeth Powers, PhD  
Regional NWI Coordinator  
U.S. Fish and Wildlife Services  
1011 E. Tudor Rd., MS 281  
Anchorage, AK 99503  
Tel: 907 786 3914  
Cell: 907 887 1225

**To:** Karen Murphy[karen\_a\_murphy@fws.gov]  
**From:** Wendy Loya  
**Sent:** 2018-10-19T18:54:19-04:00  
**Importance:** Normal  
**Subject:** draft 2019 Arctic Program Plan  
**Received:** 2018-10-19T18:54:28-04:00  
DRAFT Arctic Program Proposal for 2019 101818.docx

Hi Karen,

I hope you are feeling better. Attached is my draft for the Arctic Program. Although I'll still probably make some revisions this weekend, I would welcome your feedback on whether it needs more narrative or obvious omissions or concerns.

It's been a Monday version of a Friday!  
Wendy

Dr. Wendy M. Loya  
Arctic Program Coordinator  
US Fish and Wildlife Service, Office of Science Applications  
Anchorage, Alaska  
907.786.3532 (office)  
907.227.2942 (mobile)

**To:** Wendy Loya[wendy\_loya@fws.gov]; Drew Crane[drew\_crane@fws.gov]; Joshua Rose[Joshua\_Rose@fws.gov]  
**From:** Matz, Angela  
**Sent:** 2018-10-22T13:35:53-04:00  
**Importance:** Normal  
**Subject:** Fwd: [fws-ec-tech] Fwd: [EXTERNAL] Invitation to ASWM Pipeline Permitting Webinar, Monday, October 29, 3pm ET  
**Received:** 2018-10-22T13:37:30-04:00

FYI - may be of interest to staff involved in 1002 issues.

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

**From:** Kravitz, Christina <christina\_kravitz@fws.gov>  
**Date:** Mon, Oct 22, 2018 at 6:38 AM  
**Subject:** [fws-ec-tech] Fwd: [EXTERNAL] Invitation to ASWM Pipeline Permitting Webinar, Monday, October 29, 3pm ET  
**To:** EC Listserve <fws-ec-tech@lists.fws.gov>  
**Cc:** Moira McKernan <mmckernan@blm.gov>, Rachel London <Rachel\_London@fws.gov>

FYI -

\*\*\*\*\*  
\*\*\*\*\*

Christina D. Kravitz  
National NRDAR Coordinator  
U.S. Fish & Wildlife Service  
MS: ES

5275 Leesburg Pike  
Falls Church, VA 22041-3803  
(703) 358-1782 (w)  
(703) 626-7485 (c)

**Note:** I am in the office Wed afternoons and Thr mornings; otherwise I work from home. When at home, you can call my cell directly at (703) 626-7485 during business hours. (I do try to forward my work phone to my cell, too).

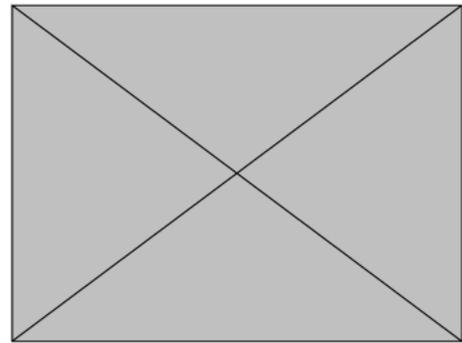
[christina\\_kravitz@fws.gov](mailto:christina_kravitz@fws.gov)

\*\*\*\*\*

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

**From:** Brenda Zollitsch <brenda@aswm.org>  
**Date:** Mon, Oct 22, 2018 at 10:06 AM  
**Subject:** [EXTERNAL] Invitation to ASWM Pipeline Permitting Webinar, Monday, October 29, 3pm ET  
**To:** <christina\_kravitz@fws.gov>





*Photo Credit: NJ DEP*

You are invited to join us for our next webinar in ASWM's Pipeline Permitting Webinar Series.

## **Horizontal Directional Drilling: Understanding Context when Reviewing Oil and Gas Pipeline Permit Applications**

**Monday, October 29, 2018 – 3-5 pm ET**

### **Presenters:**

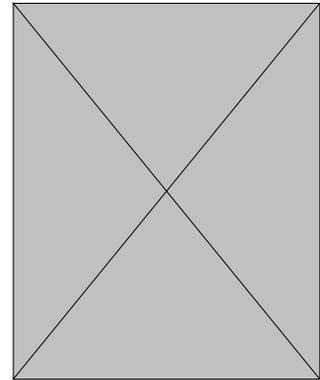
- Patrick Ryan, New Jersey Department of Environmental Protection
- Rick Gitar, Fond du Lac Reservation
- Clifford Brown, West Virginia Department of Natural Resources
- Brenda Zollitsch, Association of State Wetland Managers
- Richard Dalton, New Jersey Department of Environmental Protection

### **ABSTRACT**

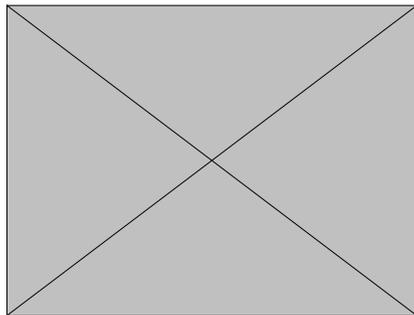
Horizontal Directional Drilling (HDD) is often considered a best practice for pipeline construction. However, in practice, HDD is only appropriate in certain contexts. This webinar will start with a geology primer identifying contexts where HDD both commonly works and does not work well and why. Next, the state and tribal regulators will share their perspectives on reviewing permits that include HDD and some of their

lessons learned. They will share the kinds of information that it is beneficial for reviewers to request and common considerations when reviewing and conditioning permit applications that include proposed HDD. Alternatives to HDD and their strengths and weaknesses will also be discussed. The webinar will conclude with information about new resources for those working on pipeline permitting efforts that will soon be available on the Association of State Wetland Managers' website.

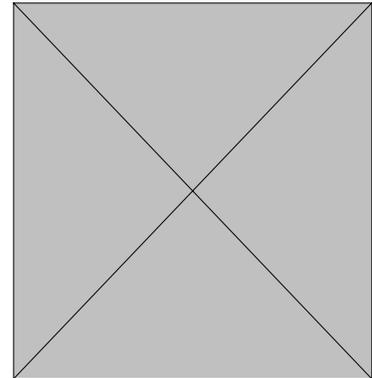
## **BIOS**



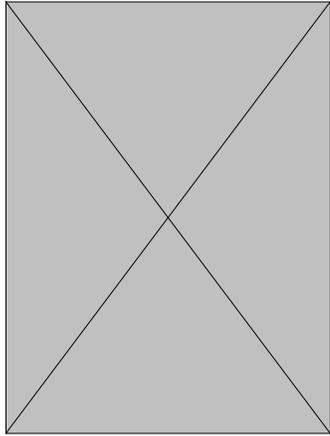
**Patrick Ryan** is an Environmental Supervisor within the Division of Land Use Regulation at the New Jersey Department of Environmental Protection. He supervises a permitting staff responsible for environmental reviews of wetlands, highlands, waterfront, and flood hazard area permit applications for northern New Jersey. Mr. Ryan has a M.S. in Ecology from Penn State University and a B.S. in Natural Resource Management from Cook College, Rutgers University.



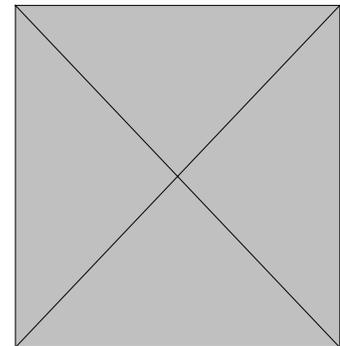
**Clifford Brown** has worked for West Virginia Division of Natural Resources, Wildlife Resources Section, since 1989 and currently serves in the DNR Environmental Coordination Unit as the lead for oil and gas related activities. Responsibilities include review of Section 401 applications, coordination with WVDEP and USEPA for mitigation and restoration associated with administrative orders and consent decrees, coordination with USFWS related to the National Wildlife Refuge System, Section 7 of the Endangered Species Act, Migratory Bird Treaty Act and the Wildlife and Sport Fish Restoration Program, coordination with the USFS for oil and gas projects on the Monongahela, George Washington and Jefferson National Forests in West Virginia, and serves on the AFWA Energy and Wildlife Policy Committee and the agency coordinator for review of FERC projects in West Virginia. He holds a B.S. in Biology and a M.S. in Wildlife and Fisheries Science from the Pennsylvania State University.



**Rick Gitar** is the Water Regulatory Specialist and Tribal Inspector for the Fond du Lac Reservation – Office of Water Protection, located in northeast Minnesota, where he has worked for over 20 years. He is the administer of Fond du Lac's Wetlands Protection and Management Ordinance, their Clean Water Act 401 Water Quality Certification program, and provides CWA Section 402 oversight for projects on the Reservation. Rick is also a credentialed inspector for EPA, conducting compliance inspections in the areas of wetlands and storm water. He conducts Fond du Lac's environmental reviews under NEPA and the tribe's Tribal Environmental Policy Act Ordinance. Rick received a double major B.S. in Biology (Botany Focus) and Journalism from the University of Wisconsin – Superior and a M.S. in Environmental Biology (Botany Focus) from the University of Minnesota – Duluth. Rick is also a Master Herbalist and teaches adult extension classes. He is currently enrolled in the online Doctorate of Herbal Medicine Program with AMNAH College.



**Brenda Zollitsch, PhD** is Policy Analyst at the Association of State Wetland Managers, leading ASWM's research on wetland and stream issues. She has been the PI on an ongoing multi-year project exploring ways to increase the effectiveness and efficiency of state and tribal permitting of oil and gas pipeline projects. In addition to her work for ASWM, Brenda serves as adjunct faculty at the University of Southern Maine's Muskie School of Public Service teaching courses in public policy. She also assists water resource collaborations as a strategic planner and professional facilitator. Brenda holds her PhD in Public Policy from the University of Southern Maine's Muskie School of Public Service and a double Masters' degree in International Relations and Environmental Resource Management from Boston University.



**Richard Dalton** Richard Dalton is a Manager 4 in the Office of the State Geologist, Division of Water Supply and Geoscience at the New Jersey Department of Environmental Protection.

**More information and registration can be found at**

**<https://www.aswm.org/aswm/aswm-webinarscalls/4241-energy-webinar-future#webinar102918>**

*A Certificate of Participation to be used toward Continuing Education Credits will be available for this Webinar. Free Certificates of Participation are a benefit of ASWM membership. Non-Members who request a certificate will be charged a processing fee of \$25.00. Certificates are not available for viewing recorded webinars. More Information can be found at <https://www.aswm.org/aswm/aswm-webinarscalls/9887-about-certificates-of-participation>.*

We hope you will join us.

Brenda Zollitsch, Policy Analyst  
Association of State Wetland Managers  
32 Tandberg Trail, Suite 2A  
Windham, Maine 04062  
(207) 892-3399  
[Brenda@aswm.org](mailto:Brenda@aswm.org)

---

©2018 Association of State Wetland Managers | 32 Tandberg Trail, Ste. 2A, Windham, ME 04062

---

Powered by **Mad Mimi**®A GoDaddy® company

--

Angela Matz  
Oil Spill and Contaminants Coordinator, Alaska Region  
U.S. Fish and Wildlife Service  
1011 E. Tudor Road, MS 361  
Anchorage, AK 99503  
[angela\\_matz@fws.gov](mailto:angela_matz@fws.gov)  
Mobile: 907 750 8527  
Landline: 907 786 3483

0000010411

**To:** Doug Damberg[doug\_damberg@fws.gov]  
**From:** Wendy Loya  
**Sent:** 2018-10-22T14:07:54-04:00  
**Importance:** Normal  
**Subject:** status of Ed this week?  
**Received:** 2018-10-22T14:13:33-04:00

Hi Doug,

Can you give me a ring, wondering about Ed's schedule this week.  
X3532

Thanks!  
Wendy

Dr. Wendy M. Loya  
Arctic Program Coordinator  
US Fish and Wildlife Service, Office of Science Applications  
Anchorage, Alaska  
907.786.3532 (office)  
907.227.2942 (mobile)

**From:** Damberg, Doug <doug\_damberg@fws.gov>  
**Sent:** Monday, October 22, 2018 9:50 AM  
**To:** [eugene\\_marino@fws.gov](mailto:eugene_marino@fws.gov)  
**Cc:** Edward Decleva <[edward\\_decleva@fws.gov](mailto:edward_decleva@fws.gov)>; Wendy Loya <[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)>  
**Subject:** Are you available for a Thursday mtg? Fwd: Sec 106 meeting: additional FWS expertise needed?

Eugene:

The 106 compliance strategy related to oil and gas development in the Arctic Refuge Coastal Plain 1002 area is currently being developed. It's not clear (at least to many of us at this point) how this will be handled. We may need some additional assistance with the process. Are you available to join a conference call this Thursday to listen in? In the event we need additional help this will provide important background information for you, and it will also be informative if you are involved with 1002 discussions at the national level. Ed DeClava is out this week, but may be planning on calling in - he is deeply involved with the process as well.

The call in information is below (Thursday Oct 25th at 2:30pm ET).

I'm around today but will be on travel through Thursday. If you have any questions, please call my cell or better yet, give Wendy Loya a call at the number listed below.

Thanks much!  
d

Doug Damberg  
Refuge Supervisor, AK North Zone  
U.S. Fish and Wildlife Service

1011 E. Tudor Rd.; Anchorage, AK 99503  
Office: (907) 786-3329  
Cell: (907) 947-6302

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

From: **Wendy Loya** <[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)>  
Date: Fri, Oct 19, 2018 at 10:14 AM  
Subject: Sec 106 meeting: additional FWS expertise needed?  
To: Doug Damberg <[doug\\_damberg@fws.gov](mailto:doug_damberg@fws.gov)>

Doug,

I would be grateful if you could help consider whether additional expertise to this process of issuing a Programmatic Agreement for addressing Sec 106 compliance for the Arctic NWR Coastal Plain (1002) Leasing EIS that is under development. Ed Declava was at the first meeting and clearly understands the process, but my lack of experience makes it difficult for me to know how to report back to the RD office if there are any divergent views on FWS role and interests.

The meeting described below for next Thursday will include tribes --that are described as being consulting parties, so it is likely to delve into specific issues, but overall should be focused on the process for completing a Programmatic Agreement.

Forwarded meeting info:

Coastal Plain Oil and Gas Leasing Program - Section 106 of NHPA

Hi everyone! This teleconference is being set up to discuss development of a Programmatic Agreement (PA) with the signatories and consulting parties for the Coastal Plain Oil and Gas Leasing Program. Additional details will be provided in a letter later this week, and an agenda will be provided PRIOR to the meeting time on 10/25.

Please see the Advisory Council on Historic Preservation's handbook "Protecting Historic Properties: A Citizen's Guide to Section 106 Review" at <https://www.achp.gov/sites/default/files/documents/2017-01/CitizenGuide.pdf> for more information about the Section 106 process.

When Thu Oct 25, 2018 10:30am – 1:30pm Alaska Time - Anchorage

Where Teleconference (b) (5) CIP passcode (b) (5) CIP BLM-AK State Office Kodiak A Room - 222 W. 7th Ave, 4th Flr, BLM-AK SO Kodiak A Room ([map](#))

Thank you,  
Wendy

Dr. Wendy M. Loya  
Arctic Program Coordinator  
US Fish and Wildlife Service, Office of Science Applications  
Anchorage, Alaska  
907.786.3532 (office)  
907.227.2942 (mobile)

0000010413

**To:** Wendy Loya[wendy\_loya@fws.gov]  
**From:** Damberg, Doug  
**Sent:** 2018-10-22T14:20:27-04:00  
**Importance:** Normal  
**Subject:** Fwd: Are you available for a Thursday mtg? Fwd: Sec 106 meeting: additional FWS expertise needed?  
**Received:** 2018-10-22T14:21:05-04:00

can you send a calendar invite to Eugene? He can make the meeting and requested an invite.  
Thx,

Doug Damberg  
Refuge Supervisor, AK North Zone  
U.S. Fish and Wildlife Service  
1011 E. Tudor Rd.; Anchorage, AK 99503  
Office: (907) 786-3329  
Cell: (907) 947-6302

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

**From:** Marino, Eugene <[eugene\\_marino@fws.gov](mailto:eugene_marino@fws.gov)>  
**Date:** Mon, Oct 22, 2018 at 10:18 AM  
**Subject:** Re: Are you available for a Thursday mtg? Fwd: Sec 106 meeting: additional FWS expertise needed?  
**To:** Damberg, Doug <[doug\\_damberg@fws.gov](mailto:doug_damberg@fws.gov)>

Hi Doug;  
I am happy to join. Would you send me a calendar invite.

Eugene

On Mon, Oct 22, 2018 at 1:50 PM, Damberg, Doug <[doug\\_damberg@fws.gov](mailto:doug_damberg@fws.gov)> wrote:

Eugene:  
The 106 compliance strategy related to oil and gas development in the Arctic Refuge Coastal Plain 1002 area is currently being developed. It's not clear (at least to many of us at this point) how this will be handled. We may need some additional assistance with the process. Are you available to join a conference call this Thursday to listen in? In the event we need additional help this will provide important background information for you, and it will also be informative if you are involved with 1002 discussions at the national level. Ed DeClava is out this week, but may be planning on calling in - he is deeply involved with the process as well.

The call in information is below (Thursday Oct 25th at 2:30pm ET).

I'm around today but will be on travel through Thursday. If you have any questions, please call my cell or better yet, give Wendy Loya a call at the number listed below.

Thanks much!  
d

Doug Damberg  
Refuge Supervisor, AK North Zone  
U.S. Fish and Wildlife Service  
1011 E. Tudor Rd.; Anchorage, AK 99503  
Office: (907) 786-3329  
Cell: (907) 947-6302

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

**From:** Wendy Loya <[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)>  
**Date:** Fri, Oct 19, 2018 at 10:14 AM  
**Subject:** Sec 106 meeting: additional FWS expertise needed?  
**To:** Doug Damberg <[doug\\_damberg@fws.gov](mailto:doug_damberg@fws.gov)>

Doug,

I would be grateful if you could help consider whether additional expertise to this process of issuing a Programmatic Agreement for addressing Sec 106 compliance for the Arctic NWR Coastal Plain (1002) Leasing EIS that is under development. Ed Declava was at the first meeting and clearly understands the process, but my lack of experience makes it difficult for me to know how to report back to the RD office if there are any divergent views on FWS role and interests.

The meeting described below for next Thursday will include tribes --that are described as being consulting parties, so it is likely to delve into specific issues, but overall should be focused on the process for completing a Programmatic Agreement.

Forwarded meeting info:

Coastal Plain Oil and Gas Leasing Program - Section 106 of NHPA

Hi everyone! This teleconference is being set up to discuss development of a Programmatic Agreement (PA) with the signatories and consulting parties for the Coastal Plain Oil and Gas Leasing Program. Additional details will be provided in a letter later this week, and an agenda will be provided PRIOR to the meeting time on 10/25.

Please see the Advisory Council on Historic Preservation's handbook "Protecting Historic Properties: A Citizen's Guide to Section 106 Review" at <https://www.achp.gov/sites/default/files/documents/2017-01/CitizenGuide.pdf> for more information about the Section 106 process.

When Thu Oct 25, 2018 10:30am – 1:30pm Alaska Time - Anchorage

Where Teleconference (b) (5) CIP passcode (b) (5) CIP BLM-AK State Office Kodiak A Room - 222 W. 7th Ave, 4th Flr, BLM-AK SO Kodiak A Room ([map](#))

0000010415

Thank you,

Wendy

Dr. Wendy M. Loya

Arctic Program Coordinator

US Fish and Wildlife Service, Office of Science Applications

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)

--

**Eugene Marino**  
**USFWS Federal Preservation Officer & National Curator**  
U.S. FISH & WILDLIFE SERVICE HEADQUARTERS  
MS: SA  
5275 LEESBURG PIKE  
FALLS CHURCH, VA 22041 3803  
**703-358-2173 (T-R)**  
**202-253-3876 (mobile)**  
**703-358-2518 (fax)**  
[eugene\\_marino@fws.gov](mailto:eugene_marino@fws.gov)

**From:** mnhayes@blm.gov  
**Location:** Teleconference (b) (5) CIP passcode (b) (5) CIP BLM-AK State Office Kodiak A Room - 222 W. 7th Ave, 4th Flr, BLM-AK SO Kodiak A Room  
**Importance:** Normal  
**Subject:** FW: Coastal Plain Oil and Gas Leasing Program - Section 106 of NHPA  
**Start Date/Time:** 2018-10-25T14:30:00-04:00  
**End Date/Time:** 2018-10-25T17:30:00-04:00

Eugene,

Below is the invitation and call in information for Thursday's meeting to further discuss development of a Programmatic Agreement (PA) for meeting Sec 106 compliance associated with the Arctic NWR Coastal Plain Leasing EIS.

FYI, I serve as the regional point of contact for the Arctic NWR Coastal Plain oil and gas program, coming from the Office of Science Applications Arctic LCC. I have no experience with Sec 106, but I am very familiar with the ongoing NEPA process (Coastal Plain Leasing EIS) and through BLM and Arctic Refuge staff, I am aware of the concerns of the native communities in the area.

Stephen R. Braund and associates (SRB&A) are the contractors helping BLM to develop the Programmatic Agreement. They have a long respected history working on community and subsistence issues on the north slope and other parts of Alaska, and are also the subcontractor for the Arctic Refuge Leasing EIS on those issues.

BLM envisions FWS as a signatory to the PA. We had a preliminary meeting with BLM, SRB&A, SHPO and ACHP, and the invite below is to expand the conversation now that we have discussed using a PA to meet Sec 106 compliance.

Also at the table: The Native Village of Kaktovik, Native Village of Venetie Tribal Government, Arctic Village Council and Venetie Village Council have been invited to the call and BLM has identified them as Consulting Parties to the proposed PA, although they originally requested being signatories. During Government to Government consultation for the EIS, Venetie and Arctic Village have been represented by a lawyer with the Native American Rights Fund, so I would imagine they will also work together through this process. Kaktovik self-represents, and may also have support through the North Slope Borough.

Hopefully that helps a little so everything on Thursday isn't completely new. Thank you for your willingness to participate in the next step of the Sec 106 process for the Arctic Refuge!

Thank you,  
Wendy

Dr. Wendy M. Loya  
Arctic Program Coordinator  
US Fish and Wildlife Service, Office of Science Applications  
Anchorage, Alaska  
907.786.3532 (office)  
907.227.2942 (mobile)

0000010417

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

**From:** [mnhayes@blm.gov](mailto:mnhayes@blm.gov) <[mnhayes@blm.gov](mailto:mnhayes@blm.gov)>

**Sent:** Tuesday, October 16, 2018 2:02 PM

**To:** [mnhayes@blm.gov](mailto:mnhayes@blm.gov); [wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov); [r2king@blm.gov](mailto:r2king@blm.gov); [tmcculloch@achp.gov](mailto:tmcculloch@achp.gov); [faith.martineau@alaska.gov](mailto:faith.martineau@alaska.gov); [stephen.braund@srbak.com](mailto:stephen.braund@srbak.com); [norajane.burns@north-slope.org](mailto:norajane.burns@north-slope.org); [kevin.fisher@north-slope.org](mailto:kevin.fisher@north-slope.org); [judy.bittner@alaska.gov](mailto:judy.bittner@alaska.gov); [paul.lawrence@srbak.com](mailto:paul.lawrence@srbak.com); [jake.anders@srbak.com](mailto:jake.anders@srbak.com); Tonya Garnett; (b) (6); [sarah.meitl@alaska.gov](mailto:sarah.meitl@alaska.gov); [jkeeney@blm.gov](mailto:jkeeney@blm.gov); [office@cityofkaktovik.org](mailto:office@cityofkaktovik.org); (b) (6); (b) (6); [tim@asrc.com](mailto:tim@asrc.com); patrick hanson; [chad.ricklefs@emp.si.com](mailto:chad.ricklefs@emp.si.com); [edward\\_decleva@fws.gov](mailto:edward_decleva@fws.gov); Fannie Sopl

**Subject:** Coastal Plain Oil and Gas Leasing Program - Section 106 of NHPA

**When:** Thursday, October 25, 2018 10:30 AM-1:30 PM (UTC-09:00) Alaska.

**Where:** Teleconference (b) (5) CIP passcode (b) (5) CIP BLM-AK State Office Kodiak A Room - 222 W. 7th Ave, 4th Flr, BLM-AK SO Kodiak A Room

Hi everyone! This teleconference is being set up to discuss development of a Programmatic Agreement (PA) with the signatories and consulting parties for the Coastal Plain Oil and Gas Leasing Program. Additional details will be provided in a letter later this week, and an agenda will be provided PRIOR to the meeting time on 10/25.

Please see the Advisory Council on Historic Preservation's handbook "Protecting Historic Properties: A Citizen's Guide to Section 106 Review" at <https://www.achp.gov/sites/default/files/documents/2017-01/CitizenGuide.pdf> for more information about the Section 106 process. □

0000010418

**To:** Karen Murphy[karen\_a\_murphy@fws.gov]  
**From:** Wendy Loya  
**Sent:** 2018-10-22T18:57:13-04:00  
**Importance:** Normal  
**Subject:** DRAFT Arctic Program Proposal for 2019 102218.docx  
**Received:** 2018-10-22T18:57:21-04:00  
DRAFT Arctic Program Proposal for 2019 102218.docx

Hi Karen,

Added an intro and overview of positions needed to make this a success. Given how understaffed Arctic NWR is and the region in general, in addition to having my, Paul and some of Josh's time (more if Data Management at the regional scale is not a go), a term biometrician and term bio tech would still be incredibly helpful.

Thank you,  
Hope the workshop is great!  
Wendy

Dr. Wendy M. Loya  
Arctic Program Coordinator  
US Fish and Wildlife Service, Office of Science Applications  
Anchorage, Alaska  
907.786.3532 (office)  
907.227.2942 (mobile)

**To:** Wendy Loya[wendy\_loya@fws.gov]  
**From:** Pearce, John  
**Sent:** 2018-10-22T22:26:23-04:00  
**Importance:** Normal  
**Subject:** Re: FW: 2019 USGS Research in 1002 Area and logistics coordination  
**Received:** 2018-10-22T22:26:29-04:00

Hi Wendy,  
I'll check with everyone and let you know. We'll try to all be there in person. At this point, I'm not thinking we'll do presentations; just discussion. But let me know if you need any other materials such as maps of where we plan to be, etc.

Thanks,  
John

John M. Pearce, Ph.D.  
Supervisory Wildlife Biologist  
Manager, Wetland and Terrestrial Ecosystems Office  
U.S. Geological Survey, Alaska Science Center  
4210 University Drive  
Anchorage, Alaska 99508  
Tel. 907.786.7094  
Email: [jpearce@usgs.gov](mailto:jpearce@usgs.gov)  
<https://www.usgs.gov/staff-profiles/john-m-pearce>

On Mon, Oct 22, 2018 at 12:46 PM, Wendy Loya <[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)> wrote:

Hi John,

It would be great if USGS could come to FWS, and I will also set up a conference line so Fairbanks can join us, including inviting BLM Arctic Field office staff as they are primary decision-makers in this program. Do you think anyone will have powerpoint slides, or should it just be conversational updates and a chance to discuss?

Thanks, sending out the invite soon and will make it so you can share it with the team there.

wendy

Dr. Wendy M. Loya

Arctic Program Coordinator

0000010420

US Fish and Wildlife Service, Office of Science Applications

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)

**From:** Pearce, John <[jpearce@usgs.gov](mailto:jpearce@usgs.gov)>  
**Sent:** Saturday, October 20, 2018 6:55 AM  
**To:** Wendy Loya <[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)>  
**Subject:** Re: FW: 2019 USGS Research in 1002 Area and logistics coordination

Hi Wendy,

October 31st at 1 pm works for everyone here. Let me know if you'd like us to call in or come over to FWS.

JP

John M. Pearce, Ph.D.

Supervisory Wildlife Biologist

Manager, Wetland and Terrestrial Ecosystems Office

U.S.Geological Survey, Alaska Science Center

4210 University Drive

Anchorage, Alaska 99508

Tel. 907.786.7094

Email: [jpearce@usgs.gov](mailto:jpearce@usgs.gov)

<https://www.usgs.gov/staff-profiles/john-m-pearce>

On Fri, Oct 19, 2018 at 2:47 PM, Wendy Loya <[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)> wrote:

Hey John,

See my email to FWS 1002 team below. Would it work for you and at least Todd and Vanessa to provide updates on SSP Projects on October 31 at 1pm? We have an internal standing weekly meeting then, so it would be an easy start. If that doesn't work, are there some other times you would recommend? It will also be a good chance to see how FWS and USGS can best coordinate logistics.

Thank you, have a great weekend,

Wendy

Dr. Wendy M. Loya

Arctic Program Coordinator

US Fish and Wildlife Service, Office of Science Applications

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)

---

**From:** Wendy Loya <[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)>

**Sent:** Friday, October 19, 2018 2:25 PM

**To:** Joanna Fox <[joanna\\_fox@fws.gov](mailto:joanna_fox@fws.gov)>; John Trawicki <[john\\_trawicki@fws.gov](mailto:john_trawicki@fws.gov)>; Joshua Rose <[joshua\\_rose@fws.gov](mailto:joshua_rose@fws.gov)>; Drew Crane <[drew\\_crane@fws.gov](mailto:drew_crane@fws.gov)>; Steve Berendzen <[steve\\_berendzen@fws.gov](mailto:steve_berendzen@fws.gov)>; Paul Leonard <[paul\\_leonard@fws.gov](mailto:paul_leonard@fws.gov)>

**Cc:** Mary Colligan <[mary\\_colligan@fws.gov](mailto:mary_colligan@fws.gov)>; Socheata Lor <[socheata\\_lor@fws.gov](mailto:socheata_lor@fws.gov)>; Doug Damberg <[doug\\_damberg@fws.gov](mailto:doug_damberg@fws.gov)>; Karen Murphy <[karen\\_a\\_murphy@fws.gov](mailto:karen_a_murphy@fws.gov)>

**Subject:** 2019 USGS Research in 1002 Area and logistics coordination

Hi 1002 POCs,

Below is an email that USGS sent to Steve B about the selected USGS QRP/SSP projects, and I wanted to make sure everyone is in the loop on next steps, which include how we work with USGS and receive updates, data and products as well as coordinating logistics. Each USGS QRP/SSP project

0000010422

has a FWS collaborator, although some will be more involved than others.

John Pearce and I discussed having quarterly updates on the projects so that FWS can stay up to speed and help with any decisions that are being made and to discuss data management and sharing, and I'd like to suggest that we **use our regularly scheduled FWS POC meeting on Wednesday October 31<sup>st</sup> to have the first quarterly update on USGS projects, inviting USGS to join.**

Winter field projects on the list include: Polar Bear Den Disturbance monitoring (Todd Atwood and Ryan Wilson) and Dolly Varden overwintering in Canning (Vanessa von Biela and Randy Brown). The only summer field project is on Groundwater (Josh Koch and Josh Rose), while the remainder are "desktop" studies (ACP waterbird habitat mapping and caribou habitat) or meetings/coordination (polar bear population monitoring). The list of projects is attached, and the proposals are on the shared drive at: xr7common(\\ifw7ro-file):\1002ArcticRefuge\1-Working\2019 USGS QRP\_SSSP Proposals.

**At this time, Josh Rose will be the team lead for logistics coordination for research projects in the 1002 area, so please keep him in the loop on any projects from your division.** He and John Trawicki will work on a project tracking list and setting up a means for logistics coordination for all projects. Please cc John Pearce in communications with the PI's for the QRP/SSP projects. In addition, USGS also has the Hulahula stream gauge and we have shorebird studies that will be conducted by Rick Lanctot (FWS Mig Birds) and Jim Lyons (USGS). USGS and FWS have some different requirements for flying that need to be kept in mind as we try to share aircraft among projects, and we want to make sure that we are communicating consistently across all agencies (FWS, USGS, BLM, etc) and with industry about aircraft use in sensitive areas, including Kaktovik and subsistence areas, polar bear, caribou and migratory bird habitats, and recreational areas (especially river corridors).

Lots going on! Please share any other thoughts or feedback as we get this off the ground and pass along to relevant members of your division,

Wendy

Dr. Wendy M. Loya

Arctic Program Coordinator

US Fish and Wildlife Service, Office of Science Applications

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)

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

From: **Pearce, John** <jpearce@usgs.gov>

Date: Wed, Sep 19, 2018 at 11:34 AM

Subject: Fwd: USFWS Alaska Region Recommendations for FY2019 QRP/SSP

To: Steve Berendzen <steve\_berendzen@fws.gov>

Cc: Grant Hilderbrand <ghilderbrand@usgs.gov>

Dear Steve,

**Sending to USGS for consult**  
[Redacted]

[Redacted]

[Redacted]

Best Regards,

John

John M. Pearce, Ph.D.

Supervisory Wildlife Biologist

Manager, Wetland and Terrestrial Ecosystems Office

U.S. Geological Survey, Alaska Science Center

4210 University Drive

Anchorage, Alaska 99508

Tel. 907.786.7094

Email: [jpearce@usgs.gov](mailto:jpearce@usgs.gov)

<https://www.usgs.gov/staff-profiles/john-m-pearce>

**To:** Marino, Eugene[eugene\_marino@fws.gov]  
**Cc:** Wendy Loya[wendy\_loya@fws.gov]  
**From:** Decleva, Edward  
**Sent:** 2018-10-23T12:21:59-04:00  
**Importance:** Normal  
**Subject:** Material for the Arctic Coastal Plain Oil & Gas Leasing Program EIS PA  
**Received:** 2018-10-23T12:22:21-04:00  
[Signed 106 ltr VVC.pdf](#)  
[10 25 18 Consulting Parties Meeting Agenda 10-22-18.docx](#)  
[Coastal PA Objectives Scope and Consultation Plan 10 23 18.docx](#)

Hi Eugene,

Attached is some material for your reference prior to the teleconference tomorrow.

If the opportunity arises, I intend to discuss the need to ask that federal ARPA and NAGPRA roles be clarified. My thinking is that although this is on USFWS managed lands (Arctic NWR), I feel that BLM also should be lead for ARPA and NAGPRA because BLM is lead for Section 106, the EIS, and subsequent leasing. I feel this would be in-line with the Secretary's intent. However, if I do bring it up, I would point out that these roles should be developed by BLM and USFWS separate from the PA parties meeting.

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](mailto:edward_decleva@fws.gov)  
907-786-3399

**To:** Decleva, Edward[edward\_decleva@fws.gov]  
**Cc:** Wendy Loya[wendy\_loya@fws.gov]  
**From:** Marino, Eugene  
**Sent:** 2018-10-23T12:32:00-04:00  
**Importance:** Normal  
**Subject:** Re: Material for the Arctic Coastal Plain Oil & Gas Leasing Program EIS PA  
**Received:** 2018-10-23T12:32:49-04:00

Thanks Ed. I am deferring to you and will be an observer (listener) only. Call you in a few.

E

On Tue, Oct 23, 2018 at 12:21 PM, Decleva, Edward <[edward\\_decleva@fws.gov](mailto:edward_decleva@fws.gov)> wrote:

Hi Eugene,

Attached is some material for your reference prior to the teleconference tomorrow.

If the opportunity arises, I intend to discuss the need to ask that federal ARPA and NAGPRA roles be clarified. My thinking is that although this is on USFWS managed lands (Arctic NWR), I feel that BLM also should be lead for ARPA and NAGPRA because BLM is lead for Section 106, the EIS, and subsequent leasing. I feel this would be in-line with the Secretary's intent. However, if I do bring it up, I would point out that these roles should be developed by BLM and USFWS separate from the PA parties meeting.

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](mailto:edward_decleva@fws.gov)  
907-786-3399

--

**Eugene Marino**  
**USFWS Federal Preservation Officer & National Curator**  
U.S. FISH & WILDLIFE SERVICE HEADQUARTERS  
MS: SA  
5275 LEESBURG PIKE  
FALLS CHURCH, VA 22041 3803  
**703-358-2173 (T-R)**  
**202-253-3876 (mobile)**  
**703-358-2518 (fax)**  
[eugene\\_marino@fws.gov](mailto:eugene_marino@fws.gov)

**To:** Doug Damberg[doug\_damberg@fws.gov]  
**From:** Wendy Loya  
**Sent:** 2018-10-23T12:46:44-04:00  
**Importance:** Normal  
**Subject:** Re: Are you available for a Thursday mtg? Fwd: Sec 106 meeting: additional FWS expertise needed?  
**Received:** 2018-10-23T12:46:50-04:00

Yes, sorry. Eugene invited and given brief overview of process. Thanks!!

Dr. Wendy M. Loya  
Arctic Program Coordinator  
US Fish and Wildlife Service, Office of Science Applications  
Anchorage, Alaska  
907.786.3532 (office)  
907.227.2942 (mobile)

On Oct 23, 2018, at 08:02, Doug Damberg <[doug\\_damberg@fws.gov](mailto:doug_damberg@fws.gov)> wrote:

Just making sure u got my note to invite Eugene via calendar. Good to see ed d will be on too

Sent from my iPhone

Begin forwarded message:

**From:** "Decleva, Edward" <[edward\\_decleva@fws.gov](mailto:edward_decleva@fws.gov)>  
**Date:** October 23, 2018 at 6:41:53 AM AKDT  
**To:** Doug Damberg <[doug\\_damberg@fws.gov](mailto:doug_damberg@fws.gov)>  
**Cc:** "Marino, Eugene" <[eugene\\_marino@fws.gov](mailto:eugene_marino@fws.gov)>, Wendy Loya <[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)>  
**Subject:** **Re: Are you available for a Thursday mtg? Fwd: Sec 106 meeting: additional FWS expertise needed?**

Thank you Doug,

I will be attending the meeting on Thursday via telephone.

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](mailto:edward_decleva@fws.gov)  
907-786-3399

On Mon, Oct 22, 2018 at 9:50 AM Damberg, Doug <[doug\\_damberg@fws.gov](mailto:doug_damberg@fws.gov)>  
wrote:

Eugene:

The 106 compliance strategy related to oil and gas development in the Arctic Refuge Coastal Plain 1002 area is currently being developed. It's not clear (at least to many of us at this point) how this will be handled. We may need some additional assistance with the process. Are you available to join a conference call this Thursday to listen in? In the event we need additional help this will provide important background information for you, and it will also be informative if you are involved with 1002 discussions at the national level. Ed DeClava is out this week, but may be planning on calling in - he is deeply involved with the process as well.

The call in information is below (Thursday Oct 25th at 2:30pm ET).

I'm around today but will be on travel through Thursday. If you have any questions, please call my cell or better yet, give Wendy Loya a call at the number listed below.

Thanks much!

d

Doug Damberg  
Refuge Supervisor, AK North Zone  
U.S. Fish and Wildlife Service  
1011 E. Tudor Rd.; Anchorage, AK 99503  
Office: (907) 786-3329  
Cell: (907) 947-6302

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

From: **Wendy Loya** <[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)>  
Date: Fri, Oct 19, 2018 at 10:14 AM  
Subject: Sec 106 meeting: additional FWS expertise needed?  
To: Doug Damberg <[doug\\_damberg@fws.gov](mailto:doug_damberg@fws.gov)>

Doug,

I would be grateful if you could help consider whether additional expertise to this process of issuing a Programmatic Agreement for addressing Sec 106 compliance for the Arctic NWR Coastal Plain (1002) Leasing EIS that is under development. Ed Declava was at the first meeting and clearly understands the process, but my lack of experience makes it difficult for me to know how to report back to the RD office if there are any divergent views on FWS role and interests.

The meeting described below for next Thursday will include tribes --that are described as being consulting parties, so it is likely to delve into specific issues, but overall should be focused on the process for completing a Programmatic Agreement.

Forwarded meeting info:

Coastal Plain Oil and Gas Leasing Program - Section 106 of NHPA

Hi everyone! This teleconference is being set up to discuss development of a Programmatic Agreement (PA) with the signatories and consulting parties for the Coastal Plain Oil and Gas Leasing Program. Additional details will be provided in a letter later this week, and an agenda will be provided PRIOR to the meeting time on 10/25.

Please see the Advisory Council on Historic Preservation's handbook "Protecting Historic Properties: A Citizen's Guide to Section 106 Review" at <https://www.achp.gov/sites/default/files/documents/2017-01/CitizenGuide.pdf> for more information about the Section 106 process.

When Thu Oct 25, 2018 10:30am – 1:30pm Alaska Time - Anchorage

Where Teleconference (b) (5) CIP passcode (b) (5) CIP BLM-AK State Office Kodiak A Room - 222 W. 7th Ave, 4th Flr, BLM-AK SO Kodiak A Room ([map](#))

Thank you,

Wendy

Dr. Wendy M. Loya

Arctic Program Coordinator

US Fish and Wildlife Service, Office of Science Applications

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)

**To:** Jones, Nichelle (Shelly)[njones@blm.gov]  
**Cc:** Steve Berendzen[steve\_berendzen@fws.gov]; Fox, Joanna[joanna\_fox@fws.gov]; Wendy Loya[wendy\_loya@fws.gov]; LaMarr, Sarah[slamarr@blm.gov]; Robert Brumbaugh[rbrumbau@blm.gov]; Donna Wixon[dwixon@blm.gov]  
**From:** Rose, Joshua  
**Sent:** 2018-10-23T15:18:26-04:00  
**Importance:** Normal  
**Subject:** Re: Cancel Seismic EA Meeting today at 3-  
**Received:** 2018-10-23T15:18:27-04:00

Shelly,  
We had amazing weather a Galbraith. Unfortunately that was not the case further south and the helicopter was not able to make it north before we ran out of time and our pilot had to head south for the year. Paul and I are working on other options and will keep everyone posted.

Thanks,  
Josh

On Tue, Oct 23, 2018 at 9:56 AM, Jones, Nichelle (Shelly) <njones@blm.gov> wrote:

Part of ongoing BLM consult  
[Redacted text block containing multiple paragraphs of blacked-out content]

Part of ongoing BLM consult

Shelly Jones  
Acting Manager  
Arctic District Office  
222 University Avenue  
Fairbanks, AK 99709

(907) 474-2310 (w)  
(907) 460 0086 (c)

--

Joshua Rose  
Acting Oil and Gas Coordinator  
Arctic National Wildlife Refuge  
101 12th Ave., Rm 236  
Fairbanks, AK 99701  
phone: (907) 456-0409

**To:** Eugene Marino[eugene\_marino@fws.gov]  
**From:** Wendy Loya  
**Sent:** 2018-10-23T16:14:44-04:00  
**Importance:** Normal  
**Subject:** Fwd: Draft Oct. 25 Meeting Agenda, PA Objectives and Scope, and Consultation Plan  
**Received:** 2018-10-23T16:14:51-04:00  
[ATT00001.htm](#)  
[10 25 18 Consulting Parties Meeting Agenda 10-22-18.docx](#)  
[Coastal PA Objectives Scope and Consultation Plan 10 23 18.docx](#)  
[ATT00002.htm](#)

More info for Thursday :)  
Wendy

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

Begin forwarded message:

**From:** "Hayes, Miriam (Nicole)" <[mnhayes@blm.gov](mailto:mnhayes@blm.gov)>  
**Date:** October 23, 2018 at 07:32:23 AKDT  
**To:** Tom McCulloch <[tmcculloch@achp.gov](mailto:tmcculloch@achp.gov)>, [judy.bittner@alaska.gov](mailto:judy.bittner@alaska.gov),  
[sarah.meitl@alaska.gov](mailto:sarah.meitl@alaska.gov), "Faith C Martineau (DNR)"  
<[faith.martineau@alaska.gov](mailto:faith.martineau@alaska.gov)>, Wendy Loya <[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)>, Edward  
Decleva <[edward\\_decleva@fws.gov](mailto:edward_decleva@fws.gov)>, Joseph Keeney <[jkeeney@blm.gov](mailto:jkeeney@blm.gov)>,  
"Robert (Bob) King" <[r2king@blm.gov](mailto:r2king@blm.gov)>  
**Cc:** [Jake.Anders@srbak.com](mailto:Jake.Anders@srbak.com), Stephen Braund <[stephen.braund@srbak.com](mailto:stephen.braund@srbak.com)>, Paul  
Lawrence <[paul.lawrence@srbak.com](mailto:paul.lawrence@srbak.com)>  
**Subject: Draft Oct. 25 Meeting Agenda, PA Objectives and Scope, and Consultation  
Plan**

Good morning,

Part of ongoing BLM consult



Thank you,  
Nicole

0000010433

**To:** eugene\_marino@fws.gov[eugene\_marino@fws.gov]  
**From:** Wendy Loya  
**Sent:** 2018-10-23T16:17:09-04:00  
**Importance:** Normal  
**Subject:** Fwd: Signed Consultation letters for your records  
**Received:** 2018-10-23T16:17:19-04:00  
[ATT00001.htm](#)  
[Signed 106 ltr VVC.pdf](#)  
[Signed 106 ltr AVC.pdf](#)  
[ATT00002.htm](#)  
[Signed 106 ltr NVK.pdf](#)  
[ATT00003.htm](#)  
[Signed 106 ltr NVVTG.pdf](#)  
[ATT00004.htm](#)  
[Signed 106 ltr KIC.pdf](#)  
[ATT00005.htm](#)  
[Signed 106 ltr NSB.pdf](#)  
[ATT00006.htm](#)  
[Signed 106 ltr City of Kaktovik.pdf](#)  
[ATT00007.htm](#)  
[Signed 106 ltr ASRC.pdf](#)  
[ATT00008.htm](#)

Not sure if these are helpful, but want to make sure you have everything we do.  
Wendy

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

Begin forwarded message:

**From:** "Hayes, Miriam (Nicole)" <[mnhayes@blm.gov](mailto:mnhayes@blm.gov)>  
**Date:** October 23, 2018 at 07:52:28 AKDT  
**To:** Tom McCulloch <[tmcculloch@achp.gov](mailto:tmcculloch@achp.gov)>, [judy.bittner@alaska.gov](mailto:judy.bittner@alaska.gov), "Faith C Martineau (DNR)" <[faith.martineau@alaska.gov](mailto:faith.martineau@alaska.gov)>, [sarah.meitl@alaska.gov](mailto:sarah.meitl@alaska.gov), Wendy Loya <[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)>, Edward Decleva <[edward\\_decleva@fws.gov](mailto:edward_decleva@fws.gov)>  
**Cc:** "Robert (Bob) King" <[r2king@blm.gov](mailto:r2king@blm.gov)>, Joseph Keeney <[jkeeney@blm.gov](mailto:jkeeney@blm.gov)>, [coastalplainAR@empesi.com](mailto:coastalplainAR@empesi.com), "Nichelle (Shelly) Jones" <[njones@blm.gov](mailto:njones@blm.gov)>  
**Subject:** Signed Consultation letters for your records

**Nicole Hayes**  
Project Coordinator  
Bureau of Land Management  
222 W. 7th Avenue #13

0000010434

Anchorage, Alaska 99513  
Desk: (907) 271-4354  
Cell: (907) 290-0179

**To:** wendy\_loya@fws.gov[wendy\_loya@fws.gov]  
**From:** Brumbaugh, Robert  
**Sent:** 2018-10-23T20:10:37-04:00  
**Importance:** Normal  
**Subject:** Re: Cancel Seismic EA Meeting today at 3-  
**Received:** 2018-10-23T20:11:11-04:00

Thanks for the update Wendy!

On Tue, Oct 23, 2018 at 10:07 AM Wendy Loya <[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)> wrote:

A brief update from FWS: our Marine Mammals team met with SAE and discussed options for moving forward. SAE indicated they would consider the information and get back with FWS on what might work within their logistics. As of Monday (yesterday) afternoon, we were still waiting for their ideas but ready to move ahead with analysis when we received them to keep things moving.

It sounds like we should try to meet to talk about winter monitoring. Let's find out the status of Josh and Paul and the installation, and hopefully get a call together sooner than later. Sounds like we should include Chris Noyles, and maybe also one of the USF scientists that has been involved in north slope SFM imagery.

Thanks for the updates Shelly.

Wendy

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

On Oct 23, 2018, at 09:56, Jones, Nichelle (Shelly) <[njones@blm.gov](mailto:njones@blm.gov)> wrote:

Part of ongoing BLM consult  
[Redacted text block containing multiple lines of blacked-out content]

Part of ongoing BLM consult [Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

Shelly Jones  
Acting Manager  
Arctic District Office  
222 University Avenue  
Fairbanks, AK 99709

(907) 474-2310 (w)  
(907) 460 0086 (c)

--  
Rob Brumbaugh  
BLM-Alaska Oil and Gas Section Chief  
Division of Resources  
Bureau of Land Management  
222 W 7th Ave., Ste 13  
Anchorage, AK 99513  
907-271-4429

**To:** eugene\_marino@fws.gov[eugene\_marino@fws.gov]  
**From:** Wendy Loya  
**Sent:** 2018-10-25T11:50:33-04:00  
**Importance:** Normal  
**Subject:** Fwd: Meeting agenda and attachment for 10/25 meeting  
**Received:** 2018-10-25T11:50:41-04:00  
[ATT00001.htm](#)  
[10\\_25\\_18\\_Consulting\\_Parties\\_Meeting\\_Agenda.pdf](#)  
[Coastal\\_PA\\_Objectives\\_Scope\\_and\\_Consultation\\_Plan\\_10\\_25\\_18.pdf](#)  
[ATT00002.htm](#)

Hi Eugene,  
My rent info for today's call.

Thank you,  
Wendy

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

Begin forwarded message:

**From:** "Hayes, Miriam (Nicole)" <[mnhayes@blm.gov](mailto:mnhayes@blm.gov)>  
**Date:** October 25, 2018 at 07:05:54 AKDT  
**To:** Tiffany Yatlin <(b) (6)> "[Jake.Anders@srbak.com](mailto:Jake.Anders@srbak.com)" <[jake.anders@srbak.com](mailto:jake.anders@srbak.com)>, [judy.bittner@alaska.gov](mailto:judy.bittner@alaska.gov), [sarah.meitl@alaska.gov](mailto:sarah.meitl@alaska.gov), Matthew Rexford <(b) (6)> City of Kaktovik - City Clerk <[office@cityofkaktovik.org](mailto:office@cityofkaktovik.org)>, "Imm, Teresa" <[timmm@asrc.com](mailto:timmm@asrc.com)>, "Faith C Martineau (DNR)" <[faith.martineau@alaska.gov](mailto:faith.martineau@alaska.gov)>, Stephen Braund <[stephen.braund@srbak.com](mailto:stephen.braund@srbak.com)>, Paul Lawrence <[paul.lawrence@srbak.com](mailto:paul.lawrence@srbak.com)>, Tom McCulloch <[tmcculloch@achp.gov](mailto:tmcculloch@achp.gov)>, Tonya Garnett <(b) (6)> patrick hanson <(b) (6)> "Robert (Bob) King" <[r2king@blm.gov](mailto:r2king@blm.gov)>, [norajane.burns@north-slope.org](mailto:norajane.burns@north-slope.org), Tom Lohman <(b) (6)> Chad Ricklefs <[chad.ricklefs@empsi.com](mailto:chad.ricklefs@empsi.com)>, Wendy Loya <[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)>, "Kevin S. Fisher" <[kevin.fisher@north-slope.org](mailto:kevin.fisher@north-slope.org)>, Joseph Keeney <[jkeeney@blm.gov](mailto:jkeeney@blm.gov)>, Edward Decleva <[edward\\_decleva@fws.gov](mailto:edward_decleva@fws.gov)>, Fannie Soplun <(b) (6)> Eugene Marino <[eugene\\_marino@fws.gov](mailto:eugene_marino@fws.gov)>, "Janowski, Tyler" <[tjanowski@asrc.com](mailto:tjanowski@asrc.com)>, "Fischer, Mackenzie" <[MFischer@inupiatvoice.org](mailto:MFischer@inupiatvoice.org)>  
**Subject:** Meeting agenda and attachment for 10/25 meeting

Good morning,

0000010438

Attached is the meeting agenda and a draft document regarding the Coastal Plain Section 106 PA objectives and scope that we will be discussing today. We look forward to your participation.  
Nicole

**Nicole Hayes**

Project Coordinator  
Bureau of Land Management  
222 W. 7th Avenue #13  
Anchorage, Alaska 99513  
Desk: (907) 271-4354  
Cell: (907) 290-0179

**To:** Wendy Loya[wendy\_loya@fws.gov]  
**From:** Leonard, Paul  
**Sent:** 2018-10-25T17:34:56-04:00  
**Importance:** Normal  
**Subject:** Fwd: Cancel Seismic EA Meeting today at 3-  
**Received:** 2018-10-25T17:35:29-04:00

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

**From:** Berendzen, Steve <steve\_berendzen@fws.gov>  
**Date:** Tue, Oct 23, 2018 at 2:03 PM  
**Subject:** Re: Cancel Seismic EA Meeting today at 3-  
**To:** Nichelle (Shelly) Jones <njones@blm.gov>  
**Cc:** Joshua Rose <joshua\_rose@fws.gov>, Joanna Fox <joanna\_fox@fws.gov>, Paul Leonard <paul\_leonard@fws.gov>

Thanks, Shelly - it seems like a long time since we caught up on the status of varying aspects of work. I would really like to catch up with you again and I'm wondering if we can schedule a meeting in the near future to do that? Any chance you could meet with us later this week - maybe Thursday or Friday afternoon? I think these time slots are open for Joanna, Josh and me - I don't have access to Paul's calendar. Another possibility is Monday afternoon next week, but Tuesday won't work for Joanna and is challenging for me. Please let us know if something would work for you.

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

On Tue, Oct 23, 2018 at 9:56 AM Jones, Nichelle (Shelly) <njones@blm.gov> wrote:

Part of ongoing consult with BLM  
[Redacted]  
[Redacted]

[Redacted]  
[Redacted]  
[Redacted]  
[Redacted]

[Redacted]  
[Redacted]  
[Redacted]

[Redacted]  
[Redacted]  
[Redacted]

Part of ongoing  
consult with BLM

[REDACTED]

[REDACTED]

[REDACTED]

Shelly Jones  
Acting Manager  
Arctic District Office  
222 University Avenue  
Fairbanks, AK 99709

(907) 474-2310 (w)  
(907) 460 0086 (c)

--  
Paul Leonard, PhD  
Science Coordinator  
Arctic LCC  
101 12th Ave. Room 216  
Fairbanks, AK 99701  
(907) 456-0445

**From:** wendy\_loya@fws.gov  
**Location:** Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Coastal Plain Snow Monitoring Discussion  
**Start Date/Time:** 2018-10-26T18:30:00-04:00  
**End Date/Time:** 2018-10-26T19:30:00-04:00

It looks like this time will work for most of us, please accept or decline so we can reschedule for next week if we don't have critical participation

This is in response to Shelly's email indicating we should talk ASAP about snow monitoring when this week's seismic meeting was cancelled. Looping Matt in, please forward to anyone else that should be included.

Discussion on snow depth and soil temperature monitoring for this winter

1. What could be done to meet goals of team that went out to install thermistors and met station but were unable to fly?
2. What could be done working with SAE on snow depth monitoring and their plans for measuring snow depth?
3. Is the language in the EA consistent with where we are at following what we learned at the snow workshop?
  - a. Industry asked for consistent requirements across slope, but we have not attempted to delineate 1002 area into coastal/low/high foothills
  - b. What is the best way to work with SAE on tundra opening and ensuring consistent snow across area?
4. Is there a need for a future conversation about how to monitor for impacts/lack of impacts following exploration this winter to guide future activities?

**From:** Google Calendar  
**Location:** Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Declined: Coastal Plain Snow Monitoring Discussion @ Fri Oct 26, 2018 2:30pm - 3:30pm (AKDT) (joanna\_fox@fws.gov)  
**Start Date/Time:** 2018-10-26T18:30:00-04:00  
**End Date/Time:** 2018-10-26T19:30:00-04:00  
[invite.ics](#)

joanna\_fox@fws.gov has declined this invitation with this note:  
"Declined because I am out of office"

### Coastal Plain Snow Monitoring Discussion

It looks like this time will work for most of us, please accept or decline so we can reschedule for next week if we don't have critical participation

This is in response to Shelly's email indicating we should talk ASAP about snow monitoring when this week's seismic meeting was cancelled. Looping Matt in, please forward to anyone else that should be included.

Discussion on snow depth and soil temperature monitoring for this winter

1. What could be done to meet goals of team that went out to install thermistors and met station but were unable to fly?
2. What could be done working with SAE on snow depth monitoring and their plans for measuring snow depth?
3. Is the language in the EA consistent with where we are at following what we learned at the snow workshop?
  - a. Industry asked for consistent requirements across slope, but we have not attempted to delineate 1002 area into coastal/low/high foothills
  - b. What is the best way to work with SAE on tundra opening and ensuring consistent snow across area?
4. Is there a need for a future conversation about how to monitor for impacts/lack of impacts following exploration this winter to guide future activities?

When  
Where  
Video call  
Calendar  
Who

Fri Oct 26, 2018 2:30pm - 3:30pm Alaska Time  
Anchorage  
Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP (map)  
[https://hangouts.google.com/hangouts/ /doi.gov/wendy\\_loya](https://hangouts.google.com/hangouts/ /doi.gov/wendy_loya)  
joanna\_fox@fws.gov

- 
- 
- 
- 
- 
- 
- 
- 
- 

wendy\_loya@fws.gov  
Jones, Nichelle (Shell)  
joanna\_fox@fws.gov  
LaMarr, Sarah  
Matt Whitman  
Paul Leonard  
Steve Berendzen  
Donna Wixon  
Joshua Rose

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 joanna\_fox@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.](#)

**From:** Google Calendar  
**Location:** Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Accepted: Coastal Plain Snow Monitoring Discussion @ Fri Oct 26, 2018 2:30pm - 3:30pm (AKDT) (wendy\_loya@fws.gov)  
**Start Date/Time:** 2018-10-26T18:30:00-04:00  
**End Date/Time:** 2018-10-26T19:30:00-04:00  
[invite.ics](#)

Paul Leonard has accepted this invitation.

### Coastal Plain Snow Monitoring Discussion

It looks like this time will work for most of us, please accept or decline so we can reschedule for next week if we don't have critical participation

This is in response to Shelly's email indicating we should talk ASAP about snow monitoring when this week's seismic meeting was cancelled. Looping Matt in, please forward to anyone else that should be included.

Discussion on snow depth and soil temperature monitoring for this winter

1. What could be done to meet goals of team that went out to install thermistors and met station but were unable to fly?
2. What could be done working with SAE on snow depth monitoring and their plans for measuring snow depth?
3. Is the language in the EA consistent with where we are at following what we learned at the snow workshop?
  - a. Industry asked for consistent requirements across slope, but we have not attempted to delineate 1002 area into coastal/low/high foothills
  - b. What is the best way to work with SAE on tundra opening and ensuring consistent snow across area?
4. Is there a need for a future conversation about how to monitor for impacts/lack of impacts following exploration this winter to guide future activities?

When  
Where  
Video call  
Calendar  
Who

Fri Oct 26, 2018 2:30pm - 3:30pm Alaska Time  
Anchorage  
Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP (map)  
[https://hangouts.google.com/hangouts/ /doi.gov/wendy\\_loya](https://hangouts.google.com/hangouts/ /doi.gov/wendy_loya)  
wendy\_loya@fws.gov

- 
- 
- 
- 
- 
- 
- 
- 
- 

- wendy\_loya@fws.gov
- Fox, Joanna
- LaMarr, Sarah
- Paul Leonard
- Steve Berendzen
- Jones, Nichelle (Shell)
- Joshua Rose
- Donna Wixon
- Matt Whitman

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.](#)

**From:** Google Calendar  
**Location:** Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Declined: Coastal Plain Snow Monitoring Discussion @ Fri Oct 26, 2018 2:30pm - 3:30pm (AKDT) (wendy\_loya@fws.gov)  
**Start Date/Time:** 2018-10-26T18:30:00-04:00  
**End Date/Time:** 2018-10-26T19:30:00-04:00  
[invite.ics](#)

**Matt Whitman has declined this invitation.**

### **Coastal Plain Snow Monitoring Discussion**

It looks like this time will work for most of us, please accept or decline so we can reschedule for next week if we don't have critical participation

This is in response to Shelly's email indicating we should talk ASAP about snow monitoring when this week's seismic meeting was cancelled. Looping Matt in, please forward to anyone else that should be included.

Discussion on snow depth and soil temperature monitoring for this winter

1. What could be done to meet goals of team that went out to install thermistors and met station but were unable to fly?
2. What could be done working with SAE on snow depth monitoring and their plans for measuring snow depth?
3. Is the language in the EA consistent with where we are at following what we learned at the snow workshop?
  - a. Industry asked for consistent requirements across slope, but we have not attempted to delineate 1002 area into coastal/low/high foothills
  - b. What is the best way to work with SAE on tundra opening and ensuring consistent snow across area?
4. Is there a need for a future conversation about how to monitor for impacts/lack of impacts following exploration this winter to guide future activities?

When  
Where  
Video call  
Calendar  
Who

Fri Oct 26, 2018 2:30pm - 3:30pm Alaska Time  
Anchorage  
Instant Meeting Audio # (b) (5) CIP | # (b) (5) CIP (map)  
[https://hangouts.google.com/hangouts/ /doi.gov/wendy\\_loya](https://hangouts.google.com/hangouts/ /doi.gov/wendy_loya)  
wendy\_loya@fws.gov

- 
- 
- 
- 
- 
- 
- 
- 
- 

wendy\_loya@fws.gov  
Fox, Joanna  
LaMarr, Sarah  
Paul Leonard  
Steve Berendzen  
Jones, Nichelle (Shell)  
Joshua Rose  
Donna Wixon  
Matt Whitman

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.](#)

**From:** Google Calendar  
**Location:** Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Accepted: Coastal Plain Snow Monitoring Discussion @ Fri Oct 26, 2018 2:30pm - 3:30pm (AKDT) (wendy\_loya@fws.gov)  
**Start Date/Time:** 2018-10-26T18:30:00-04:00  
**End Date/Time:** 2018-10-26T19:30:00-04:00  
[invite.ics](#)

Steve Berendzen has accepted this invitation.

### Coastal Plain Snow Monitoring Discussion

It looks like this time will work for most of us, please accept or decline so we can reschedule for next week if we don't have critical participation

This is in response to Shelly's email indicating we should talk ASAP about snow monitoring when this week's seismic meeting was cancelled. Looping Matt in, please forward to anyone else that should be included.

Discussion on snow depth and soil temperature monitoring for this winter

1. What could be done to meet goals of team that went out to install thermistors and met station but were unable to fly?
2. What could be done working with SAE on snow depth monitoring and their plans for measuring snow depth?
3. Is the language in the EA consistent with where we are at following what we learned at the snow workshop?
  - a. Industry asked for consistent requirements across slope, but we have not attempted to delineate 1002 area into coastal/low/high foothills
  - b. What is the best way to work with SAE on tundra opening and ensuring consistent snow across area?
4. Is there a need for a future conversation about how to monitor for impacts/lack of impacts following exploration this winter to guide future activities?

When  
Where  
Video call  
Calendar  
Who

Fri Oct 26, 2018 2:30pm - 3:30pm Alaska Time  
Anchorage  
Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP (map)  
[https://hangouts.google.com/hangouts/ /doi.gov/wendy\\_loya](https://hangouts.google.com/hangouts/ /doi.gov/wendy_loya)  
wendy\_loya@fws.gov

- 
- 
- 
- 
- 
- 
- 
- 
- 

- wendy\_loya@fws.gov
- Fox, Joanna
- LaMarr, Sarah
- Paul Leonard
- Steve Berendzen
- Jones, Nichelle (Shell)
- Joshua Rose
- Donna Wixon
- Matt Whitman

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.](#)

**From:** Google Calendar  
**Location:** Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Accepted: Coastal Plain Snow Monitoring Discussion @ Fri Oct 26, 2018 2:30pm - 3:30pm (AKDT) (wendy\_loya@fws.gov)  
**Start Date/Time:** 2018-10-26T18:30:00-04:00  
**End Date/Time:** 2018-10-26T19:30:00-04:00  
[invite.ics](#)

Joshua Rose has accepted this invitation.

### Coastal Plain Snow Monitoring Discussion

It looks like this time will work for most of us, please accept or decline so we can reschedule for next week if we don't have critical participation

This is in response to Shelly's email indicating we should talk ASAP about snow monitoring when this week's seismic meeting was cancelled. Looping Matt in, please forward to anyone else that should be included.

Discussion on snow depth and soil temperature monitoring for this winter

1. What could be done to meet goals of team that went out to install thermistors and met station but were unable to fly?
2. What could be done working with SAE on snow depth monitoring and their plans for measuring snow depth?
3. Is the language in the EA consistent with where we are at following what we learned at the snow workshop?
  - a. Industry asked for consistent requirements across slope, but we have not attempted to delineate 1002 area into coastal/low/high foothills
  - b. What is the best way to work with SAE on tundra opening and ensuring consistent snow across area?
4. Is there a need for a future conversation about how to monitor for impacts/lack of impacts following exploration this winter to guide future activities?

When  
Where  
Video call  
Calendar  
Who

Fri Oct 26, 2018 2:30pm - 3:30pm Alaska Time  
Anchorage  
Instant Meeting Audio # (b) (5) CIP | # (b) (5) CIP (map)  
[https://hangouts.google.com/hangouts/ /doi.gov/wendy\\_loya](https://hangouts.google.com/hangouts/ /doi.gov/wendy_loya)  
wendy\_loya@fws.gov

- 
- 
- 
- 
- 
- 
- 
- 
- 

wendy\_loya@fws.gov  
Fox, Joanna  
LaMarr, Sarah  
Paul Leonard  
Steve Berendzen  
Jones, Nichelle (Shell)  
Joshua Rose  
Donna Wixon  
Matt Whitman

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.](#)

**From:** wendy\_loya@fws.gov  
**Location:** Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Updated invitation: Coastal Plain Snow Monitoring Discussion @ Mon Oct 29, 2018 2:30pm - 3:30pm (AKDT) (mwhitman@blm.gov)  
**Start Date/Time:** 2018-10-29T18:30:00-04:00  
**End Date/Time:** 2018-10-29T19:30:00-04:00  
[invite.ics](#)

This event has been changed.

[more details »](#)

### Coastal Plain Snow Monitoring Discussion

Changed:

Moving this to same time but on MONDAY, so we can have Matt Whitman and Joanna on the call. Hoping it works for Shelly, Sarah and/or Donna.

It looks like this time will work for most of us, please accept or decline so we can reschedule for next week if we don't have critical participation

This is in response to Shelly's email indicating we should talk ASAP about snow monitoring when this week's seismic meeting was cancelled. Looping Matt in, please forward to anyone else that should be included.

Discussion on snow depth and soil temperature monitoring for this winter

1. What could be done to meet goals of team that went out to install thermistors and met station but were unable to fly?
2. What could be done working with SAE on snow depth monitoring and their plans for measuring snow depth?
3. Is the language in the EA consistent with where we are at following what we learned at the snow workshop?
  - a. Industry asked for consistent requirements across slope, but we have not attempted to delineate 1002 area into coastal/low/high foothills
  - b. What is the best way to work with SAE on tundra opening and ensuring consistent snow across area?
4. Is there a need for a future conversation about how to monitor for impacts/lack of impacts following exploration this winter to guide future activities?

When

Changed: Mon Oct 29, 2018 2:30pm 3:30pm Alaska  
Time Anchorage

Where

Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP [\(map\)](#)

Calendar

mwhitman@blm.gov

Who

- 
- 
- 
- 
- 
- 
- 
- 
- 

wendy\_loya@fws.gov  
Donna Wixon  
Steve Berendzen  
mwhitman@blm.gov  
LaMarr, Sarah  
Paul Leonard  
Fox, Joanna  
Joshua Rose  
Jones, Nichelle (Shell)

Going (mwhitman@blm.gov)? **Yes** **Maybe** **No** [more options »](#)  
Invitation from [Google Calendar](#)

You are receiving this email at the account [mwhitman@blm.gov](mailto:mwhitman@blm.gov) because you are subscribed for updated invitations on calendar [mwhitman@blm.gov](mailto:mwhitman@blm.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](#).

**From:** wendy\_loya@fws.gov  
**Location:** Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Updated invitation: Coastal Plain Snow Monitoring Discussion @ Mon Oct 29, 2018 2:30pm - 3:30pm (AKDT) (njones@blm.gov)  
**Start Date/Time:** 2018-10-29T18:30:00-04:00  
**End Date/Time:** 2018-10-29T19:30:00-04:00  
[invite.ics](#)

This event has been changed.

[more details »](#)

### Coastal Plain Snow Monitoring Discussion

Changed:

Moving this to same time but on MONDAY, so we can have Matt Whitman and Joanna on the call. Hoping it works for Shelly, Sarah and/or Donna.

It looks like this time will work for most of us, please accept or decline so we can reschedule for next week if we don't have critical participation

This is in response to Shelly's email indicating we should talk ASAP about snow monitoring when this week's seismic meeting was cancelled. Looping Matt in, please forward to anyone else that should be included.

Discussion on snow depth and soil temperature monitoring for this winter

1. What could be done to meet goals of team that went out to install thermistors and met station but were unable to fly?
2. What could be done working with SAE on snow depth monitoring and their plans for measuring snow depth?
3. Is the language in the EA consistent with where we are at following what we learned at the snow workshop?
  - a. Industry asked for consistent requirements across slope, but we have not attempted to delineate 1002 area into coastal/low/high foothills
  - b. What is the best way to work with SAE on tundra opening and ensuring consistent snow across area?
4. Is there a need for a future conversation about how to monitor for impacts/lack of impacts following exploration this winter to guide future activities?

When

Changed: Mon Oct 29, 2018 2:30pm 3:30pm Alaska  
Time Anchorage

Where

Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP [\(map\)](#)

Calendar

[njones@blm.gov](mailto:njones@blm.gov)

Who

- 
- 
- 
- 
- 
- 
- 
- 
- 

wendy\_loya@fws.gov  
Joshua Rose  
njones@blm.gov  
Fox, Joanna  
Donna Wixon  
Steve Berendzen  
Paul Leonard  
Matt Whitman  
LaMarr, Sarah

Going (njones@blm.gov)? [Yes](#) [Maybe](#) [No](#) [more options »](#)  
Invitation from [Google Calendar](#)

You are receiving this email at the account njones@blm.gov because you are subscribed for updated invitations on calendar njones@blm.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.](#)

**From:** wendy\_loya@fws.gov  
**Location:** Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Updated invitation: Coastal Plain Snow Monitoring Discussion @ Mon Oct 29, 2018 2:30pm - 3:30pm (AKDT) (slamarr@blm.gov)  
**Start Date/Time:** 2018-10-29T18:30:00-04:00  
**End Date/Time:** 2018-10-29T19:30:00-04:00  
[invite.ics](#)

**This event has been changed.**  
[more details »](#)

### Coastal Plain Snow Monitoring Discussion

Changed:  
Moving this to same time but on MONDAY, so we can have Matt Whitman and Joanna on the call. Hoping it works for Shelly, Sarah and/or Donna.

It looks like this time will work for most of us, please accept or decline so we can reschedule for next week if we don't have critical participation

This is in response to Shelly's email indicating we should talk ASAP about snow monitoring when this week's seismic meeting was cancelled. Looping Matt in, please forward to anyone else that should be included.

Discussion on snow depth and soil temperature monitoring for this winter

1. What could be done to meet goals of team that went out to install thermistors and met station but were unable to fly?
2. What could be done working with SAE on snow depth monitoring and their plans for measuring snow depth?
3. Is the language in the EA consistent with where we are at following what we learned at the snow workshop?
  - a. Industry asked for consistent requirements across slope, but we have not attempted to delineate 1002 area into coastal/low/high foothills
  - b. What is the best way to work with SAE on tundra opening and ensuring consistent snow across area?
4. Is there a need for a future conversation about how to monitor for impacts/lack of impacts following exploration this winter to guide future activities?

When

**Changed: Mon Oct 29, 2018 2:30pm 3:30pm Alaska**  
Time Anchorage

Where

Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP [\(map\)](#)

Calendar

slamarr@blm.gov

Who

- 
- 
- 
- 
- 
- 
- 
- 
- 

wendy\_loya@fws.gov  
Jones, Nichelle (Shell  
Steve Berendzen  
Joshua Rose  
Paul Leonard  
slamarr@blm.gov  
Fox, Joanna  
Matt Whitman  
Donna Wixon

Going (slamarr@blm.gov)? [Yes](#) [Maybe](#) [No](#) [more options »](#)  
Invitation from [Google Calendar](#)

You are receiving this email at the account [slamarr@blm.gov](mailto:slamarr@blm.gov) because you are subscribed for updated invitations on calendar [slamarr@blm.gov](mailto:slamarr@blm.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](#).

**From:** wendy\_loya@fws.gov  
**Location:** Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Updated invitation: Coastal Plain Snow Monitoring Discussion @ Mon Oct 29, 2018 2:30pm - 3:30pm (AKDT) (joanna\_fox@fws.gov)  
**Start Date/Time:** 2018-10-29T18:30:00-04:00  
**End Date/Time:** 2018-10-29T19:30:00-04:00  
[invite.ics](#)

This event has been changed.

[more details »](#)

### Coastal Plain Snow Monitoring Discussion

Changed:

Moving this to same time but on MONDAY, so we can have Matt Whitman and Joanna on the call. Hoping it works for Shelly, Sarah and/or Donna.

It looks like this time will work for most of us, please accept or decline so we can reschedule for next week if we don't have critical participation

This is in response to Shelly's email indicating we should talk ASAP about snow monitoring when this week's seismic meeting was cancelled. Looping Matt in, please forward to anyone else that should be included.

Discussion on snow depth and soil temperature monitoring for this winter

1. What could be done to meet goals of team that went out to install thermistors and met station but were unable to fly?
2. What could be done working with SAE on snow depth monitoring and their plans for measuring snow depth?
3. Is the language in the EA consistent with where we are at following what we learned at the snow workshop?
  - a. Industry asked for consistent requirements across slope, but we have not attempted to delineate 1002 area into coastal/low/high foothills
  - b. What is the best way to work with SAE on tundra opening and ensuring consistent snow across area?
4. Is there a need for a future conversation about how to monitor for impacts/lack of impacts following exploration this winter to guide future activities?

When

Changed: Mon Oct 29, 2018 2:30pm 3:30pm Alaska  
Time Anchorage

Where

Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP ([map](#))

Calendar

joanna\_fox@fws.gov

Who

- 
- 
- 
- 
- 
- 
- 
- 
- 

wendy\_loya@fws.gov  
Joshua Rose  
LaMarr, Sarah  
Paul Leonard  
joanna\_fox@fws.gov  
Jones, Nichelle (Shell  
Steve Berendzen  
Matt Whitman  
Donna Wixon

Going (joanna\_fox@fws.gov)? [Yes](#) [Maybe](#) [No](#) [more options »](#)  
Invitation from [Google Calendar](#)

You are receiving this email at the account joanna\_fox@fws.gov because you are subscribed for updated invitations on calendar joanna\_fox@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.](#)

**From:** wendy\_loya@fws.gov  
**Location:** Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Updated invitation: Coastal Plain Snow Monitoring Discussion @ Mon Oct 29, 2018 14:30 - 15:30 (AKDT) (joshua\_rose@fws.gov)  
**Start Date/Time:** 2018-10-29T18:30:00-04:00  
**End Date/Time:** 2018-10-29T19:30:00-04:00  
[invite.ics](#)

This event has been changed.

[more details »](#)

### Coastal Plain Snow Monitoring Discussion

Changed:

Moving this to same time but on MONDAY, so we can have Matt Whitman and Joanna on the call. Hoping it works for Shelly, Sarah and/or Donna.

It looks like this time will work for most of us, please accept or decline so we can reschedule for next week if we don't have critical participation

This is in response to Shelly's email indicating we should talk ASAP about snow monitoring when this week's seismic meeting was cancelled. Looping Matt in, please forward to anyone else that should be included.

Discussion on snow depth and soil temperature monitoring for this winter

1. What could be done to meet goals of team that went out to install thermistors and met station but were unable to fly?
2. What could be done working with SAE on snow depth monitoring and their plans for measuring snow depth?
3. Is the language in the EA consistent with where we are at following what we learned at the snow workshop?
  - a. Industry asked for consistent requirements across slope, but we have not attempted to delineate 1002 area into coastal/low/high foothills
  - b. What is the best way to work with SAE on tundra opening and ensuring consistent snow across area?
4. Is there a need for a future conversation about how to monitor for impacts/lack of impacts following exploration this winter to guide future activities?

When

Changed: Mon Oct 29, 2018 14:30 15:30 Alaska Time

Where

Anchorage

Calendar

Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP ([map](#))

Who

joshua\_rose@fws.gov

- 
- 
- 
- 
- 
- 
- 
- 
- 

wendy\_loya@fws.gov  
Matt Whitman  
Jones, Nichelle (Shell  
Paul Leonard  
joshua\_rose@fws.gov  
Steve Berendzen  
LaMarr, Sarah  
Donna Wixon  
Fox, Joanna

Going (joshua\_rose@fws.gov)? [Yes](#) [Maybe](#) [No](#) [more options »](#)  
Invitation from [Google Calendar](#)

You are receiving this email at the account [joshua\\_rose@fws.gov](mailto:joshua_rose@fws.gov) because you are subscribed for updated invitations on calendar [joshua\\_rose@fws.gov](mailto: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](#).

**From:** wendy\_loya@fws.gov  
**Location:** Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Updated invitation: Coastal Plain Snow Monitoring Discussion @ Mon Oct 29, 2018 2:30pm - 3:30pm (AKDT) (paul\_leonard@fws.gov)  
**Start Date/Time:** 2018-10-29T18:30:00-04:00  
**End Date/Time:** 2018-10-29T19:30:00-04:00  
[invite.ics](#)

**This event has been changed.**  
[more details »](#)

**Coastal Plain Snow Monitoring Discussion**

Changed:  
**Moving this to same time but on MONDAY, so we can have Matt Whitman and Joanna on the call. Hoping it works for Shelly, Sarah and/or Donna.**

It looks like this time will work for most of us, please accept or decline so we can reschedule for next week if we don't have critical participation

This is in response to Shelly's email indicating we should talk ASAP about snow monitoring when this week's seismic meeting was cancelled. Looping Matt in, please forward to anyone else that should be included.

Discussion on snow depth and soil temperature monitoring for this winter

1. What could be done to meet goals of team that went out to install thermistors and met station but were unable to fly?
2. What could be done working with SAE on snow depth monitoring and their plans for measuring snow depth?
3. Is the language in the EA consistent with where we are at following what we learned at the snow workshop?
  - a. Industry asked for consistent requirements across slope, but we have not attempted to delineate 1002 area into coastal/low/high foothills
  - b. What is the best way to work with SAE on tundra opening and ensuring consistent snow across area?
4. Is there a need for a future conversation about how to monitor for impacts/lack of impacts following exploration this winter to guide future activities?

When **Changed: Mon Oct 29, 2018 2:30pm 3:30pm Alaska**  
 Time Anchorage  
 Where Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP (map)  
 Calendar paul\_leonard@fws.gov  
 Who

- 
- 
- 
- 
- 
- 
- 
- 
- 

- wendy\_loya@fws.gov
- LaMarr, Sarah
- Joshua Rose
- Steve Berendzen
- Fox, Joanna
- paul\_leonard@fws.gov
- Jones, Nichelle (Shell)
- Donna Wixon
- Matt Whitman

Going (paul\_leonard@fws.gov)? **Yes Maybe No** [more options »](#)  
 Invitation from [Google Calendar](#)

You are receiving this email at the account paul.leonard@fws.gov because you are subscribed for updated invitations on calendar paul.leonard@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.](#)

**From:** wendy\_loya@fws.gov  
**Location:** Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Updated invitation: Coastal Plain Snow Monitoring Discussion @ Mon Oct 29, 2018 2:30pm - 3:30pm (AKDT) (steve\_berendzen@fws.gov)  
**Start Date/Time:** 2018-10-29T18:30:00-04:00  
**End Date/Time:** 2018-10-29T19:30:00-04:00  
[invite.ics](#)

This event has been changed.

[more details »](#)

### Coastal Plain Snow Monitoring Discussion

Changed:

Moving this to same time but on MONDAY, so we can have Matt Whitman and Joanna on the call. Hoping it works for Shelly, Sarah and/or Donna.

It looks like this time will work for most of us, please accept or decline so we can reschedule for next week if we don't have critical participation

This is in response to Shelly's email indicating we should talk ASAP about snow monitoring when this week's seismic meeting was cancelled. Looping Matt in, please forward to anyone else that should be included.

Discussion on snow depth and soil temperature monitoring for this winter

1. What could be done to meet goals of team that went out to install thermistors and met station but were unable to fly?
2. What could be done working with SAE on snow depth monitoring and their plans for measuring snow depth?
3. Is the language in the EA consistent with where we are at following what we learned at the snow workshop?
  - a. Industry asked for consistent requirements across slope, but we have not attempted to delineate 1002 area into coastal/low/high foothills
  - b. What is the best way to work with SAE on tundra opening and ensuring consistent snow across area?
4. Is there a need for a future conversation about how to monitor for impacts/lack of impacts following exploration this winter to guide future activities?

When

**Changed:** Mon Oct 29, 2018 2:30pm 3:30pm Alaska  
Time Anchorage

Where

Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP [\(map\)](#)

Calendar

steve\_berendzen@fws.gov

Who

- 
- 
- 
- 
- 
- 
- 
- 
- 

wendy\_loya@fws.gov  
Matt Whitman  
steve\_berendzen@fws.gov  
Jones, Nichelle (Shell)  
Paul Leonard  
LaMarr, Sarah  
Fox, Joanna  
Joshua Rose  
Donna Wixon

Going (steve\_berendzen@fws.gov)? [Yes](#) [Maybe](#) [No](#) [more options »](#)  
Invitation from [Google Calendar](#)

You are receiving this email at the account [steve\\_berendzen@fws.gov](mailto:steve_berendzen@fws.gov) because you are subscribed for updated invitations on calendar [steve\\_berendzen@fws.gov](mailto:steve_berendzen@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](#).

**From:** wendy\_loya@fws.gov  
**Location:** Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Updated invitation: Coastal Plain Snow Monitoring Discussion @ Mon Oct 29, 2018 2:30pm - 3:30pm (AKDT) (dwixon@blm.gov)  
**Start Date/Time:** 2018-10-29T18:30:00-04:00  
**End Date/Time:** 2018-10-29T19:30:00-04:00  
[invite.ics](#)

This event has been changed.

[more details »](#)

### Coastal Plain Snow Monitoring Discussion

Changed:

Moving this to same time but on MONDAY, so we can have Matt Whitman and Joanna on the call. Hoping it works for Shelly, Sarah and/or Donna.

It looks like this time will work for most of us, please accept or decline so we can reschedule for next week if we don't have critical participation

This is in response to Shelly's email indicating we should talk ASAP about snow monitoring when this week's seismic meeting was cancelled. Looping Matt in, please forward to anyone else that should be included.

Discussion on snow depth and soil temperature monitoring for this winter

1. What could be done to meet goals of team that went out to install thermistors and met station but were unable to fly?
2. What could be done working with SAE on snow depth monitoring and their plans for measuring snow depth?
3. Is the language in the EA consistent with where we are at following what we learned at the snow workshop?
  - a. Industry asked for consistent requirements across slope, but we have not attempted to delineate 1002 area into coastal/low/high foothills
  - b. What is the best way to work with SAE on tundra opening and ensuring consistent snow across area?
4. Is there a need for a future conversation about how to monitor for impacts/lack of impacts following exploration this winter to guide future activities?

When

**Changed:** Mon Oct 29, 2018 2:30pm 3:30pm Alaska  
Time Anchorage

Where

Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP [\(map\)](#)

Calendar

[dwixon@blm.gov](mailto:dwixon@blm.gov)

Who

- 
- 
- 
- 
- 
- 
- 
- 
- 

wendy\_loya@fws.gov  
LaMarr, Sarah  
Jones, Nichelle (Shell)  
Fox, Joanna  
Paul Leonard  
[dwixon@blm.gov](mailto:dwixon@blm.gov)  
Steve Berendzen  
Joshua Rose  
Matt Whitman

Going ([dwixon@blm.gov](mailto:dwixon@blm.gov))? [Yes](#) [Maybe](#) [No](#) [more options »](#)  
Invitation from [Google Calendar](#)

You are receiving this email at the account [dwixon@blm.gov](mailto:dwixon@blm.gov) because you are subscribed for updated invitations on calendar [dwixon@blm.gov](mailto:dwixon@blm.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](#).

**From:** Google Calendar  
**Location:** Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Declined: Coastal Plain Snow Monitoring Discussion @ Mon Oct 29, 2018 2:30pm - 3:30pm (AKDT) (joanna\_fox@fws.gov)  
**Start Date/Time:** 2018-10-29T18:30:00-04:00  
**End Date/Time:** 2018-10-29T19:30:00-04:00  
[invite.ics](#)

joanna\_fox@fws.gov has declined this invitation with this note:  
"Declined because I am out of office"

### Coastal Plain Snow Monitoring Discussion

Moving this to same time but on MONDAY, so we can have Matt Whitman and Joanna on the call. Hoping it works for Shelly, Sarah and/or Donna.

It looks like this time will work for most of us, please accept or decline so we can reschedule for next week if we don't have critical participation

This is in response to Shelly's email indicating we should talk ASAP about snow monitoring when this week's seismic meeting was cancelled. Looping Matt in, please forward to anyone else that should be included.

Discussion on snow depth and soil temperature monitoring for this winter

1. What could be done to meet goals of team that went out to install thermistors and met station but were unable to fly?
2. What could be done working with SAE on snow depth monitoring and their plans for measuring snow depth?
3. Is the language in the EA consistent with where we are at following what we learned at the snow workshop?
  - a. Industry asked for consistent requirements across slope, but we have not attempted to delineate 1002 area into coastal/low/high foothills
  - b. What is the best way to work with SAE on tundra opening and ensuring consistent snow across area?
4. Is there a need for a future conversation about how to monitor for impacts/lack of impacts following exploration this winter to guide future activities?

When

Mon Oct 29, 2018 2:30pm 3:30pm Alaska Time  
Anchorage

Where

Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP (map)

Calendar

joanna\_fox@fws.gov

Who

- 
- 
- 
- 
- 
- 
- 
- 
- 

wendy\_loya@fws.gov  
Joshua Rose  
LaMarr, Sarah  
Paul Leonard  
joanna\_fox@fws.gov  
Jones, Nichelle (Shell  
Steve Berendzen  
Matt Whitman  
Donna Wixon

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 joanna\_fox@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](#).

**From:** Google Calendar  
**Location:** Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Accepted: Coastal Plain Snow Monitoring Discussion @ Mon Oct 29, 2018 2:30pm - 3:30pm (AKDT) (wendy\_loya@fws.gov)  
**Start Date/Time:** 2018-10-29T18:30:00-04:00  
**End Date/Time:** 2018-10-29T19:30:00-04:00  
[invite.ics](#)

Nichelle (Shelly) Jones has accepted this invitation.  
**Coastal Plain Snow Monitoring Discussion**

Moving this to same time but on MONDAY, so we can have Matt Whitman and Joanna on the call. Hoping it works for Shelly, Sarah and/or Donna.

It looks like this time will work for most of us, please accept or decline so we can reschedule for next week if we don't have critical participation

This is in response to Shelly's email indicating we should talk ASAP about snow monitoring when this week's seismic meeting was cancelled. Looping Matt in, please forward to anyone else that should be included.

Discussion on snow depth and soil temperature monitoring for this winter

1. What could be done to meet goals of team that went out to install thermistors and met station but were unable to fly?
2. What could be done working with SAE on snow depth monitoring and their plans for measuring snow depth?
3. Is the language in the EA consistent with where we are at following what we learned at the snow workshop?
  - a. Industry asked for consistent requirements across slope, but we have not attempted to delineate 1002 area into coastal/low/high foothills
  - b. What is the best way to work with SAE on tundra opening and ensuring consistent snow across area?
4. Is there a need for a future conversation about how to monitor for impacts/lack of impacts following exploration this winter to guide future activities?

When

Mon Oct 29, 2018 2:30pm - 3:30pm Alaska Time  
Anchorage

Where

Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP ([map](#))

Calendar

wendy\_loya@fws.gov

Who

- 
- 
- 
- 
- 
- 
- 
- 
- 

wendy\_loya@fws.gov  
Fox, Joanna  
LaMarr, Sarah  
Paul Leonard  
Steve Berendzen  
Jones, Nichelle (Shelly)  
Joshua Rose  
Donna Wixon  
Matt Whitman

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.](#)

**From:** Google Calendar  
**Location:** Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Declined: Coastal Plain Snow Monitoring Discussion @ Mon Oct 29, 2018 2:30pm - 3:30pm (AKDT) (wendy\_loya@fws.gov)  
**Start Date/Time:** 2018-10-29T18:30:00-04:00  
**End Date/Time:** 2018-10-29T19:30:00-04:00  
[invite.ics](#)

Sarah LaMarr has declined this invitation.

### Coastal Plain Snow Monitoring Discussion

Moving this to same time but on MONDAY, so we can have Matt Whitman and Joanna on the call. Hoping it works for Shelly, Sarah and/or Donna.

It looks like this time will work for most of us, please accept or decline so we can reschedule for next week if we don't have critical participation

This is in response to Shelly's email indicating we should talk ASAP about snow monitoring when this week's seismic meeting was cancelled. Looping Matt in, please forward to anyone else that should be included.

Discussion on snow depth and soil temperature monitoring for this winter

1. What could be done to meet goals of team that went out to install thermistors and met station but were unable to fly?
2. What could be done working with SAE on snow depth monitoring and their plans for measuring snow depth?
3. Is the language in the EA consistent with where we are at following what we learned at the snow workshop?
  - a. Industry asked for consistent requirements across slope, but we have not attempted to delineate 1002 area into coastal/low/high foothills
  - b. What is the best way to work with SAE on tundra opening and ensuring consistent snow across area?
4. Is there a need for a future conversation about how to monitor for impacts/lack of impacts following exploration this winter to guide future activities?

When

Mon Oct 29, 2018 2:30pm - 3:30pm Alaska Time  
Anchorage

Where

Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP ([map](#))

Calendar

wendy\_loya@fws.gov

Who

- 
- 
- 
- 
- 
- 
- 
- 
- 

wendy\_loya@fws.gov  
Fox, Joanna  
LaMarr, Sarah  
Paul Leonard  
Steve Berendzen  
Jones, Nichelle (Shell)  
Joshua Rose  
Donna Wixon  
Matt Whitman

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.](#)

**From:** Google Calendar  
**Location:** Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Accepted: Coastal Plain Snow Monitoring Discussion @ Mon Oct 29, 2018 2:30pm - 3:30pm (AKDT) (wendy\_loya@fws.gov)  
**Start Date/Time:** 2018-10-29T18:30:00-04:00  
**End Date/Time:** 2018-10-29T19:30:00-04:00  
[invite.ics](#)

Matt Whitman has accepted this invitation.

### Coastal Plain Snow Monitoring Discussion

Moving this to same time but on MONDAY, so we can have Matt Whitman and Joanna on the call. Hoping it works for Shelly, Sarah and/or Donna.

It looks like this time will work for most of us, please accept or decline so we can reschedule for next week if we don't have critical participation

This is in response to Shelly's email indicating we should talk ASAP about snow monitoring when this week's seismic meeting was cancelled. Looping Matt in, please forward to anyone else that should be included.

Discussion on snow depth and soil temperature monitoring for this winter

1. What could be done to meet goals of team that went out to install thermistors and met station but were unable to fly?
2. What could be done working with SAE on snow depth monitoring and their plans for measuring snow depth?
3. Is the language in the EA consistent with where we are at following what we learned at the snow workshop?
  - a. Industry asked for consistent requirements across slope, but we have not attempted to delineate 1002 area into coastal/low/high foothills
  - b. What is the best way to work with SAE on tundra opening and ensuring consistent snow across area?
4. Is there a need for a future conversation about how to monitor for impacts/lack of impacts following exploration this winter to guide future activities?

When

Mon Oct 29, 2018 2:30pm - 3:30pm Alaska Time  
Anchorage

Where

Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP ([map](#))

Calendar

wendy\_loya@fws.gov

Who

- 
- 
- 
- 
- 
- 
- 
- 
- 

wendy\_loya@fws.gov  
Fox, Joanna  
LaMarr, Sarah  
Paul Leonard  
Steve Berendzen  
Jones, Nichelle (Shell)  
Joshua Rose  
Donna Wixon  
Matt Whitman

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:** Joanna Fox[joanna\_fox@fws.gov]  
**From:** Wendy Loya  
**Sent:** 2018-10-25T19:24:47-04:00  
**Importance:** Normal  
**Subject:** RE: Updated invitation: Coastal Plain Snow Monitoring Discussion @ Mon Oct 29, 2018 2:30pm - 3:30pm (AKDT) (joanna\_fox@fws.gov)  
**Received:** 2018-10-25T19:24:54-04:00

Ok, thanks! I did get a yes from Shelly and Matt Whitman, and it looks like it works for Steve and Josh and Paul, so we should be able to have a productive conversation and we'll capture notes to keep you in the loop.

Cheers,  
Wendy

Dr. Wendy M. Loya  
Arctic Program Coordinator  
US Fish and Wildlife Service, Office of Science Applications  
Anchorage, Alaska  
907.786.3532 (office)  
907.227.2942 (mobile)

**From:** Fox, Joanna <joanna\_fox@fws.gov>  
**Sent:** Thursday, October 25, 2018 3:19 PM  
**To:** Wendy Loya <wendy\_loya@fws.gov>  
**Subject:** Re: Updated invitation: Coastal Plain Snow Monitoring Discussion @ Mon Oct 29, 2018 2:30pm - 3:30pm (AKDT) (joanna\_fox@fws.gov)

Hi Wendy,

Unfortunately, I'm out a lot the next couple of weeks (lots of things going on with kids). I'm not available after 2pm Monday or Tuesday, and am tied up most of the day Wednesday meeting with staff to wrap up performance appraisals. Then, I'm on leave Thursday and Friday.

Probably best to schedule around me and settle on a date/time that works well for everyone else.

Thanks!  
Joanna

---

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](http://www.facebook.com/arcticnationalwildliferefuge)

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

On Thu, Oct 25, 2018 at 3:13 PM Wendy Loya <[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)> wrote:

**This event has been changed.**

[more details »](#)

### **Coastal Plain Snow Monitoring Discussion**

**Changed:**

**Moving this to same time but on MONDAY, so we can have Matt Whitman and Joanna on the call. Hoping it works for Shelly, Sarah and/or Donna.**

It looks like this time will work for most of us, please accept or decline so we can reschedule for next week if we don't have critical participation

This is in response to Shelly's email indicating we should talk ASAP about snow monitoring when this week's seismic meeting was cancelled. Looping Matt in, please forward to anyone else that should be included.

Discussion on snow depth and soil temperature monitoring for this winter

1. What could be done to meet goals of team that went out to install thermistors and met station but were unable to fly?
2. What could be done working with SAE on snow depth monitoring and their plans for measuring snow depth?
3. Is the language in the EA consistent with where we are at following what we learned at the snow workshop?
  - a. Industry asked for consistent requirements across slope, but we have not attempted to delineate 1002 area into coastal/low/high foothills
  - b. What is the best way to work with SAE on tundra opening and ensuring consistent snow across area?
4. Is there a need for a future conversation about how to monitor for impacts/lack of impacts following exploration this winter to guide future activities?

When **Changed:** Mon Oct 29, 2018 2:30pm – 3:30pm Alaska Time - Anchorage

Where Instant Meeting Audio # [\(b\) \(5\) CIP](#) # [\(b\) \(5\) CIP](#) ([map](#))

Calendar [joanna\\_fox@fws.gov](mailto:joanna_fox@fws.gov)

- Who
- [wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov) - organizer
  - Joshua Rose
  - LaMarr, Sarah
  - Paul Leonard
  - [joanna\\_fox@fws.gov](mailto:joanna_fox@fws.gov)
  - Jones, Nichelle (Shelly)
  - Steve Berendzen
  - Matt Whitman
  - Donna Wixon

Going ([joanna\\_fox@fws.gov](mailto:joanna_fox@fws.gov))? **Yes** - **Maybe** - **No** [more options »](#)

Invitation from [Google Calendar](#)

You are receiving this email at the account [joanna\\_fox@fws.gov](mailto:joanna_fox@fws.gov) because you are subscribed for updated invitations on calendar [joanna\\_fox@fws.gov](mailto:joanna_fox@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](#).

**From:** Google Calendar  
**Location:** Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Accepted: Coastal Plain Snow Monitoring Discussion @ Mon Oct 29, 2018 2:30pm - 3:30pm (AKDT) (wendy\_loya@fws.gov)  
**Start Date/Time:** 2018-10-29T18:30:00-04:00  
**End Date/Time:** 2018-10-29T19:30:00-04:00  
[invite.ics](#)

Paul Leonard has accepted this invitation.

### Coastal Plain Snow Monitoring Discussion

Moving this to same time but on MONDAY, so we can have Matt Whitman and Joanna on the call. Hoping it works for Shelly, Sarah and/or Donna.

It looks like this time will work for most of us, please accept or decline so we can reschedule for next week if we don't have critical participation

This is in response to Shelly's email indicating we should talk ASAP about snow monitoring when this week's seismic meeting was cancelled. Looping Matt in, please forward to anyone else that should be included.

Discussion on snow depth and soil temperature monitoring for this winter

1. What could be done to meet goals of team that went out to install thermistors and met station but were unable to fly?
2. What could be done working with SAE on snow depth monitoring and their plans for measuring snow depth?
3. Is the language in the EA consistent with where we are at following what we learned at the snow workshop?
  - a. Industry asked for consistent requirements across slope, but we have not attempted to delineate 1002 area into coastal/low/high foothills
  - b. What is the best way to work with SAE on tundra opening and ensuring consistent snow across area?
4. Is there a need for a future conversation about how to monitor for impacts/lack of impacts following exploration this winter to guide future activities?

When

Mon Oct 29, 2018 2:30pm - 3:30pm Alaska Time  
Anchorage

Where

Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP ([map](#))

Calendar

wendy\_loya@fws.gov

Who

- 
- 
- 
- 
- 
- 
- 
- 
- 

wendy\_loya@fws.gov  
Fox, Joanna  
LaMarr, Sarah  
Paul Leonard  
Steve Berendzen  
Jones, Nichelle (Shell)  
Joshua Rose  
Donna Wixon  
Matt Whitman

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.](#)

**From:** Google Calendar  
**Location:** Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Accepted: Coastal Plain Snow Monitoring Discussion @ Mon Oct 29, 2018 2:30pm - 3:30pm (AKDT) (wendy\_loya@fws.gov)  
**Start Date/Time:** 2018-10-29T18:30:00-04:00  
**End Date/Time:** 2018-10-29T19:30:00-04:00  
[invite.ics](#)

Steve Berendzen has accepted this invitation.

### Coastal Plain Snow Monitoring Discussion

Moving this to same time but on MONDAY, so we can have Matt Whitman and Joanna on the call. Hoping it works for Shelly, Sarah and/or Donna.

It looks like this time will work for most of us, please accept or decline so we can reschedule for next week if we don't have critical participation

This is in response to Shelly's email indicating we should talk ASAP about snow monitoring when this week's seismic meeting was cancelled. Looping Matt in, please forward to anyone else that should be included.

Discussion on snow depth and soil temperature monitoring for this winter

1. What could be done to meet goals of team that went out to install thermistors and met station but were unable to fly?
2. What could be done working with SAE on snow depth monitoring and their plans for measuring snow depth?
3. Is the language in the EA consistent with where we are at following what we learned at the snow workshop?
  - a. Industry asked for consistent requirements across slope, but we have not attempted to delineate 1002 area into coastal/low/high foothills
  - b. What is the best way to work with SAE on tundra opening and ensuring consistent snow across area?
4. Is there a need for a future conversation about how to monitor for impacts/lack of impacts following exploration this winter to guide future activities?

When

Mon Oct 29, 2018 2:30pm - 3:30pm Alaska Time  
Anchorage

Where

Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP ([map](#))

Calendar

wendy\_loya@fws.gov

Who

- 
- 
- 
- 
- 
- 
- 
- 
- 

wendy\_loya@fws.gov  
Fox, Joanna  
LaMarr, Sarah  
Paul Leonard  
Steve Berendzen  
Jones, Nichelle (Shell)  
Joshua Rose  
Donna Wixon  
Matt Whitman

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.](#)

**From:** Google Calendar  
**Location:** FWS-FW7 Mary Smith Media Center/Regional Office, Fairbanks Refuges Conference Room or telecon # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Declined: USGS/FWS Research Updates for Arctic Refuge Coastal Plain @ Wed Oct 31, 2018 1pm - 2pm (AKDT) (wendy\_loya@fws.gov)  
**Start Date/Time:** 2018-10-31T17:00:00-04:00  
**End Date/Time:** 2018-10-31T18:00:00-04:00  
[invite.ics](#)

Mary Colligan has declined this invitation.

**USGS/FWS Research Updates for Arctic Refuge Coastal Plain (1002) research-Please forward to interested colleagues**

Hi FWS, BLM and USGS colleagues,

On Wednesday 10/31, FWS and USGS will hold the first quarterly update on the projects developed collaboratively through the USGS Quick Response Program/Science Support Program (QRP/SSP) to address future management and information needs for the Arctic Refuge Coastal Plain (1002 area). We invite you to join in Anchorage at our Tudor Rd office, in Fairbanks in the FWS Refuges Conference Room or by telephone. We are not planning to have a webinar.

The projects and PI's are:

- \* Development of a population monitoring plan for the Southern Beaufort Sea polar bear subpopulation. (Atwood and Wilson)
- \* Polar bear maternal den disturbance levels associated with industrial activity in the 1002 Area of the Arctic National Wildlife Refuge (Atwood and Wilson)

- \* Quantifying groundwater and aufeis and their contribution to surface water availability and habitat in the Arctic National Wildlife Refuge, Alaska (Koch and Rose)
- \* Do juvenile Dolly Varden overwinter in the lower Canning River and pose a consideration for industrial development? (von Biela and Brown)
- \* Mapping calving and post calving habitat quality for the Porcupine Caribou Herd under dynamic climate conditions, and assessing the influence of habitat on neonate calf survival (Johnson and Arthur)
- \* Distribution and abundance of breeding waterbirds in relation to habitat type on the 1002 Area of the Arctic National Wildlife Refuge, Alaska (Amundson and Frost)

Please forward to other interested colleagues.

Anchorage: FWS FW7 Mary Smith Media Center/Regional Office

Fairbanks: Refuges Conference Room

Teleconference # (b) (5) CIP # (b) (5) CIP

Thank you, let me know if you have any questions!

0000010484

Wendy

Dr. Wendy M. Loya

Arctic Program Coordinator

US Fish and Wildlife Service, Office of Science Applications

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)



**From:** Google Calendar  
**Location:** FWS-FW7 Mary Smith Media Center/Regional Office, Fairbanks Refuges Conference Room or telecon # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Declined: USGS/FWS Research Updates for Arctic Refuge Coastal Plain @ Wed Oct 31, 2018 1pm - 2pm (AKDT) (wendy\_loya@fws.gov)  
**Start Date/Time:** 2018-10-31T17:00:00-04:00  
**End Date/Time:** 2018-10-31T18:00:00-04:00  
[invite.ics](#)

Debora Nigro has declined this invitation.

**USGS/FWS Research Updates for Arctic Refuge Coastal Plain (1002) research-Please forward to interested colleagues**

Hi FWS, BLM and USGS colleagues,

On Wednesday 10/31, FWS and USGS will hold the first quarterly update on the projects developed collaboratively through the USGS Quick Response Program/Science Support Program (QRP/SSP) to address future management and information needs for the Arctic Refuge Coastal Plain (1002 area). We invite you to join in Anchorage at our Tudor Rd office, in Fairbanks in the FWS Refuges Conference Room or by telephone. We are not planning to have a webinar.

The projects and PI's are:

- \* Development of a population monitoring plan for the Southern Beaufort Sea polar bear subpopulation. (Atwood and Wilson)
- \* Polar bear maternal den disturbance levels associated with industrial activity in the 1002 Area of the Arctic National Wildlife Refuge (Atwood and Wilson)

- \* Quantifying groundwater and aufeis and their contribution to surface water availability and habitat in the Arctic National Wildlife Refuge, Alaska (Koch and Rose)
- \* Do juvenile Dolly Varden overwinter in the lower Canning River and pose a consideration for industrial development? (von Biela and Brown)
- \* Mapping calving and post calving habitat quality for the Porcupine Caribou Herd under dynamic climate conditions, and assessing the influence of habitat on neonate calf survival (Johnson and Arthur)
- \* Distribution and abundance of breeding waterbirds in relation to habitat type on the 1002 Area of the Arctic National Wildlife Refuge, Alaska (Amundson and Frost)

Please forward to other interested colleagues.

Anchorage: FWS FW7 Mary Smith Media Center/Regional Office

Fairbanks: Refuges Conference Room

Teleconference # (b) (5) CIP # (b) (5) CIP

Thank you, let me know if you have any questions!

0000010487

Wendy

Dr. Wendy M. Loya

Arctic Program Coordinator

US Fish and Wildlife Service, Office of Science Applications

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)



**From:** Google Calendar  
**Location:** FWS-FW7 Mary Smith Media Center/Regional Office, Fairbanks Refuges Conference Room or telecon # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Accepted: USGS/FWS Research Updates for Arctic Refuge Coastal Plain... @ Wed Oct 31, 2018 1pm - 2pm (AKDT) (wendy\_loya@fws.gov)  
**Start Date/Time:** 2018-10-31T17:00:00-04:00  
**End Date/Time:** 2018-10-31T18:00:00-04:00  
[invite.ics](#)

John Trawicki has accepted this invitation.

**USGS/FWS Research Updates for Arctic Refuge Coastal Plain (1002) research-Please forward to interested colleagues**

Hi FWS, BLM and USGS colleagues,

On Wednesday 10/31, FWS and USGS will hold the first quarterly update on the projects developed collaboratively through the USGS Quick Response Program/Science Support Program (QRP/SSP) to address future management and information needs for the Arctic Refuge Coastal Plain (1002 area). We invite you to join in Anchorage at our Tudor Rd office, in Fairbanks in the FWS Refuges Conference Room or by telephone. We are not planning to have a webinar.

The projects and PI's are:

- \* Development of a population monitoring plan for the Southern Beaufort Sea polar bear subpopulation. (Atwood and Wilson)
- \* Polar bear maternal den disturbance levels associated with industrial activity in the 1002 Area of the Arctic National Wildlife Refuge (Atwood and Wilson)

- \* Quantifying groundwater and aufeis and their contribution to surface water availability and habitat in the Arctic National Wildlife Refuge, Alaska (Koch and Rose)
- \* Do juvenile Dolly Varden overwinter in the lower Canning River and pose a consideration for industrial development? (von Biela and Brown)
- \* Mapping calving and post calving habitat quality for the Porcupine Caribou Herd under dynamic climate conditions, and assessing the influence of habitat on neonate calf survival (Johnson and Arthur)
- \* Distribution and abundance of breeding waterbirds in relation to habitat type on the 1002 Area of the Arctic National Wildlife Refuge, Alaska (Amundson and Frost)

Please forward to other interested colleagues.

Anchorage: FWS FW7 Mary Smith Media Center/Regional Office

Fairbanks: Refuges Conference Room

Teleconference # (b) (5) CIP # (b) (5) CIP

Thank you, let me know if you have any questions!

Wendy

Dr. Wendy M. Loya

Arctic Program Coordinator

US Fish and Wildlife Service, Office of Science Applications

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)



**From:** Google Calendar  
**Location:** FWS-FW7 Mary Smith Media Center/Regional Office, Fairbanks Refuges Conference Room or telecon # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Tentatively Accepted: USGS/FWS Research Updates for Arctic Refuge Coastal Plain @ Wed Oct 31, 2018 1pm - 2pm (AKDT) (wendy\_loya@fws.gov)  
**Start Date/Time:** 2018-10-31T17:00:00-04:00  
**End Date/Time:** 2018-10-31T18:00:00-04:00  
[invite.ics](#)

Joanna Fox has replied "Maybe" to this invitation.

**USGS/FWS Research Updates for Arctic Refuge Coastal Plain (1002) research-Please forward to interested colleagues**

Hi FWS, BLM and USGS colleagues,

On Wednesday 10/31, FWS and USGS will hold the first quarterly update on the projects developed collaboratively through the USGS Quick Response Program/Science Support Program (QRP/SSP) to address future management and information needs for the Arctic Refuge Coastal Plain (1002 area). We invite you to join in Anchorage at our Tudor Rd office, in Fairbanks in the FWS Refuges Conference Room or by telephone. We are not planning to have a webinar.

The projects and PI's are:

- \* Development of a population monitoring plan for the Southern Beaufort Sea polar bear subpopulation. (Atwood and Wilson)
- \* Polar bear maternal den disturbance levels associated with industrial activity in the 1002 Area of the Arctic National Wildlife Refuge (Atwood and Wilson)

- \* Quantifying groundwater and aufeis and their contribution to surface water availability and habitat in the Arctic National Wildlife Refuge, Alaska (Koch and Rose)
- \* Do juvenile Dolly Varden overwinter in the lower Canning River and pose a consideration for industrial development? (von Biela and Brown)
- \* Mapping calving and post calving habitat quality for the Porcupine Caribou Herd under dynamic climate conditions, and assessing the influence of habitat on neonate calf survival (Johnson and Arthur)
- \* Distribution and abundance of breeding waterbirds in relation to habitat type on the 1002 Area of the Arctic National Wildlife Refuge, Alaska (Amundson and Frost)

Please forward to other interested colleagues.

Anchorage: FWS FW7 Mary Smith Media Center/Regional Office

Fairbanks: Refuges Conference Room

Teleconference # (b) (5) CIP # (b) (5) CIP

Thank you, let me know if you have any questions!

Wendy

Dr. Wendy M. Loya

Arctic Program Coordinator

US Fish and Wildlife Service, Office of Science Applications

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)



**From:** Google Calendar  
**Location:** FWS-FW7 Mary Smith Media Center/Regional Office, Fairbanks Refuges Conference Room or telecon # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Accepted: USGS/FWS Research Updates for Arctic Refuge Coastal Plain @ Wed Oct 31, 2018 1pm - 2pm (AKDT) (wendy\_loya@fws.gov)  
**Start Date/Time:** 2018-10-31T17:00:00-04:00  
**End Date/Time:** 2018-10-31T18:00:00-04:00  
[invite.ics](#)

John Pearce has accepted this invitation.

**USGS/FWS Research Updates for Arctic Refuge Coastal Plain (1002) research-Please forward to interested colleagues**

Hi FWS, BLM and USGS colleagues,

On Wednesday 10/31, FWS and USGS will hold the first quarterly update on the projects developed collaboratively through the USGS Quick Response Program/Science Support Program (QRP/SSP) to address future management and information needs for the Arctic Refuge Coastal Plain (1002 area). We invite you to join in Anchorage at our Tudor Rd office, in Fairbanks in the FWS Refuges Conference Room or by telephone. We are not planning to have a webinar.

The projects and PI's are:

- \* Development of a population monitoring plan for the Southern Beaufort Sea polar bear subpopulation. (Atwood and Wilson)
- \* Polar bear maternal den disturbance levels associated with industrial activity in the 1002 Area of the Arctic National Wildlife Refuge (Atwood and Wilson)

- \* Quantifying groundwater and aufeis and their contribution to surface water availability and habitat in the Arctic National Wildlife Refuge, Alaska (Koch and Rose)
- \* Do juvenile Dolly Varden overwinter in the lower Canning River and pose a consideration for industrial development? (von Biela and Brown)
- \* Mapping calving and post calving habitat quality for the Porcupine Caribou Herd under dynamic climate conditions, and assessing the influence of habitat on neonate calf survival (Johnson and Arthur)
- \* Distribution and abundance of breeding waterbirds in relation to habitat type on the 1002 Area of the Arctic National Wildlife Refuge, Alaska (Amundson and Frost)

Please forward to other interested colleagues.

Anchorage: FWS FW7 Mary Smith Media Center/Regional Office

Fairbanks: Refuges Conference Room

Teleconference # (b) (5) CIP # (b) (5) CIP

Thank you, let me know if you have any questions!

0000010496

Wendy

Dr. Wendy M. Loya

Arctic Program Coordinator

US Fish and Wildlife Service, Office of Science Applications

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)



**From:** Google Calendar  
**Location:** FWS-FW7 Mary Smith Media Center/Regional Office, Fairbanks Refuges Conference Room or telecon # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Accepted: USGS/FWS Research Updates for Arctic Refuge Coastal Plain @ Wed Oct 31, 2018 1pm - 2pm (AKDT) (wendy\_loya@fws.gov)  
**Start Date/Time:** 2018-10-31T17:00:00-04:00  
**End Date/Time:** 2018-10-31T18:00:00-04:00  
[invite.ics](#)

Paul Leonard has accepted this invitation.

**USGS/FWS Research Updates for Arctic Refuge Coastal Plain (1002) research-Please forward to interested colleagues**

Hi FWS, BLM and USGS colleagues,

On Wednesday 10/31, FWS and USGS will hold the first quarterly update on the projects developed collaboratively through the USGS Quick Response Program/Science Support Program (QRP/SSP) to address future management and information needs for the Arctic Refuge Coastal Plain (1002 area). We invite you to join in Anchorage at our Tudor Rd office, in Fairbanks in the FWS Refuges Conference Room or by telephone. We are not planning to have a webinar.

The projects and PI's are:

- \* Development of a population monitoring plan for the Southern Beaufort Sea polar bear subpopulation. (Atwood and Wilson)
- \* Polar bear maternal den disturbance levels associated with industrial activity in the 1002 Area of the Arctic National Wildlife Refuge (Atwood and Wilson)

- \* Quantifying groundwater and aufeis and their contribution to surface water availability and habitat in the Arctic National Wildlife Refuge, Alaska (Koch and Rose)
- \* Do juvenile Dolly Varden overwinter in the lower Canning River and pose a consideration for industrial development? (von Biela and Brown)
- \* Mapping calving and post calving habitat quality for the Porcupine Caribou Herd under dynamic climate conditions, and assessing the influence of habitat on neonate calf survival (Johnson and Arthur)
- \* Distribution and abundance of breeding waterbirds in relation to habitat type on the 1002 Area of the Arctic National Wildlife Refuge, Alaska (Amundson and Frost)

Please forward to other interested colleagues.

Anchorage: FWS FW7 Mary Smith Media Center/Regional Office

Fairbanks: Refuges Conference Room

Teleconference # (b) (5) CIP # (b) (5) CIP

Thank you, let me know if you have any questions!

Wendy

Dr. Wendy M. Loya

Arctic Program Coordinator

US Fish and Wildlife Service, Office of Science Applications

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)



**From:** Google Calendar  
**Location:** Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Accepted: Coastal Plain Snow Monitoring Discussion @ Mon Oct 29, 2018 2:30pm - 3:30pm (AKDT) (wendy\_loya@fws.gov)  
**Start Date/Time:** 2018-10-29T18:30:00-04:00  
**End Date/Time:** 2018-10-29T19:30:00-04:00  
[invite.ics](#)

Joshua Rose has accepted this invitation.

### Coastal Plain Snow Monitoring Discussion

Moving this to same time but on MONDAY, so we can have Matt Whitman and Joanna on the call. Hoping it works for Shelly, Sarah and/or Donna.

It looks like this time will work for most of us, please accept or decline so we can reschedule for next week if we don't have critical participation

This is in response to Shelly's email indicating we should talk ASAP about snow monitoring when this week's seismic meeting was cancelled. Looping Matt in, please forward to anyone else that should be included.

Discussion on snow depth and soil temperature monitoring for this winter

1. What could be done to meet goals of team that went out to install thermistors and met station but were unable to fly?
2. What could be done working with SAE on snow depth monitoring and their plans for measuring snow depth?
3. Is the language in the EA consistent with where we are at following what we learned at the snow workshop?
  - a. Industry asked for consistent requirements across slope, but we have not attempted to delineate 1002 area into coastal/low/high foothills
  - b. What is the best way to work with SAE on tundra opening and ensuring consistent snow across area?
4. Is there a need for a future conversation about how to monitor for impacts/lack of impacts following exploration this winter to guide future activities?

When

Mon Oct 29, 2018 2:30pm - 3:30pm Alaska Time  
Anchorage

Where

Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP ([map](#))

Calendar

wendy\_loya@fws.gov

Who

- 
- 
- 
- 
- 
- 
- 
- 
- 

wendy\_loya@fws.gov  
Fox, Joanna  
LaMarr, Sarah  
Paul Leonard  
Steve Berendzen  
Jones, Nichelle (Shell)  
Joshua Rose  
Donna Wixon  
Matt Whitman

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.](#)

**From:** Google Calendar  
**Location:** FWS-FW7 Mary Smith Media Center/Regional Office, Fairbanks Refuges Conference Room or telecon # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Accepted: USGS/FWS Research Updates for Arctic Refuge Coastal Plain... @ Wed Oct 31, 2018 1pm - 2pm (AKDT) (wendy\_loya@fws.gov)  
**Start Date/Time:** 2018-10-31T17:00:00-04:00  
**End Date/Time:** 2018-10-31T18:00:00-04:00  
[invite.ics](#)

Karen Murphy has accepted this invitation.

**USGS/FWS Research Updates for Arctic Refuge Coastal Plain (1002) research-Please forward to interested colleagues**

Hi FWS, BLM and USGS colleagues,

On Wednesday 10/31, FWS and USGS will hold the first quarterly update on the projects developed collaboratively through the USGS Quick Response Program/Science Support Program (QRP/SSP) to address future management and information needs for the Arctic Refuge Coastal Plain (1002 area). We invite you to join in Anchorage at our Tudor Rd office, in Fairbanks in the FWS Refuges Conference Room or by telephone. We are not planning to have a webinar.

The projects and PI's are:

- \* Development of a population monitoring plan for the Southern Beaufort Sea polar bear subpopulation. (Atwood and Wilson)
- \* Polar bear maternal den disturbance levels associated with industrial activity in the 1002 Area of the Arctic National Wildlife Refuge (Atwood and Wilson)

- \* Quantifying groundwater and aufeis and their contribution to surface water availability and habitat in the Arctic National Wildlife Refuge, Alaska (Koch and Rose)
- \* Do juvenile Dolly Varden overwinter in the lower Canning River and pose a consideration for industrial development? (von Biela and Brown)
- \* Mapping calving and post calving habitat quality for the Porcupine Caribou Herd under dynamic climate conditions, and assessing the influence of habitat on neonate calf survival (Johnson and Arthur)
- \* Distribution and abundance of breeding waterbirds in relation to habitat type on the 1002 Area of the Arctic National Wildlife Refuge, Alaska (Amundson and Frost)

Please forward to other interested colleagues.

Anchorage: FWS FW7 Mary Smith Media Center/Regional Office

Fairbanks: Refuges Conference Room

Teleconference # (b) (5) CIP # (b) (5) CIP

Thank you, let me know if you have any questions!

0000010504

Wendy

Dr. Wendy M. Loya

Arctic Program Coordinator

US Fish and Wildlife Service, Office of Science Applications

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)



**From:** Google Calendar  
**Location:** FWS-FW7 Mary Smith Media Center/Regional Office, Fairbanks Refuges Conference Room or telecon # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Accepted: USGS/FWS Research Updates for Arctic Refuge Coastal Plain @ Wed Oct 31, 2018 1pm - 2pm (AKDT) (wendy\_loya@fws.gov)  
**Start Date/Time:** 2018-10-31T17:00:00-04:00  
**End Date/Time:** 2018-10-31T18:00:00-04:00  
[invite.ics](#)

Ryan Wilson has accepted this invitation.

**USGS/FWS Research Updates for Arctic Refuge Coastal Plain (1002) research-Please forward to interested colleagues**

Hi FWS, BLM and USGS colleagues,

On Wednesday 10/31, FWS and USGS will hold the first quarterly update on the projects developed collaboratively through the USGS Quick Response Program/Science Support Program (QRP/SSP) to address future management and information needs for the Arctic Refuge Coastal Plain (1002 area). We invite you to join in Anchorage at our Tudor Rd office, in Fairbanks in the FWS Refuges Conference Room or by telephone. We are not planning to have a webinar.

The projects and PI's are:

- \* Development of a population monitoring plan for the Southern Beaufort Sea polar bear subpopulation. (Atwood and Wilson)
- \* Polar bear maternal den disturbance levels associated with industrial activity in the 1002 Area of the Arctic National Wildlife Refuge (Atwood and Wilson)

- \* Quantifying groundwater and aufeis and their contribution to surface water availability and habitat in the Arctic National Wildlife Refuge, Alaska (Koch and Rose)
- \* Do juvenile Dolly Varden overwinter in the lower Canning River and pose a consideration for industrial development? (von Biela and Brown)
- \* Mapping calving and post calving habitat quality for the Porcupine Caribou Herd under dynamic climate conditions, and assessing the influence of habitat on neonate calf survival (Johnson and Arthur)
- \* Distribution and abundance of breeding waterbirds in relation to habitat type on the 1002 Area of the Arctic National Wildlife Refuge, Alaska (Amundson and Frost)

Please forward to other interested colleagues.

Anchorage: FWS FW7 Mary Smith Media Center/Regional Office

Fairbanks: Refuges Conference Room

Teleconference # (b) (5) CIP # (b) (5) CIP

Thank you, let me know if you have any questions!

0000010507

Wendy

Dr. Wendy M. Loya

Arctic Program Coordinator

US Fish and Wildlife Service, Office of Science Applications

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)



**To:** wendy\_loya@fws.gov[wendy\_loya@fws.gov]  
**From:** Whitman, Matt  
**Sent:** 2018-10-30T12:31:39-04:00  
**Importance:** Normal  
**Subject:** Re: USGS/FWS Research Updates for Arctic Refuge Coastal Plain (1002) research-Please forward to interested colleagues  
**Received:** 2018-10-30T12:32:04-04:00

thanks!

On Tue, Oct 30, 2018 at 8:28 AM Wendy Loya <[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)> wrote:

Not sure why it wouldn't show up, but maybe lower in the Google version of the invite? (I use outlook)..here is the message ☺

Hi FWS, BLM and USGS colleagues,

On Wednesday 10/31, FWS and USGS will hold the first quarterly update on the projects developed collaboratively through the USGS Quick Response Program/Science Support Program (QRP/SSP) to address future management and information needs for the Arctic Refuge Coastal Plain (1002 area). We invite you to join in Anchorage at our Tudor Rd office, in Fairbanks in the FWS Refuges Conference Room or by telephone. We are not planning to have a webinar.

The projects and PI's are:

- Development of a population monitoring plan for the Southern Beaufort Sea polar bear subpopulation. (Atwood and Wilson)
- Polar bear maternal den disturbance levels associated with industrial activity in the 1002 Area of the Arctic National Wildlife Refuge (Atwood and Wilson)
- Quantifying groundwater and aufeis and their contribution to surface water availability and habitat in the Arctic National Wildlife Refuge, Alaska (Koch and Rose)
- Do juvenile Dolly Varden overwinter in the lower Canning River and pose a consideration for industrial development? (von Biela and Brown)
- Mapping calving and post-calving habitat quality for the Porcupine Caribou Herd under dynamic climate conditions, and assessing the influence of habitat on neonate calf survival (Johnson and Arthur)
- Distribution and abundance of breeding waterbirds in relation to habitat type on the 1002 Area of the Arctic National Wildlife Refuge, Alaska (Amundson and Frost)

**Please forward to other interested colleagues.**

Anchorage: FWS-FW7 Mary Smith Media Center/Regional Office

Fairbanks: Refuges Conference Room

Teleconference # (b) (5) CIP # (b) (5) CIP

Thank you, let me know if you have any questions!

Wendy

Dr. Wendy M. Loya

Arctic Program Coordinator

US Fish and Wildlife Service, Office of Science Applications

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)

Dr. Wendy M. Loya

Arctic Program Coordinator

US Fish and Wildlife Service, Office of Science Applications

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)

**From:** Whitman, Matt <[mwhitman@blm.gov](mailto:mwhitman@blm.gov)>

**Sent:** Tuesday, October 30, 2018 7:27 AM

**To:** [wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)

**Subject:** Re: USGS/FWS Research Updates for Arctic Refuge Coastal Plain (1002) research-Please forward to interested colleagues

Hi Wendy - is there a date/time/place that goes with this email? Maybe I'm missing something?  
Thanks!

On Fri, Oct 26, 2018 at 9:15 AM <[wendy\\_loya@fws.gov](mailto:wendy_loya@fws.gov)> wrote:

**To:** Steve Berendzen[steve\_berendzen@fws.gov]; Joanna Fox[joanna\_fox@fws.gov]; Joshua Rose[joshua\_rose@fws.gov]; Paul Leonard[paul\_leonard@fws.gov]  
**From:** Wendy Loya  
**Sent:** 2018-10-30T14:08:03-04:00  
**Importance:** Normal  
**Subject:** CONFIDENTIAL- DO NOT FORWARD OR RELEASE: Draft, predecisional document regarding seismic plan  
**Received:** 2018-10-30T14:08:12-04:00

Snow monitoring team,

Below is the proposal SAE made last week for a revised seismic plan as part of their MMPA authorization. It is likely to change further, but towards less area, not more or changes in the timing. FWS and SAE are meeting on this today to further discuss. However, important points for your current snow monitoring thermistor/snow depth installation this week or next:

This proposal had SAE coming in on the dotted line (green arrow) from the west to the lower part of the lasso-loop, which represents the snow trail for the camp/supply moves. They would start with that lower, east section, moving west to east (yellow arrows), then swing back around and do the coastal section, starting east of Kaktovik and moving west. On about April 6<sup>th</sup>, per their proposal but not accepted yet by FWS, a 2<sup>nd</sup> crew would come out and start in the blue section near Camden Bay, moving west back towards the Canning (blue arrows).

**We would want to focus our snow monitoring installations in the revised project area, which is generally away from the foothills where several of your intended sites were supposed to be.**

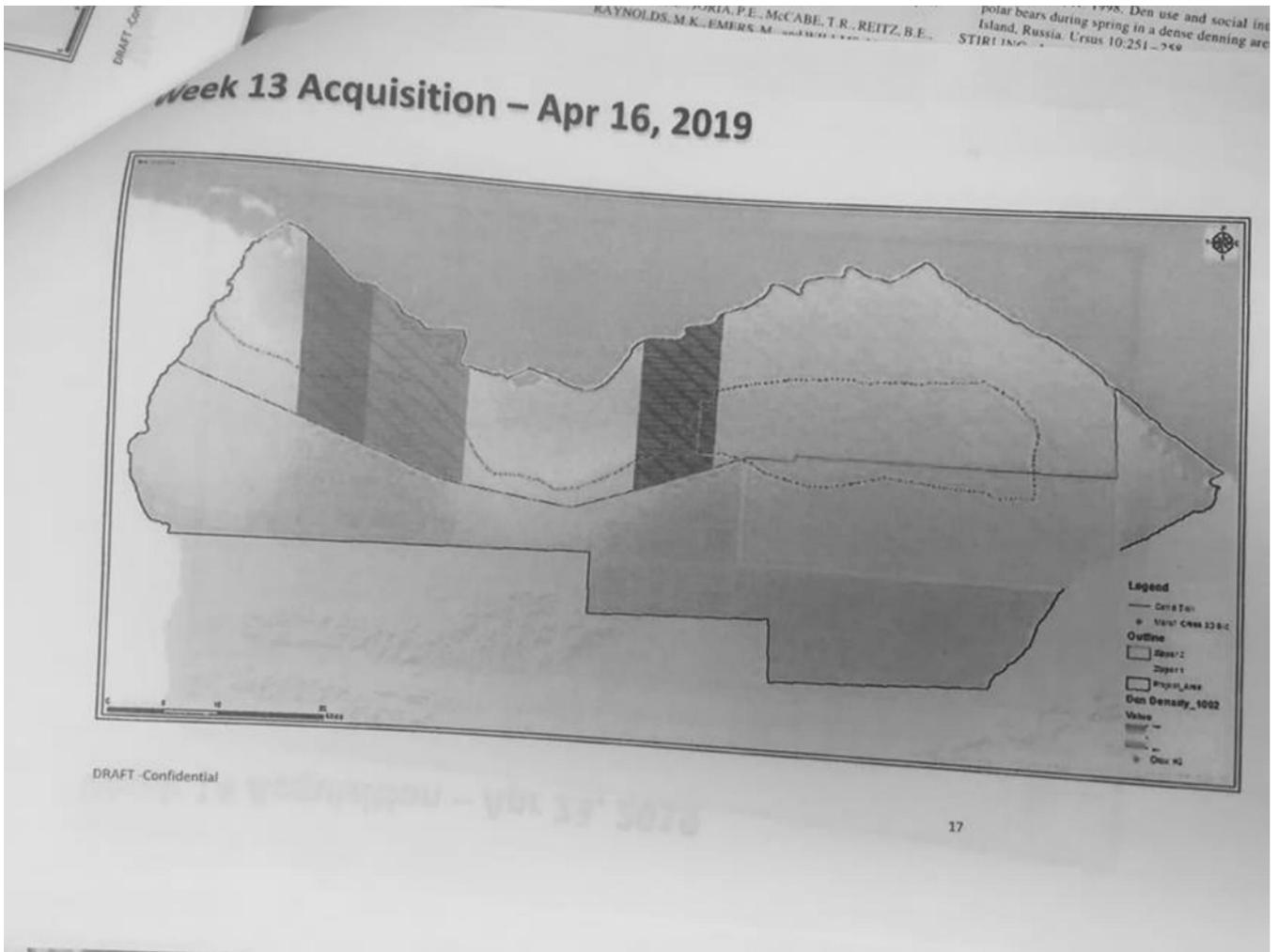
After today's meeting with SAE and there is a sense of what types of changes might still be necessary, I'll check in with Patrick and try to get the shapefiles if you think they would be helpful?

The good news is that they consider the relief in the areas south of the proposed survey area too be a concern for their current seismic operations, and I think we agree those are areas sensitive to disturbance due to vegetation, steep banks, etc..

I think I have made it clear in the subject line that this is very provisional, and should not be forwarded or shared.. thank you for your help in keeping it close! When MMM and SAE have come to agreement on a pathway forward, BLM will be briefed and then the EA can move ahead and the final plan will be made public.

Thank you,  
Wendy





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

**From:** Google Calendar  
**Location:** FWS-FW7 Mary Smith Media Center/Regional Office, Fairbanks Refuges Conference Room or telecon # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Accepted: USGS/FWS Research Updates for Arctic Refuge Coastal Plain... @ Wed Oct 31, 2018 1pm - 2pm (AKDT) (wendy\_loya@fws.gov)  
**Start Date/Time:** 2018-10-31T17:00:00-04:00  
**End Date/Time:** 2018-10-31T18:00:00-04:00  
[invite.ics](#)

Stephen Arthur has accepted this invitation.

**USGS/FWS Research Updates for Arctic Refuge Coastal Plain (1002) research-Please forward to interested colleagues**

Hi FWS, BLM and USGS colleagues,

On Wednesday 10/31, FWS and USGS will hold the first quarterly update on the projects developed collaboratively through the USGS Quick Response Program/Science Support Program (QRP/SSP) to address future management and information needs for the Arctic Refuge Coastal Plain (1002 area). We invite you to join in Anchorage at our Tudor Rd office, in Fairbanks in the FWS Refuges Conference Room or by telephone. We are not planning to have a webinar.

The projects and PI's are:

- \* Development of a population monitoring plan for the Southern Beaufort Sea polar bear subpopulation. (Atwood and Wilson)
- \* Polar bear maternal den disturbance levels associated with industrial activity in the 1002 Area of the Arctic National Wildlife Refuge (Atwood and Wilson)

- \* Quantifying groundwater and aufeis and their contribution to surface water availability and habitat in the Arctic National Wildlife Refuge, Alaska (Koch and Rose)
- \* Do juvenile Dolly Varden overwinter in the lower Canning River and pose a consideration for industrial development? (von Biela and Brown)
- \* Mapping calving and post calving habitat quality for the Porcupine Caribou Herd under dynamic climate conditions, and assessing the influence of habitat on neonate calf survival (Johnson and Arthur)
- \* Distribution and abundance of breeding waterbirds in relation to habitat type on the 1002 Area of the Arctic National Wildlife Refuge, Alaska (Amundson and Frost)

Please forward to other interested colleagues.

Anchorage: FWS FW7 Mary Smith Media Center/Regional Office

Fairbanks: Refuges Conference Room

Teleconference # (b) (5) CIP # (b) (5) CIP

Thank you, let me know if you have any questions!

0000010515

Wendy

Dr. Wendy M. Loya

Arctic Program Coordinator

US Fish and Wildlife Service, Office of Science Applications

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)



**To:** Wendy Loya[wendy\_loya@fws.gov]  
**From:** Murphy, Karen  
**Sent:** 2018-10-30T17:22:58-04:00  
**Importance:** Normal  
**Subject:** Draft Arctic Science and Decision Support  
**Received:** 2018-10-30T17:23:12-04:00  
[DRAFT Arctic Science and Decision Support.docx](#)

Here's the draft I talked with you about earlier today. If you can please take a look at it and provide edits by the end of Thursday if possible so I have it when I talk to Karen and Greg on Friday.

Thanks,  
Karen

*Karen A Murphy*  
*Science Applications*  
*907-786-3501*  
*[karen\\_a\\_murphy@fws.gov](mailto:karen_a_murphy@fws.gov)*

**From:** Google Calendar  
**Location:** FWS-FW7 Mary Smith Media Center/Regional Office, Fairbanks Refuges Conference Room or telecon # (b) (5) CIP # (b) (5) CIP  
**Importance:** Normal  
**Subject:** Accepted: USGS/FWS Research Updates for Arctic Refuge Coastal Plain @ Wed Oct 31, 2018 1pm - 2pm (AKDT) (wendy\_loya@fws.gov)  
**Start Date/Time:** 2018-10-31T17:00:00-04:00  
**End Date/Time:** 2018-10-31T18:00:00-04:00  
[invite.ics](#)

Socheata Lor has accepted this invitation.

**USGS/FWS Research Updates for Arctic Refuge Coastal Plain (1002) research-Please forward to interested colleagues**

Hi FWS, BLM and USGS colleagues,

On Wednesday 10/31, FWS and USGS will hold the first quarterly update on the projects developed collaboratively through the USGS Quick Response Program/Science Support Program (QRP/SSP) to address future management and information needs for the Arctic Refuge Coastal Plain (1002 area). We invite you to join in Anchorage at our Tudor Rd office, in Fairbanks in the FWS Refuges Conference Room or by telephone. We are not planning to have a webinar.

The projects and PI's are:

- \* Development of a population monitoring plan for the Southern Beaufort Sea polar bear subpopulation. (Atwood and Wilson)
- \* Polar bear maternal den disturbance levels associated with industrial activity in the 1002 Area of the Arctic National Wildlife Refuge (Atwood and Wilson)

- \* Quantifying groundwater and aufeis and their contribution to surface water availability and habitat in the Arctic National Wildlife Refuge, Alaska (Koch and Rose)
- \* Do juvenile Dolly Varden overwinter in the lower Canning River and pose a consideration for industrial development? (von Biela and Brown)
- \* Mapping calving and post calving habitat quality for the Porcupine Caribou Herd under dynamic climate conditions, and assessing the influence of habitat on neonate calf survival (Johnson and Arthur)
- \* Distribution and abundance of breeding waterbirds in relation to habitat type on the 1002 Area of the Arctic National Wildlife Refuge, Alaska (Amundson and Frost)

Please forward to other interested colleagues.

Anchorage: FWS FW7 Mary Smith Media Center/Regional Office

Fairbanks: Refuges Conference Room

Teleconference # (b) (5) CIP # (b) (5) CIP

Thank you, let me know if you have any questions!

0000010519

Wendy

Dr. Wendy M. Loya

Arctic Program Coordinator

US Fish and Wildlife Service, Office of Science Applications

Anchorage, Alaska

907.786.3532 (office)

907.227.2942 (mobile)



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

**To:** Wendy Loya[wendy\_loya@fws.gov]  
**From:** Murphy, Karen  
**Sent:** 2018-11-01T12:00:46-04:00  
**Importance:** Normal  
**Subject:** short version for RDT  
**Received:** 2018-11-01T12:01:02-04:00  
DRAFT Arctic Science and Decision Support for RDT.docx

Let me know what you think. You will notice in the bullets that I highlighted polar bear den detection, snow and water availability to make Greg see the connections.

*Karen A Murphy*  
*Science Applications*  
*907-786-3501*  
*[karen\\_a\\_murphy@fws.gov](mailto:karen_a_murphy@fws.gov)*

**To:** Karen Murphy[karen\_a\_murphy@fws.gov]  
**From:** Wendy Loya  
**Sent:** 2018-11-01T16:43:38-04:00  
**Importance:** Normal  
**Subject:** DRAFT Arctic Science and Decision Support for RDT (wendy).docx  
**Received:** 2018-11-01T16:43:46-04:00  
DRAFT Arctic Science and Decision Support for RDT (wendy).docx

Minor edits and combined the division sections per your comment request

**To:** Karen Murphy[karen\_a\_murphy@fws.gov]  
**From:** Wendy Loya  
**Sent:** 2018-11-01T16:47:33-04:00  
**Importance:** Normal  
**Subject:** DRAFT Arctic Science and Decision Support for RDT (wendy).docx  
**Received:** 2018-11-01T16:47:42-04:00  
DRAFT Arctic Science and Decision Support for RDT (wendy).docx

I was trying to clean something out of my keyboard, then didn't realize it had affected the document



**To:** Diane Granfors[diane\_granfors@fws.gov]; Paul Leonard[paul\_leonard@fws.gov]; Stephen Arthur[stephen\_arthur@fws.gov]  
**From:** Wendy Loya  
**Sent:** 2018-11-05T16:20:53-05:00  
**Importance:** Normal  
**Subject:** Webinar link for today's 1002 meeting  
**Received:** 2018-11-05T16:21:18-05:00  
[Rapid-Response Resource Assessments and FWS Literature 0218.pdf](#)

In addition to calling in, we'll connect to a webinar for sharing info from Diane and for the Resource Assessments.

<http://www.mymeetings.com/nc/join.php?sigKey=mymeetings&i=748014501&p=ARCTIC&t=c>  
*Instant Meeting Audio # (b) (5) CIP # (b) (5) CIP*

I'm attaching the collated Resource Assessments for your reference, so you can remember what the teams did last year.

Diane and John, I reserved Refuges Conference Room so you can meet there if you wish, I am working from home (b) (6) and will call in.

Thanks!  
Wendy  
Dr. Wendy M. Loya  
Arctic Program Coordinator  
US Fish and Wildlife Service, Office of Science Applications  
Anchorage, Alaska  
907.786.3532 (office)  
907.227.2942 (mobile)

**To:** Wendy Loya[wendy\_loya@fws.gov]; Paul Leonard[paul\_leonard@fws.gov]; John Trawicki[john\_trawicki@fws.gov]; Stephen Arthur[stephen\_arthur@fws.gov]  
**From:** Granfors, Diane  
**Sent:** 2018-11-05T19:48:30-05:00  
**Importance:** Normal  
**Subject:** presentation and OS materials  
**Received:** 2018-11-05T19:49:07-05:00  
FOS-CMP-Online-Training-Guide-Steps-1-and-2-updated-18august2011 (2) (2).pdf  
Refuge Science Planning.pptx

At the risk of overwhelming you, I'm attaching the go-to workbook for applying Open Standards. The threats assessment part begins on page 44, and the table for threat rankings is on page 48.  
Steve - you may also want to give some thought to KEAs - i.e., measures of ecological health for the priority ROCs or Conservation Targets.

--

Diane Granfors  
Refuge Inventory and Monitoring Coordinator  
1011 East Tudor Rd., MS 211  
Anchorage, AK 99503  
907-786-3429  
[diane\\_granfors@fws.gov](mailto:diane_granfors@fws.gov)

*Collaborative ecosystem science to inform National Wildlife  
Refuge System conservation decisions in Alaska.*

PRIMR <https://ecos.fws.gov/primr/>  
ServCat <https://ecos.fws.gov/ServCat/>  
Communicating I&M