

# Conversation Contents

**Fwd: Action items from W&S biweekly with Dep Sec**

**Attachments:**

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/16. Fwd: Action items from W&S biweekly with Dep Sec/12.1 USGS 1002 ongoing work v2.1\_dwh.xlsx  
/16. Fwd: Action items from W&S biweekly with Dep Sec/14.1 USGS 1002 ongoing work v3.xlsx  
/16. Fwd: Action items from W&S biweekly with Dep Sec/16.1 USGS 1002 ongoing work v3.xlsx  
/16. Fwd: Action items from W&S biweekly with Dep Sec/18.1 USGS 1002 ongoing work to W&S.xlsx

**David Applegate <applegate@usgs.gov>**

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**From:** David Applegate <applegate@usgs.gov>  
**Sent:** Sun Feb 11 2018 17:53:21 GMT-0700 (MST)  
**To:** wguidroz@usgs.gov, dbdiamond@usgs.gov, Geoff Plumlee <gplumlee@usgs.gov>, Dave Houseknecht <dhouse@usgs.gov>  
**CC:** Judy Nowakowski <jnowakowski@usgs.gov>, Joanne Taylor <jctaylor@usgs.gov>, Bill Lukas <wlukas@usgs.gov>, Aimee Devaris <adevaris@usgs.gov>  
**Subject:** Fwd: Action items from W&S biweekly with Dep Sec

Geoff, Walter and Daves,

Heads up on a new briefing request on energy assessments from our Deputy Assistant Secretary. It's for the week after next.

Thanks, Dave

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David Applegate, Ph.D.  
Associate Director for Natural Hazards  
Exercising Authority of the Deputy Director  
U.S. Geological Survey  
[12201 Sunrise Valley Drive MS 111](https://www.usgs.gov/locations/national-office)  
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[703 648 6600](https://www.usgs.gov/locations/national-office)  
[applegate@usgs.gov](mailto:applegate@usgs.gov)

Begin forwarded message:

**From:** "Travnicek, Andrea" <[andrea\\_travnicek@ios.doi.gov](mailto:andrea_travnicek@ios.doi.gov)>  
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U.S. Department of the Interior  
work: 202-208-0969  
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## Walter Guidroz <[wguidroz@usgs.gov](mailto:wguidroz@usgs.gov)>

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**"Houseknecht, David" <dhouse@usgs.gov>**

**From:** "Houseknecht, David" <dhouse@usgs.gov>  
**Sent:** Mon Feb 12 2018 07:00:00 GMT-0700 (MST)  
**To:** Walter Guidroz <wguidroz@usgs.gov>  
David Applegate <applegate@usgs.gov>, David Diamond <dbdiamond@usgs.gov>, Geoffrey Plumlee <gplumlee@usgs.gov>, Judy Nowakowski <jnowakowski@usgs.gov>, Joanne Taylor <jctaylor@usgs.gov>, William Lukas <wlukas@usgs.gov>, Aimee Devaris <adevaris@usgs.gov>  
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Dave Houseknecht  
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12201 Sunrise Valley Drive  
MS 956  
Reston, VA 20192  
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FYI, I'll be in Greenland the week of Feb 26 (assuming I get State Dept clearance, which I'm still waiting on)

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[applegate@usgs.gov](mailto:applegate@usgs.gov)

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**"Applegate, David" <applegate@usgs.gov>**

**From:** "Applegate, David" <applegate@usgs.gov>  
**Sent:** Mon Feb 12 2018 08:49:40 GMT-0700 (MST)  
**To:** Walter Guidroz <wguidroz@usgs.gov>  
David Houseknecht <dhouse@usgs.gov>, David Diamond <dbdiamond@usgs.gov>, Geoffrey Plumlee <gplumlee@usgs.gov>, Judy Nowakowski

**CC:** <jnowakowski@usgs.gov>, Joanne Taylor <jctaylor@usgs.gov>, William Lukas <wlukas@usgs.gov>, Aimee Devaris <adevaris@usgs.gov>

**Subject:** Re: Action items from W&S biweekly with Dep Sec

Thanks, all!

-----  
David Applegate, Ph.D.  
Associate Director for Natural Hazards  
Exercising Authority of the Deputy Director  
U.S. Geological Survey  
12201 Sunrise Valley Drive MS 111, Reston VA 20192  
703 648 6600 voice, 703 648 7031 fax  
[applegate@usgs.gov](mailto:applegate@usgs.gov)

On Mon, Feb 12, 2018 at 9:02 AM, Walter Guidroz <[wguidroz@usgs.gov](mailto:wguidroz@usgs.gov)> wrote:

FYI, I'll be in Greenland the week of Feb 26 (assuming I get State Dept clearance, which I'm still waiting on)

**From:** Houseknecht, David [mailto:[dhouse@usgs.gov](mailto:dhouse@usgs.gov)]  
**Sent:** Monday, February 12, 2018 9:00 AM  
**To:** Walter Guidroz <[wguidroz@usgs.gov](mailto:wguidroz@usgs.gov)>  
**Cc:** David Applegate <[applegate@usgs.gov](mailto:applegate@usgs.gov)>; David Diamond <[dbdiamond@usgs.gov](mailto:dbdiamond@usgs.gov)>; Geoffrey Plumlee <[gplumlee@usgs.gov](mailto:gplumlee@usgs.gov)>; Judy Nowakowski <[jnowakowski@usgs.gov](mailto:jnowakowski@usgs.gov)>; Joanne Taylor <[jctaylor@usgs.gov](mailto:jctaylor@usgs.gov)>; William Lukas <[wlukas@usgs.gov](mailto:wlukas@usgs.gov)>; Aimee Devaris <[adevaris@usgs.gov](mailto:adevaris@usgs.gov)>

**Subject:** Re: Action items from W&S biweekly with Dep Sec

Just FYI, I am in Houston and Dallas Feb. 19-22, returning home the evening of Feb. 22.

Andrea is aware of this as she is setting up a follow-up meeting with SOI regarding (b) (5) [REDACTED]. As of last Thursday, she was planning to set that meeting for Feb 26 or 27, and thinking of a briefing to bring Tim and others up to date on North Slope assessment status the same day.

Dave Houseknecht  
U.S. Geological Survey  
[12201 Sunrise Valley Drive](https://www.usgs.gov/locations/national-office/12201-sunrise-valley-drive)  
MS 956  
Reston, VA 20192  
(703) 648-6466

On Mon, Feb 12, 2018 at 8:42 AM, Walter Guidroz <[wguidroz@usgs.gov](mailto:wguidroz@usgs.gov)> wrote:

Dave, thanks for the heads-up on this. We'll be ready and standing by to hear of a briefing date.

Re: (b) (5) [REDACTED] I'll forward some verbiage to you separately that addresses that issue.

Walter

---

**From:** David Applegate [mailto:[applegate@usgs.gov](mailto:applegate@usgs.gov)]  
**Sent:** Sunday, February 11, 2018 7:53 PM  
**To:** [wguidroz@usgs.gov](mailto:wguidroz@usgs.gov); [dbdiamond@usgs.gov](mailto:dbdiamond@usgs.gov); Geoff Plumlee <[gplumlee@usgs.gov](mailto:gplumlee@usgs.gov)>; Dave Houseknecht <[dhouse@usgs.gov](mailto:dhouse@usgs.gov)>  
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**Subject:** Fwd: Action items from W&S biweekly with Dep Sec

Geoff, Walter and Daves,

Heads up on a new briefing request on energy assessments from our Deputy Assistant Secretary. It's for the week after next.

Thanks, Dave

-----  
David Applegate, Ph.D.  
Associate Director for Natural Hazards  
Exercising Authority of the Deputy Director  
U.S. Geological Survey  
[12201 Sunrise Valley Drive](https://www.usgs.gov/locations/natural-hazards) MS 111  
Reston VA 20192  
[703 648 6600](tel:7036486600)  
[applegate@usgs.gov](mailto:applegate@usgs.gov)

Begin forwarded message:

**From:** "Travnicek, Andrea" <[andrea\\_travnicek@ios.doi.gov](mailto:andrea_travnicek@ios.doi.gov)>  
**Date:** February 11, 2018 at 12:21:29 PM EST  
**To:** "Applegate, David" <[applegate@usgs.gov](mailto:applegate@usgs.gov)>  
**Cc:** Timothy Petty <[timothy\\_petty@ios.doi.gov](mailto:timothy_petty@ios.doi.gov)>, Austin Ewell <[austin\\_ewell@ios.doi.gov](mailto:austin_ewell@ios.doi.gov)>, "Nichols, Ryan" <[ryan\\_nichols@ios.doi.gov](mailto:ryan_nichols@ios.doi.gov)>, "Lukas, William" <[wlukas@usgs.gov](mailto:wlukas@usgs.gov)>, "Rae, Kerry" <[kerry\\_rae@ios.doi.gov](mailto:kerry_rae@ios.doi.gov)>, Judy Nowakowski <[jnowakowski@usgs.gov](mailto:jnowakowski@usgs.gov)>, Joanne Taylor <[jctaylor@usgs.gov](mailto:jctaylor@usgs.gov)>, William Werkheiser <[whwerkhe@usgs.gov](mailto:whwerkhe@usgs.gov)>, Michelle Brown <[michelle\\_brown@ios.doi.gov](mailto:michelle_brown@ios.doi.gov)>  
**Subject:** Re: Action items from W&S biweekly with Dep Sec

Dave-

In regards to the Alaska follow up let's get a meeting set up for later in the week of Feb. 22 or 23 to meet with your Energy team that is working on the assessment. Also I think it would be good to meet in regards to all energy assessments to get an update on status of the projects.

I have cc'ed Michelle to find some time for us and your team to meet.

Thanks.  
Andrea

Andrea Travnicek, Ph.D.  
Deputy Assistant Secretary for Water and Science  
Office of the Secretary  
U.S. Department of the Interior  
work: 202-208-0969  
cell: 202-897-7220

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Tim and all,

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natural hazards and aren't due for a couple more weeks. (By the way, I just saw this nice [summary](#) that the American Institute of Physics did of the hearing, emphasizing the level of support conveyed for the USGS role in the hazards arena.)

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Regarding Alaska activities, I wasn't sure what follow-up was needed on Bernhardt's question about (b) (5)

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We can discuss some of these action items at Monday's 1pm tag-up call.

Regards, Dave

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---

**"Devaris, Aimee" <[adevaris@usgs.gov](mailto:adevaris@usgs.gov)>**

**From:** "Devaris, Aimee" <[adevaris@usgs.gov](mailto:adevaris@usgs.gov)>  
**Sent:** Tue Feb 13 2018 12:52:54 GMT-0700 (MST)  
**To:** David Applegate <[applegate@usgs.gov](mailto:applegate@usgs.gov)>  
Anne Kinsinger <[akinsinger@usgs.gov](mailto:akinsinger@usgs.gov)>, Joanne Taylor <[jctaylor@usgs.gov](mailto:jctaylor@usgs.gov)>, Judy Nowakowski <[jnowakowski@usgs.gov](mailto:jnowakowski@usgs.gov)>, Walter Guidroz <[wguidroz@usgs.gov](mailto:wguidroz@usgs.gov)>, "Houseknecht, David"

**CC:** <dhouse@usgs.gov>, Geoffrey Plumlee <gplumlee@usgs.gov>, John Pearce <jpearce@usgs.gov>, Christian Zimmerman <czimmerman@usgs.gov>, "Beard, Douglas" <dbeard@usgs.gov>

**Subject:** Re: Action items from W&S biweekly with Dep Sec  
**Attachments:** USGS 1002 ongoing work v2.1.xlsx

Dave,

Attached is the project spreadsheet John Pearce pulled together. There wasn't much time for coordination since we were unfortunately closed yesterday due to the storm. So we don't yet have the budget numbers for Dave Houseknecht's work. I've copied him and Walter on this message so they can input/change that part. We just put in placeholders.

We also haven't heard back yet from Frank Urban, so that budget is an estimate. I know in the past we've spent \$40K on a recurring borehole inspection requirement (every 5 years), but the annual field budget for this activity is probably less than that (I'm guessing), so I put in \$20K. I'm copying Doug Beard, but this is coming out of left field at him, so he may or may not know about it.

Let me know if you have any questions.

Regards,  
Aimee

On Sun, Feb 11, 2018 at 2:52 PM, David Applegate <[applegate@usgs.gov](mailto:applegate@usgs.gov)> wrote:  
Aimee,

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Thanks, Dave

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**From:** "Travnicek, Andrea" <[andrea\\_travnicek@ios.doi.gov](mailto:andrea_travnicek@ios.doi.gov)>  
**Date:** February 11, 2018 at 1:04:16 PM EST  
**To:** "Applegate, David" <[applegate@usgs.gov](mailto:applegate@usgs.gov)>  
**Cc:** Timothy Petty <[timothy\\_petty@ios.doi.gov](mailto:timothy_petty@ios.doi.gov)>, Austin Ewell <[austin\\_ewell@ios.doi.gov](mailto:austin_ewell@ios.doi.gov)>, "Nichols, Ryan" <[ryan\\_nichols@ios.doi.gov](mailto:ryan_nichols@ios.doi.gov)>, "Lukas, William" <[wlukas@usgs.gov](mailto:wlukas@usgs.gov)>, "Rae, Kerry" <[kerry\\_rae@ios.doi.gov](mailto:kerry_rae@ios.doi.gov)>, Judy Nowakowski <[jnowakowski@usgs.gov](mailto:jnowakowski@usgs.gov)>, Joanne Taylor <[jctaylor@usgs.gov](mailto:jctaylor@usgs.gov)>, William Werkheiser <[whwerkhe@usgs.gov](mailto:whwerkhe@usgs.gov)>  
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Dave-

Another follow up in regards to the information below. By COB Tuesday this week (2/13) can we get a spreadsheet with all studies (partners, timelines, funding, etc) currently being conducted and or in process in the 1002 area? Send to Tim and I so we both have since I am on travel this week.

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Some additional follow-up from the meeting with the Deputy Secretary specifically on Alaska matters.

Our Alaska Regional Director, Aimee Devaris, has confirmed that we have shared the earlier 2002 literature review with BLM and FWS contacts in Alaska. Here is the link to share with the Deputy Secretary (we'd be happy to provide in hard copy as well):

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Along these lines, Aimee just heard that FWS is putting some previously unpublished reports from the refuge on the web, so that would be material we did not include in our literature review, but Aimee has asked to get a listing of them.

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I also relayed the Dep Sec's question about (b) (5)

(b) (5)

(All this is probably just hip-pocket material for you should the question be raised again.)

Hope all that helps! Aimee is happy to brief any time.

Regards, Dave

-----  
David Applegate, Ph.D.  
Associate Director for Natural Hazards

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[REDACTED]

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--  
**Aimee M. Devaris**  
Regional Director  
U.S. Geological Survey  
4210 University Drive  
Anchorage, Alaska  
907-786-7055

## **Walter Guidroz <[wguidroz@usgs.gov](mailto:wguidroz@usgs.gov)>**

---

**From:** Walter Guidroz <[wguidroz@usgs.gov](mailto:wguidroz@usgs.gov)>  
**Sent:** Tue Feb 13 2018 12:59:33 GMT-0700 (MST)  
**To:** "Houseknecht, David" <[dhouse@usgs.gov](mailto:dhouse@usgs.gov)>  
**Subject:** RE: Action items from W&S biweekly with Dep Sec

Dave, will you reply to Aimee or do you want me to? Presumably we could use the cost estimate you built within the past few days as the basis for a response – that would keep things consistent with what we're telling other folks.

Walter

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**Sent:** Tuesday, February 13, 2018 2:53 PM  
**To:** David Applegate <[applegate@usgs.gov](mailto:applegate@usgs.gov)>  
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--

**Aimee M. Devaris**  
Regional Director  
U.S. Geological Survey  
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907-786-7055

**"Houseknecht, David" <dhouse@usgs.gov>**

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**Sent:** Tue Feb 13 2018 13:03:42 GMT-0700 (MST)  
**To:** Walter Guidroz <wguidroz@usgs.gov>  
**Subject:** Re: Action items from W&S biweekly with Dep Sec

Or, we can just roll the dice and see what turns up.

Yes, I'll add something and send with cc to you. Not for a bit though - have a conference call coming up.

Dave Houseknecht  
U.S. Geological Survey  
12201 Sunrise Valley Drive  
MS 956

Reston, VA 20192  
(703) 648-6466

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**Sent:** Tuesday, February 13, 2018 2:53 PM

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**Cc:** Anne Kinsinger <[akinsinger@usgs.gov](mailto:akinsinger@usgs.gov)>; Joanne Taylor <[jctaylor@usgs.gov](mailto:jctaylor@usgs.gov)>; Judy Nowakowski <[jnowakowski@usgs.gov](mailto:jnowakowski@usgs.gov)>; Walter Guidroz <[wguidroz@usgs.gov](mailto:wguidroz@usgs.gov)>; Houseknecht, David <[dhouse@usgs.gov](mailto:dhouse@usgs.gov)>; Geoffrey Plumlee <[gplumlee@usgs.gov](mailto:gplumlee@usgs.gov)>; John Pearce <[jpearce@usgs.gov](mailto:jpearce@usgs.gov)>; Christian Zimmerman <[czimmerman@usgs.gov](mailto:czimmerman@usgs.gov)>; Beard, Douglas <[dbeard@usgs.gov](mailto:dbeard@usgs.gov)>

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## **Walter Guidroz <[wguidroz@usgs.gov](mailto:wguidroz@usgs.gov)>**

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**Sent:** Tue Feb 13 2018 13:04:56 GMT-0700 (MST)  
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**Subject:** RE: Action items from W&S biweekly with Dep Sec

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**Aimee M. Devaris**  
Regional Director  
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[4210 University Drive](#)  
[Anchorage, Alaska](#)  
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**Walter Guidroz <[wguidroz@usgs.gov](mailto:wguidroz@usgs.gov)>**

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**Sent:** Tue Feb 13 2018 13:37:05 GMT-0700 (MST)  
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**Date:** February 11, 2018 at 1:04:16 PM EST  
**To:** "Applegate, David" <[applegate@usgs.gov](mailto:applegate@usgs.gov)>  
**Cc:** Timothy Petty <[timothy\\_petty@ios.doi.gov](mailto:timothy_petty@ios.doi.gov)>, Austin Ewell <[austin\\_ewell@ios.doi.gov](mailto:austin_ewell@ios.doi.gov)>, "Nichols, Ryan" <[ryan\\_nichols@ios.doi.gov](mailto:ryan_nichols@ios.doi.gov)>, "Lukas, William" <[wlukas@usgs.gov](mailto:wlukas@usgs.gov)>, "Rae, Kerry" <[kerry\\_rae@ios.doi.gov](mailto:kerry_rae@ios.doi.gov)>, Judy

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**Date:** February 11, 2018 at 1:04:16 PM EST  
**To:** "Applegate, David" <[applegate@usgs.gov](mailto:applegate@usgs.gov)>  
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Dave, will you reply to Aimee or do you want me to? Presumably we could use the cost estimate you built within the past few days as the basis for a response – that would keep things consistent with what we're telling other folks.

Walter

**From:** Devaris, Aimee [mailto:[adevaris@usgs.gov](mailto:adevaris@usgs.gov)]

**Sent:** Tuesday, February 13, 2018 2:53 PM

**To:** David Applegate <[applegate@usgs.gov](mailto:applegate@usgs.gov)>

**Cc:** Anne Kinsinger <[akinsinger@usgs.gov](mailto:akinsinger@usgs.gov)>; Joanne Taylor <[jctaylor@usgs.gov](mailto:jctaylor@usgs.gov)>; Judy Nowakowski <[jnowakowski@usgs.gov](mailto:jnowakowski@usgs.gov)>; Walter Guidroz <[wguidroz@usgs.gov](mailto:wguidroz@usgs.gov)>; Houseknecht, David <[dhouse@usgs.gov](mailto:dhouse@usgs.gov)>; Geoffrey Plumlee <[gplumlee@usgs.gov](mailto:gplumlee@usgs.gov)>; John Pearce <[jpearce@usgs.gov](mailto:jpearce@usgs.gov)>; Christian Zimmerman <[czimmerman@usgs.gov](mailto:czimmerman@usgs.gov)>; Beard, Douglas <[dbeard@usgs.gov](mailto:dbeard@usgs.gov)>

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Reston VA 20192  
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**Aimee M. Devaris**  
Regional Director  
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**Sent:** Tue Feb 13 2018 14:43:23 GMT-0700 (MST)  
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**CC:**  
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**Attachments:** USGS 1002 ongoing work v3.xlsx

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**Aimee M. Devaris**  
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**"Pearce, John" <jpearce@usgs.gov>**

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**Sent:** Tue Feb 13 2018 14:50:43 GMT-0700 (MST)  
**To:** Walter Guidroz <wguidroz@usgs.gov>  
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Great. Thanks Walter.

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703 648 6600 voice, 703 648 7031 fax  
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--

**Aimee M. Devaris**  
Regional Director  
U.S. Geological Survey  
4210 University Drive  
Anchorage, Alaska  
907-786-7055

---

**"Applegate, David" <applegate@usgs.gov>**

**From:** "Applegate, David" <applegate@usgs.gov>  
**Sent:** Tue Feb 13 2018 14:52:49 GMT-0700 (MST)  
**To:** "Pearce, John" <jpearce@usgs.gov>  
Walter Guidroz <wguidroz@usgs.gov>, Aimee Devaris <adevaris@usgs.gov>, Anne Kinsinger <akinsinger@usgs.gov>, Joanne Taylor <jctaylor@usgs.gov>, Judy Nowakowski <jnowakowski@usgs.gov>, David Houseknecht <dhouse@usgs.gov>, Geoffrey Plumlee <gplumlee@usgs.gov>, Christian Zimmerman <czimmerman@usgs.gov>, Douglas Beard <dbeard@usgs.gov>  
**CC:**  
**Subject:** Re: Action items from W&S biweekly with Dep Sec  
**Attachments:** USGS 1002 ongoing work v3.xlsx

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**Sent:** Tuesday, February 13, 2018 2:53 PM  
**To:** David Applegate <[applegate@usgs.gov](mailto:applegate@usgs.gov)>  
**Cc:** Anne Kinsinger <[akinsinger@usgs.gov](mailto:akinsinger@usgs.gov)>; Joanne Taylor <[jctaylor@usgs.gov](mailto:jctaylor@usgs.gov)>; Judy Nowakowski <[jnowakowski@usgs.gov](mailto:jnowakowski@usgs.gov)>; Walter Guidroz <[wguidroz@usgs.gov](mailto:wguidroz@usgs.gov)>; Houseknecht, David <[dhouse@usgs.gov](mailto:dhouse@usgs.gov)>; Geoffrey Plumlee <[gplumlee@usgs.gov](mailto:gplumlee@usgs.gov)>; John Pearce <[jpearce@usgs.gov](mailto:jpearce@usgs.gov)>; Christian Zimmerman <[czimmerman@usgs.gov](mailto:czimmerman@usgs.gov)>; Beard, Douglas <[dbeard@usgs.gov](mailto:dbeard@usgs.gov)>  
**Subject:** Re: Action items from W&S biweekly with Dep Sec

Dave,

Attached is the project spreadsheet John Pearce pulled together. There wasn't much time for coordination since we were unfortunately closed yesterday due to the storm. So we don't yet have the budget numbers for Dave Houseknecht's work. I've copied him and Walter on this message so they can input/change that part. We just put in placeholders.

We also haven't heard back yet from Frank Urban, so that budget is an estimate. I know in the past we've spent \$40K on a recurring borehole inspection requirement (every 5 years), but the annual field budget for this activity is probably less than that (I'm guessing), so I put in \$20K. I'm copying Doug Beard, but this is coming out of left field at him, so he may or may not know about it.

Let me know if you have any questions.

Regards,

Aimee

On Sun, Feb 11, 2018 at 2:52 PM, David Applegate <[applegate@usgs.gov](mailto:applegate@usgs.gov)> wrote:

Aimee,

Is this doable in the timeframe that Andrea has set? I think the focus is on the ecological studies as she had another about energy ones, which I will also forward.

Thanks, Dave

-----  
David Applegate, Ph.D.  
Associate Director for Natural Hazards  
Exercising Authority of the Deputy Director  
[U.S. Geological Survey](http://www.usgs.gov)  
[12201 Sunrise Valley Drive](http://www.usgs.gov) MS 111  
Reston VA 20192  
[703 648 6600](tel:7036486600)  
[applegate@usgs.gov](mailto:applegate@usgs.gov)

Begin forwarded message:

**From:** "Travnicek, Andrea" <[andrea\\_travnicek@ios.doi.gov](mailto:andrea_travnicek@ios.doi.gov)>  
**Date:** February 11, 2018 at 1:04:16 PM EST  
**To:** "Applegate, David" <[applegate@usgs.gov](mailto:applegate@usgs.gov)>  
**Cc:** Timothy Petty <[timothy\\_petty@ios.doi.gov](mailto:timothy_petty@ios.doi.gov)>, Austin Ewell <[austin\\_ewell@ios.doi.gov](mailto:austin_ewell@ios.doi.gov)>, "Nichols, Ryan" <[ryan\\_nichols@ios.doi.gov](mailto:ryan_nichols@ios.doi.gov)>, "Lukas, William" <[wlukas@usgs.gov](mailto:wlukas@usgs.gov)>, "Rae, Kerry" <[kerry\\_rae@ios.doi.gov](mailto:kerry_rae@ios.doi.gov)>, Judy Nowakowski <[jnowakowski@usgs.gov](mailto:jnowakowski@usgs.gov)>, Joanne Taylor <[jctaylor@usgs.gov](mailto:jctaylor@usgs.gov)>, William Werkheiser <[whwerkhe@usgs.gov](mailto:whwerkhe@usgs.gov)>  
**Subject:** Re: Action items from W&S biweekly with Dep Sec

Dave-

Another follow up in regards to the information below. By COB Tuesday this week (2/13) can we get a spreadsheet with all studies (partners, timelines, funding, etc) currently being conducted and or in process in the 1002 area? Send to Tim and I so we both have since I am on travel this week.

Thanks.  
Andrea

Andrea Travnicek, Ph.D.  
Deputy Assistant Secretary for Water and Science  
Office of the Secretary  
U.S. Department of the Interior  
work: 202-208-0969  
cell: 202-897-7220

On Fri, Feb 9, 2018 at 9:54 PM, Applegate, David <[applegate@usgs.gov](mailto:applegate@usgs.gov)> wrote:

Tim and all,

Some additional follow-up from the meeting with the Deputy Secretary specifically on Alaska matters.

Our Alaska Regional Director, Aimee Devaris, has confirmed that we have shared the earlier 2002 literature review with BLM and FWS contacts in Alaska. Here is the link to share with the Deputy Secretary (we'd be happy to provide in hard copy as well):

Douglas, D.C., Reynolds, P.E., and Rhode, E.B., 2002, Arctic Refuge coastal plain terrestrial wildlife research summaries, USGS Biological Science Report 2002-0001, 76 p.

<https://alaska.usgs.gov/products/pubs/2002/2002-USGS-BRD-BSR-2002-0001.pdf>

Along these lines, Aimee just heard that FWS is putting some previously unpublished reports from the refuge on the web, so that would be material we did not include in our literature review, but Aimee has asked to get a listing of them.

Deputy Secretary Bernhardt also asked about USGS liaisons to large projects, and in particular whether that might prove useful for the ANWR permitting process. Aimee reports that we already have John Pearce from our USGS Alaska Science Center in that role. Early on, Aimee and her FWS and BLM regional director counterparts saw the need to assign a liaison/POC for each of our Bureaus to ensure good coordination and communication at the "working level." John's counterpart for BLM is Nicole Hayes (their ANWR project manager), and for FWS it is Wendy Loya (who oversees the Arctic LCC). For energy assessments, Dave Houseknecht is the USGS lead, and as you know, he is a well-connected resource for all involved.

I also relayed the Dep Sec's question about (b) (5)

(b) (5)  
(b) (5)  
(All this is probably just hip-pocket material for you should the question be raised again.)

Hope all that helps! Aimee is happy to brief any time.

Regards, Dave

-----  
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On Thu, Feb 8, 2018 at 11:43 PM, Applegate, David <[applegate@usgs.gov](mailto:applegate@usgs.gov)> wrote:

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prepared for that. We have lots more material to share.

Regarding Alaska activities, I wasn't sure what follow-up was needed on Bernhardt's question about (b) (5)

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**Aimee M. Devaris**  
Regional Director  
U.S. Geological Survey  
4210 University Drive  
Anchorage, Alaska  
[907-786-7055](tel:907-786-7055)

**"Lukas, William"** <[wlukas@usgs.gov](mailto:wlukas@usgs.gov)>

**From:** "Lukas, William" <[wlukas@usgs.gov](mailto:wlukas@usgs.gov)>  
**Sent:** Thu Feb 15 2018 11:14:58 GMT-0700 (MST)  
**To:** David Applegate <[applegate@usgs.gov](mailto:applegate@usgs.gov)>

**CC:** Walter Guidroz <[wguidroz@usgs.gov](mailto:wguidroz@usgs.gov)>, David Diamond <[dbdiamond@usgs.gov](mailto:dbdiamond@usgs.gov)>, Geoff Plumlee <[gplumlee@usgs.gov](mailto:gplumlee@usgs.gov)>, Dave Houseknecht <[dhouse@usgs.gov](mailto:dhouse@usgs.gov)>, Judy Nowakowski <[jnowakowski@usgs.gov](mailto:jnowakowski@usgs.gov)>, Joanne Taylor <[jctaylor@usgs.gov](mailto:jctaylor@usgs.gov)>, Aimee Devaris <[adevaris@usgs.gov](mailto:adevaris@usgs.gov)>

**Subject:** Re: Action items from W&S biweekly with Dep Sec

Michelle Brown should be reaching out to Hirut to schedule a meeting for Feb 22.

\* \* \* \* \*

Bill Lukas | 202-208-4457  
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[asws\\_liaison@usgs.gov](mailto:asws_liaison@usgs.gov)

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**"Houseknecht, David" <dhouse@usgs.gov>**

---

**From:** "Houseknecht, David" <dhouse@usgs.gov>  
**Sent:** Thu Feb 15 2018 11:18:07 GMT-0700 (MST)  
**To:** "Lukas, William" <wlukas@usgs.gov>  
**CC:** David Applegate <applegate@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, David Diamond <dbdiamond@usgs.gov>, Geoff Plumlee <gplumlee@usgs.gov>, Judy Nowakowski <jnowakowski@usgs.gov>, Joanne Taylor <jctaylor@usgs.gov>, Aimee Devaris <adevaris@usgs.gov>  
**Subject:** Re: Action items from W&S biweekly with Dep Sec

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Dave Houseknecht  
U.S. Geological Survey  
12201 Sunrise Valley Drive  
MS 956  
Reston, VA 20192  
(703) 648-6466

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**From:** "Lukas, William" <[wlukas@usgs.gov](mailto:wlukas@usgs.gov)>  
**Sent:** Thu Feb 15 2018 11:27:28 GMT-0700 (MST)  
**To:** "Houseknecht, David" <[dhouse@usgs.gov](mailto:dhouse@usgs.gov)>  
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**Subject:** Re: Action items from W&S biweekly with Dep Sec

Ok thanks. I believe Walter is out on 2/23, so I'll see if we can either try 2/21 (let me know if that's possible) or slide to the following week.

\* \* \* \* \*

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**Sent:** Thu Feb 15 2018 11:33:50 GMT-0700 (MST)  
**To:** "Lukas, William" <wlukas@usgs.gov>  
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Another thought - Andrea was going to schedule a follow-up meeting with SOI for early the following week (she mentioned either Feb. 26 or 27). Perhaps they would be willing to schedule both the briefing and the SOI meeting then???

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**Sent:** Thu Feb 15 2018 11:34:12 GMT-0700 (MST)  
**To:** "Houseknecht, David" <dhouse@usgs.gov>  
**CC:** David Applegate <applegate@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, David Diamond <dbdiamond@usgs.gov>, Geoff Plumlee <gplumlee@usgs.gov>  
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**Sent:** Thu Feb 15 2018 11:44:24 GMT-0700 (MST)  
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I can do the 22<sup>nd</sup> but not the 23<sup>rd</sup> as Bill previously indicated. I'm out of the country the following week (Feb 26-Mar 2). I think I'd rather keep the assessment and SOI briefings separate, so therefore I could cover things on the 22<sup>nd</sup> in Dave's absence and then any follow-up, if needed, could be addressed the following week. Just my two cents...

Walter

**From:** Lukas, William [mailto:[wlukas@usgs.gov](mailto:wlukas@usgs.gov)]  
**Sent:** Thursday, February 15, 2018 1:34 PM  
**To:** Houseknecht, David <[dhouse@usgs.gov](mailto:dhouse@usgs.gov)>  
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work: 202-208-0969  
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**Cc:** Timothy Petty <[timothy\\_petty@ios.doi.gov](mailto:timothy_petty@ios.doi.gov)>, Austin Ewell <[austin\\_ewell@ios.doi.gov](mailto:austin_ewell@ios.doi.gov)>, "Nichols, Ryan" <[ryan\\_nichols@ios.doi.gov](mailto:ryan_nichols@ios.doi.gov)>, "Lukas, William" <[wlukas@usgs.gov](mailto:wlukas@usgs.gov)>, "Rae, Kerry" <[kerry\\_rae@ios.doi.gov](mailto:kerry_rae@ios.doi.gov)>, Judy Nowakowski <[jnowakowski@usgs.gov](mailto:jnowakowski@usgs.gov)>, Joanne Taylor <[jctaylor@usgs.gov](mailto:jctaylor@usgs.gov)>, William Werkheiser <[whwerkhe@usgs.gov](mailto:whwerkhe@usgs.gov)>, Michelle Brown <[michelle\\_brown@ios.doi.gov](mailto:michelle_brown@ios.doi.gov)>  
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**Sent:** Thu Feb 15 2018 11:55:55 GMT-0700 (MST)  
**To:** Walter Guidroz <wguidroz@usgs.gov>  
David Houseknecht <dhouse@usgs.gov>, David Applegate  
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**CC:** <dbdiamond@usgs.gov>, Geoffrey Plumlee  
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**From:** "Diamond, David" <dbdiamond@usgs.gov>  
**Sent:** Thu Feb 15 2018 12:04:12 GMT-0700 (MST)  
**To:** "Lukas, William" <wlukas@usgs.gov>  
**CC:** Walter Guidroz <wguidroz@usgs.gov>, David Houseknecht <dhouse@usgs.gov>, David Applegate <applegate@usgs.gov>, Geoffrey Plumlee <gplumlee@usgs.gov>  
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**Cc:** David Applegate <[applegate@usgs.gov](mailto:applegate@usgs.gov)>; Walter Guidroz <[wguidroz@usgs.gov](mailto:wguidroz@usgs.gov)>; David Diamond <[dbdiamond@usgs.gov](mailto:dbdiamond@usgs.gov)>; Geoff Plumlee <[gplumlee@usgs.gov](mailto:gplumlee@usgs.gov)>

**Subject:** Re: Action items from W&S biweekly with Dep Sec

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Everyone else. Thoughts? Want to go for the 22 even if Dave H. is unable to participate? That morning is quite open for Andrea.

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Bill Lukas | 202-208-4457  
USGS Liaison to Water & Science  
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On Thu, Feb 15, 2018 at 1:18 PM, Houseknecht, David <[dhouse@usgs.gov](mailto:dhouse@usgs.gov)> wrote:

I have meetings scheduled in Dallas on Feb. 22, and will be returning home that evening.

Dave Houseknecht  
U.S. Geological Survey  
[12201 Sunrise Valley Drive](#)  
MS 956  
Reston, VA 20192  
(703) 648-6466

On Thu, Feb 15, 2018 at 1:14 PM, Lukas, William <[wlukas@usgs.gov](mailto:wlukas@usgs.gov)> wrote:

Michelle Brown should be reaching out to Hirut to schedule a meeting for Feb 22.

\* \* \* \* \*

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On Sun, Feb 11, 2018 at 7:53 PM, David Applegate <[applegate@usgs.gov](mailto:applegate@usgs.gov)> wrote:

Geoff, Walter and Daves,

Heads up on a new briefing request on energy assessments from our Deputy Assistant Secretary. It's for the week after next.

Thanks, Dave

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David Applegate, Ph.D.  
Associate Director for Natural Hazards  
Exercising Authority of the Deputy Director  
[U.S. Geological Survey](#)  
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Reston VA 20192  
[703 648 6600](tel:7036486600)  
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Begin forwarded message:

**From:** "Travnicek, Andrea" <[andrea\\_travnicek@ios.doi.gov](mailto:andrea_travnicek@ios.doi.gov)>  
**Date:** February 11, 2018 at 12:21:29 PM EST  
**To:** "Applegate, David" <[applegate@usgs.gov](mailto:applegate@usgs.gov)>  
**Cc:** Timothy Petty <[timothy\\_petty@ios.doi.gov](mailto:timothy_petty@ios.doi.gov)>, Austin Ewell <[austin\\_ewell@ios.doi.gov](mailto:austin_ewell@ios.doi.gov)>, "Nichols, Ryan" <[ryan\\_nichols@ios.doi.gov](mailto:ryan_nichols@ios.doi.gov)>, "Lukas, William" <[wlukas@usgs.gov](mailto:wlukas@usgs.gov)>, "Rae, Kerry" <[kerry\\_rae@ios.doi.gov](mailto:kerry_rae@ios.doi.gov)>, Judy Nowakowski <[jnowakowski@usgs.gov](mailto:jnowakowski@usgs.gov)>, Joanne Taylor <[jctaylor@usgs.gov](mailto:jctaylor@usgs.gov)>, William Werkheiser <[whwerkhe@usgs.gov](mailto:whwerkhe@usgs.gov)>, Michelle Brown <[michelle\\_brown@ios.doi.gov](mailto:michelle_brown@ios.doi.gov)>  
**Subject:** Re: Action items from W&S biweekly with Dep Sec

Dave-

In regards to the Alaska follow up let's get a meeting set up for later in the week of Feb. 22 or 23 to meet with your Energy team that is working on the assessment. Also I think it would be good to meet in regards to all energy assessments to get an update on status of the projects.

I have cc'ed Michelle to find some time for us and your team to meet.

Thanks.  
Andrea

Andrea Travnicek, Ph.D.  
Deputy Assistant Secretary for Water and Science  
Office of the Secretary  
U.S. Department of the Interior  
work: 202-208-0969  
cell: 202-897-7220

On Thu, Feb 8, 2018 at 11:43 PM, Applegate, David <[applegate@usgs.gov](mailto:applegate@usgs.gov)> wrote:

Tim and all,

A few follow-ups from the Deputy Secretary meeting this afternoon.

I checked, and we do not have any QFR's in arrears. The only ones currently in our hands are from last week's Senate Energy & Natural Resources Committee hearing on natural hazards and aren't due for a couple more weeks. (By the way, I just saw this nice [summary](#) that the American Institute of Physics did of the hearing, emphasizing the level of support conveyed for the USGS role in the hazards arena.)

I wanted to follow up on the discussion of the infrastructure package. Although the focus at the meeting was on BOR, I did want to make the pitch that USGS has potentially a significant role to play both in terms of investments in our own scientific infrastructure and in the need for resource availability and hazard assessments to inform the

larger suite of investments. I think you were at the Senate briefing we did back in March 2017 on how USGS could participate -- I'm attaching the one-pager prepared for that. We have lots more material to share.

Regarding Alaska activities, I wasn't sure what follow-up was needed on Bernhardt's question about (b) (5)

(b) (5)

I am looking into getting hold of the 2002 USGS report that is the predecessor to the new literature review of ecological research in ANWR and will circle back on that.

We will work on the requested briefing paper about USGS overhead rates charged on reimbursable agreements, due next Friday 2/16.

We will provide some examples to you of USGS liaisons to large projects

We can discuss some of these action items at Monday's 1pm tag-up call.

Regards, Dave

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David Applegate, Ph.D.  
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Exercising Authority of the Deputy Director  
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Project	USGS PI name	Region/Center	Partners	USGS FY18 funding	Other funding	Coastal Plain (1002 area) location of work	Timeline
Polar bear movements and denning	Todd Atwood	Alaska/ASC	USFWS	\$422K (existing USGS Ecosystems), \$322 (additional USGS Ecosystems in FY18)		Off shore ta	Continuation of ongoing work with special concentration in March 2018 on eastern Beaufort sea to increase observations of denning in the ANWR 1002 Area
Fish of nearshore Beaufort Sea	Vanessa Von Biela	Alaska/ASC	USFWS, University of Texas at Austin	\$196K USGS/BOEM Outer Continental Shelf Program		Coastal lagoons, estuaries and beaches	Continuation of summer fish sampling (2017-2020) along ANWR coast to compare with 1988-1991 sampling
Shoreline change	Li Erikson	Pacific/PCMSC	University of Texas at Austin, University of California Santa Cruz	\$50 K USGS Natural Hazards		Coastal bluffs and beaches	Continuing work in summer 2018
2D seismic data of ANWR	David Houseknecht	Eastern/Reston		USGS Energy & Minerals		Across terrestrial locations of the 1002	Will reprocess vintage 2D seismic data to be delivered in July 2018. Conduct laboratory analysis of rock and oil samples collected from outcrops in ANWR and from nearby wells during FY2018.
3D seismic data of ANWR	David Houseknecht	Eastern/Reston		USGS Energy & Minerals		Across terrestrial locations of the 1002	Conduct during winters of 2018-2019 and 2019-2020. Initial 3D data will be available late FY 2019.
Caribou forage and movements	Heather Johnson	Alaska/ASC	Alaska Department of Fish and Game (ADF&G), Texas A&M University	\$350K USGS Ecosystems	\$75K ADF&G	Outside of 1002 area, but some tagged Central Herd animals migrate into 1002	Collaring and tracking animals through 2020, ongoing publication writing, new analysis of caribou habituation to existing infrastructure

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Shoreline change	Li Erikson	Pacific/PCMSC	University of Texas at Austin, University of California Santa Cruz	\$50 K USGS Natural Hazards		Coastal bluffs and beaches	Continuing work in summer 2018
Reprocessing vintage 2D seismic data of 1002 Area	David Houseknecht	Eastern/Reston	BOEM	\$2,000,000 USGS Energy & Minerals		Across terrestrial locations of the 1002 and adjacent nearshore areas where ANWR seismic data was collected	Reprocessed vintage 2D seismic data to be delivered in July 2018. Interpretation and mapping based on that data through fourth quarter FY2018.
Sample collection (field work) and laboratory analysis	David Houseknecht	Eastern/Reston	FWS (logistical assistance), Alaska DNR (Geological & Geophysical Surveys, Division of Oil and Gas)	\$2,300,000 USGS Energy & Minerals		Across terrestrial locations of the 1002, adjacent state lands, and adjacent state and federal waters	Collect outcrop and well samples from external perimeter of 1002 Area, spring & summer 2018; conduct laboratory analyses on samples to determine petroleum prospectivity of region, summer & fall 2018.
Participate in leasing BLM workshops and transfer knowledge from ongoing research	David Houseknecht	Eastern/Reston	USGS supporting mission of BLM	\$200,000 USGS Energy & Minerals		Across terrestrial locations of the 1002	Provide support to BLM to inform preparation for lease sales in 1002 Area
Permafrost and climate data collection	Frank Urban	Southwest/GECSC	BLM, FWS (collaborators)	~\$20K USGS Climate and Land Use		Across northern AK including locations of the 1002	Annual field work during summer 2018 possibly coincident with Houseknecht's field season; network is part of the Global Terrestrial Network for Permafrost (GTN-P)
Caribou forage and movements	Heather Johnson	Alaska/ASC	Alaska Department of Fish and Game (ADF&G), Texas A&M University	\$350K USGS Ecosystems	\$75K ADF&G	Outside of 1002 area, but some tagged Central Herd animals migrate into 1002	Collaring and tracking animals through 2020, ongoing publication writing, new analysis of caribou habituation to existing infrastructure

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Reprocessing vintage 2D seismic data of 1002 Area	David Houseknecht	Eastern/Reston	BOEM	\$2,000,000 USGS Energy & Minerals (includes \$888,250 of 2017 money to be applied to reprocessing work carried out in 2018)		Across terrestrial locations of the 1002 and adjacent nearshore areas where ANWR seismic data was collected	Reprocessed vintage 2D seismic data to be delivered in July 2018. Interpretation and mapping based on that data through fourth quarter FY2018.
Sample collection (field work) and laboratory analysis	David Houseknecht	Eastern/Reston	FWS (logistical assistance), Alaska DNR (Geological & Geophysical Surveys, Division of Oil and Gas)	\$2,300,000 USGS Energy & Minerals		Across terrestrial locations of the 1002, adjacent state lands, and adjacent state and federal waters	Collect outcrop and well samples from external perimeter of 1002 Area, spring & summer 2018; conduct laboratory analyses on samples to determine petroleum prospectivity of region, summer & fall 2018.
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Shoreline change	Li Erikson	Pacific/Pacific Coastal & Marine Science Center	University of Texas at Austin, University of California Santa Cruz	\$50K USGS Natural Hazards		Coastal bluffs and beaches	Continuing work in summer 2018
Reprocessing vintage 2D seismic data of 1002 Area	David Houseknecht	Midwest/Eastern Energy Resources Science Center	BOEM	\$2M USGS Energy & Minerals (includes \$888K of FY17 money to be applied to reprocessing work carried out in 2018)		Across terrestrial locations of the 1002 and adjacent nearshore areas where ANWR seismic data was collected	Reprocessed vintage 2D seismic data to be delivered in July 2018. Interpretation and mapping based on that data through fourth quarter FY2018.
Sample collection (field work) and laboratory analysis	David Houseknecht	Midwest/EERSC	FWS (logistical assistance), Alaska DNR (Geological & Geophysical Surveys, Division of Oil and Gas)	\$2.3M USGS Energy & Minerals		Across terrestrial locations of the 1002, adjacent state lands, and adjacent state and federal waters	Collect outcrop and well samples from external perimeter of 1002 Area, spring & summer 2018; conduct laboratory analyses on samples to determine petroleum prospectivity of region, summer & fall 2018.
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