

Conversation Contents

New/Old map request

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/1. New/Old map request/3.3 ANWR_1002_10_17_2017_Plate2.jpg
/1. New/Old map request/3.4 ANWR_1002_10_17_2017_Plate1.jpg
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/1. New/Old map request/8.4 ANWR_1002_10_24_2017_Plate2.jpg

"Jester, Julia" <jjester@usgs.gov>

From: "Jester, Julia" <jjester@usgs.gov>
Sent: Mon Oct 16 2017 10:21:30 GMT-0600 (MDT)
To: Christopher Garrity <cgarrity@usgs.gov>, "Houseknecht, David" <dhouse@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, Murray Hitzman <mhitzman@usgs.gov>
CC: "Onizuk, Jeffrey" <jonizuk@usgs.gov>
Subject: New/Old map request

Happy Monday!

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Energy program folks please let Chris know if you are ok with making these changes, and please let me know if you have any questions. I will also make sure DOI is aware of the new request.

Exasperated,

Julia
x4300

Julia Jester, Ph.D.
Congressional Liaison Officer
U.S. Geological Survey
o: 703-648-4300 c: 571-352-4677

Walter Guidroz <wguidroz@usgs.gov>

From: Walter Guidroz <wguidroz@usgs.gov>
Sent: Mon Oct 16 2017 10:43:19 GMT-0600 (MDT)
To: Julia Jester <jjester@usgs.gov>, Christopher Garrity <cgarrity@usgs.gov>, David Houseknecht <dhouse@usgs.gov>, Murray Hitzman <mhitzman@usgs.gov>
CC: Jeffrey Onizuk <jonizuk@usgs.gov>
Subject: RE: New/Old map request

Fine by me

From: Jester, Julia [mailto:jjester@usgs.gov]
Sent: Monday, October 16, 2017 12:22 PM
To: Christopher Garrity <cgarrity@usgs.gov>; Houseknecht, David <dhouse@usgs.gov>; Walter Guidroz <wguidroz@usgs.gov>; Murray Hitzman <mhitzman@usgs.gov>
Cc: Onizuk, Jeffrey <jonizuk@usgs.gov>
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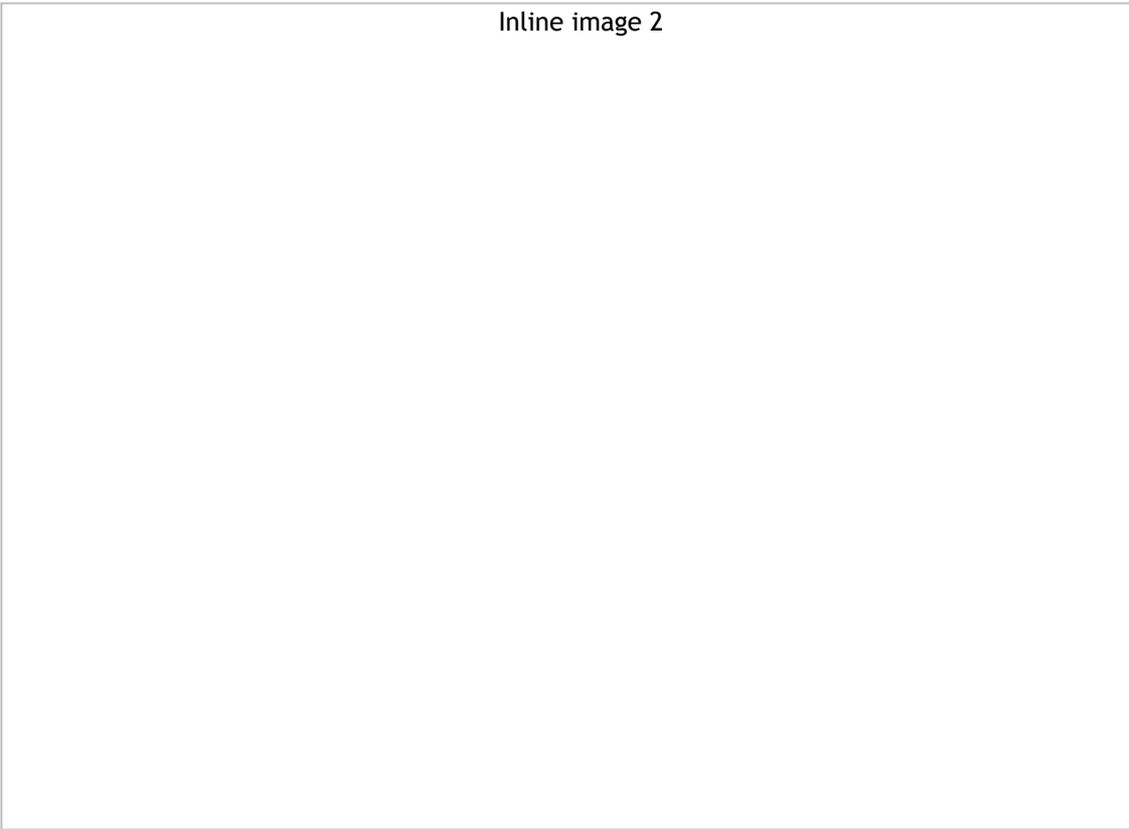
Julia Jester, Ph.D.
Congressional Liaison Officer
U.S. Geological Survey

"Garrity, Christopher" <cgarrity@usgs.gov>

From: "Garrity, Christopher" <cgarrity@usgs.gov>
Sent: Tue Oct 17 2017 06:51:19 GMT-0600 (MDT)
To: "Jester, Julia" <jjester@usgs.gov>
CC: "Houseknecht, David" <dhouse@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, Murray Hitzman <mhitzman@usgs.gov>, "Onizuk, Jeffrey" <jonizuk@usgs.gov>
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Attachments: ANWR_1002_10_17_2017_Plate2.jpg
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Hi Julia,
See attached...

Inline image 2



Inline image 1

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-Chris

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T 703.648.6426 | F 703.648.6419 (Fax)

cgarrity@usgs.gov | usgs.gov

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

From: "Houseknecht, David" <dhouse@usgs.gov>
Sent: Wed Oct 18 2017 01:19:27 GMT-0600 (MDT)
To: Julia Jester <jjester@usgs.gov>
CC: "Garrity, Christopher" <cgarrity@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, Murray Hitzman <mhitzman@usgs.gov>, "Onizuk, Jeffrey" <jonizuk@usgs.gov>
Subject: Re: New/Old map request

Seems they want to push this further and further towards the USGS being responsible for the boundaries shown. As long as the attribution to sources of data remains, I can live with it but I'm a bit uneasy.

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

On Tue, Oct 17, 2017 at 8:53 PM, Julia Jester <jjester@usgs.gov> wrote:
Murray, Walter, Dave -

Not surprisingly, they have requested the removal of the disclaimer box ("USGS makes no warranty..."). Are we ok removing that from this version?

USGS Congressional
571-352-4677

On Oct 17, 2017, at 8:51 AM, Garrity, Christopher <cgarrity@usgs.gov> wrote:

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<ANWR_1002_10_17_2017_Plate2.jpg>

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cgarrity@usgs.gov | [usgs.gov](https://www.usgs.gov)

<ANWR_1002_10_17_2017_Plate2.jpg>

<ANWR_1002_10_17_2017_Plate1.jpg>

"Garrity, Christopher" <cgarrity@usgs.gov>

From: "Garrity, Christopher" <cgarrity@usgs.gov>
Sent: Wed Oct 18 2017 08:45:01 GMT-0600 (MDT)
To: "Hitzman, Murray" <mhitzman@usgs.gov>
Julia Jester <jjester@usgs.gov>, "Houseknecht, David"

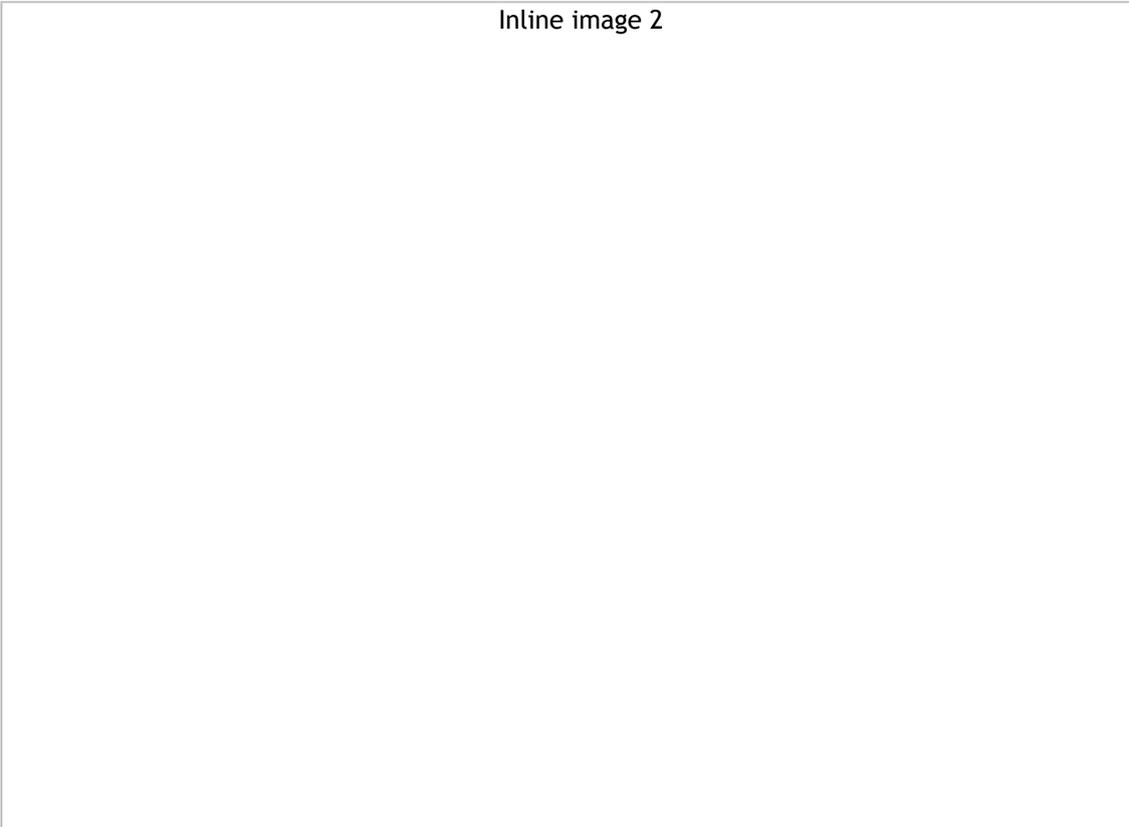
CC: <dhouse@usgs.gov>, Walter Guidroz <>wguidroz@usgs.gov>, "Onizuk, Jeffrey" <jonizuk@usgs.gov>

Subject: Re: New/Old map request
ANWR_1002_10_17_2017_Plate2.jpg
ANWR_1002_10_17_2017_Plate1.jpg

Attachments: ANWR_1002_10_17_2017_Plate1.jpg
ANWR_1002_10_17_2017_Plate2.jpg

See attached...

Inline image 2



Inline image 1

On Wed, Oct 18, 2017 at 10:17 AM, Garrity, Christopher <cgarrity@usgs.gov> wrote:
OK...will send shortly then.

On Wed, Oct 18, 2017 at 5:51 AM, Hitzman, Murray <mhitzman@usgs.gov> wrote:
assuming this is actually the boundary that we think is correct I believe we can remove the box

On Tue, Oct 17, 2017 at 8:53 PM, Julia Jester <jjester@usgs.gov> wrote:
Murray, Walter, Dave -

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<ANWR_1002_10_17_2017_Plate2.jpg>

<ANWR_1002_10_17_2017_Plate1.jpg>

--

Murray W. Hitzman
U. S. Geological Survey
Associate Director - Energy and Minerals
12201 Sunrise Valley Dr., MS 102
Reston, VA. 20192
703-648-4576

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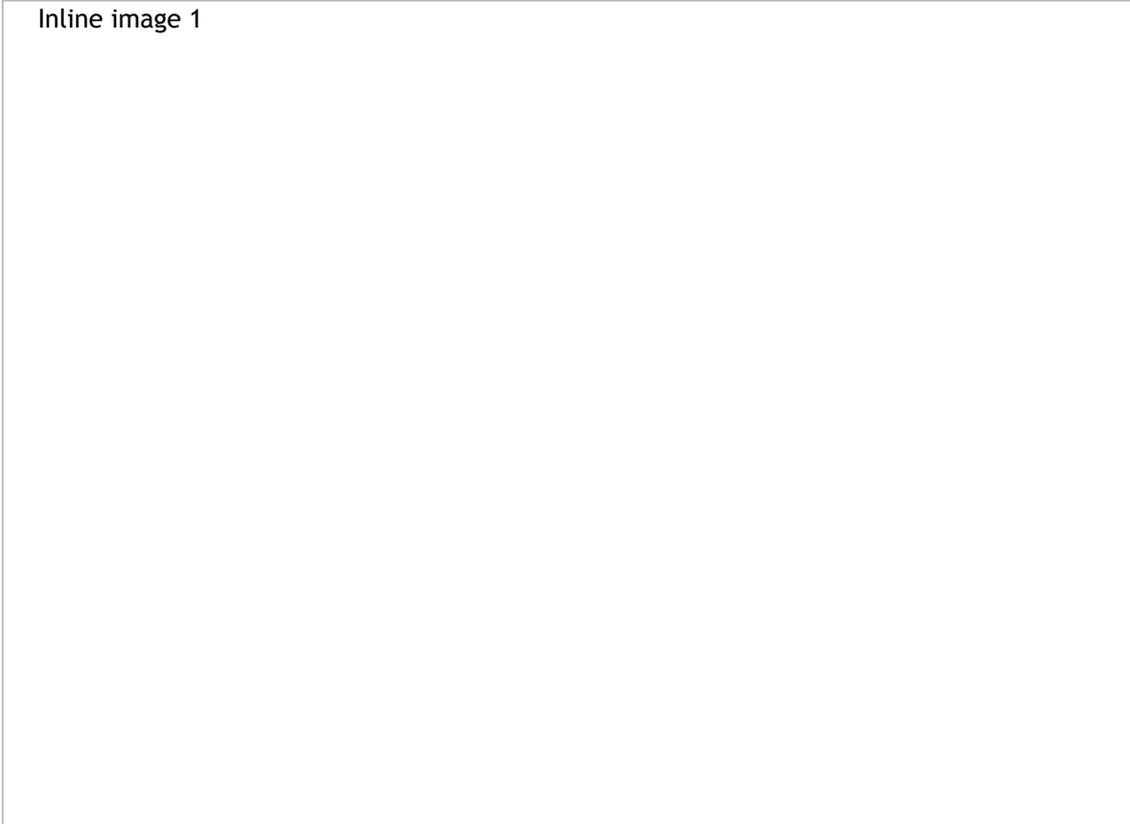
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cgarrity@usgs.gov | usgs.gov

"Garrity, Christopher" <cgarrity@usgs.gov>

From: "Garrity, Christopher" <cgarrity@usgs.gov>
Sent: Mon Oct 23 2017 13:23:13 GMT-0600 (MDT)
To: "Jester, Julia" <jjester@usgs.gov>
CC: "Houseknecht, David" <dhouse@usgs.gov>, "Hitzman, Murray" <mhitzman@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, "Onizuk, Jeffrey" <jonizuk@usgs.gov>
Subject: Re: New/Old map request
Attachments: ANWR_1002_10_23_2017_Plate2.jpg
ANWR_1002_10_23_2017_Plate1.jpg

Inline image 1



Inline image 3

On Mon, Oct 23, 2017 at 11:52 AM, Jester, Julia <jjester@usgs.gov> wrote:
Thank you.

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Congressional Liaison Officer
U.S. Geological Survey
o: 703-648-4300 c: 571-352-4677

On Mon, Oct 23, 2017 at 11:42 AM, Houseknecht, David <dhouse@usgs.gov> wrote:
Agree with Murray about the requested disclaimer.

Only challenge now is which of the multiple channels of the Canning River we should label - presumably the westernmost channel - will work with Garrity on that.

Dave Houseknecht
U.S. Geological Survey
[12201 Sunrise Valley Drive](#)
MS 956
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On Mon, Oct 23, 2017 at 11:37 AM, Hitzman, Murray <mhitzman@usgs.gov> wrote:
I actually think that clarification works in our favor - will be interesting to see what DOI solicitor says.

On Mon, Oct 23, 2017 at 11:35 AM, Jester, Julia <jjester@usgs.gov> wrote:
Ok, in addition to the river images/labels they would also like to add a small box (similar to the disclaimer we used to have on there) that says:

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I have asked my contacts at DOI to see if the solicitor needs to clear the inclusion of this language. In the meantime, can Energy program folks ok the preparation of these revisions?

Thanks all,

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Julia Jester <jjester@usgs.gov>

From: Julia Jester <jjester@usgs.gov>
Sent: Mon Oct 23 2017 16:30:09 GMT-0600 (MDT)
To: "Garrity, Christopher" <cgarrity@usgs.gov>
CC: "Houseknecht, David" <dhouse@usgs.gov>, "Hitzman, Murray" <mhitzman@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, "Onizuk, Jeffrey" <jonizuk@usgs.gov>
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The request is now to remove the name of the Staines, keep the Canning, and remove the arrow. Houseknecht, please weigh in.

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USGS Congressional
571-352-4677

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[image: Inline image 1]

[image: Inline image 3]

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12201 Sunrise Valley Drive

<[https://maps.google.com/?
q=12201+Sunrise+Valley+Drive&entry=gmail&source=g](https://maps.google.com/?q=12201+Sunrise+Valley+Drive&entry=gmail&source=g)>

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12201 Sunrise Valley Dr

<https://maps.google.com/?q=12201+Sunrise+Valley+Dr&entry=gmail&source=g>>.,

MS 102

Reston, VA. 20192

703-648-4576

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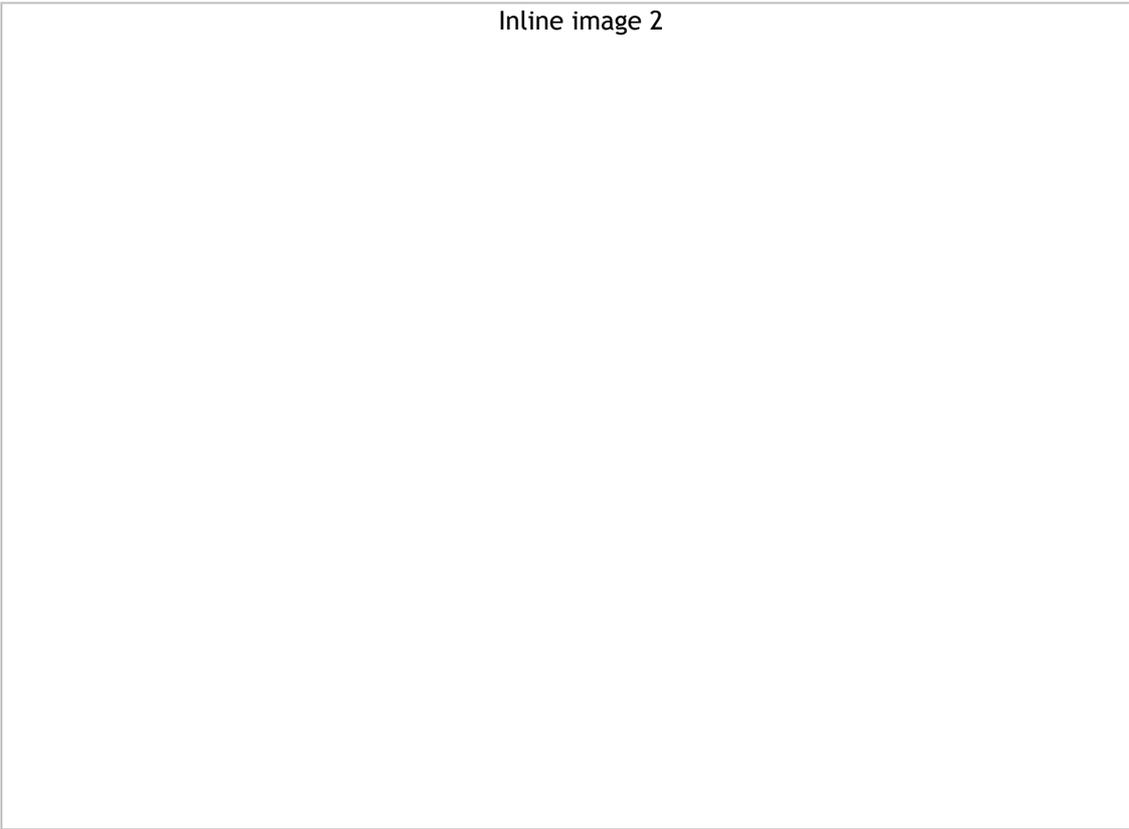
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To: "Houseknecht, David" <dhouse@usgs.gov>
Julia Jester <jjester@usgs.gov>, "Hitzman, Murray"
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Inline image 2



Inline image 1

On Tue, Oct 24, 2017 at 7:44 AM, Houseknecht, David <dhouse@usgs.gov> wrote:
OK by me. Send.

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

On Tue, Oct 24, 2017 at 7:23 AM, Garrity, Christopher <cgarrity@usgs.gov> wrote:
Ready to go when we get the OK

On Mon, Oct 23, 2017 at 6:30 PM, Julia Jester <jjester@usgs.gov> wrote:
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571-352-4677

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<ANWR_1002_10_23_2017_Plate1.jpg>

<ANWR_1002_10_23_2017_Plate2.jpg>

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/2. New map request - ANWR/6.6 ANWR_1002_9_26_2017_Plate3.jpg
/2. New map request - ANWR/6.7 ANWR_1002_10_3_2017_Plate3.jpg
/2. New map request - ANWR/6.8 ANWR_1002_10_3_2017_Plate2.jpg
/2. New map request - ANWR/6.9 ANWR_1002_10_3_2017_Plate1.jpg
/2. New map request - ANWR/7.1 image.png
/2. New map request - ANWR/8.1 image.png
/2. New map request - ANWR/9.1 image.png
/2. New map request - ANWR/10.1 image.png
/2. New map request - ANWR/11.1 image.png
/2. New map request - ANWR/12.1 image.png
/2. New map request - ANWR/13.1 image.png
/2. New map request - ANWR/13.2 ANWR_1002_10_5_2017_AllOptions.zip
/2. New map request - ANWR/14.1 image.png

"Jester, Julia" <jjester@usgs.gov>

From: "Jester, Julia" <jjester@usgs.gov>
Sent: Tue Sep 26 2017 13:25:09 GMT-0600 (MDT)
To: Christopher Garrity <cgarrity@usgs.gov>
CC: David Houseknecht <dhouse@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, Murray Hitzman <mhitzman@usgs.gov>, Christopher Trent <ctrent@usgs.gov>
Subject: New map request - ANWR
Attachments: 05.08.17 - ANWR Map vfinal.docx

Hi all,

Murkowski's office has requested a change to the maps we created for the Senator back in early May (three plates attached).

They would like to remove the reference to S. 49, as they are looking to use this map to reference something else (probably legislation yet to be introduced this Congress).

I talked with Bill W about this a few minutes ago so he is aware.

Would it be possible to make these?

Please call me with any questions...

Thank you,

Julia
x4300

In each Title at the top of the page: remove "...Boundary as Referenced in S. 49 in the 115th Congress" so the new version reads **"ANWR map prepared at the request of Chairman Murkowski, 115th Congress"** and **"Plate X - [today's date]"**

In each Explanation change the ANWR reference from "ANWR Boundary as Referenced in S. 49, introduced in the 115th Congress" to **"ANWR Boundary as requested by Chairman Murkowski, [today's date]."**

Julia Jester, Ph.D.
Congressional Liaison Officer
U.S. Geological Survey
o: 703-648-4300 c: 571-352-4677

"Garrity, Christopher" <cgarrity@usgs.gov>

From: "Garrity, Christopher" <cgarrity@usgs.gov>
Sent: Tue Sep 26 2017 14:02:30 GMT-0600 (MDT)
To: Walter Guidroz <wguidroz@usgs.gov>
CC: Julia Jester <jjester@usgs.gov>, David Houseknecht <dhouse@usgs.gov>, Murray Hitzman <mhitzman@usgs.gov>, Christopher Trent <ctrent@usgs.gov>
Subject: Re: New map request - ANWR
ANWR_1002_9_26_2017_Plate1.jpg
ANWR_1002_9_26_2017_Plate3.jpg
ANWR_1002_9_26_2017_Plate2.jpg
ANWR_1002_9_26_2017_Plate3.jpg
ANWR_1002_9_26_2017_Plate2.jpg
ANWR_1002_9_26_2017_Plate1.jpg

All,
See attached.

Inline image 1

Inline image 2

Inline image 3

On Tue, Sep 26, 2017 at 3:28 PM, Walter Guidroz <wguidroz@usgs.gov> wrote:

Chris G, can you please make the requested changes?

From: Jester, Julia [mailto:jjester@usgs.gov]
Sent: Tuesday, September 26, 2017 3:25 PM
To: Christopher Garrity <cgarrity@usgs.gov>
Cc: David Houseknecht <dhouse@usgs.gov>; Walter Guidroz <wguidroz@usgs.gov>; Murray Hitzman <mhitzman@usgs.gov>; Christopher Trent <ctrent@usgs.gov>
Subject: New map request - ANWR

Hi all,

Murkowski's office has requested a change to the maps we created for the Senator back in early May (three plates attached).

They would like to remove the reference to S. 49, as they are looking to use this map to reference something else (probably legislation yet to be introduced this Congress).

I talked with Bill W about this a few minutes ago so he is aware.

Would it be possible to make these?

Please call me with any questions...

Thank you,

Julia

x4300

In each Title at the top of the page: remove "...Boundary as Referenced in S. 49 in the 115th Congress" so the new version reads **"ANWR map prepared at the request of Chairman Murkowski, 115th Congress"** and **"Plate X - [today's date]"**

In each Explanation change the ANWR reference from "ANWR Boundary as Referenced in S. 49, introduced in the 115th Congress" to **"ANWR Boundary as requested by Chairman Murkowski, [today's date]."**

Julia Jester, Ph.D.
Congressional Liaison Officer
U.S. Geological Survey
o: 703-648-4300 c: 571-352-4677

--

-Chris

Christopher Garrity | GIScience
USGS | 12201 Sunrise Valley Drive, Reston, VA 20192 | USA
T 703.648.6426 | F 703.648.6419 (Fax)
cgarrity@usgs.gov | usgs.gov

Julia Jester <jjester@usgs.gov>

From: Julia Jester <jjester@usgs.gov>
Sent: Mon Oct 02 2017 16:35:15 GMT-0600 (MDT)
To: wguidroz@usgs.gov, mhitzman@usgs.gov
Subject: Fwd: New map request - ANWR
ANWR_1002_9_26_2017_Plate3.jpg

Attachments: ANWR_1002_9_26_2017_Plate2.jpg
ANWR_1002_9_26_2017_Plate1.jpg

Walter and Murray,

These maps have not been conveyed to Murkowski as I have been awaiting DOI clearance. Congressional at DOI has made an additional change request.

They would like to remove the heading from the map and just keep the "plate 1, plate 2, and plate 3 and date produced" - essentially move the first line and keep the second. And they would like to change the explanation to say "ANWR boundary as requested by the Alaska Congressional delegation in the 115th Congress, date."

Is there any issue with removing the header/title of the map? If not, can these changes be made?

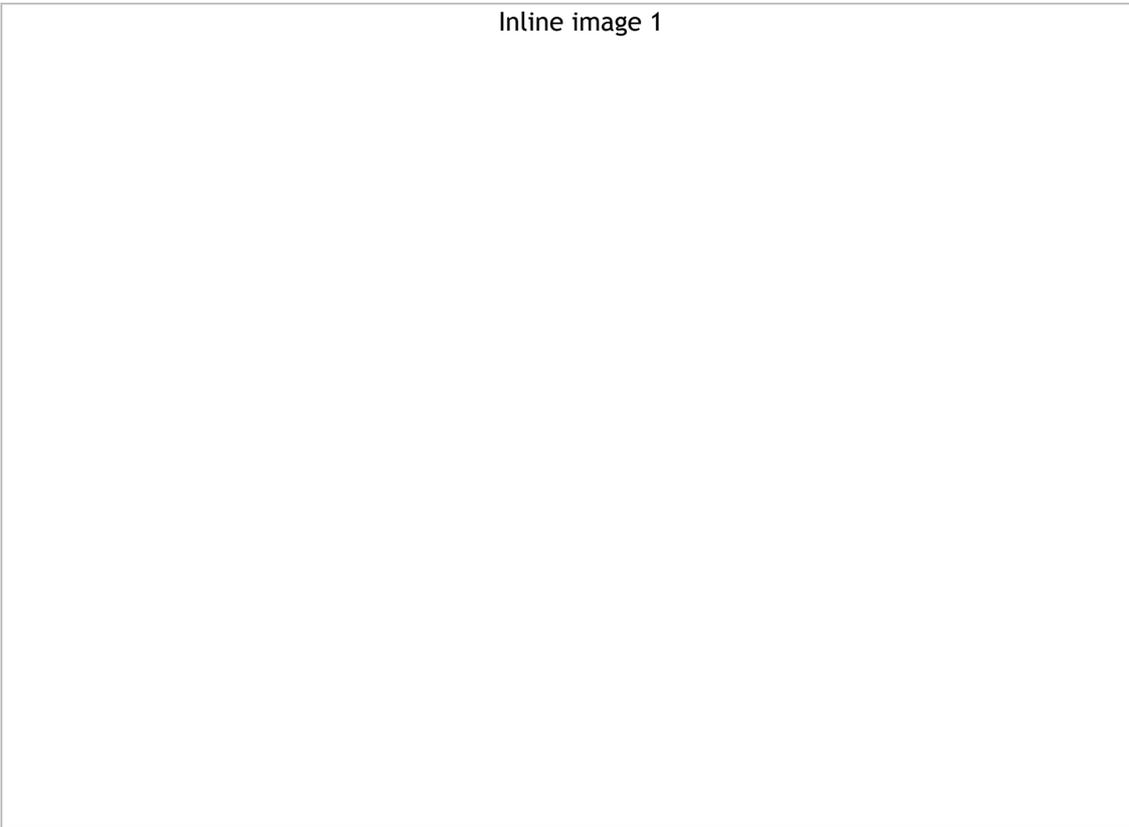
USGS Congressional
571-352-4677

Begin forwarded message:

From: "Garrity, Christopher" <cgarrity@usgs.gov>
To: Walter Guidroz <wguidroz@usgs.gov>
Cc: Julia Jester <jjester@usgs.gov>, David Houseknecht <dhouse@usgs.gov>, Murray Hitzman <mhitzman@usgs.gov>, Christopher Trent <ctrent@usgs.gov>
Subject: **Re: New map request - ANWR**

All,
See attached.

Inline image 1



Inline image 2

Inline image 3

On Tue, Sep 26, 2017 at 3:28 PM, Walter Guidroz <wguidroz@usgs.gov> wrote:

Chris G, can you please make the requested changes?

From: Jester, Julia [mailto:jjester@usgs.gov]

Sent: Tuesday, September 26, 2017 3:25 PM

To: Christopher Garrity <cgarrity@usgs.gov>

Cc: David Houseknecht <dhouse@usgs.gov>; Walter Guidroz <wguidroz@usgs.gov>;

Murray Hitzman <mhitzman@usgs.gov>; Christopher Trent <ctrent@usgs.gov>

Subject: New map request - ANWR

Hi all,

Murkowski's office has requested a change to the maps we created for the Senator back in early May (three plates attached).

They would like to remove the reference to S. 49, as they are looking to use this map to reference something else (probably legislation yet to be introduced this Congress).

I talked with Bill W about this a few minutes ago so he is aware.

Would it be possible to make these?

Please call me with any questions...

Thank you,

Julia

x4300

In each Title at the top of the page: remove "...Boundary as Referenced in S. 49 in the 115th Congress" so the new version reads **"ANWR map prepared at the request of Chairman Murkowski, 115th Congress"** and **"Plate X - [today's date]"**

In each Explanation change the ANWR reference from "ANWR Boundary as Referenced in S. 49, introduced in the 115th Congress" to **"ANWR Boundary as requested by Chairman Murkowski, [today's date]."**

Julia Jester, Ph.D.

Congressional Liaison Officer
U.S. Geological Survey
o: 703-648-4300 c: 571-352-4677

--

-Chris

Christopher Garrity | GIScience
USGS | 12201 Sunrise Valley Drive, Reston, VA 20192 | USA
T 703.648.6426 | F 703.648.6419 (Fax)
cgarrity@usgs.gov | usgs.gov



"Jester, Julia" <jjester@usgs.gov>

From: "Jester, Julia" <jjester@usgs.gov>
Sent: Tue Oct 03 2017 05:20:08 GMT-0600 (MDT)
To: "Garrity, Christopher" <cgarrity@usgs.gov>
CC: Walter Guidroz <wguidroz@usgs.gov>, David Houseknecht <dhouse@usgs.gov>, Murray Hitzman <mhitzman@usgs.gov>, Christopher Trent <ctrent@usgs.gov>
Subject: Re: New map request - ANWR
Attachments: ANWR_1002_9_26_2017_Plate3.jpg
ANWR_1002_9_26_2017_Plate2.jpg
ANWR_1002_9_26_2017_Plate1.jpg

Good morning Chris,

DOI has requested an additional change to the set of ANWR maps (these have not been conveyed to the Hill yet as I have been awaiting clearance downtown).

Specifically, they would like to remove the heading from the map and just keep the "Plate 1, Plate 2, and Plate 3 and date" - essentially remove the first line and keep the second. And they would like to change the explanation to say "ANWR boundary as requested by the Alaska Congressional delegation in the 115th Congress, date."

Would it be possible for you to make these changes? And please let me know if anyone has concerns with removing the header/title of the map - 571-352-4677.

Thanks,

Julia

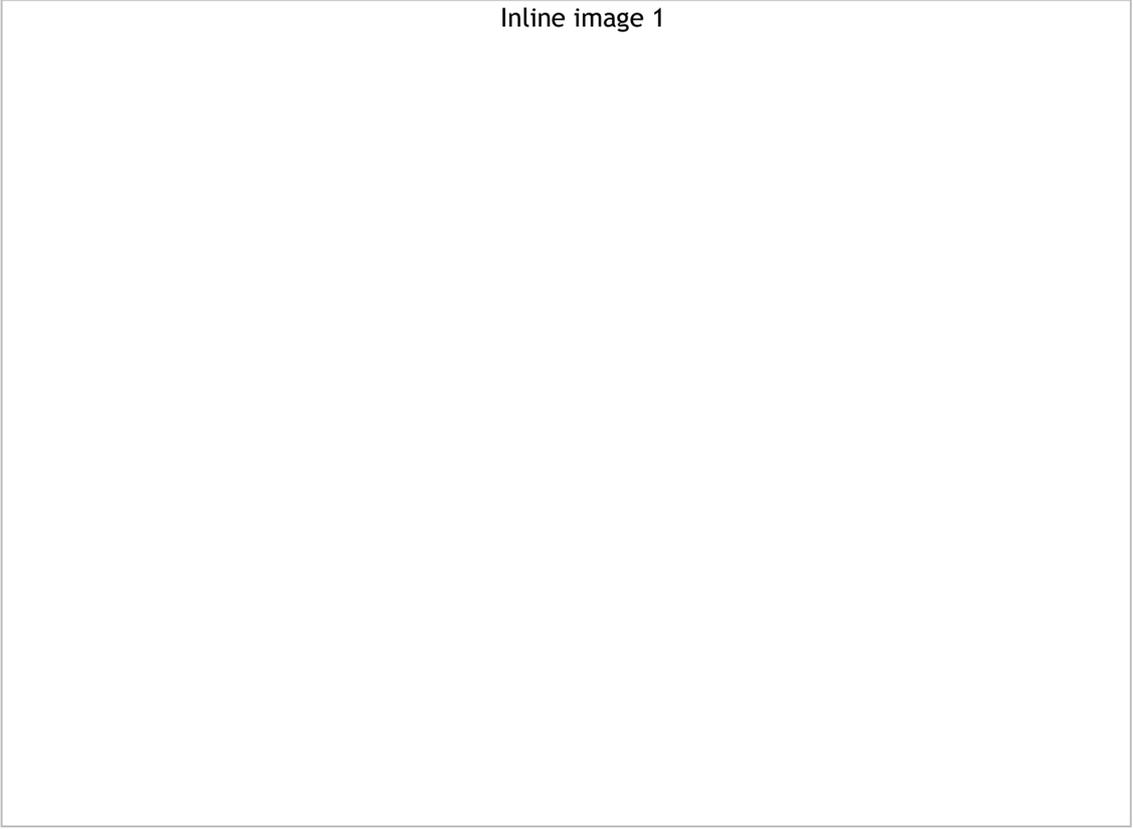
Julia Jester, Ph.D.
Congressional Liaison Officer
U.S. Geological Survey
o: 703-648-4300 c: 571-352-4677

On Tue, Sep 26, 2017 at 4:10 PM, Jester, Julia <jjester@usgs.gov> wrote:
Thank you.

Julia Jester, Ph.D.
Congressional Liaison Officer
U.S. Geological Survey
o: 703-648-4300 c: 571-352-4677

On Tue, Sep 26, 2017 at 4:02 PM, Garrity, Christopher <cgarrity@usgs.gov> wrote:
All,
See attached.

Inline image 1



Inline image 2

Inline image 3

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Sent: Tuesday, September 26, 2017 3:25 PM

To: Christopher Garrity <cgarrity@usgs.gov>

Cc: David Houseknecht <dhouse@usgs.gov>; Walter Guidroz <wguidroz@usgs.gov>; Murray

Hitzman <mhitzman@usgs.gov>; Christopher Trent <ctrent@usgs.gov>

Subject: New map request - ANWR

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Julia

x4300

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In each Explanation change the ANWR reference from "ANWR Boundary as Referenced in S. 49, introduced in the 115th Congress" to **"ANWR Boundary as requested by Chairman Murkowski, [today's date]."**

Julia Jester, Ph.D.
Congressional Liaison Officer
U.S. Geological Survey

o: 703-648-4300 c: 571-352-4677

--

-Chris

Christopher Garrity | GIScience
USGS | [12201 Sunrise Valley Drive, Reston, VA 20192 | USA](https://www.usgs.gov/locations/national-office)
T 703.648.6426 | F 703.648.6419 (Fax)
cgarrity@usgs.gov | [usgs.gov](https://www.usgs.gov)

Walter Guidroz <wguidroz@usgs.gov>

From: Walter Guidroz <wguidroz@usgs.gov>
Sent: Tue Oct 03 2017 07:21:35 GMT-0600 (MDT)
To: "Houseknecht, David" <dhouse@usgs.gov>
CC: "Garrity, Christopher" <cgarrity@usgs.gov>, "Jester, Julia" <jjester@usgs.gov>, Murray Hitzman <mhitzman@usgs.gov>, Christopher Trent <ctrent@usgs.gov>
Subject: Re: New map request - ANWR

I thought I replied yesterday but perhaps my reply went only to Julia. I see no issues with this; please proceed... Walter Sent from my iPhone > On Oct 3, 2017, at 11:17 AM, Houseknecht, David <dhouse@usgs.gov> wrote: > > I see no problem with the revisions, so let's send them. > > Hopefully, the fact that the latest revisions in wording were requested by > DOI will be conveyed to Senator Murkowski's staff. > > Dave Houseknecht > U.S. Geological Survey > 12201 Sunrise Valley Drive > MS 956 > Reston, VA 20192 > (703) 648-6466 > > On Tue, Oct 3, 2017 at 9:05 AM, Garrity, Christopher <cgarrity@usgs.gov> > wrote: > >> Julia- >> No problem. When I get the OK from Energy I'll send them along. >> >>> On Tue, Oct 3, 2017 at 7:20 AM, Jester, Julia <jjester@usgs.gov> wrote: >>> >>> Good morning Chris, >>> >>> DOI has requested an additional change to the set of ANWR maps (these >>> have not been conveyed to the Hill yet as I have been awaiting clearance >>> downtown). >>> >>> Specifically, they would like to remove the heading from the map and >>> just keep the "Plate 1, Plate 2, and Plate 3 and date" - essentially remove >>> the first line and keep the second. And they would like to change the >>> explanation to say "ANWR boundary as requested by the Alaska Congressional >>> delegation in the 115th Congress, date." >>> >>> Would it be possible for you to make these changes? And please let me >>> know if anyone has concerns with removing the header/title of the map - >>> 571-352-4677. >>> >>> Thanks, >>> >>> Julia >>> >>> Julia Jester, Ph.D. >>> Congressional Liaison Officer >>> U.S. Geological Survey >>> o: 703-648-4300 c: 571-352-4677 >>> >>>> On Tue, Sep 26, 2017 at 4:10 PM, Jester, Julia <jjester@usgs.gov> wrote: >>>> >>>> Thank you. >>>> >>>> Julia Jester, Ph.D. >>>> Congressional Liaison Officer >>>> U.S. Geological Survey >>>> o: 703-648-4300 c: 571-352-4677 >>>> >>>> On Tue, Sep 26, 2017 at 4:02 PM, Garrity, Christopher >>>> wrote: >>>> >>>>> All, >>>>> See attached. >>>>> >>>>> [image: Inline image 1] >>>>> [image: Inline image 2] >>>>> [image: Inline image 3] >>>>> >>>>> On Tue, Sep 26, 2017 at 3:28 PM, Walter Guidroz <wguidroz@usgs.gov> >>>>> wrote: >>>>> >>>>>> Chris G, can you please make the requested changes? >>>>>> >>>>>> >>>>>> >>>>>> *From:* Jester, Julia [mailto:jjester@usgs.gov] >>>>>> *Sent:* Tuesday, September 26, 2017 3:25 PM >>>>>> *To:* Christopher Garrity <cgarrity@usgs.gov> >>>>>> *Cc:* David Houseknecht <dhouse@usgs.gov>; Walter Guidroz <wguidroz@usgs.gov>; Murray Hitzman

<mhitzman@usgs.gov>; Christopher >>>>> Trent <ctrent@usgs.gov> >>>>> *Subject:* New map request - ANWR >>>>> >>>>> >>>>> >>>>> Hi all, >>>>> >>>>> >>>>> >>>>> Murkowski's office has requested a change to the maps we created for >>>>> the Senator back in early May (three plates attached). >>>>> >>>>> >>>>> >>>>> They would like to remove the reference to S. 49, as they are looking >>>>> to use this map to reference something else (probably legislation yet to be >>>>> introduced this Congress). >>>>> >>>>> >>>>> >>>>> I talked with Bill W about this a few minutes ago so he is aware. >>>>> >>>>> >>>>> >>>>> Would it be possible to make these? >>>>> >>>>> >>>>> >>>>> Please call me with any questions... >>>>> >>>>> >>>>> >>>>> Thank you, >>>>> >>>>> >>>>> >>>>> Julia >>>>> >>>>> x4300 >>>>> >>>>> >>>>> >>>>> >>>>> In each Title at the top of the page: remove "...Boundary as >>>>> Referenced in S. 49 in the 115th Congress" so the new version reads "'ANWR >>>>> map prepared at the request of Chairman Murkowski, 115th Congress" *and >>>>> *"'Plate X - [today's date]"* >>>>> >>>>> >>>>> >>>>> In each Explanation change the ANWR reference from "ANWR Boundary as >>>>> Referenced in S. 49, introduced in the 115th Congress" to "'ANWR >>>>> Boundary as requested by Chairman Murkowski, [today's date]." >>>>> >>>>> >>>>> >>>>> Julia Jester, Ph.D. >>>>> Congressional Liaison Officer >>>>> U.S. Geological Survey >>>>> o: 703-648-4300 c: 571-352-4677 >>>>> >>>>> >>>>> >>>>> >>>>> -- >>>>> >>>>> >>>>> -Chris >>>>> >>>>> >>>>> *Christopher Garrity | GIScience* >>>>> USGS | 12201 Sunrise Valley Drive >>>>> >>>>> , >>>>> Reston, >>>>> VA 20192 >>>>> | >>>>> USA >>>>> >>>>> T 703.648.6426 | F 703.648.6419 (Fax) >>>>> *cgarrity@usgs.gov <cgarrity@usgs.gov>* | *usgs.gov * >>>>> >>>>> >>>>> >>>>> -- >>>>> >>>>> >>>>> -Chris >>>>> >>>>> >>>>> *Christopher Garrity | GIScience* >>>>> USGS | 12201 Sunrise Valley Drive >>>>> , >>>>> Reston, >>>>> VA 20192 >>>>> | >>>>> USA >>>>> >>>>> T 703.648.6426 | F 703.648.6419 (Fax) >>>>> *cgarrity@usgs.gov <cgarrity@usgs.gov>* | *usgs.gov * >>>>> >>>>>

"Garrity, Christopher" <cgarrity@usgs.gov>

From: "Garrity, Christopher" <cgarrity@usgs.gov>
Sent: Tue Oct 03 2017 07:38:01 GMT-0600 (MDT)
To: "Jester, Julia" <jjester@usgs.gov>
CC: Walter Guidroz <wguidroz@usgs.gov>, David Houseknecht <dhouse@usgs.gov>, Murray Hitzman <mhitzman@usgs.gov>, Christopher Trent <ctrent@usgs.gov>
Subject: Re: New map request - ANWR
ANWR_1002_9_26_2017_Plate1.jpg
ANWR_1002_9_26_2017_Plate2.jpg
ANWR_1002_10_3_2017_Plate3.jpg
ANWR_1002_10_3_2017_Plate2.jpg
Attachments: ANWR_1002_10_3_2017_Plate1.jpg
ANWR_1002_9_26_2017_Plate3.jpg
ANWR_1002_10_3_2017_Plate3.jpg
ANWR_1002_10_3_2017_Plate2.jpg
ANWR_1002_10_3_2017_Plate1.jpg

Inline image 1

Inline image 2

Inline image 3

On Tue, Oct 3, 2017 at 7:20 AM, Jester, Julia <jjester@usgs.gov> wrote:

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Would it be possible for you to make these changes? And please let me know if anyone has concerns with removing the header/title of the map - 571-352-4677.

Thanks,

Julia

Julia Jester, Ph.D.
Congressional Liaison Officer
U.S. Geological Survey
o: 703-648-4300 c: 571-352-4677

On Tue, Sep 26, 2017 at 4:10 PM, Jester, Julia <jjester@usgs.gov> wrote:

Thank you.

Julia Jester, Ph.D.
Congressional Liaison Officer
U.S. Geological Survey
o: 703-648-4300 c: 571-352-4677

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All,
See attached.

Inline image 1

Inline image 2

Inline image 3

On Tue, Sep 26, 2017 at 3:28 PM, Walter Guidroz <wguidroz@usgs.gov> wrote:

Chris G, can you please make the requested changes?

From: Jester, Julia [mailto:jjester@usgs.gov]
Sent: Tuesday, September 26, 2017 3:25 PM
To: Christopher Garrity <cgarrity@usgs.gov>
Cc: David Houseknecht <dhouse@usgs.gov>; Walter Guidroz <wguidroz@usgs.gov>; Murray Hitzman <mhitzman@usgs.gov>; Christopher Trent <ctrent@usgs.gov>
Subject: New map request - ANWR

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x4300

In each Title at the top of the page: remove "...Boundary as Referenced in S. 49 in the 115th Congress" so the new version reads **"ANWR map prepared at the request of Chairman Murkowski, 115th Congress"** and **"Plate X - [today's date]"**

In each Explanation change the ANWR reference from "ANWR Boundary as Referenced in S. 49, introduced in the 115th Congress" to **"ANWR Boundary as requested by Chairman Murkowski, [today's date]."**

Julia Jester, Ph.D.
Congressional Liaison Officer
U.S. Geological Survey
o: 703-648-4300 c: 571-352-4677

--

-Chris

Christopher Garrity | GIScience
USGS | [12201 Sunrise Valley Drive, Reston, VA 20192 | USA](#)
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cgarrity@usgs.gov | usgs.gov

--

-Chris

Christopher Garrity | GIScience
USGS | [12201 Sunrise Valley Drive, Reston, VA 20192 | USA](#)
T 703.648.6426 | F 703.648.6419 (Fax)
cgarrity@usgs.gov | usgs.gov

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

From: "Houseknecht, David" <dhouse@usgs.gov>
Sent: Wed Oct 04 2017 13:48:34 GMT-0600 (MDT)
To: "Jester, Julia" <jjester@usgs.gov>
CC: "Garrity, Christopher" <cgarrity@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, Murray Hitzman <mhitzman@usgs.gov>, Christopher Trent <ctrent@usgs.gov>
Subject: Re: New map request - ANWR
Attachments: image.png

Sorry, this is a NO GO!

The ANWR boundary as currently recognized by the Federal Government does NOT correspond to the boundary depicted by this map, which is a proposed boundary that has not been adopted by the Federal Government.

This issue was thoroughly discussed, debated, and settled upon early last spring (as you well know). Bottom line: we cannot be put in the position of the USGS advocating for a Federal boundary change, which is what we would be doing by producing a map that does not attribute the depicted boundary to a specific external source.

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

On Wed, Oct 4, 2017 at 3:37 PM, Jester, Julia <jjester@usgs.gov> wrote:

Hi Chris,

As discussed, here is one more (final?) set of changes requested by DOI to these maps.

Title:

Line 1: **"ANWR Map - Plate X"**

Line 2: **"Map prepared at the request of the Senate Energy and Natural Resources Committee 10/4/2017"**

Explanation:

- Strike the word "explanation"
- ANWR - strike all *after* the word "boundary" so it just reads: **"ANWR boundary"** (see attached picture)

I'm at 571-352-4677, thanks.

Inline image 1

Julia Jester, Ph.D.
Congressional Liaison Officer
U.S. Geological Survey
o: 703-648-4300 c: 571-352-4677

"Jester, Julia" <jjester@usgs.gov>

From: "Jester, Julia" <jjester@usgs.gov>
Sent: Wed Oct 04 2017 17:07:54 GMT-0600 (MDT)
To: "Garrity, Christopher" <cgarrity@usgs.gov>
CC: "Houseknecht, David" <dhouse@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, Murray Hitzman <mhitzman@usgs.gov>, Christopher Trent <ctrent@usgs.gov>
Subject: Re: New map request - ANWR
Attachments: image.png

Also, two more sets of requests (to provide some options) in addition to the request below - for a total of three sets.

Option 1:

Title:

Line 1: **"ANWR Map - Plate X"**

Line 2: **"Map prepared at the request of the Senate Energy and Natural Resources Committee 10/4/2017"**

Explanation:

- Strike the word "explanation"
- ANWR box to read: **"ANWR boundary"**

Option 2:

Exactly the same as Option 1 **but without the USGS logo.**

Julia Jester, Ph.D.
Congressional Liaison Officer
U.S. Geological Survey
o: 703-648-4300 c: 571-352-4677

On Wed, Oct 4, 2017 at 4:58 PM, Jester, Julia <jjester@usgs.gov> wrote:

Chris - I've talked with our Acting Director and Dave H. and they want to go forward with changes below to map (Dave will reach out as well to you to confirm):

Title:

Line 1: "**ANWR Map - Plate X**"

Line 2: "**Map prepared at the request of the Senate Energy and Natural Resources Committee 10/4/2017**"

Explanation:

- Strike the word "explanation"
- ANWR box to read: "**ANWR boundary as described by data sources below**"

Julia Jester, Ph.D.
Congressional Liaison Officer
U.S. Geological Survey
o: 703-648-4300 c: 571-352-4677

On Wed, Oct 4, 2017 at 3:52 PM, Garrity, Christopher <cgarrity@usgs.gov> wrote:

I'll hold until further instructions.

On Wed, Oct 4, 2017 at 3:48 PM, Houseknecht, David <dhouse@usgs.gov> wrote:

Sorry, this is a NO GO!

The ANWR boundary as currently recognized by the Federal Government does NOT correspond the the boundary depicted by this map, which is a proposed boundary that has not been adopted by the Federal Government.

This issue was thoroughly discussed, debated, and settled upon early last spring (as you well know). Bottom line: we cannot be put in the position of the USGS advocating for a Federal boundary change, which is what we would be doing by producing a map that does not attribute the depicted boundary to a specific external source.

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As discussed, here is one more (final?) set of changes requested by DOI to these maps.

Title:

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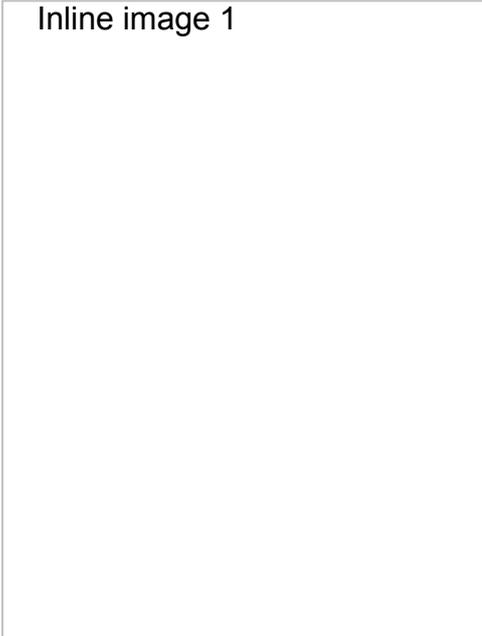
Line 2: "Map prepared at the request of the Senate Energy and Natural Resources Committee 10/4/2017"

Explanation:

- Strike the word "explanation"
- ANWR - strike all *after* the word "boundary" so it just reads: "ANWR boundary" (see attached picture)

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Inline image 1



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o: 703-648-4300 c: 571-352-4677

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From: "Houseknecht, David" <dhouse@usgs.gov>
Sent: Thu Oct 05 2017 07:01:35 GMT-0600 (MDT)
To: "Hitzman, Murray" <mhitzman@usgs.gov>

CC: "Jester, Julia" <jjester@usgs.gov>, "Garrity, Christopher" <cgarrity@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, Christopher Trent <ctrent@usgs.gov>
Subject: Re: New map request - ANWR
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Julia phoned me late yesterday - she and Bill W. came up with wording that they believe will be acceptable to DOI and not jeopardize USGS integrity. So, I have given Garrity the green light to make the revisions, but he is not in yet, so nothing has happened. However, the revisions will take only a few minutes, so the revisions will be done soon and map will be sent to everyone in this thread.

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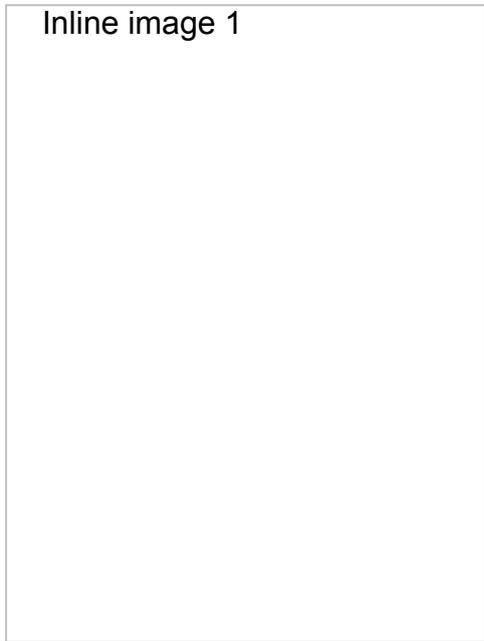
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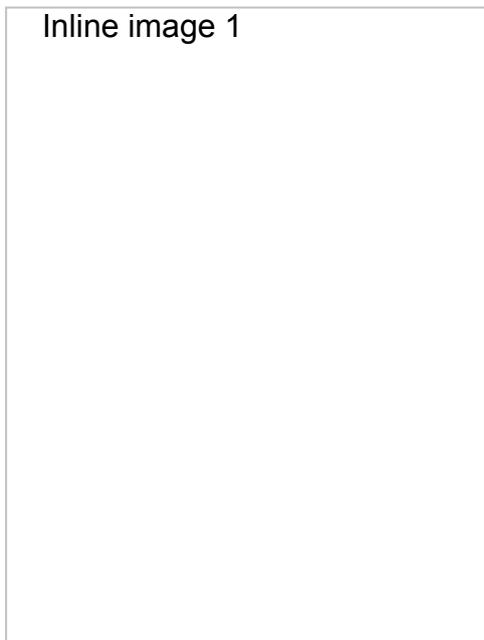
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To: "Jester, Julia" <jjester@usgs.gov>
CC: "Hitzman, Murray" <mhitzman@usgs.gov>, "Garrity, Christopher" <cgarrity@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, Christopher Trent <ctrent@usgs.gov>
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o: 703-648-4300 c: 571-352-4677

On Wed, Oct 4, 2017 at 4:58 PM, Jester, Julia <jjester@usgs.gov> wrote:
Chris - I've talked with our Acting Director and Dave H. and they want to go forward with changes below to map (Dave will reach out as well to you to confirm):

Title:

Line 1: **"ANWR Map - Plate X"**

Line 2: **"Map prepared at the request of the Senate Energy and Natural Resources Committee 10/4/2017"**

Explanation:

- Strike the word "explanation"
- ANWR box to read: **"ANWR boundary as described by data sources below"**

Julia Jester, Ph.D.
Congressional Liaison Officer
U.S. Geological Survey
o: 703-648-4300 c: 571-352-4677

On Wed, Oct 4, 2017 at 3:52 PM, Garrity, Christopher <cgarrity@usgs.gov> wrote:

I'll hold until further instructions.

On Wed, Oct 4, 2017 at 3:48 PM, Houseknecht, David <dhouse@usgs.gov> wrote:

Sorry, this is a NO GO!

The ANWR boundary as currently recognized by the Federal Government does NOT correspond to the boundary depicted by this map, which is a proposed boundary that has not been adopted by the Federal Government.

This issue was thoroughly discussed, debated, and settled upon early last spring (as you well know). Bottom line: we cannot be put in the position of the USGS advocating for a Federal boundary change, which is what we would be doing by producing a map that does not attribute the depicted boundary to a specific external source.

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

On Wed, Oct 4, 2017 at 3:37 PM, Jester, Julia <jjester@usgs.gov> wrote:

Hi Chris,

As discussed, here is one more (final?) set of changes requested by

DOI to these maps.

Title:

Line 1: **"ANWR Map - Plate X"**

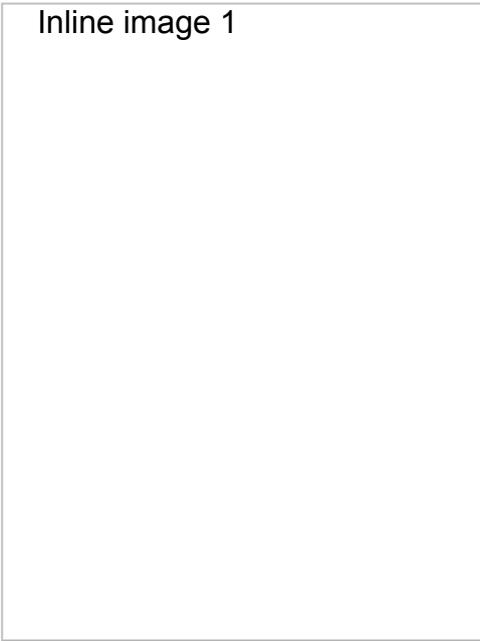
Line 2: **"Map prepared at the request of the Senate Energy and Natural Resources Committee 10/4/2017"**

Explanation:

- Strike the word "explanation"
- ANWR - strike all *after* the word "boundary" so it just reads: **"ANWR boundary"** (see attached picture)

I'm at 571-352-4677, thanks.

Inline image 1



Julia Jester, Ph.D.
Congressional Liaison Officer
U.S. Geological Survey
o: 703-648-4300 c: 571-352-4677

--

-Chris

Christopher Garrity | GIScience
USGS | [12201 Sunrise Valley Drive, Reston, VA 20192 | USA](#)
T 703.648.6426 | F 703.648.6419 (Fax)
cgarrity@usgs.gov | usgs.gov

--
Murray W. Hitzman
U. S. Geological Survey
Associate Director - Energy and Minerals
12201 Sunrise Valley Dr., MS 102
Reston, VA. 20192
703-648-4576

--

-Chris

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USGS | 12201 Sunrise Valley Drive, Reston, VA 20192 | USA
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--

-Chris

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T 703.648.6426 | F 703.648.6419 (Fax)
cgarrity@usgs.gov | usgs.gov

"Jester, Julia" <jjester@usgs.gov>

From: "Jester, Julia" <jjester@usgs.gov>
Sent: Thu Oct 05 2017 14:17:38 GMT-0600 (MDT)
To: "Garrity, Christopher" <cgarrity@usgs.gov>
CC: "Houseknecht, David" <dhouse@usgs.gov>, "Hitzman, Murray" <mhitzman@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, Christopher Trent <ctrent@usgs.gov>
Subject: Re: New map request - ANWR
Attachments: image.png

Thank you everyone. A decision was reached and B version of plates were sent to the Senator's office.

-Julia
x4300

Julia Jester, Ph.D.
Congressional Liaison Officer
U.S. Geological Survey
o: 703-648-4300 c: 571-352-4677

On Thu, Oct 5, 2017 at 9:38 AM, Garrity, Christopher <cgarrity@usgs.gov> wrote:
See 3 sets (9 images) in attached zip.

On Thu, Oct 5, 2017 at 9:34 AM, Garrity, Christopher <cgarrity@usgs.gov> wrote:

Sources:

State of Alaska shapefile > ANWR boundary (see dispute map here http://dnr.alaska.gov/mlw/hottopics/pdfs/anwr/ANWR_2017-5-2_letter.pdf)

Bureau of Land Management > Native boundaries

Bureau of Ocean Energy Management > Seaward boundary

Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community > Satellite basemap

On Thu, Oct 5, 2017 at 9:24 AM, Jester, Julia <jjester@usgs.gov> wrote:

Thanks.

Julia Jester, Ph.D.
Congressional Liaison Officer
U.S. Geological Survey
o: 703-648-4300 c: 571-352-4677

On Thu, Oct 5, 2017 at 9:24 AM, Houseknecht, David <dhouse@usgs.gov> wrote:

Yes, that is correct. The BLM data also were used for the Native boundaries.

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

On Thu, Oct 5, 2017 at 9:23 AM, Jester, Julia <jjester@usgs.gov> wrote:

Thanks - is it accurate that we used the state data just for that disputed boundary area, and then federal data (from BLM and BOEM) for the rest of the AN

Julia Jester, Ph.D.
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On Thu, Oct 5, 2017 at 9:18 AM, Houseknecht, David <dhouse@usgs.gov> wrote:

Chris Garrity has completed the revisions requested and maps will be sent to all of you in a few minutes.

Bear in mind that the new caption - boundary from sources below - is rather misleading because the sources include conflicting depictions of the boundary. The BLM GIS source depicts the boundary currently recognized by the Federal Gov't whereas the State of Alaska GIS source depicts the state's (and Congressional delegation's) perspective of the boundary. I'm not asking to revise the caption - just making sure everyone is aware.

Dave Houseknecht
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(703) 648-6466

On Thu, Oct 5, 2017 at 8:48 AM, Hitzman, Murray <mhitzman@usgs.gov> wrote:
what is status of this now? have maps gone out?

On Wed, Oct 4, 2017 at 7:20 PM, Houseknecht, David <dhouse@usgs.gov>
wrote:

Great?!?!?

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

On Wed, Oct 4, 2017 at 7:07 PM, Jester, Julia <jjester@usgs.gov> wrote:
Also, two more sets of requests (to provide some options) in addition to the
request below - for a total of three sets.

Option 1:

Title:

Line 1: **"ANWR Map - Plate X"**
Line 2: **"Map prepared at the request of the Senate Energy and Natural Resources
Committee 10/4/2017"**

Explanation:

- Strike the word "explanation"
- ANWR box to read: **"ANWR boundary"**

Option 2:

Exactly the same as Option 1 **but without the USGS logo.**

Julia Jester, Ph.D.
Congressional Liaison Officer
U.S. Geological Survey
o: 703-648-4300 c: 571-352-4677

On Wed, Oct 4, 2017 at 4:58 PM, Jester, Julia <jjester@usgs.gov> wrote:
Chris - I've talked with our Acting Director and Dave H. and they want to
go forward with changes below to map (Dave will reach out as well to
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Title:

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Explanation:

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Julia Jester, Ph.D.
Congressional Liaison Officer
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o: 703-648-4300 c: 571-352-4677

On Wed, Oct 4, 2017 at 3:52 PM, Garrity, Christopher
<cgarrity@usgs.gov> wrote:

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The ANWR boundary as currently recognized by the Federal Government does NOT correspond the the boundary depicted by this map, which is a proposed boundary that has not been adopted by the Federal Government.

This issue was thoroughly discussed, debated, and settled upon early last spring (as you well know). Bottom line: we cannot be put in the position of the USGS advocating for a Federal boundary change, which is what we would be doing by producing a map that does not attribute the depicted boundary to a specific external source.

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On Wed, Oct 4, 2017 at 3:37 PM, Jester, Julia <jjester@usgs.gov>
wrote:

Hi Chris,

As discussed, here is one more (final?) set of changes requested by DOI to these maps.

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Line 1: "**ANWR Map - Plate X**"

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- Strike the word "explanation"
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I'm at 571-352-4677, thanks.

Inline image 1

Julia Jester, Ph.D.
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o: 703-648-4300 c: 571-352-4677

--

-Chris

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--

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Reston, VA. 20192
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Conversation Contents

[don't read til Mon!] Corrected State ANWR shapefile

Attachments:

- /3. [don't read til Mon!] Corrected State ANWR shapefile/1.1 image.png
- /3. [don't read til Mon!] Corrected State ANWR shapefile/1.2 ANWR_Alaska.zip
- /3. [don't read til Mon!] Corrected State ANWR shapefile/2.1 image.png

"Trent, Christopher" <ctrent@usgs.gov>

From: "Trent, Christopher" <ctrent@usgs.gov>
Sent: Fri May 05 2017 14:34:21 GMT-0600 (MDT)
To: Chris Garrity <cgarrity@usgs.gov>
CC: "Houseknecht, David" <dhouse@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, Julia Jester <jjester@usgs.gov>
Subject: [don't read til Mon!] Corrected State ANWR shapefile
Attachments: image.png ANWR_Alaska.zip

Hi Chris,

As the subject states, I hope you had an excellent weekend!

We got another request from the committee about the ANWR map. This should not be technically challenging, but I will ask you to independently confirm some things before hitting send.

The State apparently corrected their shapefile at the western boundary. Something about their interpretation of the public land order and a little nub of land at the barrier island. In any case, the committee has told me that AK DNR has updated the shapefile at their website, <http://dnr.alaska.gov/mlw/hottopics/index.cfm>. Right now, however, it doesn't indicate any correction.

Attached is a copy of the shapefile the State shared, but please download a copy from DNR's website yourself and check that they have indeed publicly shared their corrected version. (If they have not, of course, let me know.)

Inline image 1

Our last version on the left. The state's corrected version on the right.

Lastly, update the dates of all three plates. All other caveats should not need to be changed.

Thanks!

Chris Trent
Congressional Affairs
USGS.gov
703-648-4451 (office)
571-524-1869 (mobile)

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

From: "Houseknecht, David" <dhouse@usgs.gov>
Sent: Fri May 05 2017 15:07:20 GMT-0600 (MDT)
To: "Trent, Christopher" <ctrent@usgs.gov>
CC: Chris Garrity <cgarrity@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, Julia Jester <jjester@usgs.gov>
Subject: Re: [don't read til Mon!] Corrected State ANWR shapefile
Attachments: image.png

Hmm, that's not like the state to give up part of the land they're claiming!

On Fri, May 5, 2017 at 4:34 PM, Trent, Christopher <ctrent@usgs.gov> wrote:

Hi Chris,

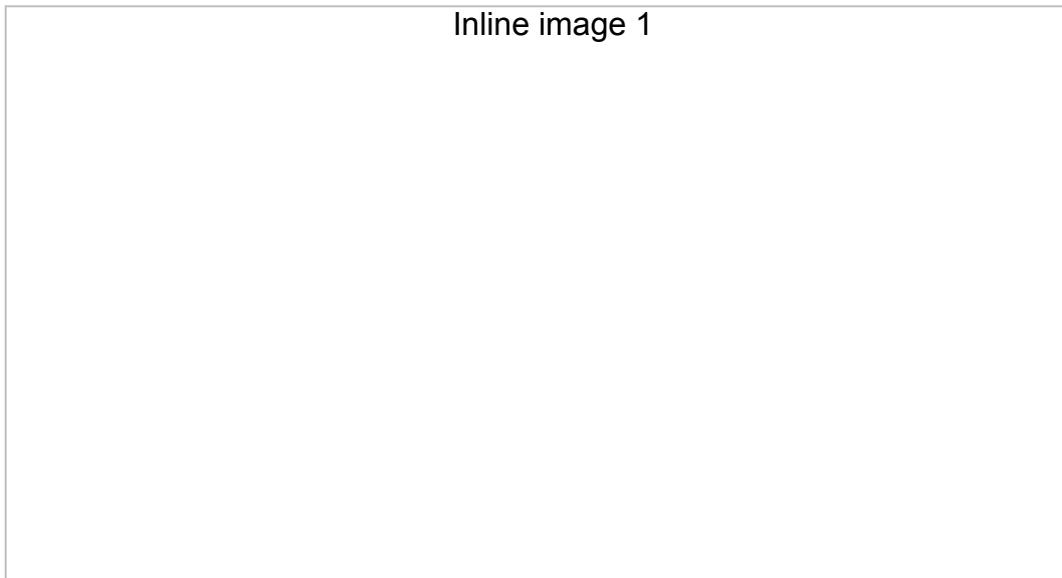
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--
Dave Houseknecht
U.S. Geological Survey
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Reston, VA 20192
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Conversation Contents

[FYI... and hopefully done!] ANWR maps

Attachments:

/4. [FYI... and hopefully done!] ANWR maps/1.1 ANWR_1002_4_10_2017_Plate2.jpg
/4. [FYI... and hopefully done!] ANWR maps/1.2 ANWR_1002_4_10_2017_Plate1.jpg
/4. [FYI... and hopefully done!] ANWR maps/1.3 ANWR_1002_4_10_2017_Plate3.jpg
/4. [FYI... and hopefully done!] ANWR maps/2.1 ANWR_1002_4_10_2017_Plate3.jpg
/4. [FYI... and hopefully done!] ANWR maps/2.2 ANWR_1002_4_10_2017_Plate1.jpg
/4. [FYI... and hopefully done!] ANWR maps/2.3 ANWR_1002_4_10_2017_Plate2.jpg
/4. [FYI... and hopefully done!] ANWR maps/3.1 ANWR_1002_4_10_2017_Plate2.jpg
/4. [FYI... and hopefully done!] ANWR maps/3.2 ANWR_1002_4_10_2017_Plate1.jpg
/4. [FYI... and hopefully done!] ANWR maps/3.3 ANWR_1002_4_10_2017_Plate3.jpg
/4. [FYI... and hopefully done!] ANWR maps/3.4 ANWR_1002_4_10_2017_Plate1.jpg
/4. [FYI... and hopefully done!] ANWR maps/4.1 ANWR_1002_4_10_2017_Plate2.jpg
/4. [FYI... and hopefully done!] ANWR maps/4.2 ANWR_1002_4_10_2017_Plate3.jpg
/4. [FYI... and hopefully done!] ANWR maps/4.3 ANWR_1002_4_10_2017_Plate1.jpg
/4. [FYI... and hopefully done!] ANWR maps/4.4 ANWR_1002_4_10_2017_Plate1.jpg

"Trent, Christopher" <ctrent@usgs.gov>

From: "Trent, Christopher" <ctrent@usgs.gov>
Sent: Mon Apr 10 2017 12:03:36 GMT-0600 (MDT)
To: Bill Werkheiser <whwerkhe@usgs.gov>, David Applegate <applegate@usgs.gov>, Judy Nowakowski <jnowakowski@usgs.gov>
Julia Jester <jjester@usgs.gov>, Barbara Wainman <bwainman@usgs.gov>, Joanne Taylor <jctaylor@usgs.gov>,
CC: Walter Guidroz <wguidroz@usgs.gov>, Murray Hitzman <mhitzman@usgs.gov>, "Houseknecht, David" <dhouse@usgs.gov>, Chris Garrity <cgarrity@usgs.gov>, Jeff Onizuk <jonizuk@usgs.gov>
Subject: [FYI... and hopefully done!] ANWR maps
ANWR_1002_4_10_2017_Plate2.jpg
Attachments: ANWR_1002_4_10_2017_Plate1.jpg
ANWR_1002_4_10_2017_Plate3.jpg

FYI,

The below maps were sent to the Senate Energy Committee. (Note: Annie Hoefler's on vacation this week, so I don't expect to hear any confirmation from her soon.)

Verbally, I think this is done. All the additional changes since we brokered the decision on the use of the state's boundary data have been cosmetic and non-substantive. The most recent change confirmed the use of the State boundary in plate 3 (the detail of the native lands).

As a reminder, I've asked staff to keep me in the loop on when this map might be deployed by the committee, presumably when they consider Sen. Murkowski's ANWR legislation. Until that

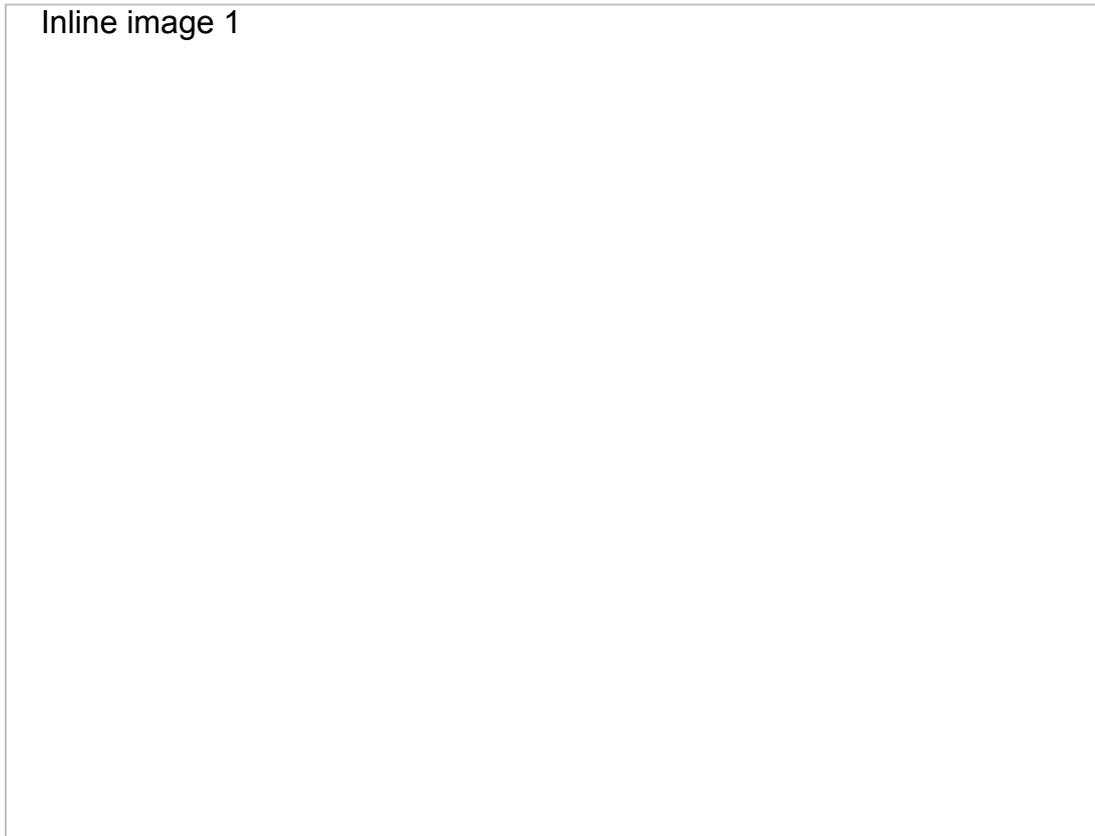
happens, these maps haven't been publicized. Like any other information we would provide, I recommend that these should be treated as the committee's to disclose.

I haven't cc'ed anyone outside of the USGSers who were involved in discussing and developing these maps. I'll leave it to Julia and Barbara to inform DOI and others.

Best,

Chris Trent
Congressional Affairs
USGS.gov
703-648-4451 (office)
571-524-1869 (mobile)

Inline image 1



Inline image 2

Inline image 3

"Trent, Christopher" <ctrent@usgs.gov>

From: "Trent, Christopher" <ctrent@usgs.gov>
Sent: Tue Apr 11 2017 08:10:26 GMT-0600 (MDT)

To: Chris Garrity <cgarrity@usgs.gov>
CC: Walter Guidroz <wguidroz@usgs.gov>, "Houseknecht, David" <dhouse@usgs.gov>
Subject: Fwd: ANWR maps
Attachments: ANWR_1002_4_10_2017_Plate3.jpg
ANWR_1002_4_10_2017_Plate1.jpg
ANWR_1002_4_10_2017_Plate2.jpg

Chris,

Minor edit: the 1002 hashmarks overlay we added to a subset of the native lands in plate 3 need to be included in plate 1, too, so they're presented the same.

(I thought we had done that already... maybe I'm misremembering.)

Chris Trent
Congressional Affairs
USGS.gov
703-648-4451 (office)
571-524-1869 (mobile)

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

From: **Trent, Christopher** <ctrent@usgs.gov>
Date: Mon, Apr 10, 2017 at 12:53 PM
Subject: ANWR maps
To: "Hoefler, Annie (Energy)" <Annie_Hoefler@energy.senate.gov>

All three plates, dated to today. (If you're not at a computer, I can send this to Chuck, too.)

Inline image 1



Inline image 2

Inline image 3

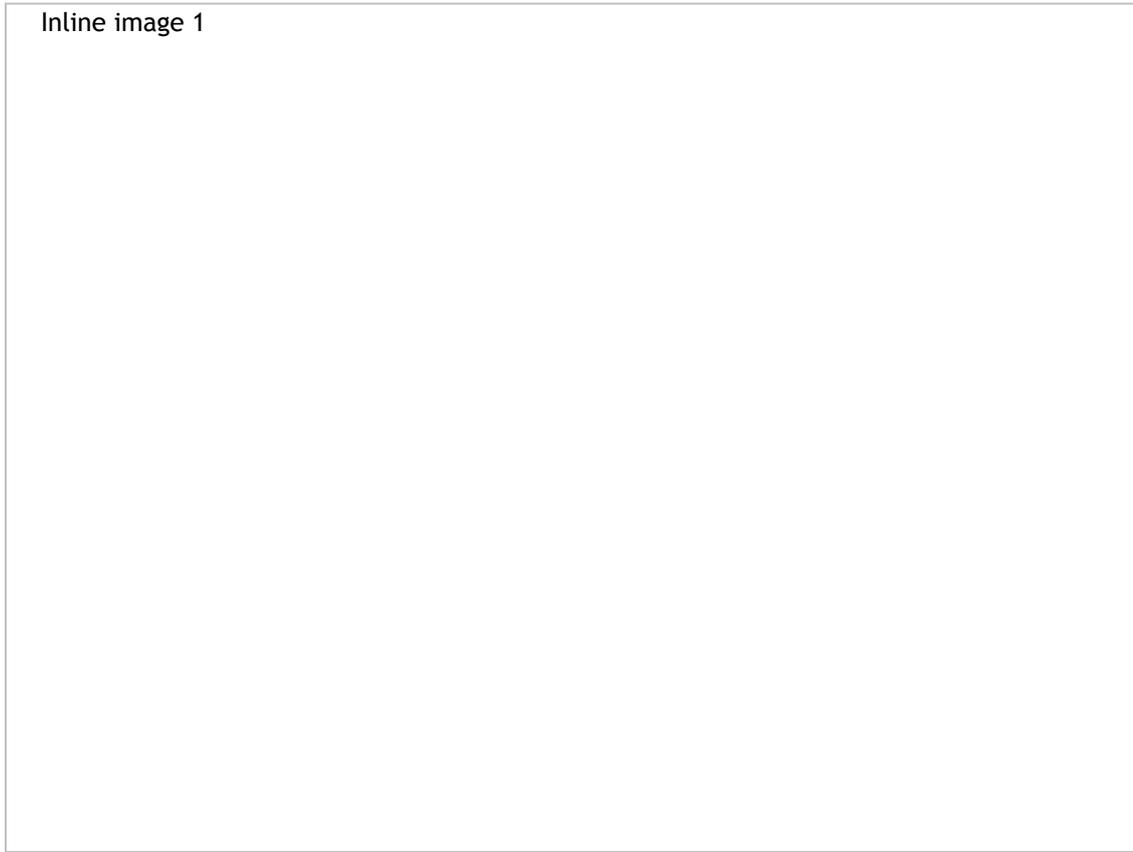
Chris Trent
Congressional Affairs
USGS.gov
703-648-4451 (office)
571-524-1869 (mobile)

"Garrity, Christopher" <cgarrity@usgs.gov>

From: "Garrity, Christopher" <cgarrity@usgs.gov>
Sent: Tue Apr 11 2017 08:42:39 GMT-0600 (MDT)
To: "Trent, Christopher" <ctrent@usgs.gov>
CC: Walter Guidroz <wguidroz@usgs.gov>, "Houseknecht, David" <dhouse@usgs.gov>
Subject: Re: ANWR maps
ANWR_1002_4_10_2017_Plate2.jpg
ANWR_1002_4_10_2017_Plate1.jpg
Attachments: ANWR_1002_4_10_2017_Plate3.jpg
ANWR_1002_4_10_2017_Plate1.jpg

Strange...we do have them. See attached.

Inline image 1



On Tue, Apr 11, 2017 at 10:10 AM, Trent, Christopher <ctrent@usgs.gov> wrote:
Chris,

Minor edit: the 1002 hashmarks overlay we added to a subset of the native lands in plate 3 need to be included in plate 1, too, so they're presented the same.

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From: **Trent, Christopher** <ctrent@usgs.gov>

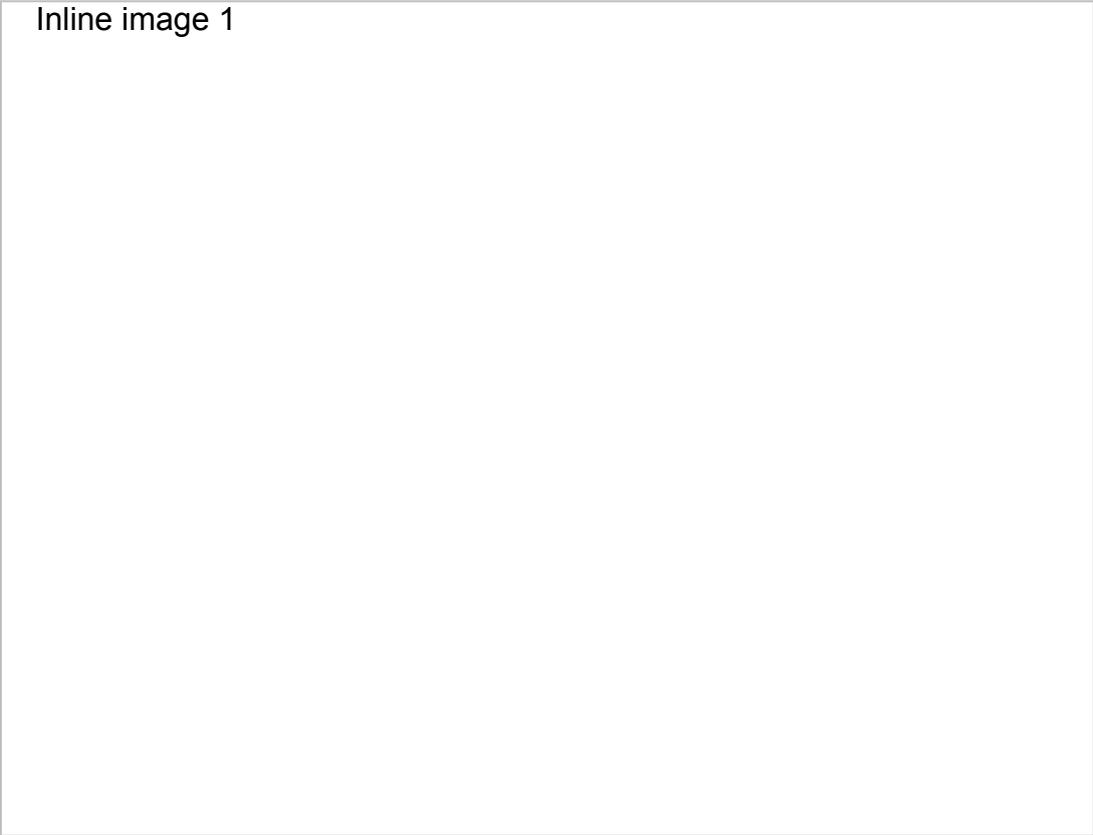
Date: Mon, Apr 10, 2017 at 12:53 PM

Subject: ANWR maps

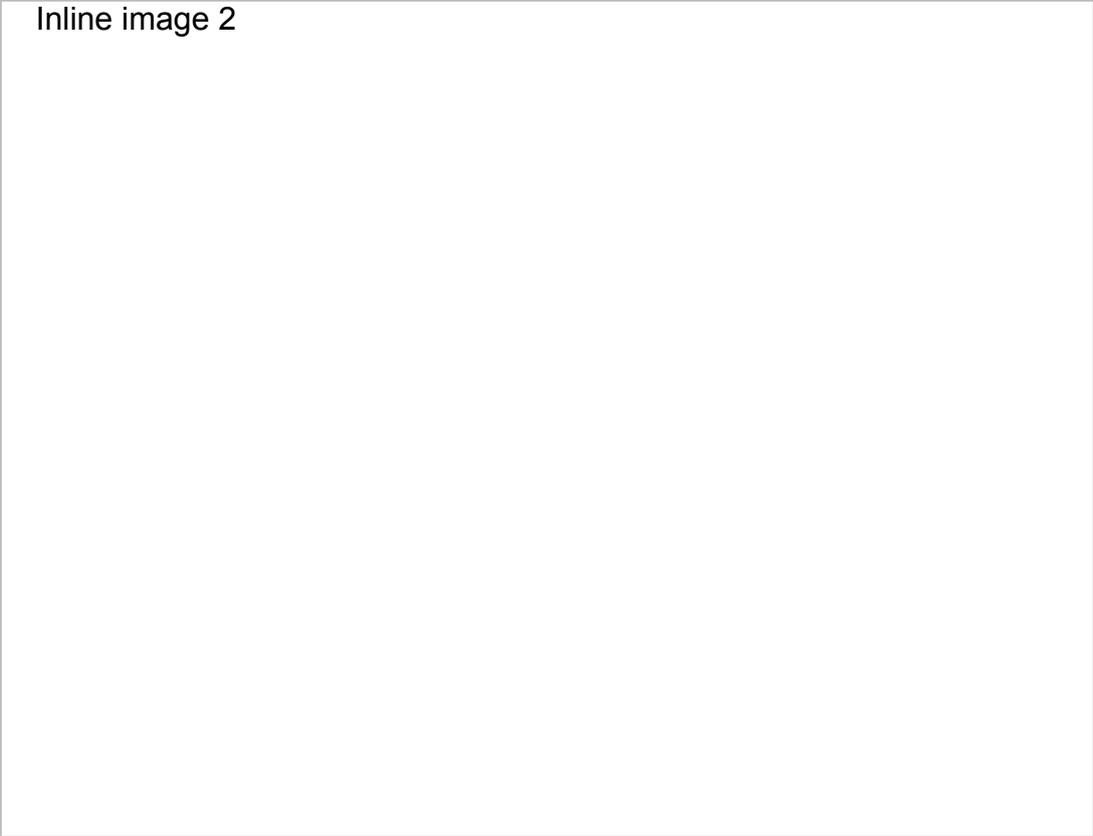
To: "Hoefler, Annie (Energy)" <Annie_Hoefler@energy.senate.gov>

All three plates, dated to today. (If you're not at a computer, I can send this to Chuck, too.)

Inline image 1

A large rectangular placeholder box with a thin black border, intended for an image that failed to load. The text "Inline image 1" is positioned in the top-left corner of the box.

Inline image 2

A large rectangular placeholder box with a thin black border, intended for an image that failed to load. The text "Inline image 2" is positioned in the top-left corner of the box.

Inline image 3

Chris Trent
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571-524-1869 (mobile)

--

-Chris

Christopher Garrity | GIScience
USGS | 12201 Sunrise Valley Drive, Reston, VA 20192 | USA
T 703.648.6426 | F 703.648.6419 (Fax)
cgarrity@usgs.gov | usgs.gov

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From: "Trent, Christopher" <ctrent@usgs.gov>
Sent: Tue Apr 11 2017 08:51:51 GMT-0600 (MDT)
To: "Garrity, Christopher" <cgarrity@usgs.gov>
CC: Walter Guidroz <wguidroz@usgs.gov>, "Houseknecht, David" <dhouse@usgs.gov>
Subject: Re: ANWR maps
ANWR_1002_4_10_2017_Plate2.jpg
ANWR_1002_4_10_2017_Plate3.jpg
ANWR_1002_4_10_2017_Plate1.jpg
ANWR_1002_4_10_2017_Plate1.jpg

Attachments:

I thought so! Thanks, Chris.

Chris Trent
Congressional Affairs
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703-648-4451 (office)
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On Tue, Apr 11, 2017 at 10:42 AM, Garrity, Christopher <cgarrity@usgs.gov> wrote:
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Inline image 1



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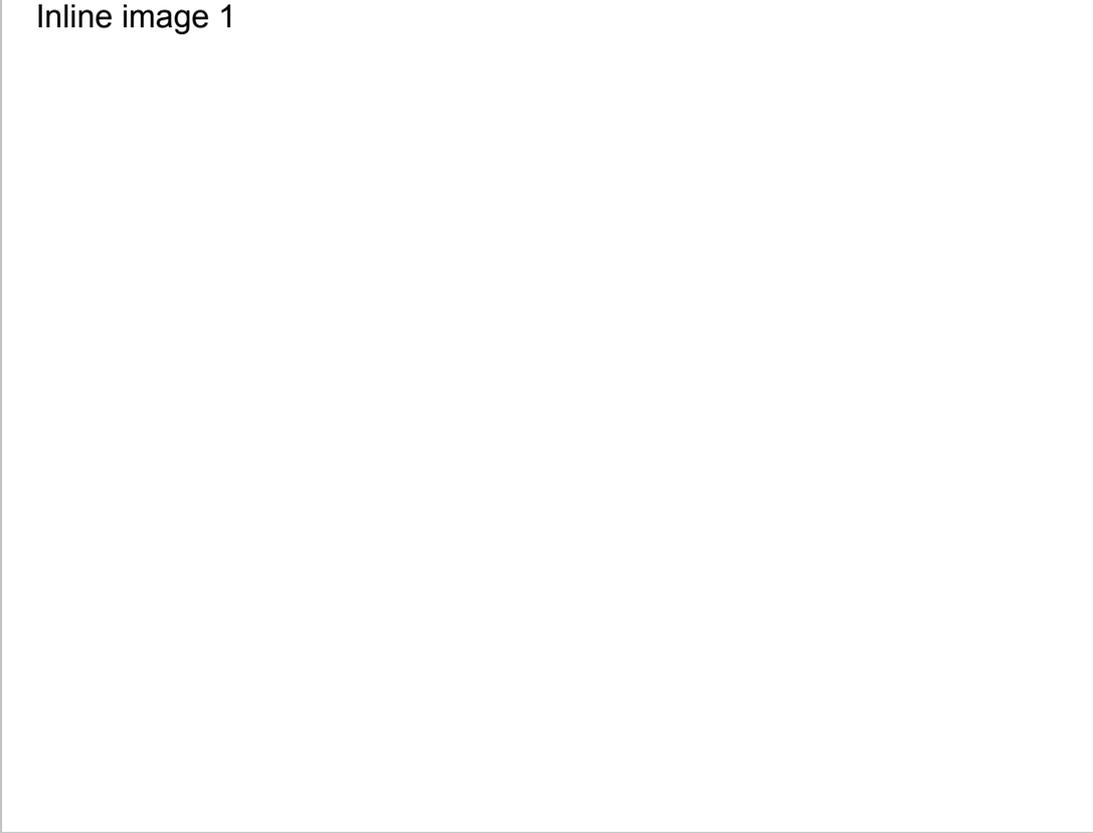
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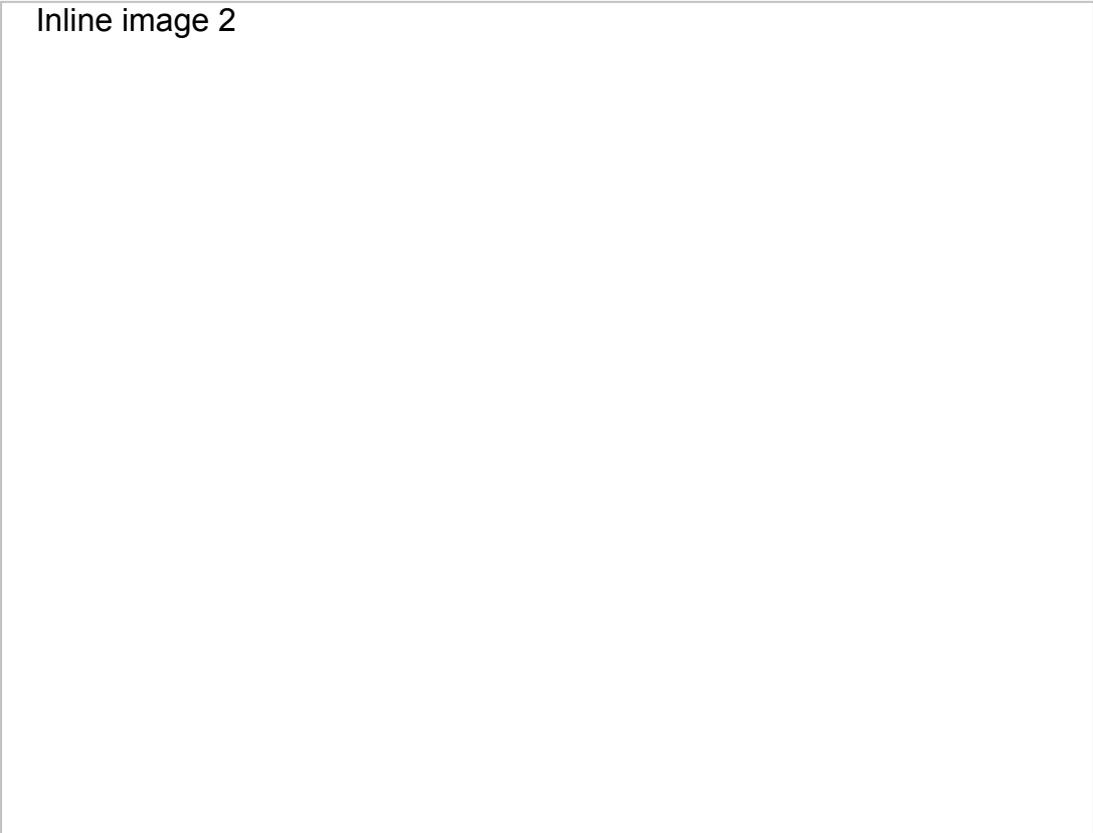
From: **Trent, Christopher** <ctrent@usgs.gov>
Date: Mon, Apr 10, 2017 at 12:53 PM
Subject: ANWR maps
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Inline image 1



Inline image 2



Inline image 3

Chris Trent
Congressional Affairs
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-Chris

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cgarrity@usgs.gov | [usgs.gov](https://www.usgs.gov)

Conversation Contents

[status & update] ANWR map

Attachments:

/5. [status & update] ANWR map/1.1 ANWR_1002_3_20_2017_NATIVE.jpg
/5. [status & update] ANWR map/2.1 ANWR_1002_3_20_2017_NATIVE.jpg
/5. [status & update] ANWR map/2.2 2007 Mars & Houseknecht Coastal-Erosion.pdf
/5. [status & update] ANWR map/3.1 ANWR_1002_3_20_2017_NATIVE.jpg
/5. [status & update] ANWR map/4.1 ANWR_1002_3_20_2017_NATIVE.jpg
/5. [status & update] ANWR map/5.1 ANWR_1002_3_20_2017_NATIVE.jpg
/5. [status & update] ANWR map/6.1 ANWR_1002_3_20_2017_NATIVE.jpg
/5. [status & update] ANWR map/7.1 ANWR_1002_4_10_2017_Plate1.jpg
/5. [status & update] ANWR map/7.2 ANWR_1002_3_20_2017_NATIVE.jpg
/5. [status & update] ANWR map/7.3 ANWR_1002_4_10_2017_Plate2.jpg
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/5. [status & update] ANWR map/8.4 ANWR_1002_4_10_2017_Plate1.jpg

"Trent, Christopher" <ctrent@usgs.gov>

From: "Trent, Christopher" <ctrent@usgs.gov>
Sent: Fri Mar 31 2017 10:57:46 GMT-0600 (MDT)
To: "Garrity, Christopher" <cgarrity@usgs.gov>
Walter Guidroz <wguidroz@usgs.gov>, "Houseknecht, David"
CC: <dhouse@usgs.gov>, USGS OCAP Congressional Affairs
<cong_liaison@usgs.gov>
Subject: [status & update] ANWR map
Attachments: ANWR_1002_3_20_2017_NATIVE.jpg

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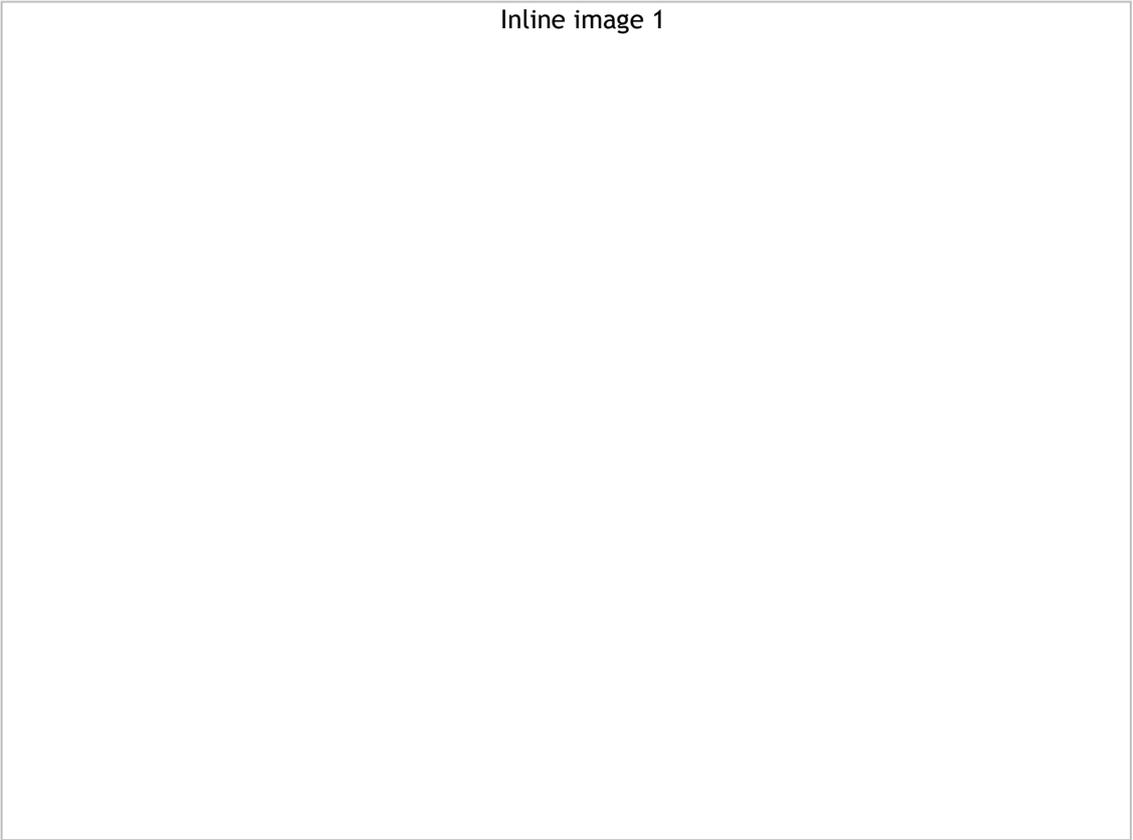
Chris Trent
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571-524-1869 (mobile)

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

From: "Houseknecht, David" <dhouse@usgs.gov>
Sent: Fri Mar 31 2017 11:04:57 GMT-0600 (MDT)
To: "Trent, Christopher" <ctrent@usgs.gov>
CC: "Garrity, Christopher" <cgarrity@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, USGS OCAP Congressional Affairs <cong_liaison@usgs.gov>
Subject: Re: [status & update] ANWR map
Attachments: ANWR_1002_3_20_2017_NATIVE.jpg 2007 Mars & Houseknecht Coastal-Erosion.pdf

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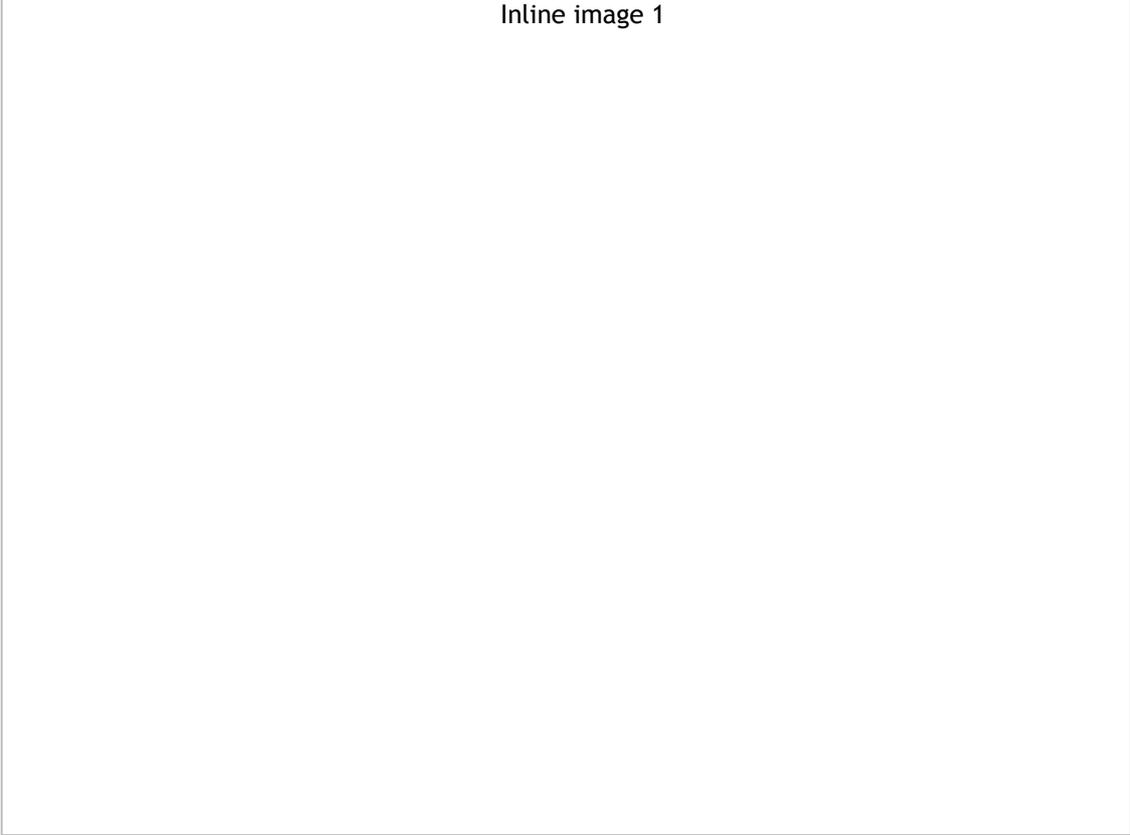
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"Trent, Christopher" <ctrent@usgs.gov>

From: "Trent, Christopher" <ctrent@usgs.gov>
Sent: Fri Mar 31 2017 11:22:10 GMT-0600 (MDT)
To: "Houseknecht, David" <dhouse@usgs.gov>
"Garrity, Christopher" <cgarrity@usgs.gov>, Walter Guidroz
<wguidroz@usgs.gov>, USGS OCAP Congressional Affairs
<cong_liaison@usgs.gov>
CC:
Subject: Re: [status & update] ANWR map
Attachments: ANWR_1002_3_20_2017_NATIVE.jpg

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From: "Garrity, Christopher" <cgarrity@usgs.gov>
Sent: Fri Mar 31 2017 14:42:41 GMT-0600 (MDT)
To: "Trent, Christopher" <ctrent@usgs.gov>
CC: "Houseknecht, David" <dhouse@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, USGS OCAP Congressional Affairs <cong_liaison@usgs.gov>
Subject: Re: [status & update] ANWR map
Attachments: ANWR_1002_3_20_2017_NATIVE.jpg

Chris-
EROS would definitely be a good place to start. If you hit a wall with them for some reason I can grab a set of cloud free Landsat scenes over time and animate the temporal changes in the area. Cheers!

On Fri, Mar 31, 2017 at 1:22 PM, Trent, Christopher <ctrent@usgs.gov> wrote:
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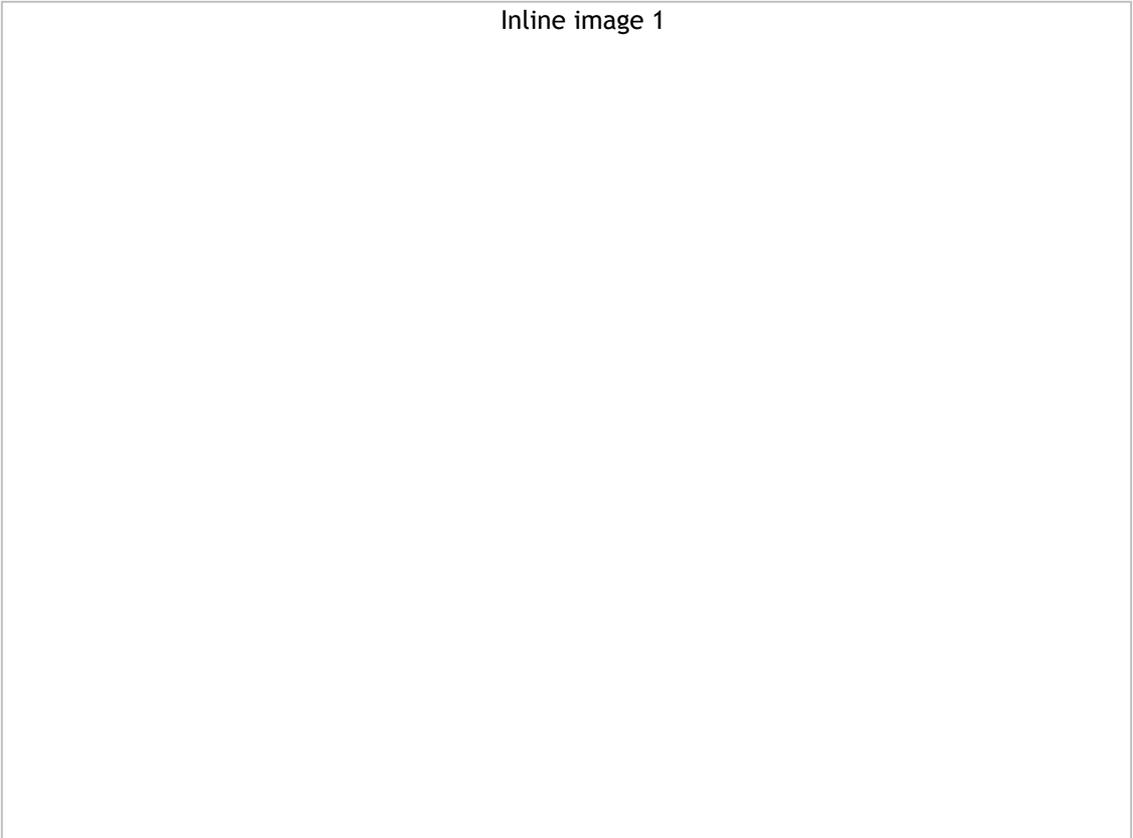
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From: "Trent, Christopher" <ctrent@usgs.gov>
Sent: Fri Apr 07 2017 12:03:23 GMT-0600 (MDT)
To: "Houseknecht, David" <dhouse@usgs.gov>
CC: "Garrity, Christopher" <cgarrity@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, USGS OCAP Congressional Affairs <cong_liaison@usgs.gov>
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<https://www.congress.gov/bill/115th-congress/house-bill/49>

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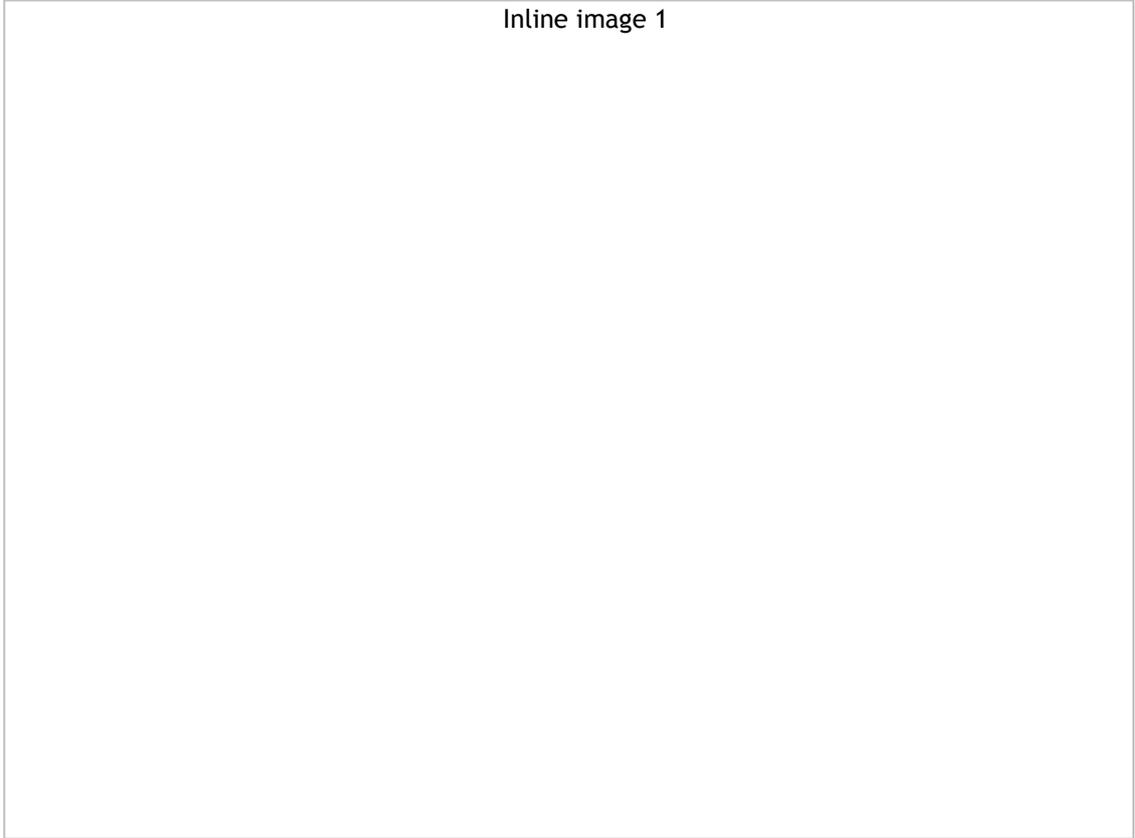
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From: "Garrity, Christopher" <cgarrity@usgs.gov>
Sent: Mon Apr 10 2017 10:15:55 GMT-0600 (MDT)
To: "Houseknecht, David" <dhouse@usgs.gov>
CC: Walter Guidroz <wguidroz@usgs.gov>
Subject: Re: [status & update] ANWR map
ANWR_1002_4_10_2017_Plate1.jpg
ANWR_1002_3_20_2017_NATIVE.jpg
Attachments: ANWR_1002_4_10_2017_Plate2.jpg
ANWR_1002_4_10_2017_Plate3.jpg

See attached. If all looks OK I'll send the "final" 3 plates.

Inline image 2



Inline image 1

Inline image 3

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If so, however, don't go out of your way. They have no particular constraints or interests; I think they were just curious.

Thanks!

Chris Trent
Congressional Affairs
USGS.gov
703-648-4451 (office)
571-524-1869 (mobile)

On Tue, Mar 21, 2017 at 4:46 PM, Houseknecht, David <dhouse@usgs.gov> wrote:

Thanks, Chris!

On Tue, Mar 21, 2017 at 8:58 AM, Garrity, Christopher <cgarrity@usgs.gov> wrote:

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Attached is the first cut. Note that the ANWR boundary delivered to us by the State deviates from the BLM boundary in this area. The BLM boundary is coincident with the native land areas and was used for this inset map. I imagine the title will have to change to reflect this? Send me any edits...I'll be in all day.

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T 703.648.6426 | F 703.648.6419 (Fax)
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"Garrity, Christopher" <cgarrity@usgs.gov>

From: "Garrity, Christopher" <cgarrity@usgs.gov>
Sent: Mon Apr 10 2017 10:48:43 GMT-0600 (MDT)
To: "Trent, Christopher" <ctrent@usgs.gov>
Walter Guidroz <wguidroz@usgs.gov>, "Houseknecht, David" <dhouse@usgs.gov>, USGS OCAP Congressional Affairs <cong_liaison@usgs.gov>
CC:
Subject: Re: [status & update] ANWR map
ANWR_1002_3_20_2017_NATIVE.jpg
Attachments: ANWR_1002_4_10_2017_Plate2.jpg
ANWR_1002_4_10_2017_Plate3.jpg
ANWR_1002_4_10_2017_Plate1.jpg

See attached...

On Fri, Apr 7, 2017 at 1:47 PM, Trent, Christopher <ctrent@usgs.gov> wrote:

We finally have confirmation on the state ANWR boundary in the detail plate: the direction is to go ahead with the state ANWR boundary data (not the BLM data), despite the apparent variances. So...

1. Produce the detail plate of the Alaska Native lands with the state's data.
2. Include the reference frame for plate 3 on plate 1.
3. Synchronize the dates on the three plates.

And from the staffer's mouth: she thinks we're done. *knock-on-wood* I asked her to give me a heads up when they do finally publish the map but she had no time frame on that.

This should be the last email you get from me on this subject!

Everyone have a wonderful weekend.

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Conversation Contents

Map 2

Attachments:

/6. Map 2/1.1 ANWR_1002_03_08_2017F_2.pdf
/6. Map 2/3.1 ANWR_1002_03_08_2017F_2-01.jpg
/6. Map 2/4.1 image.png
/6. Map 2/5.1 image002.png
/6. Map 2/6.1 image002.png
/6. Map 2/7.1 image002.png
/6. Map 2/8.1 image002.png
/6. Map 2/8.2 ANWR_1002_17_03_08_G2-01.jpg

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

From: "Houseknecht, David" <dhouse@usgs.gov>
Sent: Wed Mar 08 2017 09:09:41 GMT-0700 (MST)
To: Christopher Trent <ctrent@usgs.gov>, Christopher Garrity <cgarrity@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, Julia Jester <jjester@usgs.gov>
Subject: Map 2
Attachments: ANWR_1002_03_08_2017F_2.pdf

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"Trent, Christopher" <ctrent@usgs.gov>

From: "Trent, Christopher" <ctrent@usgs.gov>
Sent: Wed Mar 08 2017 09:44:13 GMT-0700 (MST)
To: "Houseknecht, David" <dhouse@usgs.gov>
CC: Christopher Garrity <cgarrity@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, Julia Jester <jjester@usgs.gov>

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

From: "Houseknecht, David" <dhouse@usgs.gov>
Sent: Wed Mar 08 2017 09:47:54 GMT-0700 (MST)
To: "Trent, Christopher" <ctrent@usgs.gov>
CC: Christopher Garrity <cgarrity@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, Julia Jester <jjester@usgs.gov>
Subject: Re: Map 2
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Sent: Wed Mar 08 2017 09:50:26 GMT-0700 (MST)
To: "Houseknecht, David" <dhouse@usgs.gov>
CC: Christopher Garrity <cgarrity@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, Julia Jester <jjester@usgs.gov>
Subject: Re: Map 2
Attachments: image.png

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Inline image 1

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Walter Guidroz <wguidroz@usgs.gov>

From: Walter Guidroz <wguidroz@usgs.gov>
Sent: Wed Mar 08 2017 10:02:00 GMT-0700 (MST)
To: Christopher Trent <ctrent@usgs.gov>, David Houseknecht <dhouse@usgs.gov>
CC: Christopher Garrity <cgarrity@usgs.gov>, Julia Jester <jjester@usgs.gov>
Subject: RE: Map 2
Attachments: image002.png

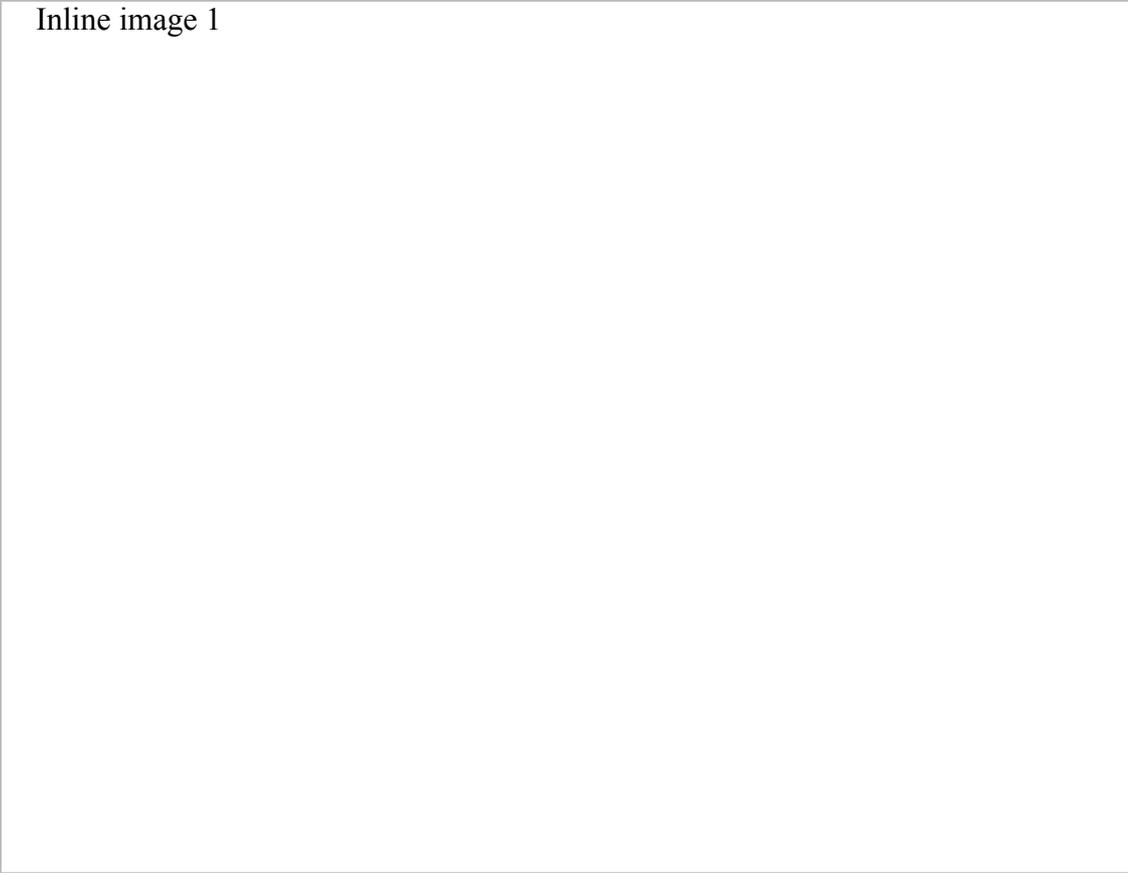
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From: Trent, Christopher [mailto:ctrent@usgs.gov]
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From: "Trent, Christopher" <ctrent@usgs.gov>
Sent: Wed Mar 08 2017 10:05:16 GMT-0700 (MST)
To: Walter Guidroz <wguidroz@usgs.gov>
CC: David Houseknecht <dhouse@usgs.gov>, Christopher Garrity <cgarrity@usgs.gov>, Julia Jester <jjester@usgs.gov>
Subject: Re: Map 2
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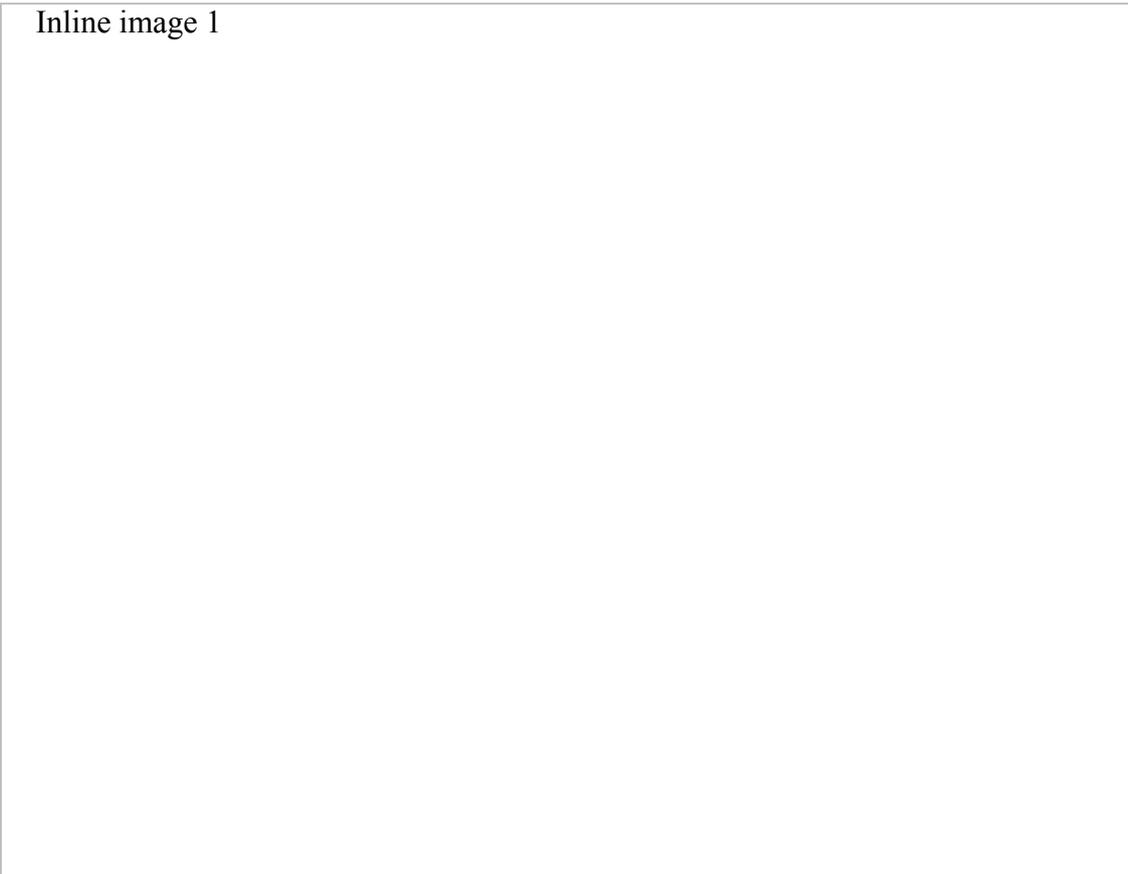
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To: David Houseknecht <dhouse@usgs.gov>
CC: Christopher Garrity <cgarrity@usgs.gov>, Julia Jester <jjester@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>
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To: Houseknecht, David

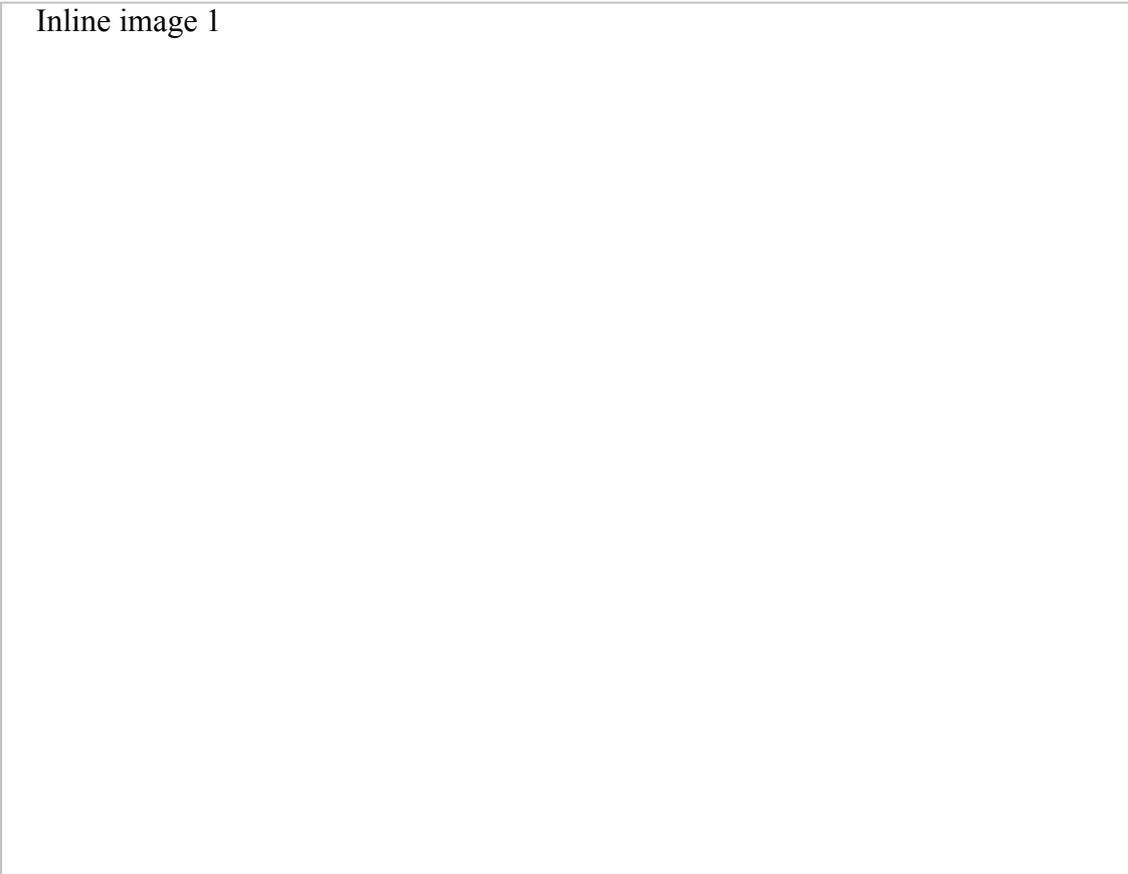
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Conversation Contents

More map revisions

Attachments:

17. More map revisions/5.1 original native lands.pdf

"Trent, Christopher" <ctrent@usgs.gov>

From: "Trent, Christopher" <ctrent@usgs.gov>
Sent: Tue Mar 07 2017 11:23:43 GMT-0700 (MST)
To: Christopher Garrity <cgarrity@usgs.gov>
CC: Walter Guidroz <wguidroz@usgs.gov>, "Houseknecht, David" <dhouse@usgs.gov>, Julia Jester <jjester@usgs.gov>
Subject: More map revisions

Hi Chris,

Just checking to see if you're around this week or out. We got back additional modifications of the ANWR map, but I want to go over them with you before we commit to anything.

(Walter, if Chris is out this week, just let me know. Thanks!)

Chris Trent
Congressional Affairs
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571-524-1869 (mobile)

"Garrity, Christopher" <cgarrity@usgs.gov>

From: "Garrity, Christopher" <cgarrity@usgs.gov>
Sent: Tue Mar 07 2017 11:27:02 GMT-0700 (MST)
To: "Trent, Christopher" <ctrent@usgs.gov>
CC: Walter Guidroz <wguidroz@usgs.gov>, "Houseknecht, David" <dhouse@usgs.gov>, Julia Jester <jjester@usgs.gov>
Subject: Re: More map revisions

Hi Chris-

I'm at a conference in Palm Springs (back in the office Friday AM) but if you let me know the changes I can have someone from Reston send me the latest version and make the changes offsite.

On Tue, Mar 7, 2017 at 1:23 PM, Trent, Christopher <ctrent@usgs.gov> wrote:

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

From: "Houseknecht, David" <dhouse@usgs.gov>
Sent: Tue Mar 07 2017 11:27:31 GMT-0700 (MST)
To: "Trent, Christopher" <ctrent@usgs.gov>
CC: Christopher Garrity <cgarrity@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, Julia Jester <jjester@usgs.gov>
Subject: Re: More map revisions

Chris is on travel this week, but will be checking email and has his laptop with him. He should respond sometime today, but is 3 time zones away, so don't know when.

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"Trent, Christopher" <ctrent@usgs.gov>

From: "Trent, Christopher" <ctrent@usgs.gov>
Sent: Tue Mar 07 2017 11:41:10 GMT-0700 (MST)
To: "Garrity, Christopher" <cgarrity@usgs.gov>
CC: Walter Guidroz <wguidroz@usgs.gov>, "Houseknecht, David" <dhouse@usgs.gov>, Julia Jester <jjester@usgs.gov>
Subject: Re: More map revisions

Well, maybe.

One change is cosmetic, but the other is substantive.

The committee correctly pointed out that the legal description of the Coastal Plain (i.e. the 1002 Area) expressly excludes most of the Native allotments... but not all of them. (The legal description is [here](#). You can see the various jogs that make up about two-thirds of the description.) They'd like that represented on the map and they suggested extending the hatchmarks we have indicating the 1002 Area over the portion of Native allotments not excluded, basically the boot at the southeast.

...but, do you know if the data behind the 1002 Area from BLM is a polygon that does reflect the legal description, or just an area created by the boundary between it and the wilderness? As earlier, asking you to present extant data is one thing; I want to avoid asking you to create new data.

The cosmetic change is just a request to change "Sen. Murkowski" to "Chairman Murkowski." (I know, I know...)

If you do think the substantive edit is easy enough, I'm happy to work with whomever is around to make sure it gets processed. But I defer to you on whether that edit is in fact easy.

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

From: "Houseknecht, David" <dhouse@usgs.gov>
Sent: Tue Mar 07 2017 12:33:50 GMT-0700 (MST)
To: "Trent, Christopher" <ctrent@usgs.gov>
CC: "Garrity, Christopher" <cgarrity@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, Julia Jester <jjester@usgs.gov>
Subject: Re: More map revisions
Attachments: original native lands.pdf

I had someone break into my office and scan a map from the DOI Rpt to Congress - attached. This shows the original Native selections prior to the additions made later.

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Dave Houseknecht
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Conversation Contents

Plate 1 & 2 drafts

Attachments:

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/8. Plate 1 & 2 drafts/1.3 ANWR_1002_2_24_2017B.jpg
/8. Plate 1 & 2 drafts/1.4 ANWR_1002_2_24_2017A.jpg
/8. Plate 1 & 2 drafts/2.1 ANWR_1002_2_24_2017A.jpg
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/8. Plate 1 & 2 drafts/13.1 ANWR_1002_2_28_2017_PLATE1_DRAFT.jpg
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/8. Plate 1 & 2 drafts/13.3 image002.jpg
/8. Plate 1 & 2 drafts/13.4 image004.jpg

"Garrity, Christopher" <cgarrity@usgs.gov>

From: "Garrity, Christopher" <cgarrity@usgs.gov>
Sent: Fri Feb 24 2017 14:48:25 GMT-0700 (MST)
To: "Trent, Christopher" <ctrent@usgs.gov>, David Houseknecht <dhouse@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>
Subject: Plate 1 & 2 drafts
Attachments: ANWR_1002_2_24_2017B.jpg ANWR_1002_2_24_2017A.jpg
ANWR_1002_2_24_2017B.jpg ANWR_1002_2_24_2017A.jpg

Guys see attached. Send me any changes for Monday. Cheers!

Inline image 1



Inline image 2

--

-Chris

Christopher Garrity | GIScience

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T 703.648.6426 | F 703.648.6419 (Fax)

cgarrity@usgs.gov | usgs.gov

"Trent, Christopher" <ctrent@usgs.gov>

From: "Trent, Christopher" <ctrent@usgs.gov>
Sent: Tue Feb 28 2017 08:47:19 GMT-0700 (MST)
To: "Garrity, Christopher" <cgarrity@usgs.gov>
CC: David Houseknecht <dhouse@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, Julia Jester <jjester@usgs.gov>
Subject: Re: Plate 1 & 2 drafts
Attachments: ANWR_1002_2_24_2017A.jpg ANWR_1002_2_24_2017B.jpg

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- Add labels for Canning and Staines rivers.

As we discussed, these probably only work aesthetically on the inset plate. Also, please verify that these two streams are indeed referenced in the NHD. Secondly, please verify whether in the NHD these two streams are connected. You may draft the map if you'd like, but I would actually like to discuss what you find first because what you find may require additional discussion with the Committee and other leadership. The stream lines are not actually what the Committee is looking for, but rather the two labels. If it's your opinion that this would be better addressed without reference to the NHD, let's discuss that.

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On Fri, Feb 24, 2017 at 4:57 PM, Trent, Christopher <ctrent@usgs.gov> wrote:
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Sent: Tue Feb 28 2017 08:56:42 GMT-0700 (MST)
To: "Trent, Christopher" <ctrent@usgs.gov>
CC: "Garrity, Christopher" <cgarrity@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, Julia Jester <jjester@usgs.gov>
Subject: Re: Plate 1 & 2 drafts
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The latest request (before this email from Trent) for Garrity to label both the Staines and Canning Rivers again introduces an interesting issue. The USGS NHD coverage has the Staines River labeled as a discrete river (which is appropriate as it is mainly a single channel), but the label for the Canning River is an "artificial path" because of the river has multiple main courses, all of which are braided. If that artificial path label becomes part of the proposed legislation, the USGS may have some explaining to do. Therefore, I suggest that someone in an upper level of the Water Discipline be consulted on this before the map is delivered.

FYI, see here for definition of "artificial path" - <https://nhd.usgs.gov/FeatureDirectory.pdf>

On Tue, Feb 28, 2017 at 10:47 AM, Trent, Christopher <ctrent@usgs.gov> wrote:

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From: Walter Guidroz <wguidroz@usgs.gov>
Sent: Tue Feb 28 2017 09:28:01 GMT-0700 (MST)
To: Christopher Trent <ctrent@usgs.gov>, Christopher Garrity <cgarrity@usgs.gov>
CC: David Houseknecht <dhouse@usgs.gov>, Julia Jester <jjester@usgs.gov>
Subject: RE: Plate 1 & 2 drafts
Attachments: image002.jpg image004.jpg

Chris,

We've received your request but there are consequences with this one as it's not clear-cut. The USGS NHD coverage labels the **Staines** River (to the west, present Federal boundary) as a discrete river (which is appropriate as it is mainly a single channel) but the label for the **Canning** River (to the east; boundary proposed by Alaska) is an "artificial path" because the river has multiple main courses, all of which are braided. If that artificial path label becomes part of the proposed legislation or is used by Senator Murkowski as a basis for the ANWR boundary, then the state would be taking a much larger chunk of the 1002 area than proposed by the map prepared by Alaska DNR.

Murray is in La Crosse, WI for meetings along with many of the other ADs, so therefore I've requested guidance from him as well as someone at an appropriate level in Water (likely also present in La Crosse with Murray) to weigh in prior to delivering the map. We'll get back to you as soon as we can. Sorry to be a pain but we have to be thoughtful here. Thanks...

Walter

From: Trent, Christopher [mailto:ctrent@usgs.gov]
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To: Garrity, Christopher
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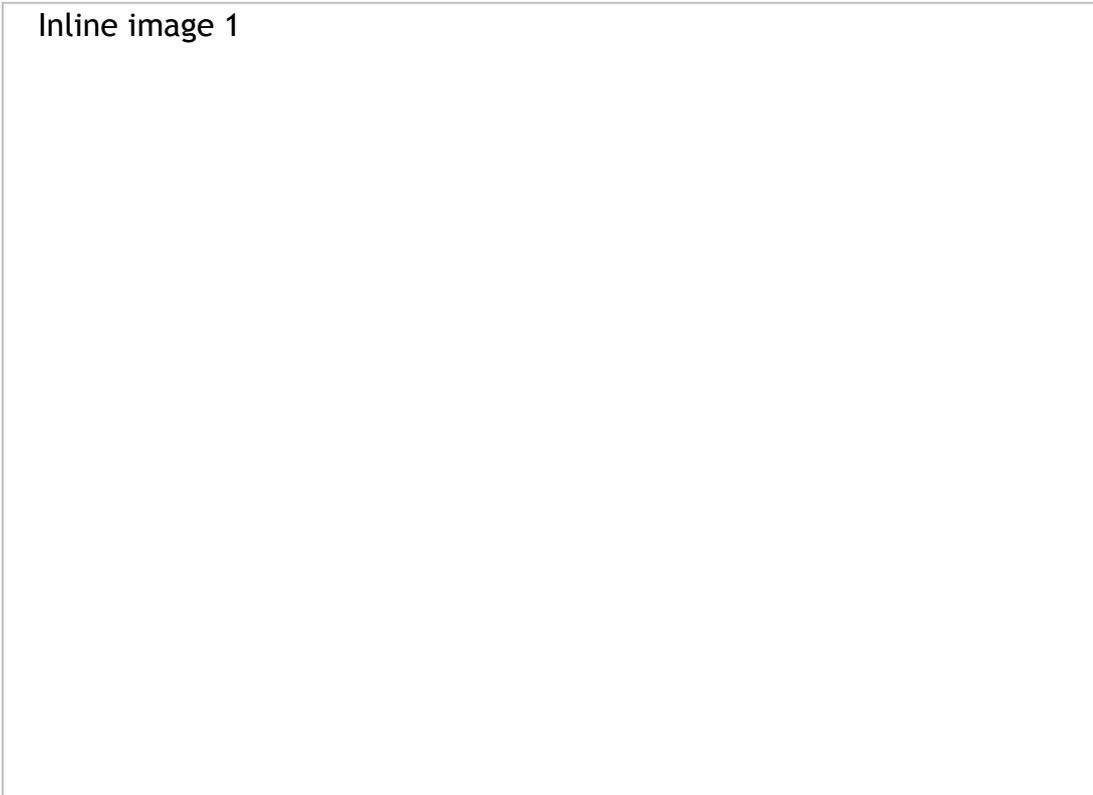
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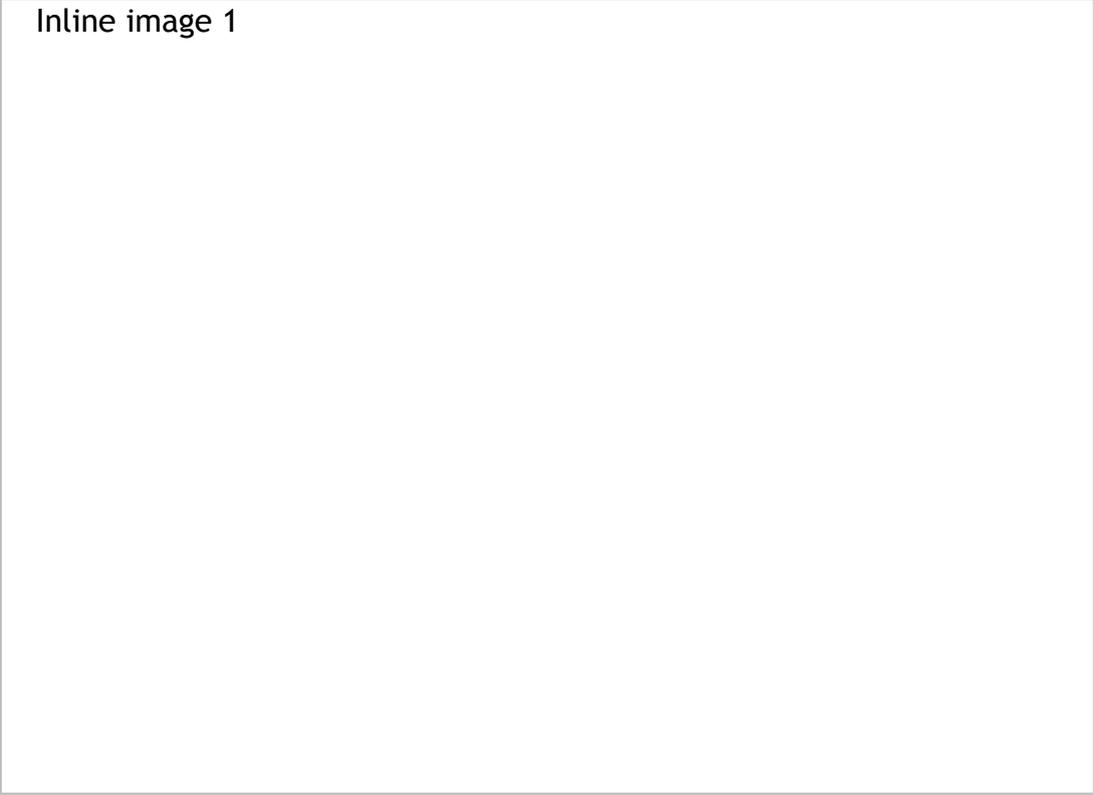
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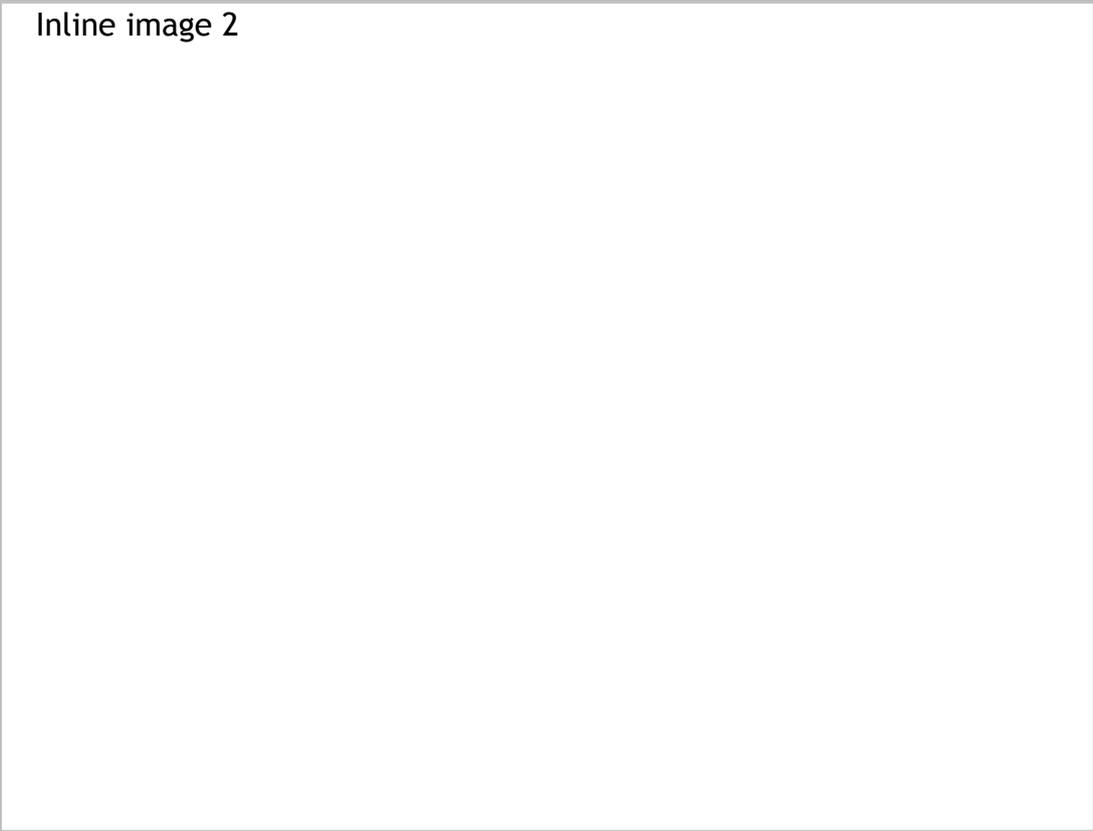
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Inline image 1



Inline image 2



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

"Garrity, Christopher" <cgarrity@usgs.gov>

From: "Garrity, Christopher" <cgarrity@usgs.gov>
Sent: Tue Feb 28 2017 12:24:22 GMT-0700 (MST)
To: "Trent, Christopher" <ctrent@usgs.gov>
CC: David Houseknecht <dhouse@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>, Julia Jester <jjester@usgs.gov>
Subject: Re: Plate 1 & 2 drafts
Attachments: stainesCanningNHD.jpg ANWR_1002_2_24_2017A.jpg
ANWR_1002_2_24_2017B.jpg

Chris,

Attached is a graphic showing NHD data (publish date: 1-13-2017) for the area of interest. As you may have noted in the earlier thread, the Canning River linework is tagged as feature type "Artificial Path", and the Staines River is tagged as feature type StreamRiver. The NHD area unit for the Canning is tagged as "Area of Complex Channels" (see related links in previous messages for all NHD definitions). The NHD linework for the Staines and Canning River do connect (see below). Let me know how you want to proceed.

Inline image 1

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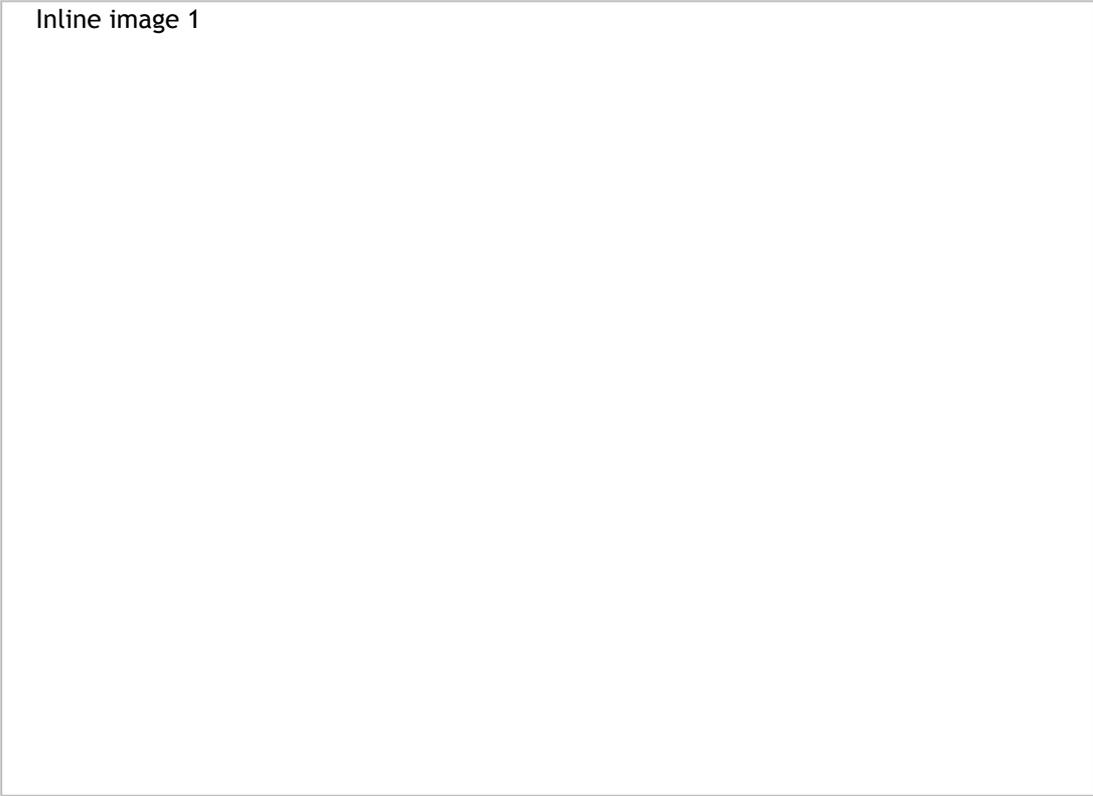
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Subject: Fwd: Plate 1 & 2 drafts
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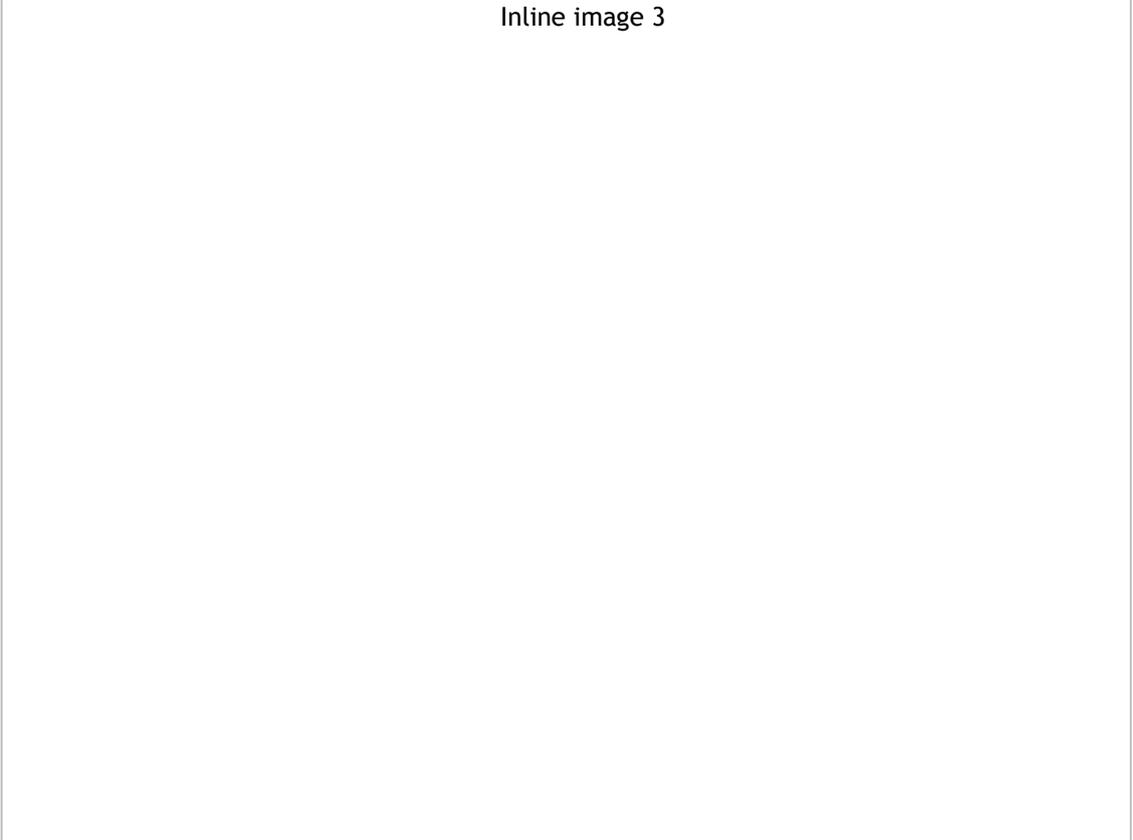
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CC: David Houseknecht <dhouse@usgs.gov>, Walter Guidroz <wguidroz@usgs.gov>
Subject: Re: Plate 1 & 2 drafts
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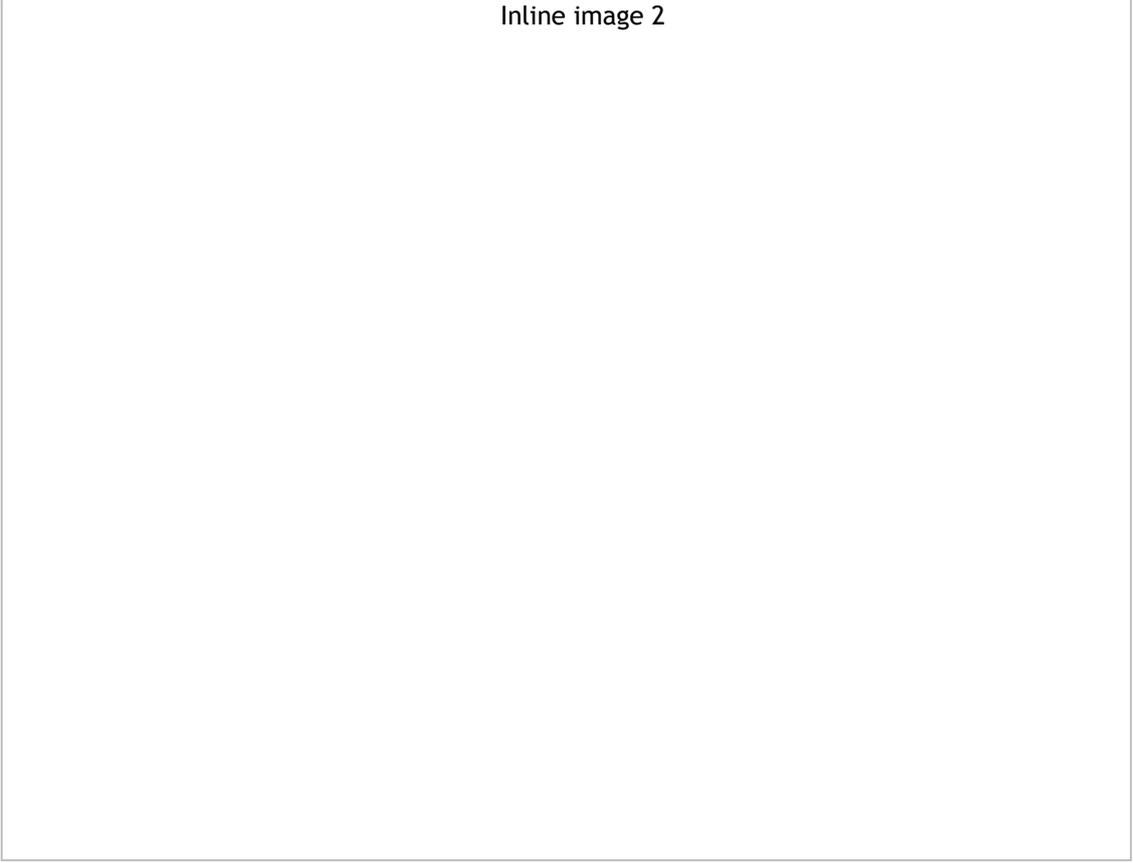
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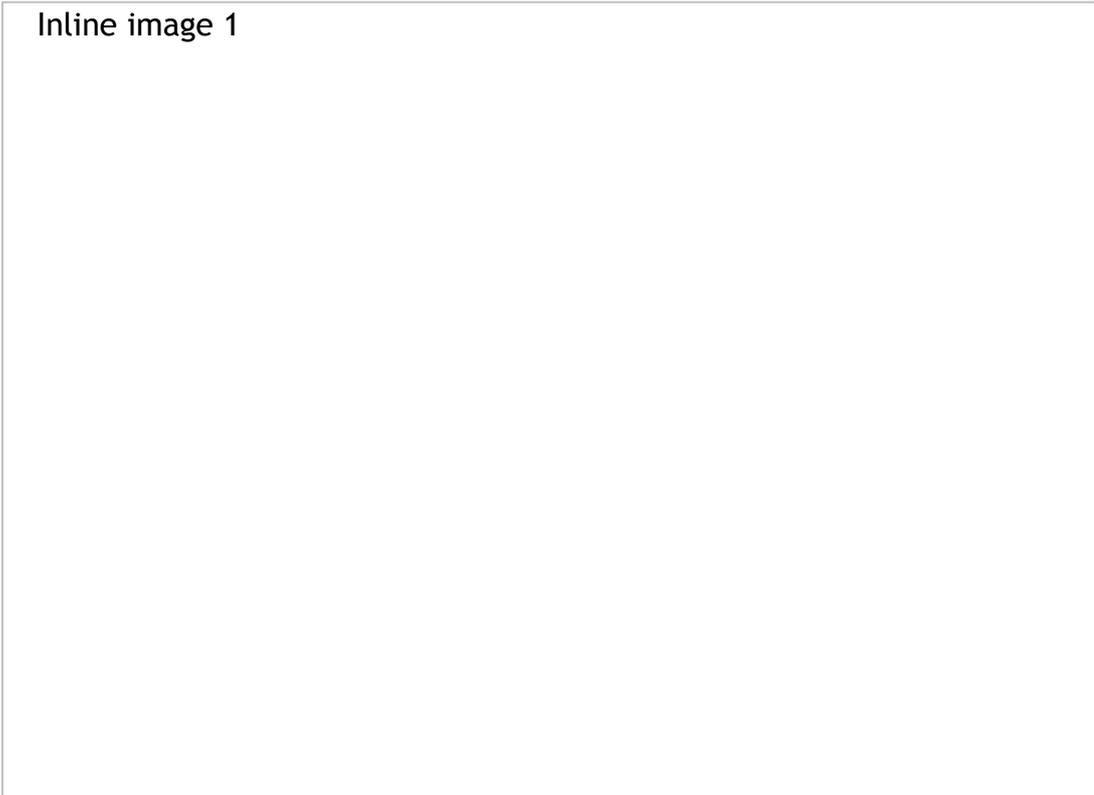
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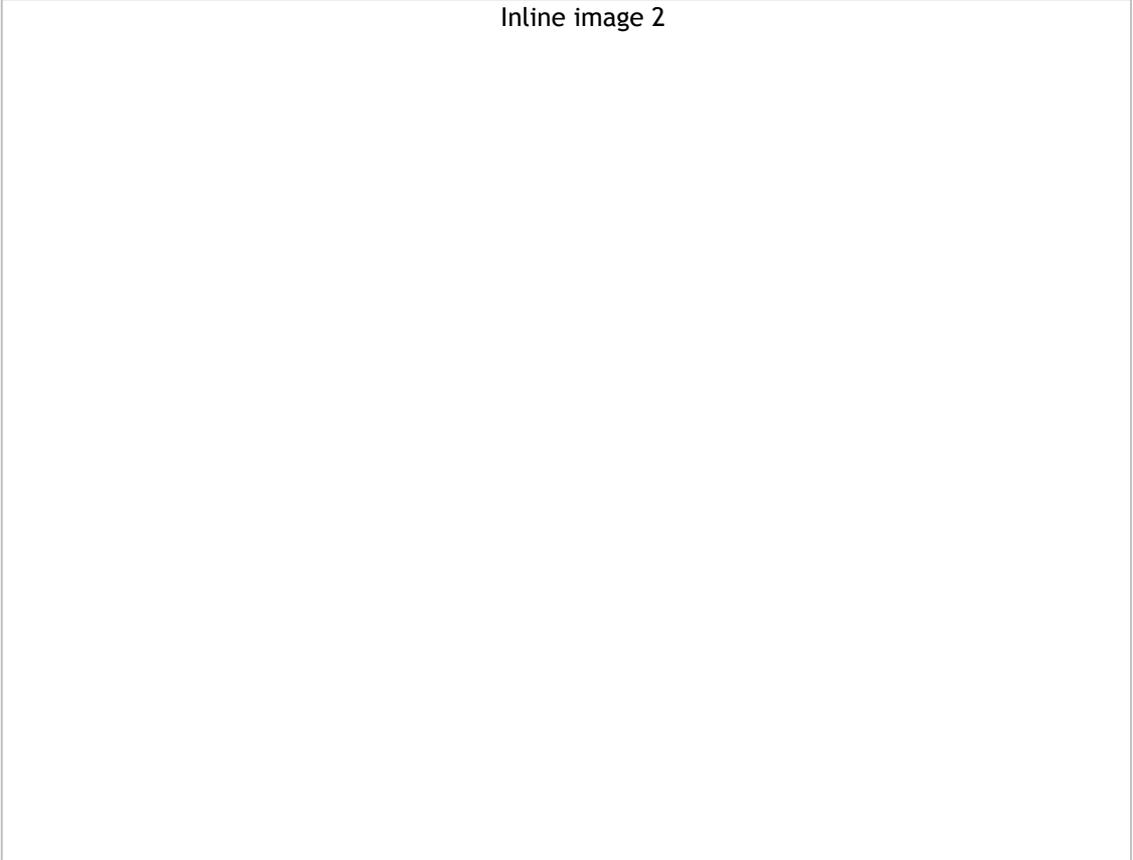
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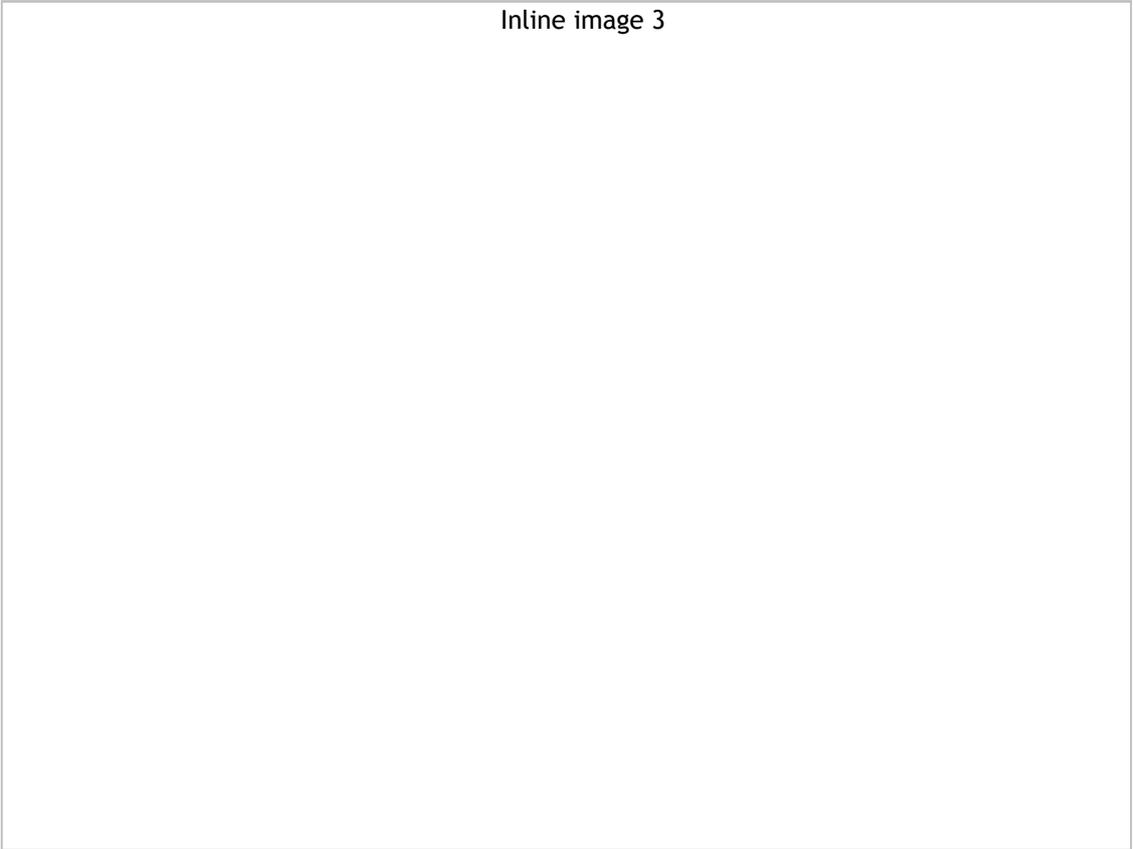
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On Wed, Mar 1, 2017 at 2:38 PM, Garrity, Christopher <cgarrity@usgs.gov> wrote:

Will do. I'll check both plates...it was rescaled and cropped when I was away a couple weeks back. Should only take a minute to check.

On Wed, Mar 1, 2017 at 2:23 PM, Trent, Christopher <ctrent@usgs.gov> wrote:

Hi Chris,

I hope this is a minor thing: staff were not sure the scale bar in plate 2 is correct. Something about the different projections messing it up in ArcGIS.

If it's indeed fine, just let me know. I may need some further technical guidance from you so I understand what the deal is.

Thanks!

Chris Trent
Congressional Affairs
USGS.gov
703-648-4451 (office)
571-524-1869 (mobile)

On Tue, Feb 28, 2017 at 4:28 PM, Trent, Christopher <ctrent@usgs.gov> wrote:

Thanks, Chris. I'll get feedback on these ASAP.

Chris Trent
Congressional Affairs
USGS.gov
703-648-4451 (office)
571-524-1869 (mobile)

On Tue, Feb 28, 2017 at 3:58 PM, Garrity, Christopher <cgarrity@usgs.gov> wrote:

Chris-
See attached.

Inline image 2

Inline image 3

On Tue, Feb 28, 2017 at 1:52 PM, Walter Guidroz <wguidroz@usgs.gov> wrote:
Dave and Chris,

We've just discussed this latest map request with Bill Werkheiser, Judy Nowakowski and Barbara Wainman, and it was agreed that you should proceed with what Chris outlines below. I'm happy to answer any questions. Thanks...

Walter

From: Trent, Christopher [mailto:ctrent@usgs.gov]
Sent: Tuesday, February 28, 2017 10:47 AM
To: Garrity, Christopher
Cc: David Houseknecht; Walter Guidroz; Julia Jester
Subject: Re: Plate 1 & 2 drafts

Hi Chris,

Two additional edits. First, the textual

- Title: change to "ANWR boundary as referenced in S. 49 introduced in the 115th Congress"
- Legend: change to "ANWR boundary as referenced in S. 49 introduced in the 115th Congress" (or shorten to "ANWR boundary, S. 49")

Second, possibly substantive

- Add labels for Canning and Staines rivers.

As we discussed, these probably only work aesthetically on the inset plate. Also, please verify that these two streams are indeed referenced in the NHD. Secondly, please verify whether in the NHD these two streams are connected. You may draft the map if you'd like, but I would actually like to discuss what you find first because what you find may require additional discussion with the Committee and other leadership. The stream lines are not actually what the Committee is looking for, but rather the two labels. If it's your opinion that this would be better addressed without reference to the NHD, let's discuss that.

Thanks!

Chris Trent
Congressional Affairs
USGS.gov
703-648-4451 (office)
571-524-1869 (mobile)

On Fri, Feb 24, 2017 at 4:57 PM, Trent, Christopher <ctrent@usgs.gov> wrote:
Thanks Chris! Have a great weekend.

Chris Trent
Congressional Affairs
USGS.gov
703-648-4451 (office)
571-524-1869 (mobile)

On Fri, Feb 24, 2017 at 4:48 PM, Garrity, Christopher <cgarrity@usgs.gov> wrote:
Guys see attached. Send me any changes for Monday. Cheers!

Inline image 1

Inline image 2

--

-Chris

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cgarrity@usgs.gov | usgs.gov

--

-Chris

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Conversation Contents

Fwd: NHD Staines and Canning Rivers

Attachments:

/9. Fwd: NHD Staines and Canning Rivers/1.1 image002.jpg
/9. Fwd: NHD Staines and Canning Rivers/1.2 stainesCanning.jpg
/9. Fwd: NHD Staines and Canning Rivers/1.3 image001.jpg
/9. Fwd: NHD Staines and Canning Rivers/1.4 image004.jpg
/9. Fwd: NHD Staines and Canning Rivers/1.5 image003.jpg
/9. Fwd: NHD Staines and Canning Rivers/2.1 image001.jpg
/9. Fwd: NHD Staines and Canning Rivers/2.2 image002.jpg
/9. Fwd: NHD Staines and Canning Rivers/2.3 image003.jpg
/9. Fwd: NHD Staines and Canning Rivers/2.4 image004.jpg
/9. Fwd: NHD Staines and Canning Rivers/2.5 image005.jpg

"Tischler, Michael" <mtischler@usgs.gov>

From: "Tischler, Michael" <mtischler@usgs.gov>
Sent: Tue Feb 28 2017 14:58:53 GMT-0700 (MST)
To: Walter Guidroz <wguidroz@usgs.gov>, "Kari Craun (via Google Sheets)" <kcraun@usgs.gov>
Subject: Fwd: NHD Staines and Canning Rivers
Attachments: image002.jpg stainesCanning.jpg image001.jpg image004.jpg image003.jpg

Walter,

We've identified folks that can assist - how can we help?

Thanks,
m

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

From: **Kevin Gallagher** <kgallagher@usgs.gov>
Date: Tue, Feb 28, 2017 at 1:21 PM
Subject: Fwd: NHD Staines and Canning Rivers
To: mnaftzge@usgs.gov, Michael Tischler <mtischler@usgs.gov>, Kari Craun <kcraun@usgs.gov>, jnowakowski@usgs.gov

I think it's always good to have a cartographic expert involved in these discussions as well.

Mark,

Can you please ensure that NGP/NGTOC has the chance to weigh-in.

Sent from my iPhone

Begin forwarded message:

From: Murray Hitzman <mhitzman@usgs.gov>
Date: February 28, 2017 at 11:45:08 AM CST
To: kgallagher@usgs.gov
Subject: Fwd: NHD Staines and Canning Rivers

Kevin
I think u need to row in too

Sent from my iPhone

Begin forwarded message:

From: Walter Guidroz <wguidroz@usgs.gov>
To: Murray Hitzman <mhitzman@usgs.gov>, Lawrence Meinert <lmeinert@usgs.gov>
Cc: "Houseknecht, David" <dhouse@usgs.gov>
Subject: FW: NHD Staines and Canning Rivers

Murray, we've received yet another request for an ANWR map change. However, this one is not clear cut – if we follow the proposed guidance and our product becomes part of proposed legislation, then USGS may be placed in an uncomfortable position.

The USGS NHD coverage labels the **Staines** River (to the west, present Federal boundary) as a discrete river (which is appropriate as it is mainly a single channel) but the label for the **Canning** River (to the east; boundary proposed by Alaska) is an "artificial path" because the river has multiple main courses, all of which are braided. If that artificial path label becomes part of the proposed legislation or is used by Senator Murkowski as a basis for the ANWR boundary, then the state would be taking a much larger chunk of the 1002 area than proposed by the map prepared by Alaska DNR. Therefore, Dave and I suggest that you as well as someone in an upper level of the Water Discipline be consulted before the map is delivered. Is someone at an appropriate level from Water there at your meetings who could comment? Thanks...

Walter

From: Garrity, Christopher [mailto:cgarrity@usgs.gov]
Sent: Tuesday, February 28, 2017 10:57 AM
To: David Houseknecht
Cc: Walter Guidroz
Subject: Re: NHD Staines and Canning

Here a better capture
e

Inline image 1

On Tue, Feb 28, 2017 at 10:54 AM, Garrity, Christopher <cgarrity@usgs.gov> wrote: Staines River and Canning River selected from NHD. Attribute feature type for Canning River is "Artificial Path". Attribute feature type for Staines River is "StreamRiver". Abbreviated NHD definitions <https://nhd.usgs.gov/FeatureDirectory.pdf>:

Inline image 1

Canning River selected from NHD:

Inline image 2

Staines River selected from NHD:

Inline image 4

--

-Chris

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cgarrity@usgs.gov | usgs.gov

--

-Chris

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--

Michael Tischler, Ph.D

Director
National Geospatial Program
United States Geological Survey
703-648-4725
mtischler@usgs.gov
12201 Sunrise Valley Dr.
Reston, VA 20192

[The National Map](#) - Your Source For Topographic Information



Walter Guidroz <wguidroz@usgs.gov>

From: Walter Guidroz <wguidroz@usgs.gov>
Sent: Tue Feb 28 2017 15:03:30 GMT-0700 (MST)
To: Michael Tischler <mtischler@usgs.gov>, Kari Craun <krcraun@usgs.gov>
Subject: RE: NHD Staines and Canning Rivers
Attachments: image001.jpg image002.jpg image003.jpg image004.jpg image005.jpg

Mike, thanks for the offer to help. I think we ended up in a relatively good spot; we met with Bill, Judy and Barbara this afternoon and agreed that there would be no lines on the map, only depictions of the two rivers involved. Hopefully this gets us through what is fast becoming a very lengthy exercise. I'll definitely keep you in the loop should things change (and at this rate, I'm sure they will). Thanks again...

Walter

From: Tischler, Michael [mailto:mtischler@usgs.gov]
Sent: Tuesday, February 28, 2017 4:59 PM
To: Walter Guidroz; Kari Craun (via Google Sheets)
Subject: Fwd: NHD Staines and Canning Rivers

Walter,

We've identified folks that can assist - how can we help?

Thanks,
m

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Date: Tue, Feb 28, 2017 at 1:21 PM

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To: mnaftzge@usgs.gov, Michael Tischler <mtischler@usgs.gov>, Kari Craun <kcraun@usgs.gov>, jnowakowski@usgs.gov

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To: Murray Hitzman <mhitzman@usgs.gov>, Lawrence Meinert <lmeinert@usgs.gov>

Cc: "Houseknecht, David" <dhouse@usgs.gov>

Subject: FW: NHD Staines and Canning Rivers

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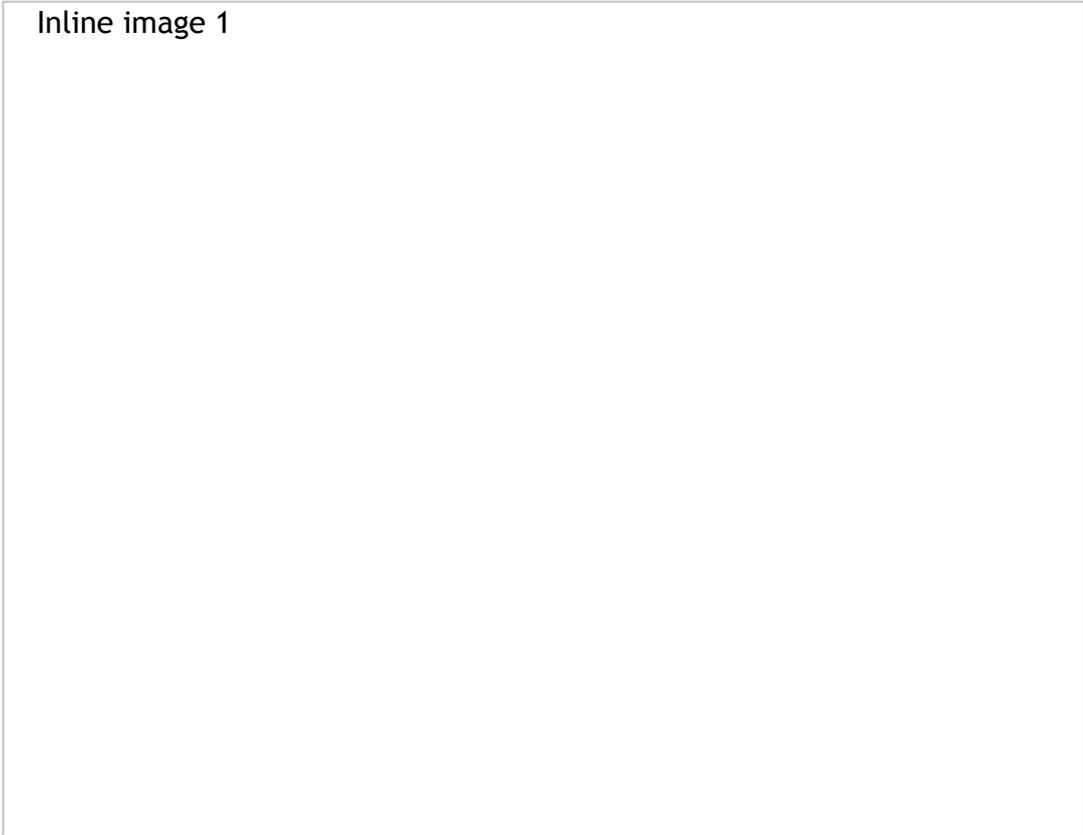
Walter

From: Garrity, Christopher [mailto:cgarrity@usgs.gov]
Sent: Tuesday, February 28, 2017 10:57 AM
To: David Houseknecht
Cc: Walter Guidroz
Subject: Re: NHD Staines and Canning

Here a better capture

e

Inline image 1



On Tue, Feb 28, 2017 at 10:54 AM, Garrity, Christopher <cgarrity@usgs.gov> wrote:
Staines River and Canning River selected from NHD. Attribute feature type for Canning River is "Artificial Path". Attribute feature type for Staines River is "StreamRiver". Abbreviated NHD definitions <https://nhd.usgs.gov/FeatureDirectory.pdf>:

Inline image 1

Canning River selected from NHD:

Inline image 2

Staines River selected from NHD:

Inline image 4

--

-Chris

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--

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Reston, VA 20192

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Conversation Contents

ANWR

"Meinert, Lawrence" <lmeinert@usgs.gov>

From: "Meinert, Lawrence" <lmeinert@usgs.gov>
Sent: Tue Feb 28 2017 11:56:21 GMT-0700 (MST)
To: "Hitzman, Murray" <mhitzman@usgs.gov>
CC: Walter Guidroz <wguidroz@usgs.gov>
Subject: ANWR

Murray,

Walter and I met with Judy, Bill, Dave, Barbara, Julia, and Chris Trent. Good news is that there will be no lines on map, just rivers, and the legend will say something like "as proposed by this legislation". That takes any onus off of USGS as showing anything other than a base map. That seems livable.

Larry

--

Larry Meinert
Acting Deputy Associate Director - Energy & Minerals
U.S. Geological Survey
12201 Sunrise Valley Dr., MS 913
Reston, VA 20192
703-648-6100
lmeinert@usgs.gov

Conversation Contents

FW: NHD Staines and Canning Rivers

Attachments:

/11. FW: NHD Staines and Canning Rivers/1.1 image001.jpg
/11. FW: NHD Staines and Canning Rivers/1.2 image002.jpg
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/11. FW: NHD Staines and Canning Rivers/1.5 stainesCanning.jpg
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/11. FW: NHD Staines and Canning Rivers/2.2 image004.jpg
/11. FW: NHD Staines and Canning Rivers/2.3 image003.jpg
/11. FW: NHD Staines and Canning Rivers/2.4 image001.jpg

Walter Guidroz <wguidroz@usgs.gov>

From: Walter Guidroz <wguidroz@usgs.gov>
Sent: Tue Feb 28 2017 09:13:22 GMT-0700 (MST)
To: Murray Hitzman <mhitzman@usgs.gov>, Lawrence Meinert <lmeinert@usgs.gov>
CC: "Houseknecht, David" <dhouse@usgs.gov>
Subject: FW: NHD Staines and Canning Rivers
Attachments: image001.jpg image002.jpg image003.jpg image004.jpg stainesCanning.jpg

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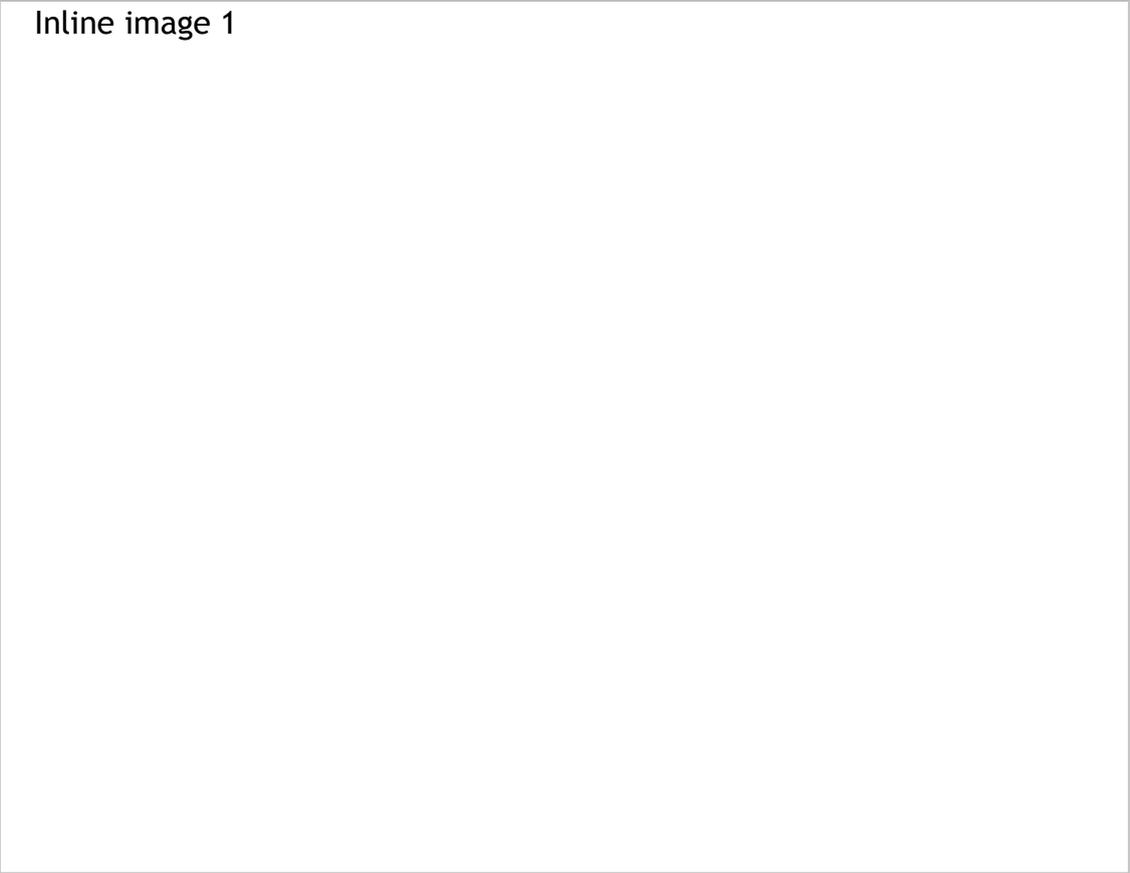
The USGS NHD coverage labels the **Staines** River (to the west, present Federal boundary) as a discrete river (which is appropriate as it is mainly a single channel) but the label for the **Canning** River (to the east; boundary proposed by Alaska) is an "artificial path" because the river has multiple main courses, all of which are braided. If that artificial path label becomes part of the proposed legislation or is used by Senator Murkowski as a basis for the ANWR boundary, then the state would be taking a much larger chunk of the 1002 area than proposed by the map prepared by Alaska DNR. Therefore, Dave and I suggest that you as well as someone in an upper level of the Water Discipline be consulted before the map is delivered. Is someone at an appropriate level from Water there at your meetings who could comment? Thanks...

Walter

From: Garrity, Christopher [mailto:cgarrity@usgs.gov]
Sent: Tuesday, February 28, 2017 10:57 AM
To: David Houseknecht
Cc: Walter Guidroz
Subject: Re: NHD Staines and Canning

Here a better capture

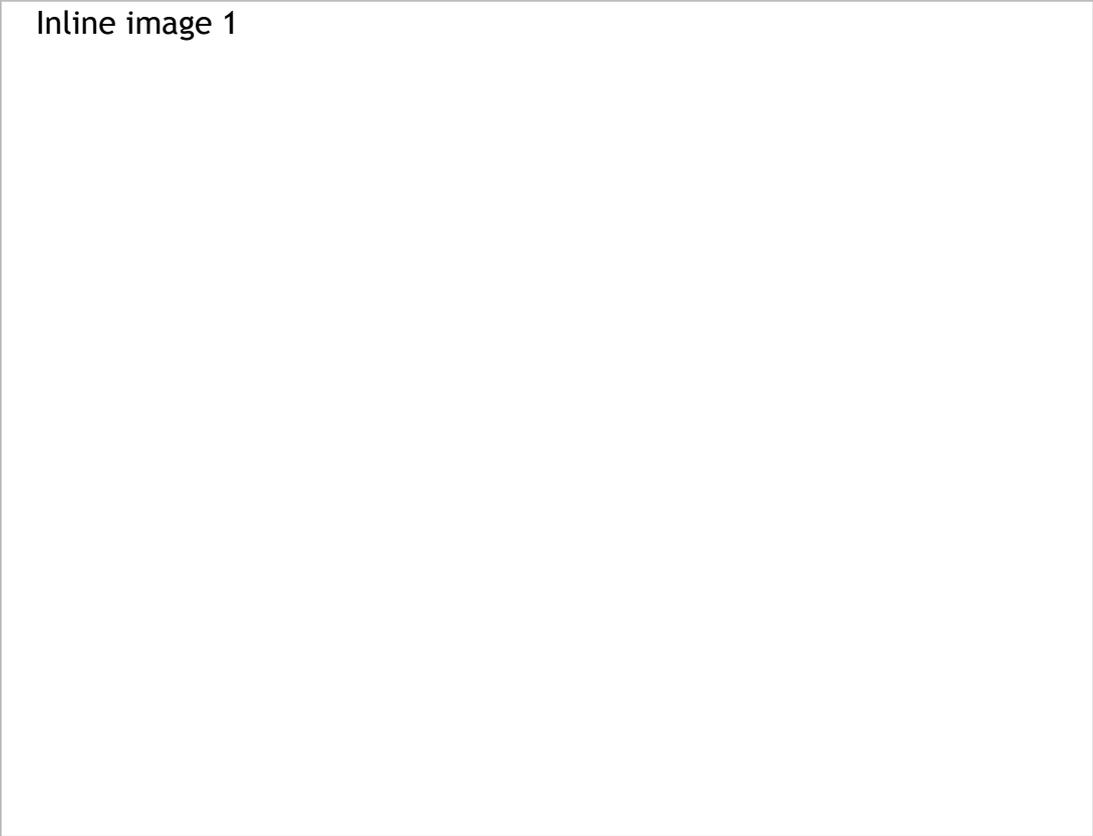
Inline image 1



e

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Inline image 1



Canning River selected from NHD:

Inline image 2

Staines River selected from NHD:

Inline image 4

--

-Chris

Christopher Garrity | GIScience

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--

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cgarrity@usgs.gov | usgs.gov

"Meinert, Lawrence" <lmeinert@usgs.gov>

From: "Meinert, Lawrence" <lmeinert@usgs.gov>
Sent: Tue Feb 28 2017 09:52:35 GMT-0700 (MST)
To: Walter Guidroz <wguidroz@usgs.gov>
CC: Murray Hitzman <mhitzman@usgs.gov>, "Houseknecht, David" <dhouse@usgs.gov>
Subject: Re: FW: NHD Staines and Canning Rivers
Attachments: image002.jpg image004.jpg image003.jpg image001.jpg

Murray,

I brought this to the attention of Dave Applegate, following Director's Staff, and expressed my opinion that the USGS needs to take a stand that the science and classification of rivers, and resulting boundaries, cannot change to suit political whims.

Larry

On Tue, Feb 28, 2017 at 11:13 AM, Walter Guidroz <wguidroz@usgs.gov> wrote:

Murray, we've received yet another request for an ANWR map change. However, this one is not clear cut – if we follow the proposed guidance and our product becomes part of proposed legislation, then USGS may be placed in an uncomfortable position.

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Walter

From: Garrity, Christopher [mailto:cgarrity@usgs.gov]

Sent: Tuesday, February 28, 2017 10:57 AM

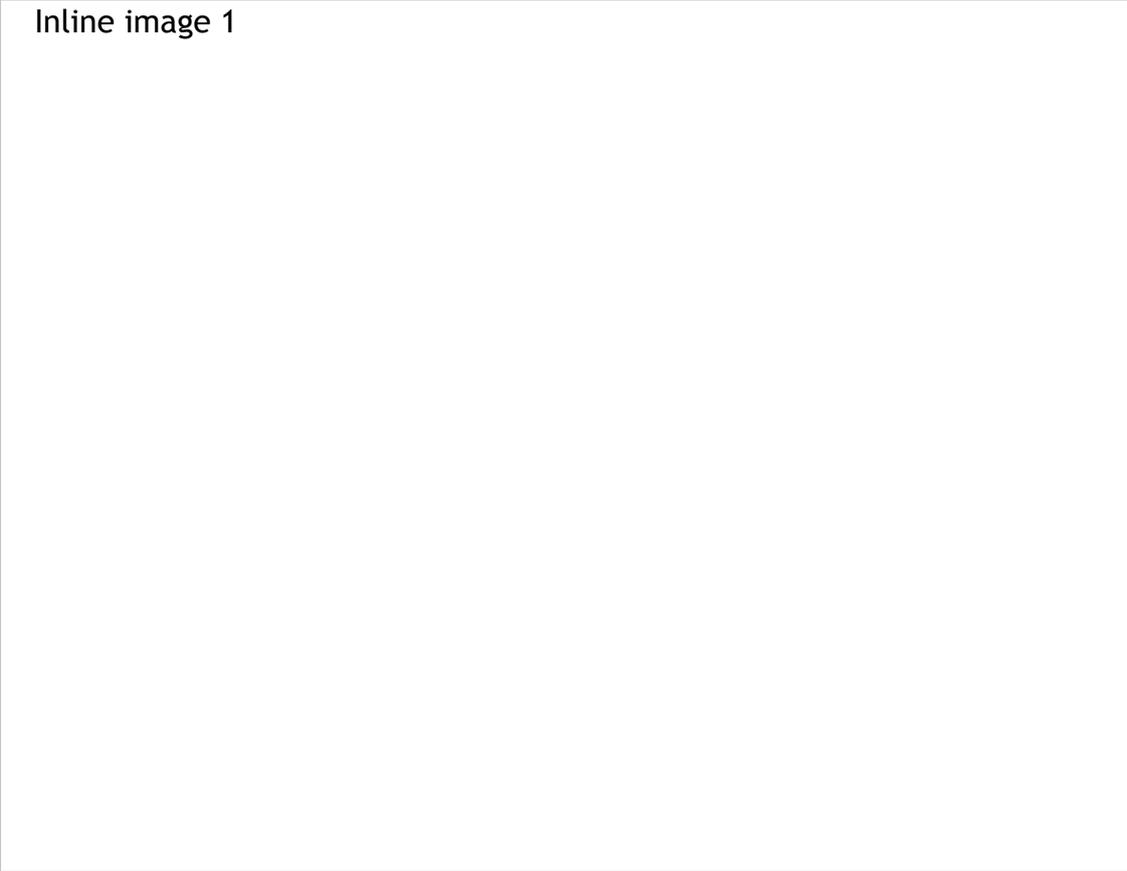
To: David Houseknecht

Cc: Walter Guidroz

Subject: Re: NHD Staines and Canning

Here a better capture

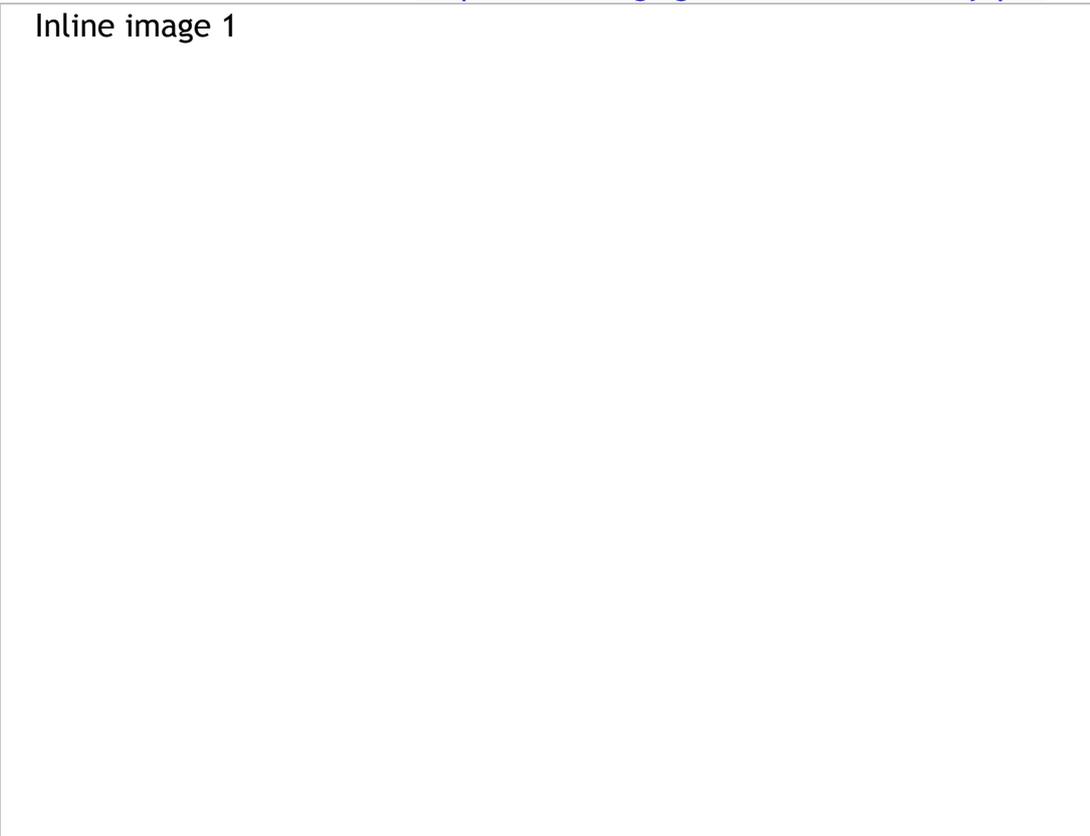
Inline image 1



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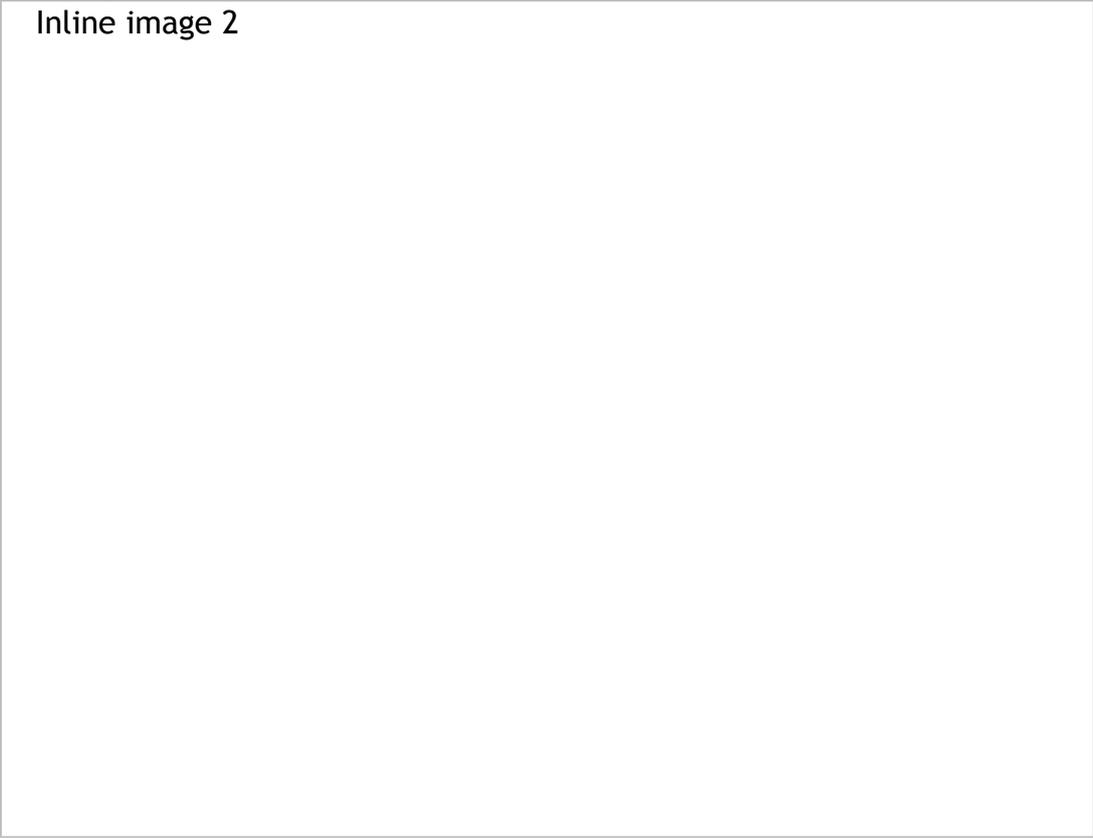
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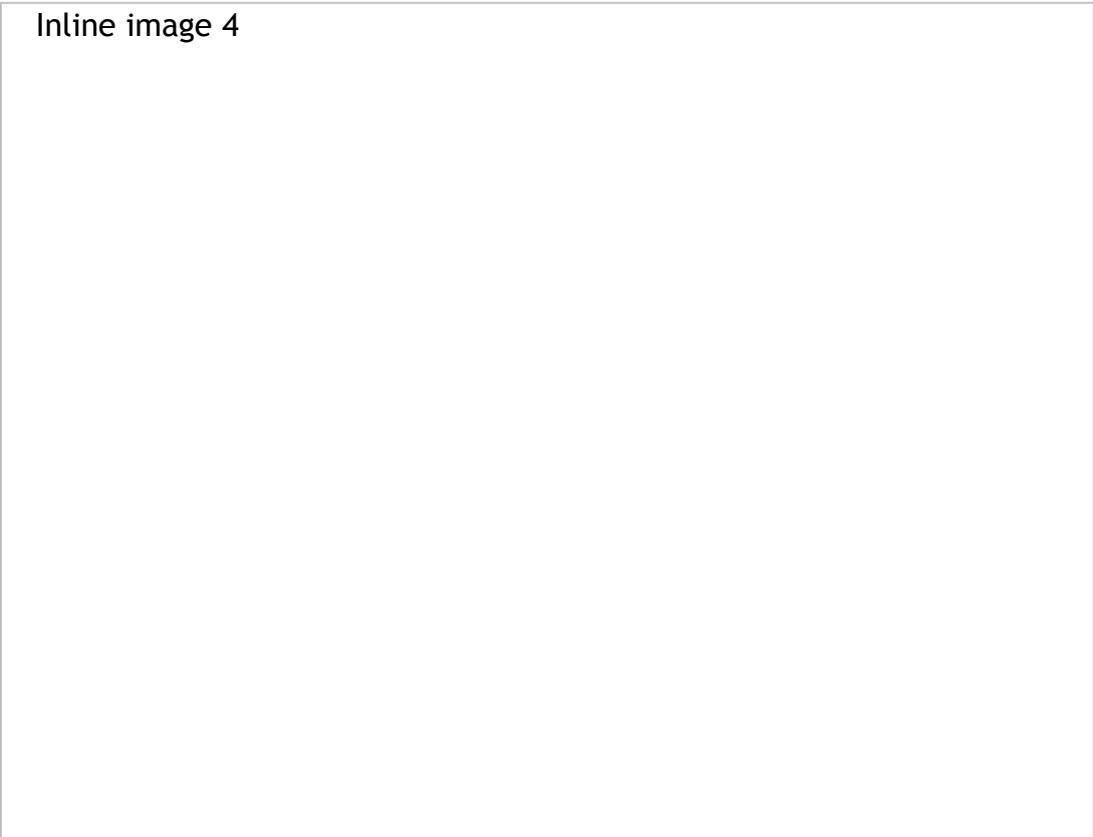
Canning River selected from NHD:

Inline image 2



Staines River selected from NHD:

Inline image 4



-Chris

Christopher Garrity | GIScience

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--

Larry Meinert
Acting Deputy Associate Director - Energy & Minerals
U.S. Geological Survey
12201 Sunrise Valley Dr., MS 913
Reston, VA 20192
703-648-6100
Lmeinert@usgs.gov

Conversation Contents

map

Attachments:

/12. map/3.1 example.jpg

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

From: "Houseknecht, David" <dhouse@usgs.gov>
Sent: Tue Feb 28 2017 09:00:23 GMT-0700 (MST)
To: Walter Guidroz <wguidroz@usgs.gov>, Christopher Garrity <cgarrity@usgs.gov>
Subject: map

Walter:

You can see from CG's map drafts what the issue is. If the "artificial path" is used by the Senator as a basis for the ANWR boundary, then the state would be taking a much larger chunk of the 1002 area than proposed by the map prepared by the ADNR. I suggest both Murray and the AD for water needs to weigh in on this.

--

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

Walter Guidroz <wguidroz@usgs.gov>

From: Walter Guidroz <wguidroz@usgs.gov>
Sent: Tue Feb 28 2017 09:03:15 GMT-0700 (MST)
To: David Houseknecht <dhouse@usgs.gov>, Christopher Garrity <cgarrity@usgs.gov>
Subject: RE: map

Agreed. Murray is in La Crosse, WI attending a meeting but he's on email; I'll forward the concerns to him. I believe many if not all of the other ADs are there as well. Thanks for highlighting the issue...

From: Houseknecht, David [mailto:dhouse@usgs.gov]
Sent: Tuesday, February 28, 2017 11:00 AM
To: Walter Guidroz; Christopher Garrity
Subject: map

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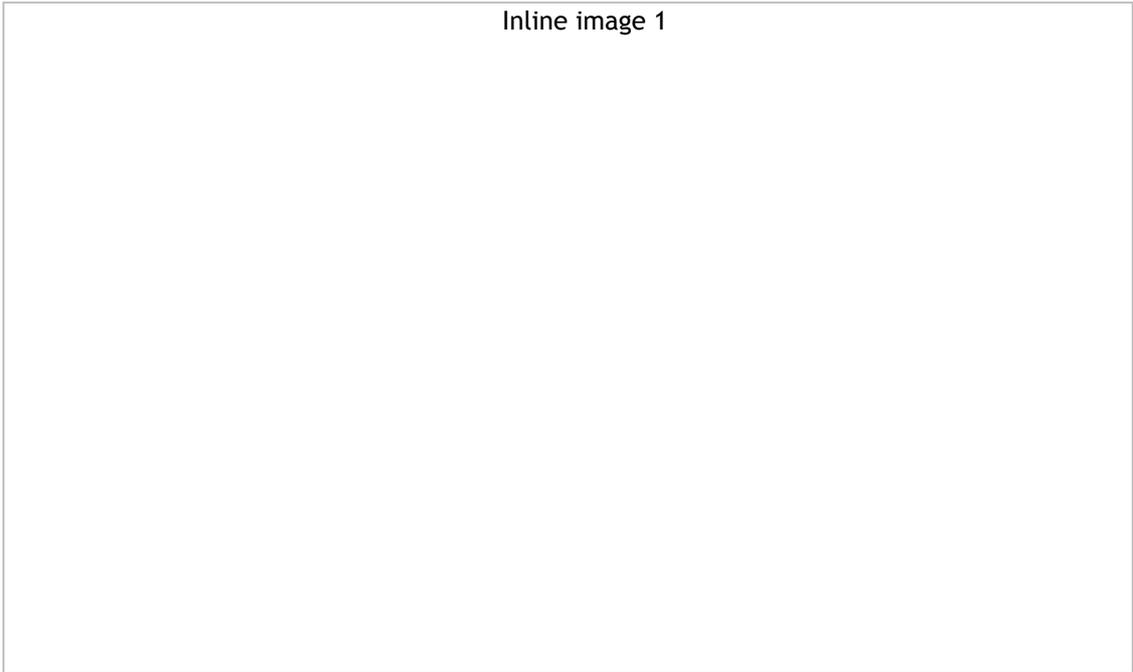
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CC: Walter Guidroz <wguidroz@usgs.gov>
Subject: Re: map
Attachments: example.jpg

Well, somebody in Water will need to do the explaining on this one.

On Tue, Feb 28, 2017 at 11:25 AM, Garrity, Christopher <cgarrity@usgs.gov> wrote:

Note the area attribute for the Canning is "Area of Complex Channels". https://nhd.usgs.gov/userGuide/Robohelpfiles/NHD_User_Guide/Feature_Catalog/Hydrography_Dataset/NHDArea/Area_of_Complex_Channels.htm

Inline image 1



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