



Wixon, Donna <dwixon@blm.gov>

[EXTERNAL] RE: Information request from SAE

1 message

Suzan Simonds <ssimonds@contractor.saexploration.com>
To: "Wixon, Donna" <dwixon@blm.gov>

Mon, Jul 16, 2018 at 2:19 PM

Hi Donna

I think you are still out of the office?

I am attaching your document with some discussion points and or changes.

Sue Simonds

Permits and Regulatory Manager

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From: Wixon, Donna [mailto:dwixon@blm.gov]
Sent: Monday, July 16, 2018 1:58 PM
To: Suzan Simonds <ssimonds@contractor.saexploration.com>
Subject: Fwd: Information request from SAE

Good Afternoon Sue,

Below is information on access to the documents that you requested.

Thanks,

Donna

Donna L Wixon

Natural Resource Specialist

BLM Arctic District Office

222 University Ave

Fairbanks, Alaska 99709

907-474-2301 Office

907-474-2386 Fax

dwixon@blm.gov

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

From: **Wendy Loya** <wendy_loya@fws.gov>

Date: Fri, Jul 13, 2018 at 3:17 PM

Subject: Information request from SAE

To: Donna Wixon <dwixon@blm.gov>, "Nichelle (Shelly) Jones" <njones@blm.gov>, Sarah LaMarr <slamarr@blm.gov>

Cc: Joshua Rose <joshua_rose@fws.gov>

Dear Donna,

I have uploaded documents in response to SAE's request for hydrologic, snow and climate monitoring/thermistor data for the 1002 area to help inform their operations planning into a folder on Google Drive they can access here:

https://drive.google.com/open?id=1JKR6plmlt4z0pIXo0e9_KglW84KLiuN

For the hydrology, I believe they were looking for information on lake depths that I had described, and we have included a zip drive with those GIS data (waterbody_depths.zip). That information is also described in an uploaded technical report. We are also sending a technical report on winter water within rivers to help them avoid doing seismic in these areas (if they have not changed), an overall hydrology study summary from 1984, and a list of studies that have been done that might provide other useful information.

With regards to the request for thermistor data, the USGS report with this information is available here for download (too large for email): <https://doi.org/10.3133/ds1021>.

Urban, F.E., and Clow, G.D., 2017, DOI/GTN-P Climate and active-layer data acquired in the National Petroleum Reserve—Alaska and the Arctic National Wildlife Refuge, 1998–2015: U.S. Geological Survey Data Series 1021, 546 p.,

This report presents data for air temperature, incident/reflected solar flux, wind speed/direction snow depth, atmospheric pressure, ground temperatures, soil moisture, and rainfall for 17 climate stations across the coastal plain. Four of the stations are located on the Refuge of which three are in the current area of interest. Data collection at those sites began between 2000 and 2003. Data were collected by automated stations with infrequent servicing at individual locations. Users should thoroughly read the methodology and be aware these stations by not reflect overall conditions within the project area.

Finally, there is a memo from Dr. Matthew Sturm at the Geophysical Institute at UAF that describes *preliminary* information from the aerial and ground surveys they did in the Marsh Creek to Camden Bay area in mid-April 2018. This is available for sharing with SAE to help inform their planning for seismic operations in the 1002 area. We believe that the method used by Dr. Sturm and associates, flying aerial Structure for Motion surveys, is a useful tool in evaluating landscape patterns of snow distribution and preliminary depth estimates. These estimates need to be validated by ground based measurements of *both* snow depth and density to achieve sufficient coverage to protect diverse vegetation types, coupled with soil freeze depth before actual operations.

We look forward to working with BLM and SAE on a collaborative approach to avoiding impacts from seismic in this important, area wide seismic survey. Please do not hesitate to contact me for further information and to find a time to meet to discuss the snow, river, terrain and vegetation of the 1002 area so we can help facilitate successful operations.

Thank you,

Wendy

Dr. Wendy M. Loya,

Arctic Program Coordinator

Office of Science Applications, US Fish and Wildlife Service

Anchorage, Alaska

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Seismic Proposed Action eplanning SAE ASRC Response 7-16-18.docx

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