

**From:** [Lueders, Amy L](#)  
**To:** [Hausman, Alyssa B](#); [Director's Office, FWS](#); [Wainman, Barbara W](#); [Huggler, Matthew](#); [Fleming, Jeffrey M](#)  
**Subject:** Re: HEAD'S UP: SpaceX Explosion/Boca Chica NWR  
**Date:** Monday, April 24, 2023 9:28:54 AM

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here's some preliminary bullets on the event. I will be prepared to cover in more detail on today's call

- Total areal extent of the debris field was determined to be 385 ac.
- Coordination and cooperation with SpaceX was adequate except that access to the site was delayed by more than 48 hours due to pad safety concerns. Staff was not able to access refuge lands until 2 pm Saturday
- The debris field exceeded the area delineated in the May 12, 2022 Biological and Conference Opinion O2ETCC00-2012-F-0186-R001.
- No debris was documented on refuge fee-owned lands. All debris located on SpaceX and Boca Chica State Park lands.
- A 3.85 ac fire started south of the pad site on Boca Chica State Park lands.
- Sound level readings collected by a university researcher measured 144db at 2-miles from the pad site.
- Plume cloud deposited what we believe is pulverized concrete as far away as Port Isabel, 6.5 miles to the NW of the pad site.
- Concrete chunks up to 7-inches in size were found as far as 2,680 feet from the pad site. One concrete chunk measuring 47" x 12" was found in the tidal flats over 1,000 feet away
- No dead birds were recovered.
- Our 3 temperature loggers did not detect significant changes in ambient temperature during the launch. These sensors are placed between 1,456 feet to 3,050 feet away from pad site.
- We are working to schedule a follow up meeting with FAA to discuss post launch event and next steps

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**From:** Hausman, Alyssa B <alyssa\_hausman@fws.gov>  
**Sent:** Monday, April 24, 2023 7:08 AM  
**To:** Lueders, Amy L <amy\_lueders@fws.gov>; Director's Office, FWS <Scheduling@fws.gov>; Wainman, Barbara W <barbara\_wainman@fws.gov>; Huggler, Matthew <Matthew\_Huggler@fws.gov>; Fleming, Jeffrey M <jeffrey\_m\_fleming@fws.gov>  
**Subject:** Re: HEAD'S UP: SpaceX Explosion/Boca Chica NWR

Hi Amy - Martha would like you to join this call today, if possible. I'm checking with Tommy and Shannon's teams to be sure that's okay and will hopefully send you the calendar invite soon. Please let me know if you have any concerns with this.

thank you,  
Alyssa

Alyssa Hausman  
Head of Staff  
U.S. Fish and Wildlife Service  
Desk: (202) 742-0688  
Mobile: (703) 785-3402  
alyssa\_hausman@fws.gov

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**From:** Hausman, Alyssa B <alyssa\_hausman@fws.gov>  
**Sent:** Friday, April 21, 2023 3:20 PM  
**To:** Lueders, Amy L <amy\_lueders@fws.gov>; Director's Office, FWS <Scheduling@fws.gov>;  
Wainman, Barbara W <barbara\_wainman@fws.gov>; Huggler, Matthew  
<Matthew\_Huggler@fws.gov>; Fleming, Jeffrey M <jeffrey\_m\_fleming@fws.gov>  
**Subject:** Re: HEAD'S UP: SpaceX Explosion/Boca Chica NWR

yes, monday. Sorry for missing that key detail. thank you

Alyssa Hausman  
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**From:** Lueders, Amy L <amy\_lueders@fws.gov>  
**Sent:** Friday, April 21, 2023 3:19 PM  
**To:** Hausman, Alyssa B <alyssa\_hausman@fws.gov>; Director's Office, FWS <Scheduling@fws.gov>;  
Wainman, Barbara W <barbara\_wainman@fws.gov>; Huggler, Matthew  
<Matthew\_Huggler@fws.gov>; Fleming, Jeffrey M <jeffrey\_m\_fleming@fws.gov>  
**Subject:** Re: HEAD'S UP: SpaceX Explosion/Boca Chica NWR

on Monday? we'll try to pull a few bullets together for Martha

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**From:** Hausman, Alyssa B <alyssa\_hausman@fws.gov>  
**Sent:** Friday, April 21, 2023 1:15 PM  
**To:** Lueders, Amy L <amy\_lueders@fws.gov>; Director's Office, FWS <Scheduling@fws.gov>;  
Wainman, Barbara W <barbara\_wainman@fws.gov>; Huggler, Matthew  
<Matthew\_Huggler@fws.gov>; Fleming, Jeffrey M <jeffrey\_m\_fleming@fws.gov>  
**Subject:** Re: HEAD'S UP: SpaceX Explosion/Boca Chica NWR

Thanks, Amy.

The meeting with Martha, Shannon and Tommy is scheduled for 2pm ET. If you all have

anything additional to provide before then regarding FWS needs/requests/engagement/etc, please let us know. no need for anything formal on this evolving issue on such short notice. thank you

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**From:** Lueders, Amy L <amy\_lueders@fws.gov>  
**Sent:** Friday, April 21, 2023 3:11 PM  
**To:** Director's Office, FWS <Scheduling@fws.gov>; Wainman, Barbara W <barbara\_wainman@fws.gov>; Huggler, Matthew <Matthew\_Huggler@fws.gov>; Fleming, Jeffrey M <jeffrey\_m\_fleming@fws.gov>  
**Cc:** Hausman, Alyssa B <alyssa\_hausman@fws.gov>  
**Subject:** Re: HEAD'S UP: SpaceX Explosion/Boca Chica NWR

As Laury notes in her email we have not been able to access the Refuge lands until this afternoon as it has been closed to ensure safety. The region will continue to coordinate with Barbara's folks to prepare a statement as we are able to gather info. We can prepare a BP early next week for the Director if that would be helpful background

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**From:** Director's Office, FWS <Scheduling@fws.gov>  
**Sent:** Friday, April 21, 2023 12:28 PM  
**To:** Wainman, Barbara W <barbara\_wainman@fws.gov>; Huggler, Matthew <Matthew\_Huggler@fws.gov>; Lueders, Amy L <amy\_lueders@fws.gov>; Fleming, Jeffrey M <jeffrey\_m\_fleming@fws.gov>  
**Cc:** Director's Office, FWS <Scheduling@fws.gov>; Hausman, Alyssa B <alyssa\_hausman@fws.gov>  
**Subject:** FW: HEAD'S UP: SpaceX Explosion/Boca Chica NWR

Who can provide background for this meeting?

Esther Pritchard, Executive Assistant  
Office of the Director | U.S. Fish and Wildlife Service (FWS)  
Office: 202-208-4545 | [www.fws.gov](http://www.fws.gov)  
Please email scheduling related matters to [scheduling@fws.gov](mailto:scheduling@fws.gov)

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**From:** Marshall, Laury <[Laury\\_Marshall@fws.gov](mailto:Laury_Marshall@fws.gov)>  
**Sent:** Friday, April 21, 2023 11:57 AM  
**To:** Interior Press <[interior\\_press@ios.doi.gov](mailto:interior_press@ios.doi.gov)>; Schroeder, Darin C <[darin\\_schroeder@ios.doi.gov](mailto:darin_schroeder@ios.doi.gov)>  
**Cc:** Wainman, Barbara W <[barbara\\_wainman@fws.gov](mailto:barbara_wainman@fws.gov)>; Huggler, Matthew <[Matthew\\_Huggler@fws.gov](mailto:Matthew_Huggler@fws.gov)>; Armstrong, Karen <[karen\\_armstrong@fws.gov](mailto:karen_armstrong@fws.gov)>  
**Subject:** HEAD'S UP: SpaceX Explosion/Boca Chica NWR

Our regional office informs me that a number of high-profile national news outlets are inquiring about if/how the SpaceX explosion has affected Boca Chica NWR, which is near the launch site. This is part of ongoing press interest in SpaceX and the refuge, for which DOI OCO has already approved a number of statements and/or we have deferred to FAA.

Apparently, SpaceX has everything closed until 2 p.m. today so FWS staff are still waiting to be allowed in to assess impacts/damage to our property near the launch site. We hope to have a statement prepared later this evening or tomorrow and will share for your review/approval.

Laury Marshall  
Assistant Chief, USFWS Public Affairs HQ