

**From:** [Perez, Chris](#)  
**To:** [Marsan, Joan D](#); [DeLaGarza, Imer](#); [Perez, Sonny](#)  
**Subject:** Re: SpaceX  
**Date:** Wednesday, April 26, 2023 9:02:33 AM  
**Attachments:** [SpaceX big mess article.pdf](#)

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Hi Joan:

Yep, concrete debris rained down all over the tidal flats so the cleanup follow up is underway. Their pad site was totally destroyed and will likely force them to re-design the whole thing. Probably won't see another launch for awhile. Fortunately, no debris or damage occurred on refuge fee owned lands. All debris occurred on SpaceX and Boca Chica State Park lands. We spent several hours assessing the impacts but did not document any bird mortalities other than a bobwhite quail nest on a burned area as well as several blue land crabs. Some concrete debris up to 7-inches in size was found 2,680 feet away! One concrete piece measuring 47-inches in size was found about 1,100 feet away from the pad site. See attached article for more info.

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**From:** Marsan, Joan D <[joan.marsan@sol.doi.gov](mailto:joan.marsan@sol.doi.gov)>  
**Sent:** Wednesday, April 26, 2023 7:14 AM  
**To:** Perez, Chris <[chris\\_perez@fws.gov](mailto:chris_perez@fws.gov)>; DeLaGarza, Imer <[Imer\\_DeLaGarza@fws.gov](mailto:Imer_DeLaGarza@fws.gov)>; Perez, Sonny <[sonny\\_perez@fws.gov](mailto:sonny_perez@fws.gov)>  
**Subject:** Re: SpaceX

Hi there, I'm following up to see how things have gone since last week's events...

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**From:** Perez, Chris <[chris\\_perez@fws.gov](mailto:chris_perez@fws.gov)>  
**Sent:** Thursday, April 20, 2023 10:26 AM  
**To:** DeLaGarza, Imer <[Imer\\_DeLaGarza@fws.gov](mailto:Imer_DeLaGarza@fws.gov)>; Perez, Sonny <[sonny\\_perez@fws.gov](mailto:sonny_perez@fws.gov)>; Marsan, Joan D <[joan.marsan@sol.doi.gov](mailto:joan.marsan@sol.doi.gov)>; Gardiner, Dawn <[dawn\\_gardiner@fws.gov](mailto:dawn_gardiner@fws.gov)>  
**Subject:** Re: SpaceX

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**From:** DeLaGarza, Imer <[Imer\\_DeLaGarza@fws.gov](mailto:Imer_DeLaGarza@fws.gov)>  
**Sent:** Thursday, April 20, 2023 11:25:52 AM  
**To:** Perez, Chris <[chris\\_perez@fws.gov](mailto:chris_perez@fws.gov)>; Perez, Sonny <[sonny\\_perez@fws.gov](mailto:sonny_perez@fws.gov)>; Marsan, Joan D <[joan.marsan@sol.doi.gov](mailto:joan.marsan@sol.doi.gov)>; Gardiner, Dawn <[dawn\\_gardiner@fws.gov](mailto:dawn_gardiner@fws.gov)>  
**Subject:** Re: SpaceX

Very intense moments this morning. Our Fire and Law Enforcement are standing by at the closure point waiting for entry permission to assist in any way.

Imer

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**From:** Perez, Chris <chris\_perez@fws.gov>

**Sent:** Thursday, April 20, 2023 10:43 AM

**To:** Perez, Sonny <sonny\_perez@fws.gov>; Marsan, Joan D <joan.marsan@sol.doi.gov>; DeLaGarza, Imer <Imer\_DeLaGarza@fws.gov>; Gardiner, Dawn <dawn\_gardiner@fws.gov>

**Subject:** Re: SpaceX

Wow! No telling what people experienced at South Padre Island!

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**From:** Perez, Sonny <sonny\_perez@fws.gov>

**Sent:** Thursday, April 20, 2023 10:36:54 AM

**To:** Marsan, Joan D <joan.marsan@sol.doi.gov>; Perez, Chris <chris\_perez@fws.gov>; DeLaGarza, Imer <Imer\_DeLaGarza@fws.gov>; Gardiner, Dawn <dawn\_gardiner@fws.gov>

**Subject:** Re: SpaceX

Laguna Atascosa NWR staff reported that they felt vibration all the way at their station.

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**From:** Marsan, Joan D <joan.marsan@sol.doi.gov>

**Sent:** Thursday, April 20, 2023 10:02 AM

**To:** Perez, Chris <chris\_perez@fws.gov>; DeLaGarza, Imer <Imer\_DeLaGarza@fws.gov>; Perez, Sonny <sonny\_perez@fws.gov>; Gardiner, Dawn <dawn\_gardiner@fws.gov>

**Subject:** Re: SpaceX

Thanks. Yes, it looked like the launch itself was pretty intense. I was concerned.

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**From:** Perez, Chris <chris\_perez@fws.gov>

**Sent:** Thursday, April 20, 2023 9:00 AM

**To:** Marsan, Joan D <joan.marsan@sol.doi.gov>; DeLaGarza, Imer <Imer\_DeLaGarza@fws.gov>; Perez, Sonny <sonny\_perez@fws.gov>; Gardiner, Dawn <dawn\_gardiner@fws.gov>

**Subject:** Re: SpaceX

SpaceX has initiated the anomaly response plan to address the debris from this launch. As soon as the area is safe to enter, I expect to tour the site to assess post-launch impacts. I don't expect debris from the ship/booster since it was aborted off the coast but the launch itself expelled lots of debris and started a grass fire. Camera equipment and vehicles left across the highway were significantly damaged and pieces strewn about. Concrete pieces and debris from the pad also seem to have been cast out.

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**From:** Marsan, Joan D <joan.marsan@sol.doi.gov>

**Sent:** Thursday, April 20, 2023 9:58 AM

**To:** DeLaGarza, Imer <Imer\_DeLaGarza@fws.gov>; Perez, Chris <chris\_perez@fws.gov>; Perez, Sonny <sonny\_perez@fws.gov>; Gardiner, Dawn <dawn\_gardiner@fws.gov>

**Subject:** SpaceX

Hi, all,

Just checking in to see how this morning's launch treated you all and the Refuge...

Joan

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