

## Lee McEnergy

---

**From:** Arber, Laura (DFW) <Laura.Arber@dfw.wa.gov>  
**Sent:** Thursday, August 15, 2013 2:40 PM  
**To:** brogj@foster.com  
**Cc:** Mullins, Russ K (DFW); Lee McEnergy  
**Subject:** Runstad bank stabilization  
**Attachments:** Runstad Recommended Mitigation.pdf

Hello Joe,

I need to request of you to send me an email requesting to place the Runstad bank stabilization application on hold until you can provide some additional required information. WDFW still needs the following items per our recommendations to the prosecutor (see attached):

- Require the Runstads to contract a qualified geologist to develop a beach nourishment and monitoring plan that nourishes with the appropriate size and volume of materials as determined by the evaluations conducted in item 1 for the life of rock bulkhead structure. The beach nourishment and monitoring plan will be subject to WDFW approval.
- Require the Runstads to contract a qualified coastal shoreline vegetation expert to develop a shoreline re-vegetation plan. The shoreline re-vegetation plan will be subject to WDFW approval.
- Require the Runstads to contract a biologist certified by WDFW to develop a forage fish spawn survey plan to conduct monthly sand lance and surf smelt spawning surveys at the Runstad beach using WDFW survey protocols for a period of 1 year. The forage fish spawn survey plan will be subject to WDFW approval.
- Require that the Runstads contract a qualified biologist to develop plan to monitor the distribution and density of the existing eelgrass bed adjacent to the Runstad beach for 5 years. The eelgrass monitoring plan will be subject to WDFW approval.

As I mentioned on the phone, WDFW cannot permit an after-the-fact project (i.e. bank stabilization). WDFW will be permitting the corrective action required due to the work completed without a Hydraulic Project Approval (HPA). You will also need to submit a revised application that includes a project description discussing the items above, which is what will be permitted in the HPA along with the other recommendations. Please request to place this on hold until this additional information can be provided and approved by WDFW.

Please contact me if you have any questions.

Thank you,

*Laura Arber*

Washington Dept. of Fish and Wildlife | Marine Habitat Biologist | 16018 Mill Creek Blvd, Mill Creek, WA 98012 | p. (425)379-2306 | [Laura.Arber@dfw.wa.gov](mailto:Laura.Arber@dfw.wa.gov) | Hours M-Th. 7:30-3:30

## **Mitigation Recommendation:**

1. Require the Runstads to contract a coastal geologist to evaluate the shoreline and shoreline processes at the Runstad Beach.

- a. Evaluate the wave and current dynamics.
- b. Evaluate shoreline erosion and beach nourishment dynamics.
- c. Evaluate the stability of the shoreline and how upland activities may be affecting the stability of the shoreline.
- d. Evaluate the shoreline vegetation as it relates to shoreline stability.
- e. Evaluate potential soft shore protection alternatives to the existing rock bulkheads.

2. Based on the evaluations conducted in item 1, if the Runstad beach is determined to be suitable for soft shore protection then:

2a. Require the Runstads to contract a qualified coastal geologist and engineer to develop a soft shore protection design to replace the existing rock bulkheads with soft shore protection. The soft shore protection design will be subject to WDFW approval.

2b. Require removal of the existing rock bulkhead and construction of the approved soft shore protection.

2c. Require the Runstads to contract a qualified coastal geologist to develop a plan to monitor the constructed soft shore protection for 5 years. The monitoring plan will be subject to WDFW approval. Require implementation of the soft shore protection monitoring plan.

3. If based on the evaluations conducted in item 1, if it is not practical to replace the existing rock bulkhead with a soft shore alternative then:

3a. Allow the existing rock bulkheads to be retained as constructed.

3b. Require the Runstads to contract a qualified geologist to develop a beach nourishment and monitoring plan that nourishes with the appropriate size and volume of materials as determined by the evaluations conducted in item 1 for the life of rock bulkhead structure. The beach nourishment and monitoring plan will be subject to WDFW approval.

3c. Require implementation of the approved beach nourishment and monitoring plan.

4. For both pathways 2 and 3 above, the following items will also be required:

4a. Require that the quarry spall materials at the beach access site and in reach 3 be removed from the beach.

4b. Require that the native substrate materials removed from beach be replaced with an appropriate size and volume of native materials as determined by the evaluations conducted in item 1.

4c. Require the Runstads to contract a qualified coastal shoreline vegetation expert to develop a shoreline re-vegetation plan. The shoreline re-vegetation plan will be subject to WDFW approval. Require implementation of the shoreline re-vegetated plan.

4d. Require the Runstads to contract a biologist certified by WDFW to develop a forage fish spawn survey plan to conduct monthly sand lance and surf smelt spawning surveys at the Runstad beach using WDFW survey protocols for a period of 1 year. The forage fish spawn survey plan will be subject to WDFW approval. Require implementation of the approved forage fish spawn survey plan.

4e. Require that the Runstads contract a qualified biologist to develop plan to monitor the distribution and density of the existing eelgrass bed adjacent to the Runstad beach for 5 years. The eelgrass monitoring plan will be subject to WDFW approval. Require implementation of the approved eelgrass monitoring plan.