NW Natural ISS Lab Pilot Treatability Study Investigation
Gasco Sediments Site – Spring 2023
Field Change Request Form

Project Name: Gasco Sediments Site **Subconsultant:** Gravity Marine

Field Activity: Treatability study core collection **Request Number:** 3

To: Hunter Young, U.S. Environmental Protection Agency **Date:** May 18, 2023

Field Change Request (FCR) Title: Collection of Additional Sample Volume for Location ISSTS-001

Description
Section 2.1 of the *Revised In Situ Stabilization and Solidification Bench Scale Treatability Study Work Plan* (Work Plan) states that a primary objective of the treatability study is to perform bench scale testing using samples with a range of representative grain sizes that contain principal threat waste-nonaqueous phase liquids (PTW-NAPL). Location ISSTS-001 was proposed to target the collection of fine-grained sediments from 0 to 4 feet below mudline and the only sampling location proposed for Phase I testing. Multiple cores were successfully collected from this location and target depth interval and shipped to the analytical laboratory for Phase I testing. The analytical laboratory requested additional volume to perform additional testing molds at this location to characterize the range of testing parameters identified in the Work Plan. Based on the review of the core logs collected from this location, the entire vertical profile in this area comprises fine-grained materials containing layering of visual and olfactory signs of contamination. PTW-NAPL is also present in some intervals. Therefore, the additional volume requested by the laboratory could be collected from the 0- to 8-foot interval, which is representative of the conditions that will be in situ stabilized and solidified at this location. This depth interval would significantly reduce the number of cores that need to be collected to obtain the additional volume. A marine contractor is available to perform this additional sampling the week of May 30, 2023. Note that this collection would not impact NW Natural's planned field pilot study in the Gasco Sediments Site Project Area during the summer of 2023 because that study is reliant on the bench scale testing performed at location ISSTS-003, which is ongoing on schedule.

Recommended Change
Collect seven additional vibracores at location ISSTS-001, subsample from 0 to 8 feet below mudline, and submit this composite sample volume to the analytical laboratory for Phase I through IV testing consistent with the procedures identified in the EPA-approved Work Plan. This testing would replace the previously proposed testing using the 0- to 4-foot depth interval. This additional coring would be completed during the week of May 30, 2023.

Nik Bacher		May 18, 2023
Respondent Field Coordinator (or Designee)	**Signature**	**Date**

Approval:

Ryan Barth		May 18, 2023
Respondent Project Lead	**Signature**	**Date**

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