

From: [Mahar, Aziz \(ECY\)](#)
To: [Todd Pelman](#); [Nathan Soccorsy](#); [Jeremy Loretz](#); [kyla](#)
Cc: [Diamant, John \(ECY\)](#); [Garbush, Gayle \(ECY\)](#)
Subject: RE: Notice of Dye Study Work Plan Submission
Date: Monday, June 23, 2025 11:09:01 AM

Hi Todd and everyone,

The Department of Ecology (Ecology) has reviewed the Dye Tracer Study work plan submitted on June 9, 2025, as part of the Ecology Safety Methodology, Project Macoma's NPDES permit (WA0991051). The proposed dye tracer study is appropriate for its intended purpose. As outlined on pages 3 and 4 of the Technical Memorandum, Dye Tracer Study, dated June 6, 2025, this study is expected to provide meaningful confirmation of modeling assumption prior to the start of the pilot project. As you know, one of the discharge streams, associated with scientific operations, will have pH of 12.0 standard units and elevated temperature and will be discharged during ebb tide. The 10-hour dye tracer study will commence at slack tide using ambient seawater, the methodology is reasonable for assessing the diffuser performance and supporting key modeling assumptions.

The final dye tracer study report is expected to validate the hydrodynamic model. If the dye tracer study indicates that the initial modeling assumptions were not conservative or accurate, adjustments to the modeling may be required, as noted in the dye tracer study plan. Overall, this approach provides a reasonable basis for evaluating diffuser performance across the expected range of operational conditions.

Based on this review, Ecology finds the proposed dye tracer study approach acceptable and supports proceeding with the planned activities as outlined. Please ensure that the final report includes appropriate discussion of model validation and interpretation/presentation of results, as outlined in Section 5, Dye Tracer Study Report, on page 6 of the technical memorandum.

Thank you,

Aziz Mahar, P.E.

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From: Todd Pelman <tp@ebbcarbon.com>

Sent: Monday, June 9, 2025 4:03 PM

To: Mahar, Aziz (ECY) <amah461@ECY.WA.GOV>

Cc: Nathan Soccorsy <nsoccorsy@anchorqea.com>; Jeremy Loretz <jeremy@ebbcarbon.com>;
Diamant, John (ECY) <JDIA461@ECY.WA.GOV>

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External Email

Hi Aziz,

I just wanted to let you know that we submitted our Dye Study Work Plan along with a cover letter, and we received notice of submission from the WQWebPortal system.

Please let us know if you have any additional questions,
+todd

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