

US EPA ARCHIVE DOCUMENT



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

May 14, 2013

Via Certified Mail 7009 1680 0000 7663 7473
Return Receipt Requested

REPLY TO THE ATTENTION OF:

LU-9J

Larry Wilson
Senior Project Manager
Tyco Marinette Project Site
800 Water Street
Marinette, WI 54143

Re: EPA Approval of Technical Memorandum "Dredged Material Treatability Study Results, Tyco Fire Products LP Memominee River Sediment Removal Project, Marinette, WI" dated May 7, 2013, as prepared by CH2MHill

Dear Mr. Wilson:

This constitutes EPA approval of the CH2MHill Technical Memorandum "Dredged Material Treatability Study Results, Tyco Fire Products LP Memominee River Sediment Removal Project, Marinette, WI", as prepared for Tyco Fire Products LP and dated May 7, 2013. EPA's April 26, 2013, comments on the prior version of the plan have been addressed, based on EPA's review of your response to comments dated May 7, 2013, and EPA's review of the final version of the Technical Memorandum.

Based on the revised Technical Memorandum and our discussions, EPA is approving your management of the dredged sediment as follows:

Soft sediment: Treat with 20% by weight dry Ferix-3, and 10% by weight Portland cement. If sufficient quantities of dry reagent are unavailable, then the alternate approved mix is 25% by weight liquid 60% $\text{Fe}_2(\text{SO}_4)_3$ solution, and 10% by weight Portland cement.

Semi-consolidated material (SCM): Treat with 7.5% by weight dry Ferix-3, and up to 5% by weight Portland cement (as needed). Alternatively, a 5% by weight dosage liquid 60% $\text{Fe}_2(\text{SO}_4)_3$ solution, and 5 to 7.5% by weight Portland cement is acceptable, since quantities of dry reagent are expected to be limited.

Please note that in your response to EPA Specific Comment #6, we understood your response to say that although the dry mix reagent is preferred, the liquid reagent is more likely to be used based on the availability of chemicals. Use of the liquid reagent is approved for SCM.

In addition, in the event that the supply of dry reagent becomes so limited that liquid reagent must be used to treat soft sediment, you are required to notify EPA and WDNR of this issue, and should workability of the treated sediment require the use of wood chips, a detailed SOP for such use is required to be submitted prior to use, specifying details regarding how the volume of chips would be determined, the means and methods of mixing the chips, specifications for the wood chips, etc.

Conduct of the work must be in accordance with the terms of this approval, any is subject to receipt and compliance with all other required state and federal permits, including the terms of the WDNR Hazardous Waste Variance, as recently modified.

We look forward to continuing to work with you to complete this important environmental project. It is requested that a copy of the final Technical Memorandum and EPA approval be kept at the project site.

If you have any questions, please contact me at 312-886-6760.

Sincerely,



Michael J. Mikulka, P.E.
Senior Environmental Engineer
Land & Chemicals Division

cc: Kristin DuFresne, WDNR
Jeff Danko, CH2MHill
Rich Clarizio, EPA