

Smith, Ralph N - DNR

From: Smith, Ralph N - DNR
Sent: Tuesday, May 01, 2018 8:59 AM
To: Dave Larsen
Cc: Saari, Christopher A - DNR
Subject: May 1, 2018 DNR Technical Assistance Fee RE: Bayside

Hi Dave,

Good Morning. It has come to our attention that for Carbon-Based Injection (CBI) technology to be used for the Bayside Forestry, Inc. site in Solon Springs, that this will necessitate technical assistance from the Department and we need to factor in the DNR fee for this (of \$700) to process the review of the injection/infiltration request for this site. Thanks again for your help on these matters.

Any questions or concerns, contact us anytime.

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Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Ralph N. Smith

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From: Smith, Ralph N - DNR
Sent: Thursday, April 26, 2018 4:32 PM
To: 'Dave Larsen' <dlarsen@reiengineering.com>
Cc: Saari, Christopher A - DNR <Christopher.Saari@wisconsin.gov>
Subject: RE: Bayside

Hi Dave,

Per our phone conversation yesterday, I'm in agreement that a membrane to act as an extra barrier to potentially prevent direct contact with contaminated soils in situations with shallow groundwater like this site, might not be as practical as we would like.

Thanks,

Ralph Smith

Phone: (608) 261-6543

Ralph.Smith@wisconsin.gov

From: Dave Larsen [<mailto:dlarsen@reiengineering.com>]

Sent: Tuesday, April 17, 2018 3:17 PM

To: Smith, Ralph N - DNR <Ralph.Smith@wisconsin.gov>; Saari, Christopher A - DNR <Christopher.Saari@wisconsin.gov>

Subject: Bayside

Hello, just wanted to forward a draft version of the proposed remedial response (hybrid approach) for Bayside. Please don't put this on BRRTS. Once we are all in agreement I will clean it up and provide a formal proposal.

Big issue is that proposed costs bring this project up to about \$195K, or \$5K over budget. This scope includes a soil excavation (500 ton), membrane placement for direct contact soils and carbon injections for groundwater remediation. Also 4 rounds of qtly sampling post remediation.

Cost savings will be realized because carbon contractor is basing mob from North Carolina and they will be operating out of WI at the time. I am trying to perform this scope after the proposed carbon injection at Moose Junction and Moose has a good budget and the mob charges for Bayside could all be based on a mob from Moose. This would require all parties to work weekends (overtime) or incur additional mob fees. I also have a few logistical issues with carbon, as REI cant transport carbon for both Moose and Bayside in 1 trip (too heavy) and will need to have it shipped to the Bayside site.

For the carbon work, REI will need to mobilize with an enclosed trailer to provide dry storage for the carbon, we also need to provide poly tanks for a water source and other misc needs. REI also needs to mobilize in a 2nd truck to bring a large diesel generator (tandem axle unit weighing more than 7,500 pounds).

Anyway, intent is to perform a max 500 ton dig around MW2 to a depth of 3' (due to LNAPL). Will also need to level and grade area where membrane is proposed and then cover with 3-6" gravel. Finally, perform carbon injection (9000#), submit remedial report (variance) and conduct 4 rounds of groundwater sampling followed by another report. I need to squeeze about \$15K out of this budget to make it work and allow us to prepare a closure packet and abandon the wells. That's only collecting 4 rounds of post remedial groundwater samples before closure.

I have reservations on this one, but really don't have any better options. Let's discuss.

Thank you,

David N. Larsen P.G

Senior Hydrogeologist / Professional Geologist



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