

From: Henderson, David <Dave.Henderson@aecom.com>
Sent: Monday, May 8, 2023 2:20 PM
To: Beggs, Tauren R - DNR
Cc: GravelPit
Subject: RE: Notice to Proceed with Cap Modification/Penetration Request for Manitowoc City / Former Newton Tn Gravel Pit, BRRTS #02-36-000268

Tauren,

Got it – thank you.
dsh

David Henderson, P.E. (wi)
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From: Beggs, Tauren R - DNR <Tauren.Beggs@wisconsin.gov>
Sent: Monday, May 08, 2023 2:06 PM
To: Henderson, David <Dave.Henderson@aecom.com>
Cc: GravelPit <GravelPit@manitowoc.org>
Subject: Notice to Proceed with Cap Modification/Penetration Request for Manitowoc City / Former Newton Tn Gravel Pit, BRRTS #02-36-000268

Hi Dave,

Thanks for the clarifications below. This email acts as the notice to proceed with the cap modification/penetration in order to install the extraction wells.

As you indicated below, this the first step for construction of the Engineered Treatment System (i.e., soil vapor extraction (SVE) with LNAPL recovery). Once the installation of the extraction wells is complete and depending on the timing of when the construction of the remainder of the engineered treatment system will be proposed, it may be appropriate to either submit a standalone documentation report for the work completed for the extraction wells or submit a documentation report at the time when the entire treatment system is complete in the future.

Please keep DNR informed of the completion of this work and the future plans for when a request would be submitted for the rest of the treatment system.

If you have any questions, please let me know.

Regards,

We are committed to service excellence.

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

Tauren R. Beggs

Phone: (920) 510-3472

Tauren.Beggs@wisconsin.gov (preferred contact method during work at home)

From: Henderson, David <Dave.Henderson@aecom.com>

Sent: Thursday, May 4, 2023 4:19 PM

To: Beggs, Tauren R - DNR <Tauren.Beggs@wisconsin.gov>

Cc: GravelPit <GravelPit@manitowoc.org>

Subject: RE: Former Town of Newton Pit, BRRTS #02-36-000268 - Cap Penetration Request

Tauren,

Happy to help.

Please see the responses below, in blue text.

Thanks

dsh

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From: Beggs, Tauren R - DNR <Tauren.Beggs@wisconsin.gov>

Sent: Thursday, May 04, 2023 1:59 PM

To: Henderson, David <Dave.Henderson@aecom.com>

Cc: GravelPit <GravelPit@manitowoc.org>

Subject: RE: Former Town of Newton Pit, BRRTS #02-36-000268 - Cap Penetration Request

Hi Dave,

I have the following couple clarifications I wanted to get:

- Can you confirm that the wells are still planned to go down to 675 ft msl as originally proposed in the approved remedial action plan?

Short answer = generally yes.

Long answer = We did a study of 20 plus years of GW elevation data and, working with the “driest”/lowest elevation data, we designed our well screens to be below the lowest historic GW elevation. Because the new cap over the area is sloped and we need to adjust our well construction materials to optimize screen and casing lengths, our bottom of well elevations range as follows:

2 at 677, 2 at 675, 3 at 672, and 1 at 670.

- How does the waste generated as part of the sonic drilling activities plan to be handled? When the capping and treatment pond were previously completed for the remedial action all contaminated soil at that time was placed under the cap, but now that the cap is already in place, will you be landfilling the contaminated soil then?

AECOM field staff will be on-site during drilling activities. Staff will observe and field screen, with a PID/FID, the soil cuttings. Soil cutting with visual, olfactory, or PID screening results greater than approximately 10 instrument units (IUs) will be considered impacted. Based on our knowledge of the site, we are anticipating that approximately ½ of the drill cuttings will be impacted. The impacted drill cuttings will be drummed, sampled for laboratory characterization testing, and stored on-site for future disposal under an approved profile at an approved landfill. The drill cutting with no visual, olfactory, or with PID results less than approximately 10 IUs will be disposed of on-site in a fill disposal area north of the capped area.

Please let me know when you get a chance.

Thanks,

We are committed to service excellence.

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

Tauren R. Beggs

Phone: (920) 510-3472

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From: Henderson, David <Dave.Henderson@aecom.com>

Sent: Tuesday, April 25, 2023 9:49 AM

To: Beggs, Tauren R - DNR <Tauren.Beggs@wisconsin.gov>; GravelPit <GravelPit@manitowoc.org>

Subject: Former Town of Newton Pit, BRRTS #02-36-000268 - Cap Penetration Request

Tauren,

AECOM, on behalf of the City of Manitowoc, recently submitted to the Department an *As-Built Documentation, Operation & Maintenance Plan, and Cap Maintenance Plan* report for the groundwater treatment pond and the engineered cap over the Western Source Area. As required by the *Draft Western Source Area Cap Maintenance Plan*, Appendix E of the report, we are requesting approval from the Department to penetrate the engineered cap for the purpose of installing extraction wells.

This is the first step for construction of the Engineered Treatment System (i.e., soil vapor extraction (SVE) with LNAPL recovery). The conceptual design for the Engineered Treatment System was presented

to the Department as part of our remedial action options report, which was approved by the Department on July 7, 2017.

AECOM is proposing to install eight dual purpose (i.e., SVE and LNAPL recovery) wells, see attached Figure 1. The wells will be 4-inch diameter with stainless steel V-wire, 20-slot, screens with stainless steel casings, finished with Sch 80 PVC casings to facilitate future construction of the wellhead. Drilling for installation of the wells will require hand-excavation of the 2-foot thick vegetated cap, hand-cutting of the geomembrane/bentonite cap, then advancement of the soil boring using sonic drilling methods on a tracked rig. At completion, each well will be temporarily sealed at the geomembrane level with bentonite then finished above grade. For the immediate future, the extraction wells will be used to monitor LNAPL levels in the source area. We anticipate that, during future construction for the balance of the Engineered Treatment System, the wells will be finished with remediation style wellheads within flush style manholes to accommodate the SVE and LNAPL system piping.

The drilling work to install the extraction wells is tentatively scheduled to begin May 22, 2023.

Please let us know if you have any questions and if we may proceed with penetrating the engineered cap for the installation of the extraction wells.

Thanks
dsh

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