Dawn Bartel

From: Brian Helminger <brian.helminger@hvmsd.org>
Sent: Tuesday, August 7, 2018 1:18 PM
To: Dawn Bartel
Subject: FW: NWLF - HOTV response
Attachments: M-HOVMSD Response.pdf

From: Van Straten, Brian J. <Brian.VanStraten@outagamie.org>
Sent: Thursday, August 2, 2018 3:47 PM
To: 'brian.helminger@hvmsd.org' <brian.helminger@hvmsd.org>
Cc: 'James Fenlon' <James@littlechutewi.org>
Subject: FW: NWLF - HOTV response

Good afternoon Brian,

Thanks for sending us a response to our request for confirmation that HOVMSD would be able to accept leachate from the proposed Northwest Landfill.

As mentioned, this letter that we are seeking is part of our Feasibility Report submittal that is planned to go the DNR in early September to start the review process and to get some level of acceptance/concurrence that HOV would have the capacity to accept this.

As a courtesy we have tasked Foth, our landfill consultants to properly respond to the questions HOV proposed so we can develop a comprehensive approach once we know what thresholds and volumes we can transmit and what type of contingency plans we need to have in place should you experience any delays in acceptance.

We look forward to working with you and getting the concurrence letter into our submittal package over the next few weeks.

Sincerely,

Brian

Brian J. Van Straten | Director
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Memorandum

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July 31, 2018

TO: Brian Van Straten, Outagamie County Recycling & Solid Waste Department

CC: Marty Sturzl, Foth Infrastructure & Environment, LLC

FR: Phil Korth, Foth Infrastructure & Environment, LLC

RE: Leachate Discharge to Heart of the Valley Metropolitan Sewerage District

Outagamie County Recycling & Solid Waste Department (OCRSW) has received a letter dated July 23, 2018 from Heart of the Valley Metropolitan Sewerage District (HOVMSD) as a response to OCRSW's request for acceptance and treatment of leachate from the future Northwest Landfill (NWLF). In the letter, HOVMSD requested more information from OCRSW regarding the leachate discharge and future plans. HOVMSD is concerned about high ammonia loads that could impact wastewater treatment and cause an overloaded condition with resulting effluent discharge permit violation. The following questions were raised in the letter from HOVMSD followed by Foth's recommended response in italics:

1. What is the overall size of the proposed expansion and how does it compare to the other existing landfill cells?

   Response: *HOVMSD is currently treating leachate from the existing 53.2-acre Northeast Landfill (NELF) and the 55-acre East Landfill. All of the NELF cells have been constructed and the current condition represent the peak leachate generation. Based on operating record, the current leachate generation rate is estimated to be ~8.6 million gallons per year.*

   Leachate generation for the East Landfill is approximately 7.0 million gallons per year. The East Landfill is closed with a composite cover. Therefore, the leachate generation is expected to steadily decline to a rate of ~2 million gallons per year.

   The proposed NWLF is 80.7 acres and would be constructed in phases over a 15 year period. The estimated peak leachate generation rate is ~8.4 million gallons per year during Year 8 of operation. At this time leachate generation from the NELF is expected to have declined to ~2 million gallons per year.

2. How and at what flow rate will the leachate be delivered to the Little Chute sewerage system? Will provisions be incorporated to eliminate slug loads ultimately delivered to HOVMSD?

   Response: *The OCRSW is over five miles from HOVMSD. Any short-term discharges will be somewhat attenuated by the time the discharge reaches HOVMSD and will take between 3.5 and 7 hours to reach the treatment facility. OCRSW can incorporate changes to its delivery system to control the loading rate provided the rate is reasonable and consistent with that being delivered by other industrial sources delivering wastewater to the plant. To do this, HOVMSD will need to provide guidance on the acceptable loading rate.*

3. What ammonia management technology changes will OCRSW make in the event that the ammonia levels in the leachate discharge threaten an exceedance of HOVMSD's ammonia treatment design capacity?

   Response: *OCRSW requests a target value (concentration or pounds/day) that can be discharged to HOVMSD without threatening a permit exceedance. Having a target value will aid OCRSW in developing an appropriate ammonia management strategy. To implement an ammonia treatment process will require more than 12 months to plan and implement. Having a plan in place ready for implementation will reduce the time requirements. In addition, there is very limited area near the NELF for installation of a pre-treatment system.*

4. Is OCRSW planning any sort of leachate treatment to reduce the ammonia concentration of its discharge?

   Response: *OCRSW is not planning on any ammonia treatment at this time. If HOVMSD can provide a target or maximum value that can be discharged, OCRSW will be able to make plans to meet the maximum value through control of the discharge rate. If flow control cannot be implemented to avoid exceeding the maximum limits, development of an ammonia treatment system will be initiated.*

5. Will ORCSW develop alternative disposal plans in the event future maintenance or equipment failures require HOVMSD to temporarily take a portion of its process train out of service for repairs?

   Response: *OCRSW will prepare an alternative disposal plan. This will likely depend on getting an agreement from another municipal wastewater treatment plant to accept the leachate during the time period of an equipment outage. OCRSW will need advanced notification of any planned events.*