

Dawn Bartel

From: Brian Helminger <brian.helminger@hvmsd.org>
Sent: Wednesday, April 8, 2020 11:22 AM
To: Dawn Bartel
Subject: FW: Thursday - Donohue meeting
Attachments: Discussion items 3-19.pdf

From: Brian Helminger <brian.helminger@hvmsd.org>
Sent: Tuesday, March 17, 2020 9:52 AM
To: Kevin Skogman <kevin.skogman@hvmsd.org>; Chad Giackino <chad.giackino@hvmsd.org>; Dave Casper <djc3xx@gmail.com>
Cc: 'Gerbitz, Mike' <mgerbitz@donohue-associates.com>
Subject: Thursday - Donohue meeting

Gentlemen:

I just got off the phone with Mike Gerbitz as we discussed options for meeting and reviewing information for our scheduled meeting on Thursday. Donohue has the ability to teleconference with a web service called Zoom web meeting that they have been using for the past few months. It involves them hosting a meeting and sending us an invitation that after accepting gives a phone number that provides voice communication ability. On the HOVMSD end, we can log in on the commission meeting room lap top and project Mikes laptop on the screen. Mike would control the images with back and forth voice communication being thru the conference room phone system.

Mike and I did a dry run in my office earlier and his presentation came thru just as if the power point was on my computer and so this option will take the place of a face to face meeting on Thursday. If it goes as slick as it did in my office it will be a real winner given the current circumstances.

Attached are some meeting notes I made a couple weeks ago now with hand scribble updates.

Brian Helminger

District Director

Heart of the Valley
Metropolitan Sewerage District
801 Thilmany Road
Kaukauna, WI 54130
Phone: 920-766-5731
www.hvmsd.org

3/19/20 Clearwater reduction path

- Review findings for 2019 community performance and review and provide comment on Commission meeting presentation
- Presentation to Commission @ 4/14 regular meeting – incorporate any Commission comments into final presentation to the member community leadership
- Community meeting - week following Commission meeting (April 21, 22, 23?)

April 16th - how questionable

TO 1 Master planning – loadings and capacities

- TKN data – determine what data and the frequency and method/format (Excel datasheet or?) for transfer of accumulated data to Donohue
- Recycle flow data, storage tank decant data and flow, - HOVMSD in process
- BAF backwash? → Is this recycle of concern? Should we get new data on it?

TO 2 Effluent filtration Kickoff

- Existing filters – information needed for evaluation? Anticipated needs for study?
- Filter equipment mfr, specs, design criteria

TO 3 Ammonia/Local Limits

- Brainstorming on direction, sequence, outcomes

Dawn Bartel

From: Brian Helminger <brian.helminger@hvmsd.org>
Sent: Wednesday, April 8, 2020 11:22 AM
To: Dawn Bartel
Subject: FW: HOVMSD resolution
Attachments: DOJ - Open Meetings.pdf; MMSD Notice.pdf; COVID-19 Policy Memo 3-17-2020.doc; [wiscityandvillageattys] temporary adjustments for public meetings (18.0 KB)

-----Original Message-----

From: Brian Helminger <brian.helminger@hvmsd.org>
Sent: Friday, March 20, 2020 2:41 PM
To: bruce siebers <bmsiebers@gmail.com>; Dave Casper <djc3xx@gmail.com>; John Sundelius <sundelius@kaukauna-wi.org>; kcoffey238@gmail.com; Pat Hennessey <phennessey@darboysanitary.com>
Subject: FW: HOVMSD resolution

I've followed up with Axley as it relates to an appropriate State of Emergency Declaration for the District. This may be a timely and appropriate action component moving forward.

Brian Helminger
District Director

Heart of the Valley
Metropolitan Sewerage District
801 Thilmany Road
Kaukauna, WI 54130
Phone: 920-766-5731
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-----Original Message-----

From: William S. Cole <WCole@axley.com>
Sent: Friday, March 20, 2020 1:28 PM
To: 'Brian Helminger' <brian.helminger@hvmsd.org>
Cc: Megan J. Jerke <MJerke@axley.com>
Subject: RE: HOVMSD resolution

Brian,

In follow up to our phone conversation, the Commission may pass a resolution granting emergency powers. Please note a few things with respect to the resolution you forwarded from the Village of Little Chute:

1. The references to sec. 323.11 should be changed to 200.11. Sec. 323.11 only applies to "local units of government", of which the District is not.
2. The resolution should expressly grant a specific person the powers listed in the first 3 bullet points. I usually say the Chairperson, or in their absence or incapacity, the Administrator.

Note, with respect to the fourth bullet point regarding meetings by video conference, you still need to provide a forum for the public to observe the entire meeting (be able to hear all members and see all documents presented to/by them). I suggest the ability for the public to access the streaming service used, and have a room at your normal meeting place with a computer and screen so they can watch. The agenda should include a reference that the meeting will be held via teleconference and the public may observe by attending at x address or logging on to y website.

FYI, I have attached a few document I think may be helpful to you:

1. the recent DOJ guidance concerning teleconferenced meetings.
2. announcements from a couple other districts re: COVID operations.
3. an emergency resolution Oshkosh will consider regarding emergency measures.

As always, feel free to call should you have any questions or concerns.

Bill

William S. Cole
Phone: 608.283.6766
Axley Brynelson, LLP

-----Original Message-----

From: Brian Helminger <brian.helminger@hvmsd.org>
Sent: Friday, March 20, 2020 12:09 PM
To: William S. Cole <WCole@axley.com>
Subject: HOVMSD resolution

-----Original Message-----

From: info@hvmsd.org <info@hvmsd.org>
Sent: Friday, March 20, 2020 12:05 PM
To: brian.helminger@hvmsd.org
Subject:

TASKalfa 2551ci
[00:17:c8:24:df:0c]

Dawn Bartel

From: Brian Helminger <brian.helminger@hvmsd.org>
Sent: Saturday, March 21, 2020 2:46 PM
To: bruce siebers; Dave Casper; John Sundelius; kcoffey238@gmail.com; Pat Hennessey
Cc: Dawn Bartel; Kevin Skogman
Subject: Pandemic operation plan
Attachments: Pandemic Operation Plan.doc

I've made revisions more specific to the Districts immediate circumstance and the plans as we discussed on Friday.

Brian Helminger

District Director

Heart of the Valley
Metropolitan Sewerage District
801 Thilmany Road
Kaukauna, WI 54130
Phone: 920-766-5731
www.hvmsd.org

Dawn Bartel

From: Brian Helminger <brian.helminger@hvmsd.org>
Sent: Wednesday, April 8, 2020 11:23 AM
To: Dawn Bartel
Subject: FW: Landfill
Attachments: Nw Landfill Leachate Treatment (102 KB); FW: Community facilities committee? (483 KB)

From: Brian Helminger <brian.helminger@hvmsd.org>
Sent: Thursday, March 26, 2020 1:58 PM
To: Chad Giackino <chad.giackino@hvmsd.org>; Dave Casper <djc3xx@gmail.com>; 'Gerbitz, Mike' <mgerbitz@donohue-associates.com>
Subject: FW: Landfill

I received this today as a follow up on the most recent activities dialogue related to Little Chute and the Outagamie landfill.

Brian Helminger

District Director

Heart of the Valley
Metropolitan Sewerage District
801 Thilmany Road
Kaukauna, WI 54130
Phone: 920-766-5731
www.hvmsd.org

From: James Fenlon <James@littlechutewi.org>
Sent: Thursday, March 26, 2020 9:44 AM
To: Brian Helminger (brian.helminger@hvmsd.org) <brian.helminger@hvmsd.org>
Cc: CKoehler@herrlingclark.com; Kent Taylor <Kent@littlechutewi.org>
Subject: FW: Landfill

Brian,

Given HOVMSD was involved in these conversations, I wanted you to have the attached information.

We can discuss further.

James



James P. Fenlon, Village Administrator
Village of Little Chute | 108 W Main Street | Little Chute, Wisconsin 54140
☎ (920) 423-3850 | ✉ james@littlechutewi.org | [Web](#) | [Facebook](#)

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From: Chuck Koehler [<mailto:CKoehler@herrlingclark.com>]
Sent: Thursday, March 26, 2020 8:20 AM
To: James Fenlon; Kent Taylor; Chris Murawski
Subject: RE: Landfill

Good morning James, Kent, and Chris,

See the two emails I received from Joe Guidote yesterday.

I will let you forward these to Dean and Josh with your own instructions email.

The main point is that the Village needs to respond to this information promptly to ECWRPC.

The County has obtained a flexible waiver of the 30 day advance rule for submission of information to be on their next agenda which is April 22, 2020.

You should focus on the following three documents to help expedite your response which I will only make brief and incomplete comments in this email to get this information to you as quickly as possible.

1. **Guidote email to VerBoomen 3/24/20**: He states Appleton has now made a three year commitment to the County for the first three year commitment cycle which will not yet require pre-treatment.
2. **Foth memorandum to ECWRPC 3/4/20**: On page 2 Foth contests Little Chute's argument about the requirement for two pre-treatment plans due to decline in volume of the current East and NELF currently directed to HOV, and pre-treatment is unlikely for these two declining cells in the future recommending that AWWTP is the primary disposal option for the new NWLF.
3. **Appleton/Kreski letter to Van Straten 2/13/20**: Committing to accept leachate from NWLF for the first three year permit cycle.

Thank you.

Attorney Charles D. Koehler
Herrling Clark Law Firm Ltd.
800 N. Lynndale Drive
Appleton, WI 54914
920.882.3227 (Telephone)
920.739.6352 (Fax)
www.herrlingclark.com

Dawn Bartel

From: Guidote, Joseph P. <Joseph.Guidote@outagamie.org>
Sent: Wednesday, March 25, 2020 10:03 AM
To: Chuck Koehler
Cc: Van Straten, Brian J.; Parins, Gregory J.; Homan, Kara J.; Moser, Craig W.; Meulemans, Becky A.; Todd Verboomen
Subject: FW: Community facilities committee?
Attachments: M-B V Straten NWLF leachate DRAFT 3-4-2020.docx; 200213_OCRSW Leachate Acceptance_Ammonia & Phos.pdf

Chuck,

This e-mail forwards the Van Straten and Foth communications I referenced in my e-mail to ECWRPC.

Joe Guidote

From: Van Straten, Brian J.
Sent: Tuesday, March 24, 2020 3:30 PM
To: 'tverboomen@ecwrpc.org' <tverboomen@ecwrpc.org>
Cc: 'mbadtke@ecwrpc.org' <mbadtke@ecwrpc.org>; Homan, Kara J. <Kara.Homan@outagamie.org>; Guidote, Joseph P. <Joseph.Guidote@outagamie.org>; Moser, Craig W. <Craig.Moser@outagamie.org>
Subject: FW: Community facilities committee?

Good afternoon Todd,

You had inquired about a brief summary in regards to the commission meeting in April, so what I would like to do is provide you the draft memorandum from our engineering consultants outlining their review of the options available for the NWLF leachate transmission.

Based on their review and the City of Appleton's ongoing concurrence to accept leachate as they indicated as part of the NWLF Feasibility submittal and subsequent Favorable Feasibility Determination by the WDNR in October, 2019; this leachate transmission plan, along with the additional concurrence by the City of Appleton in February will be the most cost effective means for handling leachate for this much needed landfill expansion to occur on behalf of the Tri-County partnership of Brown, Winnebago, and Outagamie Counties Integrated Waste Management System.

We look forward to getting on the agenda, and receiving final concurrence by ECWRPC to amend the sewer service area for inclusion of both the NWLF and existing West Landfill.

If you have any questions, please don't hesitate to call or e-mail.

If you would like to set up a conference call with us we also can arrange that as well to allow Joe Guidote be get scheduled in as well.

Sincerely,

Brian

Brian J. Van Straten | Director

Outagamie County | Recycling & Solid Waste Department

1419 Holland Road | Appleton, Wisconsin 54911

(office) 920-832-1521 (cell) 920-858-0044

brian.vanstraten@outagamie.org

www.RecycleMoreOutagamie.org



From: Todd Verboomen [<mailto:TVerboomen@ecwrpc.org>]

Sent: Tuesday, March 24, 2020 1:10 PM

To: Homan, Kara J. <Kara.Homan@outagamie.org>; Melissa Kraemer Badtke <mbadtke@ecwrpc.org>

Cc: Van Straten, Brian J. <Brian.VanStraten@outagamie.org>; Guidote, Joseph P. <Joseph.Guidote@outagamie.org>; Moser, Craig W. <Craig.Moser@outagamie.org>

Subject: RE: Community facilities committee?

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Yes, I agree we all need to be flexible. Still can you provide me a brief summary of what the County will be sending to review? This will allow me to reach out to the CFC Members and inform them why we think adding this as an agenda item to April 22nd is encouraged. I think that if we get a yes from the Committee we can move forward. That said, please shoot me a note providing a brief description of new information you will be submitting. I will share the updated info provide by the County with the CFC and ask for a 'yes' to add this to the agenda. I am going to default to Melissa (as acting Interim Executive Director) on this, but I feel if the CFC agrees to add this to the agenda I would ask that all materials be submitted by April 8th. I would like at least two weeks min. to be able to review new information and make sure other interested parties can do the same. For the same reasons you stated below, we are all working remotely and less than two weeks to review and share should not be considered. We will do all we can (within reason and within any flexibility in EC's SSA procedures) to be flexible and understanding throughout this crazy time.

While our office is closed to the public as of 3/17/2020, our staff is working virtually to continue daily operations

Todd A. Verboomen – Principal Environmental Planner



Calumet • Fond du Lac • Menominee • Outagamie
Shawano • Waupaca • Waushara • Winnebago

400 Ahnaip Street, Suite 100 – Menasha, WI 54952

Phone: 920-751-4770 Fax: 920-751-4771

E-mail: tverboomen@ecwrpc.org / Website: www.ecwrpc.org

From: Homan, Kara J. [<mailto:Kara.Homan@outagamie.org>]

Sent: Tuesday, March 24, 2020 12:30 PM

To: Melissa Kraemer Badtke; Todd Verboomen

Cc: Van Straten, Brian J.; Guidote, Joseph P.; Craig Moser

Subject: Re: Community facilities committee?

Todd-

Would you offer any flexibility in your typical cutoff of today? For example, at the county, for planning and zoning matters, unless a public hearing notice is required for publication, we routinely allow submissions a week or two before the meeting date so long as we can finish our staff reviews.

Almost the entire county has been consumed in COVID response and preparedness planning for nearly two weeks to the point it is unlikely we can get you what we would need today in the situation we still desire an April meeting. It has been difficult for us to assess our desired timing due to covid, so once I have a better sense of your flexibility and our desired timeline given the circumstances, we can firm things up.

Thank you,

Kara

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From: Todd Verboomen <TVerboomen@ecwrpc.org>

Sent: Tuesday, March 24, 2020 6:51:54 AM

To: Kara Homan <kara.homan@outagamie.org>; Melissa Kraemer Badtke <mbadtke@ecwrpc.org>

Cc: Van Straten, Brian J. <Brian.VanStraten@outagamie.org>; Guidote, Joseph P. <Joseph.Guidote@outagamie.org>; Craig Moser <craig.moser@outagamie.org>

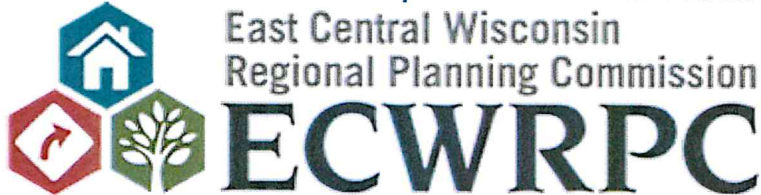
Subject: RE: Community facilities committee?

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The cutoff date to submit requests is a month prior. For example the next regularly scheduled CFC meeting is June 10th and the cutoff is May 11th. So basically we are right at that month out as of yesterday. Is there any information (progress, agreements, facilities study, etc.) that you can share? That way when I do reach out to the CFC I can give them some basic info to consider adding the Outagamie Co. Landfill to the April 22nd agenda.

While our office is closed to the public as of 3/17/2020, our staff is working virtually to continue daily operations

Todd A. Verboomen – Principal Environmental Planner



Calumet • Fond du Lac • Menominee • Outagamie
Shawano • Waupaca • Waushara • Winnebago

400 Ahnaip Street, Suite 100 – Menasha, WI 54952

Phone: 920-751-4770 Fax: 920-751-4771

E-mail: tverboomen@ecwrpc.org / Website: www.ecwrpc.org

From: Homan, Kara J. [<mailto:Kara.Homan@outagamie.org>]

Sent: Monday, March 23, 2020 7:56 PM

To: Melissa Kraemer Badtke

Cc: Van Straten, Brian J.; Todd Verboomen; Guidote, Joseph P.; Craig Moser

Subject: RE: Community facilities committee?

Thank you Melissa; we are meeting internally soon and will be in touch whether we desire the April 22nd meeting. This is not a new amendment request, rather an ongoing item that the committee postponed action on until a future meeting.

Todd, do you have a cutoff date for making this agenda?

Thank you,

Kara

From: Melissa Kraemer Badtke [mbadtke@ecwrpc.org]

Sent: Monday, March 23, 2020 7:44 PM

To: Homan, Kara J.

Cc: Van Straten, Brian J.; Todd Verboomen

Subject: RE: Community facilities committee?

***** WARNING: This message originated outside of Outagamie County. DO NOT click links, open attachments or reply unless you are sure the content is legitimate and safe. *****

Hi Kara and Brian~

At the last community facilities committee meeting, the committee agreed to meet on April 22nd to consider action on the Village of Harrison and City of Appleton SSA Amendment. We will need to reach out to our committee to see if they would like consider new amendments at the April 22nd meeting. Todd and I will connect with the committee this week and follow up with you regarding this potential CFC agenda item.

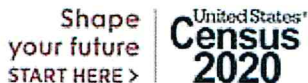
I apologize for the inconvenience and we'll be in touch.

Best,

Melissa

**Melissa A. Kraemer Badtke – Interim Executive Director
Principal Planner/Safe Routes to School Coordinator**

While our office is closed to the public as of 3/17/2020, our staff is working virtually to continue daily operations.



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Phone: 920-751-4770 ext. 6828

E-mail: mbadtke@ecwrpc.org / Website: www.ecwrpc.org

Our Mission is to build relationships and cooperative, visionary growth strategies that keep our region beautiful, healthy, and prosperous.

From: Homan, Kara J. [<mailto:Kara.Homan@outagamie.org>]

Sent: Monday, March 23, 2020 4:41 PM

To: Melissa Kraemer Badtke

Cc: Van Straten, Brian J.

Subject: Community facilities committee?

Melissa-

Is the ECWRPC community facilities still scheduled for April; if so, what is the date?

The Outagamie Co. Landfill has a pending item for sewer service and we are trying to get a timeline together on followup details now that the dust is settling a bit on covid. If not, when do you anticipate the next meeting being?

Thank you,

Kara

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"...meeting community needs...enhancing quality of life."

Department of Utilities
Wastewater Treatment Plant
2006 E Newberry Street
Appleton, WI 54915-3128
920-832-5945 tel.
920-832-5949 fax

February 13, 2020

**BRIAN VAN STRATEN
OUTAGAMIE COUNTY RECYCLING & SOLID WASTE (OCRSW)
1419 HOLLAND ROAD
APPLETON, WI 54911-8985**

RE: OCRSW Northwest Landfill Leachate Acceptance – Ammonia and Phosphorus Limits

Dear Mr. Van Straten

As noted in the December 16, 2019 OCRSW Northwest Landfill Leachate Acceptance-Clarification letter, it is the intent of the Appleton Wastewater Treatment Plant (AWWTP) to continue to accept the original West Landfill leachate as defined in the April 1981 agreement with Appleton. Appleton has also provided an acceptance letter for the leachate from the proposed Northwest Landfill. Appleton would like to communicate two important factors in the East Central Wisconsin Regional Planning Commission's (ECWRPC) proposed sewer service amendment request to include the Northwest and West landfill in the Appleton Sewer Service Area (SSA).

First, Appleton is currently undergoing a rate study and will introduce new rates within the year. The rate study will introduce future charges for ammonia and phosphorus and will be in addition to the existing suspended solids, BOD, and discharge flow. The AWWTP is in the process of developing these concentration, mass, and flow limits as it relates to ammonia and phosphorus with guidance from our consultants and the Wisconsin Department of Natural Resources (WDNR). Be advised that this rate study will impact the OCRSW's future rates.

Second, a limitation for the AWWTP is that the annual average design for influent ammonia loading is currently exceeded, however it has reserve capacity that may be utilized during the first permit cycle (3 years) of the new NW Landfill Cell. As such, OCRSW will be renewing their industrial permit in May of 2020 and although the AWWTP may assimilate the initial loading from the Northwest Landfill expansion, OCRSW's industrial permit will require future modification to conform to reduced ammonia limits.

February 13, 2020

OCRSW Northwest Landfill Leachate Acceptance – Ammonia & Phosphorus Limits

Page 2 of 2

Finally, the AWWTP Pretreatment (PT) Program is one of twenty-six Wisconsin PT programs delegated by the WDNR and the Environmental Protection Agency (EPA). Appleton's PT Program is in place to establish local limits and guidance to prevent or reduce conventional and toxic pollutants from entering the Appleton sewer system. As the control authority, it is my responsibility to evaluate the capabilities of the wastewater plant and establish limits to prevent pass through, interference with operations, or exceedances that violate Appleton's Wisconsin Pollution Discharge Elimination System (WPDES) permit.

Our mutual understanding is that OCRSW shall provide pretreatment to the level required during the future permitting processes governing any and all discharges that include, but are not necessarily limited to, ammonia discharges. The AWWTP requests your signature at the bottom of this letter acknowledging your receipt of the same along with the above explanations regarding future nutrient limit surcharges and expected future pretreatment requirements. Please return your acknowledgment within the next thirty (30) days.

Please feel free to contact me with questions regarding this letter.

Thank you,



Brian J. Kreski
City of Appleton Department of Utilities
Environmental Programs Coordinator
Office: 920.832.2316
Mobile: 920.419.6735
Email: Brian.Kreski@appleton.org

Brian Van Straten

date

Cc: Joe Guidote
Kara Homan
Chris Shaw
Paula Vandehey
Chris Behrens



Memorandum

Foth Infrastructure & Environment, LLC
2121 Innovation Court, Suite 300
P.O. Box 5126 • De Pere, WI 54115-5126
(920) 497-2500 • Fax: (920) 497-8516
www.foth.com

March 4, 2020

TO: East Central Wisconsin Regional Planning Commission

CC: Brian Van Straten, Director, Outagamie County Recycling and Solid Waste Department
Joe Guidote, Outagamie County Corporation Counsel
Kara Homan, Outagamie County Director of Development & Land Services
Paula Vandehey, Public Works Director, City of Appleton
James Fenlon, Administrator, Village of Little Chute
Brian Helminger, Heart of the Valley, Sewerage District Director

FR: Chris Anderson, P.E., Senior Client Manager, Foth Infrastructure & Environment, LLC

RE: Outagamie County Northwest Landfill
Leachate Acceptance Review

Foth Infrastructure & Environment, LLC (Foth) has prepared this memo to communicate our review of the options to manage and dispose of leachate from the proposed Outagamie County Northwest Landfill (NWLf) as it relates to leachate infrastructure needs, leachate acceptance limits and the criteria for disposal at various wastewater treatment plants.

Currently leachate from the various landfills managed on-site by the Outagamie County Recycling and Solid Waste Department (OCRSD) are routed to both the Appleton Wastewater Treatment Plant (AWWTP) and the Heart of the Valley Metropolitan Sewer District (HOVMSD). At this time, AWWTP has provided an acceptance letter for the leachate from the proposed NWLF and this plant has been identified as the primary disposal location for the future site.

Recent issues have been raised regarding pre-treatment needs and timing as it relates to loading limits for Ammonia and Phosphorus and the East Central Wisconsin Regional Planning Commission's (ECWRPC) proposed sewer amendment request to include the NWLF and the West Landfill in the Appleton Sewer Service Area (SSA). Foth has reviewed the February 16, 2020 letter sent to OCRSD from the city of Appleton regarding AWWTP acceptance criteria, as well as, the information provided by

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HOVMSD regarding load capacity. In addition, Foth has considered the level of leachate system infrastructure that will be needed to manage the NWLF leachate either through the Village of Little Chute and HOVMSD and/or the city of Appleton sewer and AWWTP. Our review is summarized in the paragraphs below.

- ◆ AWWTP - The City of Appleton (Appleton) states that the AWWTP will accept the NWLF leachate provided OCRSWD agrees in writing to provide pretreatment to the level required after the first permit cycle (3 years) of the NWLF cell. In addition, the letter states that Appleton is currently conducting a rate study that should establish new rates within the next year. In addition, the AWWTP currently exceeds its annual average design for influent loading but there is reserve treatment capacity that can be utilized during the first permit cycle (3 years) of the NWLF. During renewal of the industrial permit in May 2020, these considerations can be made but the permit will need future modifications to conform to reduced ammonia limits. AWWTP remains the preferred treatment location for the NWLF leachate. The three year window without pretreatment requirements will save significant operational expenses and defer capital expenditures for construction of an on-site pretreatment plant.
- ◆ HOVMSD - HOVMSD indicates that it does not have any additional Ammonia treatment capacity available and pretreatment would need to be in-place with the first cell of the NWLF. HOVMSD does not have any preference whether the leachate is directed to them or to others. Due to the foregoing, HOVMSD is not the preferred location.
- ◆ Village of Little Chute – The village of Little Chute appears to state that splitting the leachate transmission between AWWTP and HOVMSD would necessitate two separate on-site pretreatment plants whereas if all of the leachate was directed to HOVMSD, through the village of Little Chute sewers, only one pretreatment plant would be needed. This does not appear to be accurate since no additional leachate or Ammonia loading is proposed to be added to HOVMSD through this plan. The current East and NELF leachate directed to HOV for treatment will continue to decline in volume and concentrations as landfill operations move away from the NELF to the NWLF. As no pretreatment is currently required, it stands to reason that as ammonia concentrations and volume decline, it is unlikely that pretreatment will be necessary for treatment of NELF and East leachate flows.
- ◆ City of Appleton – The city of Appleton sanitary system is the more cost effective location to direct the NWLF leachate given the location of the NWLF relative to the city of Appleton discharge location. In order to direct NWLF leachate flow to the village of Little Chute, a specific on-site lift station would need to be installed just to move the leachate from the western side of the property over to the eastern side of the property. This is less efficient than discharging to the city of Appleton sanitary on the western side of the property.

Based on the information described above and the acceptance criteria provided by AWWTP and HOVMSD, Foth recommends that OCRSWD proceed with AWWTP as the primary leachate disposal option for the NWLF.

DRAFT

Dawn Bartel

From: Brian Helminger <brian.helminger@hvmsd.org>
Sent: Wednesday, April 8, 2020 11:24 AM
To: Dawn Bartel
Subject: FW: HOVMSD Local limits notes/sample calc
Attachments: Zoom notes - Ammonia local limits 3-24-20.pdf; Zoom notes - Ammonia local limits 3-24-20 (2).pdf; MAHL ammonia 2020 - Local limit.docx

From: Brian Helminger <brian.helminger@hvmsd.org>
Sent: Thursday, March 26, 2020 2:54 PM
To: Chad Giackino <chad.giackino@hvmsd.org>; Dave Casper <djc3xx@gmail.com>; 'Gerbitz, Mike' <mgerbitz@donohue-associates.com>
Subject: HOVMSD Local limits notes/sample calc

All:

I scanned in my notes from our cyber meeting on 3-24 and thought I'd share them. Also I've been reviewing EPA Guidance and took a kick at the tires calculating a concentration based limit based on the guidance.

Brian Helminger

District Director

Heart of the Valley
Metropolitan Sewerage District
801 Thilmany Road
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From EPA Local limits Development Guide July 2004

Copied from Page 5-23

5.3.2 AMMONIA Typical concentrations of ammonia in untreated domestic wastewater range from 10 to 50 mg/L. Therefore, significant non-domestic industrial sources of ammonia will be unusual and the result of industry-specific activities. If the POTW was designed to remove ammonia through specific processes such as nitrification and denitrification, breakpoint chlorination, or ammonia stripping, the engineering specifications that establish **design loading rates should be used as the MAHL**. However, for most conventional activated sludge and trickling filter plants, ammonia removal is incidental, and a study of the plant will have to be conducted to determine its removal efficiency. The AHL for ammonia can then be determined using Equation 5.5. When the AHL is determined using site-specific removal efficiencies and Equation 5.5, a safety factor of at least 20 percent should be applied. NPDES ammonia limits are often seasonal, with more stringent limits in place during warmer weather. This needs to be taken into consideration in the development of local limits. A seasonal limit for ammonia might be developed for IUs as well.

EPA Guidance 5.3.2 Ammonia

Design load = 3005 lbs. = MAHL

Max Day = 2.5:1 (McMahon Design Criteria)

Q = 5.5 MGD

$$\text{If MAHL} = 3005 = (8.34)(5.5)(X)$$

$$\frac{3005}{45.87} = \frac{45.87X}{45.87}$$

$$65.5 = X$$

$$\text{Local Limit} = \underline{\underline{65.5 \text{ mg/l}}}$$

3/24/20 Zoom Donohue
Take home Local limits - Ammonia

- * MLC → Ammonia can enter equation for limit rationale
- * Consistent District wide with outcomes applicable to all member communities
- * Consider HOVMSD defining what "typical domestic" strength is for sewage (adopted by communities SVO)
- * Ammonia → there is no disincentive in place for any dischargers to pre-treat or even worry about reducing sewerage costs
- * Historical Questions

- McMath 2007 Facilities Plan

- HOV
- * Was the landfill taken into account?
 - * Flow/loading projections - what was basis used?
 - * Where does District stand vs projected loads?

Concepts/Goals of Local limit

- 1) protect the plant/preserve capacity (max load)
- 2) Pretreatment Permits (THDL approach)
- 3) Surcharges (by communities)
 - disincentivize ammonia loading (BOD in future?)
- 4) Fines
 - District can levy fines directly if in violation of permits - exceed the limit HOVMSD levies fines
- 5) Consider same principles for BOD, phos & other parameters
- 6) Sliding rate scale ² Not in play currently
 - surcharge on community equivalent

3/24/20 Zoom Local Limits Discussion

Level the playing field - high strength island w/in communities development w/o surcharges vs those with.

- Surcharging with agreement by member community leadership (uniform support needed to work)

Ammonia load → who is discharging what & how much

Chad did this already!! Retrieve & share
- avg flow/avg concentration

Data - Leachate

- data → 24 hr comps - better data desirable
- flow measurement - still an issue between LC/LF

Post Zoom thoughts!

- * Was ammonia sampled as part of past HOVMSD pilot study of cloth media filtration? Any reductions?
- * Find ammonia table Chad made & share w/ Donohue

Dawn Bartel

From: Brian Helminger <brian.helminger@hvmsd.org>
Sent: Wednesday, April 8, 2020 11:24 AM
To: Dawn Bartel
Subject: FW: ECWRPC Agenda Item - Outagamie County SSA
Attachments: M-ECWRPC NWLF Leachate Review.pdf

From: Brian Helminger <brian.helminger@hvmsd.org>
Sent: Monday, March 30, 2020 8:45 AM
To: Chad Giackino <chad.giackino@hvmsd.org>; Dave Casper <djc3xx@gmail.com>; Kevin Skogman <kevin.skogman@hvmsd.org>
Subject: FW: ECWRPC Agenda Item - Outagamie County SSA

Recent correspondence on the landfill's siting and leachate plan. Moving forward April 22.

Brian Helminger

District Director

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Metropolitan Sewerage District
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From: Van Straten, Brian J. <Brian.VanStraten@outagamie.org>
Sent: Friday, March 27, 2020 3:45 PM
To: 'Todd Verboomen' <TVerboomen@ecwrpc.org>
Cc: Paula Vandehey <Paula.Vandehey@Appleton.org>; 'James Fenlon' <JFenlon@littlechutewi.org>; 'Brian Helminger' <brian.helminger@hvmsd.org>; Homan, Kara J. <Kara.Homan@outagamie.org>; Guidote, Joseph P. <Joseph.Guidote@outagamie.org>
Subject: ECWRPC Agenda Item - Outagamie County SSA

Good afternoon everyone,

We've been informed this week by Mr. Verboomen that the ECWRPC Community Facilities Committee has included the Outagamie County Landfill SSA Amendment to their April 22nd meeting agenda.

My understanding is that it will be a virtual meeting with more information on that process to come.

Please find the attached correspondence to the commission from our consultant which will be included as part of the agenda items.



Memorandum

Foth Infrastructure & Environment, LLC
2121 Innovation Court, Suite 300
P.O. Box 5126 • De Pere, WI 54115-5126
(920) 497-2500 • Fax: (920) 497-8516
www.foth.com

March 27, 2020

TO: East Central Wisconsin Regional Planning Commission

CC: Brian Van Straten, Director, Outagamie County Recycling and Solid Waste Department
Joe Guidote, Outagamie County Corporation Counsel
Kara Homan, Outagamie County Director of Development & Land Services
Paula Vandehey, Public Works Director, City of Appleton
James Fenlon, Administrator, Village of Little Chute
Brian Helming, Heart of the Valley, Sewerage District Director

FR: Chris Anderson, P.E., Senior Client Manager, Foth Infrastructure & Environment, LLC

RE: Outagamie County Northwest Landfill
Leachate Acceptance Review

Foth Infrastructure & Environment, LLC (Foth) has prepared this memorandum to communicate our review of the options to manage and dispose of leachate from the proposed Outagamie County Northwest Landfill (NWLF) as it relates to leachate infrastructure needs, leachate acceptance limits and the criteria for disposal at various wastewater treatment plants.

Currently leachate from the various landfills managed on-site by the Outagamie County Recycling and Solid Waste Department (OCRSD) are routed to both the Appleton Wastewater Treatment Plant (AWWTP) and the Heart of the Valley Metropolitan Sewer District (HOVMSD). At this time, AWWTP has provided an acceptance letter for the leachate from the proposed NWLF and this plant has been identified as the primary disposal location for the future site.

Recent issues have been raised regarding pretreatment needs and timing as it relates to loading limits for ammonia and phosphorus and the East Central Wisconsin Regional Planning Commission's (ECWRPC) proposed sewer amendment request to include the NWLF and the West Landfill in the Appleton Sewer Service Area (SSA). Foth has reviewed the February 16, 2020 letter sent to OCRSD from the city of Appleton regarding AWWTP acceptance criteria, as well as, the information provided by HOVMSD regarding load capacity. In addition, Foth has considered the level of leachate system infrastructure that will be needed to manage the NWLF leachate either through the village of Little Chute and HOVMSD and/or the city of Appleton sewer and AWWTP. Our review is summarized in the paragraphs below.

- ◆ AWWTP – The city of Appleton (Appleton) states that the AWWTP will accept the NWLF leachate provided OCRSWD agrees in writing to provide pretreatment to the level required after the first permit cycle (three years) of the NWLF cell. In addition, the letter states that Appleton is currently conducting a rate study that should establish new rates within the next year. In addition, the AWWTP currently exceeds its annual average design for influent loading but there is reserve treatment capacity that can be utilized during the first permit cycle (three years) of the NWLF. During renewal of the industrial permit in May 2020, these considerations can be made but the permit will need future modifications to conform to reduced ammonia limits. AWWTP remains the preferred treatment location for the NWLF leachate. The three-year window without pretreatment requirements will save significant operational expenses and defer capital expenditures for construction of an on-site pretreatment plant.
- ◆ HOVMSD – HOVMSD indicates that it does not have any additional ammonia treatment capacity available and pretreatment would need to be in-place with the first cell of the NWLF. HOVMSD does not have any preference whether the leachate is directed to them or to others. Due to the foregoing, HOVMSD is not the preferred location.
- ◆ Village of Little Chute – The village of Little Chute appears to state that splitting the leachate transmission between AWWTP and HOVMSD would necessitate two separate on-site pretreatment plants whereas if all of the leachate was directed to HOVMSD, through the village of Little Chute sewers, only one pretreatment plant would be needed. This does not appear to be accurate since no additional leachate or ammonia loading is proposed to be added to HOVMSD through this plan. The current East and NELF leachate directed to HOV for treatment will continue to decline in volume and concentrations as landfill operations move away from the NELF to the NWLF. As no pretreatment is currently required, it stands to reason that as ammonia concentrations and volume decline, it is unlikely that pretreatment will be necessary for treatment of NELF and East leachate flows.
- ◆ City of Appleton – The city of Appleton sanitary system is the more cost-effective location to direct the NWLF leachate given the location of the NWLF relative to the city of Appleton discharge location. In order to direct NWLF leachate flow to the village of Little Chute, a specific on-site lift station would need to be installed just to move the leachate from the western side of the property over to the eastern side of the property. This is less efficient than discharging to the city of Appleton sanitary on the western side of the property.

Based on the information described above and the acceptance criteria provided by AWWTP and HOVMSD, Foth recommends that OCRSWD proceed with AWWTP as the primary leachate disposal option for the NWLF.

Dawn Bartel

From: Brian Helminger <brian.helminger@hvmsd.org>
Sent: Wednesday, April 8, 2020 11:25 AM
To: Dawn Bartel
Subject: FW: WWTF design /capacity info
Attachments: Planning doc 1.pdf; Planning doc 2.pdf; Planning doc 3.pdf; Planning doc 4.pdf

From: Brian Helminger <brian.helminger@hvmsd.org>
Sent: Tuesday, March 31, 2020 2:29 PM
To: 'Gerbitz, Mike' <mgerbitz@donohue-associates.com>
Cc: Dave Casper <djc3xx@gmail.com>; Chad Giackino <chad.giackino@hvmsd.org>; brian.helminger@hvmsd.org; Kevin Skogman <kevin.skogman@hvmsd.org>
Subject: WWTF design /capacity info

Mike:

After reviewing my notes from our last discussion I was at least partially able to track down some information that came into question. I was able to review a binder from McMahan and left by Glenn that detailed all the pre-construction workshops held prior to construction. The attachments include documents that relate to some of the questions and shed a little light on how projections were made for the upgrade of the HOV.

#1 Was the landfill and its leachate taken into account in the planning stage?

I did not notice or find any mention of Outagamie county landfill or projected industrial loadings. I still cannot confirm if the leachate loads were considered or not?

Planning doc #2 is a summary of data collected in Sept/Oct 2004. This time period was during pilot testing. The observed ammonia average in primary effluent was 24 mg/L and yet the design basis was based on 16 mg/L.

#2 Flow/loading projections - what was the basis used?

District Population served?

Planning doc 1 addresses the population estimates put forth by ECWRPC appear dated 10/12/04. It appears those changes were incorporated into the final plan midstream in the process.

Planning doc 3 details the changes in the design ratings. As for C(2) discussing Biostyr – in the end the District built the 8 cell Biostyr up front.

Planning doc 4 is the revised design criteria. It appears that 100 gpd/per capita was used and an increase of 18% applied to organic loadings due to the increase in projected population. This page appears to be the same as the final design documents.

Brian Helminger

District Director

Heart of the Valley
Metropolitan Sewerage District

Dawn Bartel

From: Brian Helminger <brian.helminger@hvmsd.org>
Sent: Wednesday, April 8, 2020 11:25 AM
To: Dawn Bartel
Subject: FW: Audit fraud letter

From: Brian Helminger <brian.helminger@hvmsd.org>
Sent: Thursday, April 2, 2020 1:46 PM
To: Dave Casper <djc3xx@gmail.com>
Subject: Audit fraud letter

Dave:

I spoke with our auditor yesterday about progress and several docs that needing signatures. He indicated he was going to email you the annual fraud letter for review and signature. Greg will be on site briefly on Monday to collect remaining items he needs to review to bring the audit to completion and I was hoping to have the letters and signatures for him Monday.

Did you receive his fraud letter email? If so, can I come pick it up sometime tomorrow?

Brian