Old and New Business (updates) 7-14-20

Water Quality Trade

- The District has reached out to DNR on its options and their recommendations for moving forward with its existing Trade agreement and/or drafting an additional trade that would utilize its agricultural property for credit generation. To date we have received not response for the Department.

Mid-Year 2020 Loads

- The end of June is the half way point and a benchmark for influent flow and organic loads entering the plant. The attached sheet shows despite record rainfall amounts in 2019, that the loads are not significantly dropping in 2020. Across the board the loads are only slightly lower than what was received last year. It would appear thus far in 2020, that 2019 high flows and organic loadings last year were not a single year isolated occurrence or an anomaly.

Interceptor Action Plan /Televising – Update

- No televising has been completed since the last Commission meeting. I continue to update Brett on the dam gate positions and the most recent communication from Brett indicated that if mother nature cooperates televising could take place as soon as this week.

Influent sewage sampling – WSLH covid testing

- Invitation to participate – see e mail from State Lab of Hygiene

MID YEAR 2020 LOADS

	FLOW			% of
			Thru June	2020 vs2019
	2018	2019	2020	(6 mos)
Kaukauna	877,305,720	1,071,796,300	502,331,700	47%
Little Chute	562,652,000	701,637,000	349,400,000	50%
Kimberly	308,188,000	345,505,000	157,453,000	46%
Combined Locks	130,346,000	163,519,000	75,603,000	46%
Darboy	356,147,000	376,897,000	173,631,000	46%

	BOD			% of
			Thru June	2020 vs2019
	2018	**2019**	**2020**	(6 mos)
Kaukauna	1,107,495	1,304,550	628,902	48%
Little Chute	1,500,818	1,768,228	854,166	48%
Kimberly	495,597	526,203	229,796	44%
Combined Locks	224,502	303,500	141,862	47%
Darboy	862,874	1,100,119	546,832	50%

	AMMONIA			% of
			Thru June	2020 vs2019
	2018	2019	2020	(6 mos)
Kaukauna	150,810	155,382	74,545	48%
Little Chute	204,901	251,533	133,453	53%
Kimberly	50,243	53,695	23,831	44%
Combined Locks	30,633	33,076	15,647	47%
Darboy	109,391	108,409	51,165	47%

Brian Helminger

From: WSLH COVID Sewage Project <noreply@qualtrics-survey.com>
Sent: Friday, July 10, 2020 4:25 PM
To: Brian Helminger
Subject: Invitation to Participate in Wastewater Surveillance for COVID-19

Wisconsin State Laboratory of Hygiene
UNIVERSITY OF WISCONSIN-MADISON

Invitation to participate in a new study evaluating the presence of SARS-CoV-2 in wastewater.

Dear Facility Operator,

The Wisconsin State Laboratory of Hygiene (WSLH) in partnership with UW-Milwaukee School of Freshwater Sciences, is embarking on an exciting new study funded by the Wisconsin Department of Health Services, to determine whether, and to what extent, the SARS-CoV-2 virus (the virus causing COVID-19) is circulating within communities in Wisconsin. We propose to accomplish this by **routinely monitoring the amount of genetic material of SARS-CoV-2 present in wastewater**. SARS-CoV-2 is shed from humans in several ways, including the fecal matter. Many people infected by the virus have very mild or no symptoms, which makes them less likely to be tested in a clinical setting and identified as possible carriers of COVID-19. Sanitary sewer systems collect and aggregate wastewater to a central location, so that by the time it reaches the wastewater treatment facility (WWTF) it is a well-mixed sample of many households and businesses; thus by sampling the **influent** at the WWTF a representative snapshot of the **whole community** served by WWTF can be obtained. This approach will not replace existing public health monitoring systems, but will supplement them.

We would very much value your participation in this program – you will be providing invaluable information to your community that will inform if public health actions are working (or needed), and assist the state in reducing the spread and presence of the novel corona virus in Wisconsin. More specifically, the program will tell us if:

- **Virus transmission is increasing or decreasing in the community.** In communities where cases are already present, trends in virus concentrations in wastewater over time will inform whether the spread is increasing or decreasing. These changes are important, because they can inform policy makers if the pandemic prevention measures are working and measures can be relaxed, or whether areas that have been re-opened

are experiencing a rebound of infections. It has been reported that sewage monitoring can detect changes in community viral level potentially days or weeks ahead of health outcomes.

- **COVID-19 is circulating in a community – early-warning potential.** Detection of the virus in wastewater from an area where cases have not been reported may be an early indication of spread to and within that area. Alternatively, wastewater monitoring may be able to confirm areas with low levels of infections.

General Approach. Our goal is to recruit two WWTFs from the most populated 23 counties (46 WWTFs) for weekly (or twice-weekly) sampling and ~50 smaller and/or rural WWTFs for monthly (or twice-monthly) sampling. We hope to complete recruitment in July and have the program up-and-running soon thereafter to be able to inform on current virus levels. The WLSH will quantify the genetic material of the virus – the presence of characteristic viral RNA (we do not assess the infectivity/viability of the virus) in the INFLUENT wastewater.

What we will ask you to do. Collect a sample from your standard 24-hour INFLUENT composite, fill out the lab slip and ship to the WSLH for SARS-CoV-2 quantification. Basically that's it! The frequency of sampling (once or twice per week, or once or twice per month) will be appropriate for the size of the community served by your facility and the goals of the sampling (see above). Frequency may be adjusted depending upon your site-specific results. We request that you participle in the program for a 12-month period. To minimize impacts to your facility we will provide all needed sampling and sample shipping supplies. We will also provide pre-paid overnight shipping labels (UPS) or make other arrangements, when necessary. We do not want or expect this to be a burden to your facility/operator.

If you are interested in participating, please complete the **Participation Survey** that is required prior to enrollment. If you have any questions please do not hesitate to contact the WSLH at CovidSewageTeam@slh.wisc.edu or call the Covid Sewage Hotline (608) 263-2444. Please see our Frequently Asked Questions, or download a copy of this Recruitment Letter.

Follow this link to the Survey:

Take the Survey

Or copy and paste the URL below into your internet browser:
https://uwmadison.co1.qualtrics.com/jfe/form/SV_9zgdqe7190BFTlH?Q_DL=u8euY3wM2s1iEmC_9zgdqe7190BFTlH_MLRP_b8cmM6awpMp74yh&Q_CHL=email

Or complete the Participation Survey via Word document and return to email listed.

We hope that you will decide to participate in the program and we look forward to your reply as soon as possible.

Sincerely,

COVID Sewage Surveillance Team

Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr.
Madison, WI 53718

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