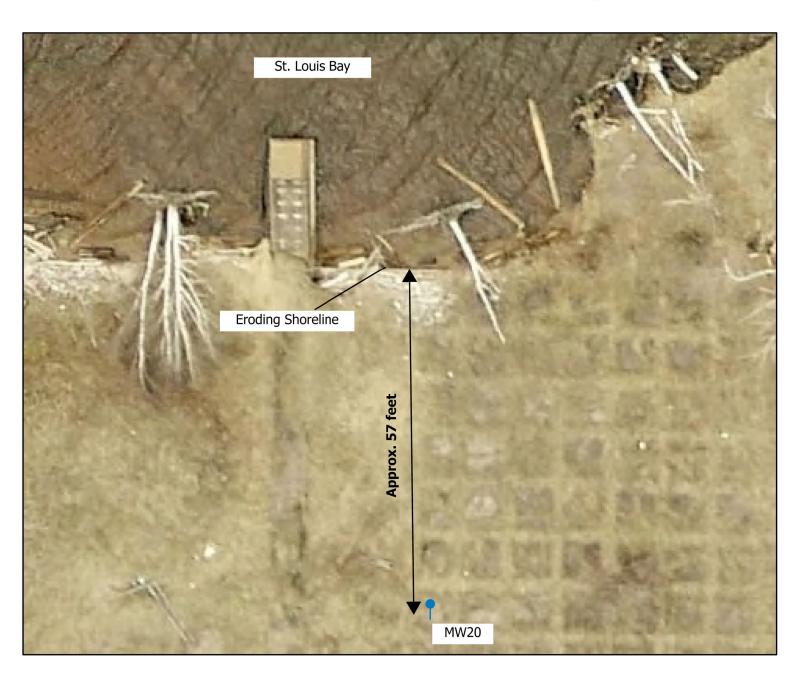
C. Reiss Coal Dock., BRRTS # 02-16-589248 Monitoring Well MW20



		Groundwater Criteria		Surface Water Criteria		Local Municipal Wastewater ¹			
		PAL	ES	HCC PWS GL	HCC GL	Superior WWTP Limit	Superior WWTP Influent	Superior WWTP Effluent	
	μg/L	1	10	0.2	13.3	2.2	1.8	1.1	
MW20	Result	Hazard Quotient				MW20 : WWTP			
05/02/2023	17	17	1.7	85	1.3	7.7	9.4	15.5	
06/21/2023	20	20	2	100	1.5	9.1	11.1	18.2	

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MW20 – Monitoring well 20, C. Reiss Dock Property, Superior, WI BRRTS # 02-16-589248

μg/L – Microgram per liter, aka parts per billion

PAL - Preventive Action Limit, Wis. Admin. Code ch. NR 140

ES – Enforcement Standard, Wis. Admin. Code ch. NR 140

HCC GL PWS – Human Cancer Criteria, for Great Lakes-public water supply, Wis. Admin. Code ch. NR 105. Applicable to discharges in St. Louis Bay and Superior Bay. NOTE: For bioaccumulative chemicals of concern (BCCs) within the Great Lakes basin, criteria are based on a classification as a cold-water community and public water supply².

HCC GL – Human Cancer Criteria for Great Lakes non-public water supply, Wis. Admin. Code ch. NR 105. For comparison only, criterion not applicable at location.

WWTP – Wastewater treatment plant

WWTP Limit - Effluent limit applicable to City of Superior WWTP

WWTP Influent – Mean concentration of raw wastewater flowing into WWTP. Mean of 19 quarterly samples, range 1.2 to 2.4 μg/L

WWTP Effluent – Mean concentration of treated wastewater discharged from WWTP. Mean of 19 quarterly samples, range < 0.44 to 1.8 μg/L

Red shading: MW20 result exceeds criteria or comparison

Bold values: applicable groundwater and surface water criteria (ES and HCC PWS GL)

¹ WDNR 2023, Discharge Monitoring Report data for the Superior Sewage Disposal System (WPDES Permit # WI-0025593), April 2019 through October 23, accessed February 1, 2024.

² WDNR 2017, DNR Memorandum from Jim Schmidt to Sheri Snowbank, Water Quality-Based Effluent Limitations for the Superior Sewage Disposal System (WPDES Permit # WI-0025593), November 29, 2017.

From: Graham, Joseph R - DNR
To: Morberg, Kyle; Gross, Stu

Cc: Lennie, Brian; Christian Zuidmulder; Mike McCoshen; Cull, Whitney

Subject: RE: C.Reiss Update

Date: Friday, March 22, 2024 9:49:00 AM
Attachments: CReiss MW20 2023 Results Exhibit.pdf

Kyle,

Thank you for the follow-up and update. I spoke to Stu this morning and I hope to get letter out no later than the end of next week.

Stu,

Attached is the comparison of the arsenic results from MW-20 to the applicable standards of in NR 140 and NR 105 and comparisons to the levels at the Superior wastewater plant.

The contractor's management of contaminated soil at the site is also a concern and extra attention will likely be warranted for the diversion berms if the site experiences any wet weather before the final cover is installed.

Once our letter is issued, I will be happy to have a call if that would be interest.

Sincerely,

We are committed to service excellence.

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

Joe Graham

Cell: (715) 292-4925

joseph.graham@wisconsin.gov

From: Morberg, Kyle <kyle.morberg@stantec.com>

Sent: Friday, March 22, 2024 8:42 AM

To: Graham, Joseph R - DNR < Joseph. Graham@wisconsin.gov>

Cc: Lennie, Brian <Brian.Lennie@stantec.com>; Gross, Stu <stu.gross@stantec.com>; Christian Zuidmulder <christian.z@thecreiss.com>; Mike McCoshen <mike@mccoshenls.com>; Cull, Whitney <Whitney.Cull@stantec.com>

Subject: C.Reiss Update

CAUTION: This email originated from outside the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Joe,

Just sending this email as a follow up to your site visit earlier this week. Based on your comment that you were heading towards sending a letter requiring that sand to be removed from the pond forebay berm, the decision was made this week to go ahead and do so to take advantage of dry conditions now and beat the snow/rain coming next week. The sand has been removed and placed in the berm and the pond forebay berm was reconstructed entirely with clay. Photos are attached. In addition, you had commented about a small piece of pipe that was along the perimeter of the berm. That has been removed for offsite disposal and we discussed ensuring only acceptable materials are put into the berm with the contractor.

Finally, Stu had left you a VM yesterday regarding the results from the monitoring well at the north end of the dock and what if any next steps will need to be taken there. Let's continue to discuss that item to ensure we can phase it appropriately with construction efforts. The next step for the rail work in that area is to place ballast for the rail and the contractor is planning to begin that in a few weeks. Feel free to reach out if you have any additional questions.

Thanks,

Kyle Morberg, PE (MN)

Environmental Engineer

Direct: 218-481-0215 Mobile: 218-591-0790 kyle.morberg@stantec.com

Stantec

11E Superior Street, Suite 330 Duluth, MN 55802



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