

CITY OF HERMANTOWN
UTILITY COMMISSION AGENDA – March 17, 2022

Hermantown’s March 17, 2022, **UTILITY COMMISSION** Meeting will be conducted in person with remote connection available via Zoom.

The meeting will utilize the platform “Zoom” – which allows the public to view and/or hear the meeting from their phone or computer.

Topic: Utility Commission Meeting

Time: March 17, 2022 05:30 PM Central Time (US and Canada)

Join Zoom Meeting

<https://us02web.zoom.us/j/83937252217?pwd=QzFUWEJtSUJlL1R4RkNwbVNwVXd4UT09>

Meeting ID: 839 3725 2217

Passcode: 576504

Dial by your location

+1 312 626 6799 US (Chicago)

**CITY OF HERMANTOWN
UTILITY COMMISSION AGENDA – March 17, 2022**

*CITY ADMINISTRATIVE BUILDING, 5105 MAPLE GROVE ROAD
5:30 PM – In Person and Zoom*

1. **ROLL CALL**
2. **MINUTES** – Approval or Correction
 - a. February 17, 2022 regular meeting.
3. **PUBLIC DISCUSSION** *(This is the time for which individuals can address the Commission about any item pertaining to utilities. The time limit is three minutes per person)*
4. **COMMUNICATIONS** *(items of information only – any communication requiring action is provided under that item on the agenda)*
 - a. WLSSD Discharge Monitoring Report
 - b. WLSSD Year End Adjustments
5. **PRESENTATIONS** *(Department Heads may give reports if necessary)*
 - a. MN DOT Hermantown Soil Management - Paul Senst
6. **OLD BUSINESS**
7. **NEW BUSINESS**
 - a. Hermantown School – Credit Request
8. **REPORTS**
 - a. Budget to Actual Expenditure Report
 - b. Public Works Utility Maintenance & Project Update Report
 - c. Water Loss Report
 - d. WLSSD Monthly Flow, Rain Fall & Flow
 - e. New Connections Report – No connection application to report
 - f. Utility Billing Happenings

9. **COMMISSION MEMBERS REPORT**

- a. Jim Samberg -
- b. William Berg -
- c. Robert McLachlan -
- d. Doug Kerfeld -
- e. Howard Jacobson -
- f. Councilor Grant Hauschild -

10. **RECESS**

**CITY OF HERMANTOWN
UTILITY COMMISSION MEETING SUMMARY
February 17, 2022
5:30 PM**

This meeting was conducted in person and via Zoom.

ROLL CALL *Jim Samberg, Howard Jacobson, Doug Kerfeld, Rob McLachlan, William Berg*

ABSENT: *Counselor Grant Hauschild*

VISITORS *Paul Senst, Public Works Director; Lindsay Townsend, Utility Billing Clerk;
David Bolf, City Engineer*

MINUTES

Motion by Rob McLachlan to approve minutes of the January 20, 2022 meeting, seconded by Jim Samberg. All ayes, motion carried.

PUBLIC DISCUSSION: *There were no members of the public present.*

COMMUNICATIONS (items of information only – any communication requiring action is provided under that item on the agenda)

- a. MN Dept of Health – Sample Analysis Results - Report was attached*
- b. MN Dept of Health -Unregulated Contaminant Monitoring Rule 5 – Hard copy of memo given*

PRESENTATIONS

none

OLD BUSINESS

none

NEW BUSINESS

- a. Request for Proposal – Water Distribution System Evaluation and Modeling: David Bolf presented to the commission about the benefits of having a water distribution system. This system will help the City plan for future development of the water system. It will also help the City to run scenarios to help prepare for problems and future uses of the water system. Motion to approve RFP made by Howard Jacobson, seconded by Bill Berg, all ayes, motion carried.*

REPORTS

- a. Budget to Actual Expenditure Report – *Report was attached.*
- b. Public Works Utility Maintenance & Project Update Report - *Report was attached.*
- c. Water Loss Report – *Report was attached*
- d. WLSSD Monthly Flow, Rain Fall & Flow – *Report was attached.*
- e. New Connections Report – *No report for this month.*
- f. Utility Billing Happenings – *Memo attached.*

COMMISSION MEMBERS REPORT

- a. Jim Samberg: *No report.*
- b. William Berg: *Mentioned that the broadband taskforce is still working on bringing better options for internet in Hermantown.*
- c. Robert McLachlan: *No report.*
- d. Doug Kerfeld: *No report.*
- e. Howard Jacobson: *No report.*
- f. Councilor Grant Hauschild: *Absent*

RECESS Motion by Jim Samberg to adjourn, second by Howard Jacobson. All ayes, motion carried. The meeting recessed at approximately 6:11pm.

Minutes prepared by:
Lindsay Townsend, Utility Billing Clerk



2626 Courtland Street
Duluth, MN 55806-1894
phone 218.722.3336
fax 218.727.7471
www.wlssd.com

Western Lake Superior Sanitary District

February 14, 2022

Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155
ATTN: Discharge Monitoring Report

Dear Regulatory Authority,

This cover letter is a summary of Western Lake Superior Sanitary District's Wastewater Treatment Plant Report for January 2022 (as per NPDES/SDS permit MN0049786). An electronic copy of this month's report will be submitted to MPCA. If anyone would like a paper or electronic version of the attachments please contact WLSSD at (218) 722-3336.

The average daily flow to the plant in January was 30 MGD.

The average influent cBOD5 concentration was 265 mg/L and the average effluent concentration was 7.4 mg/L. The cBOD5 removal efficiency for the month of January was 97 percent. The average influent and effluent suspended solids concentrations were 265 mg/L and 1.8 mg/L, respectively, providing a monthly suspended solids removal rate of 98 percent.

For the month of January, the effluent phosphorus calendar month average concentration was 0.3 mg/L and the average mass was 30 kg/d, compared to the respective calendar month average limits of 1.0 mg/L and 115 kg/d.

For the month of January, the effluent's daily maximum mercury concentration was 3.3 ng/L and the monthly average was 2.1 ng/L. WLSSD's NPDES permit which expired May 31, 2022, stipulated mercury discharge limitations of 5.8 ng/L for the calendar month average, and 7.4 ng/L for a daily maximum. In milligrams per day, the calendar month average limit was 1062 and the daily maximum limit was 1355. For the month of January, the calendar month average mercury was 239 mg/d, and the daily maximum was 397 mg/d.

WLSSD proactively submitted a notification letter to the MPCA on May 6, 2022 that identified and discussed the NPDES/SDS permit compliance challenges it faced meeting mercury limits without a variance.

Page 2

February 14, 2022

The submittal contains: a Sample Values Spreadsheet and a DMR Calculated Values Spreadsheet.

Sincerely,

A handwritten signature in black ink, appearing to read 'M. Bohren', with a long horizontal flourish extending to the right.

Marianne Bohren
Executive Director

MB/jaf

Attachments

CC: Ms. Alica Johnson
Ms. Rhonda Peleski
Ms. Lori Stigers
Mr. Caleb Peterson
Mr. Derek Wolf
Mr. John Mulder



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Western Lake Superior Sanitary District

February 16, 2022

City of Hermantown
Mr. John Mulder
City Administrator
5105 Maple Grove Road
Hermantown, MN 55811

Subject: 2021 Wastewater Treatment Year-End Adjustments

Dear Mr. Mulder:

At the close of each year, we notify our wastewater treatment users of the year-end adjustment based on the actual flow and load data, and treatment costs.

For 2021, the WLSSD Board has approved total wastewater charges of \$27,515,879 as shown in the attached comparison of billed (budget) to required charges (actual) for 2021. Each wastewater user will receive additional charges or credits based upon their actual flows and loads as compared to budget. This amount will be spread evenly over the 12-month period in 2022.

Attached is a table summarizing the 2021 billing as compared to the 2021 required actual. For Hermantown the total year-end adjustment for 2021 is a credit of \$7,152 and will be included as a \$596/month credit on your 2022 monthly billing.

Please contact me at 740-4805 if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'Marianne Bohren', written in a cursive style.

Marianne Bohren
Executive Director

Attachment

2021 Year End Adj

	BILLED 2021	REQUIRED 2021	YEAR-END ADJUSTMENT
DULUTH	9,397,598	9,498,785	\$101,187
CLOQUET	1,006,748	816,609	(\$190,139)
PROCTOR	327,748	304,908	(\$22,840)
HERMANTOWN	511,351	504,199	(\$7,152)
ESKO	146,702	142,403	(\$4,299)
SCANLON	116,873	101,917	(\$14,956)
CARLTON	113,973	111,976	(\$1,997)
RICE LAKE	52,159	47,629	(\$4,529)
TWIN LAKE	92,756	51,638	(\$41,119)
PIKE LAKE	77,323	69,099	(\$8,224)
KNIFE RIVER	\$20,354	17,645	(\$2,709)
OLIVER	17,194	14,805	(\$2,390)
THOMSON	9,371	7,892	(\$1,478)
WRENSHALL	22,163	21,881	(\$282)
JAY COOKE	2,759	3,093	\$334
MIDWAY	5,050	5,827	\$777
MPCA LANDFILL	11,827	10,015	(\$1,811)
UNUSED	-	-	\$0
DULUTH/NORTH SHORE	49,443	47,208	(\$2,235)
MUNICIPALITIES SUBTOTAL	11,981,391	11,777,529	(\$203,862)
SAPPI	13,583,834	13,850,195	\$266,361
GEORGIA PACIFIC	32,088	32,088	\$0
VERSO	383,627	386,465	\$2,838
USG	644,750	631,343	(\$13,407)
ST PAPER 1	722,428	674,263	(\$48,165)
SPECIALTY MINERALS	167,761	163,996	(\$3,765)
INDUSTRIES SUBTOTAL	15,534,488	\$15,738,350	\$203,862
TOTAL DISTRICT	\$27,515,879	\$27,515,879	(\$0)

**2021 Year End Adj
Wastewater Unit Costs**

<u>VOLUME</u>	<u>BUDGET 2021</u>	<u>REQUIRED 2021</u>	<u>% CHANGE</u>
FLOW (MGD)	32.53	31.57	-2.95%
BOD (LBS/DAY)	61,299	66,365	8.26%
SUSPENDED SOLIDS (LBS/DAY)	36,951	49,364	33.59%
 <u>O & M UNIT COSTS</u>			
FLOW (COST/1000 GAL)	\$0.5957	\$0.6968	16.97%
PEAK FLOW	\$0.0435	\$0.0317	-27.20%
BOD (COST/LB)	\$0.2030	\$0.2155	6.20%
SUSPENDED SOLIDS (COST/LB)	\$0.3349	\$0.2903	-13.31%
 <u>O & M + DEBT SERVICE UNIT COSTS</u>			
FLOW (COST/1000 GAL)	\$0.8019	\$0.9020	12.48%
PEAK FLOW	\$0.0990	\$0.0786	-20.56%
BOD (COST/LB)	\$0.2539	\$0.2721	7.18%
SUSPENDED SOLIDS (COST/LB)	\$0.3968	\$0.3509	-11.56%
DOMESTIC EQUIV (COST/1000GAL)	\$1.9862	\$2.0198	1.69%

North Lake Superior Sanitary District
 Detail
 Year End Adj

Class of Service	Budget Basis	Operating Expenses, based on Actual Flows and Loads					Debt Svc - based on Allocated Flows and Loads						TOTAL
		Flow	Excess FI	BOD	TSS	TOTAL	FLOW	PEAK FLOW	TOTAL FLOW	BOD	TSS	TOTAL	
Municipalities: Duluth-													
Duluth	Budget	\$2,590,871	\$670,592	\$1,112,233	\$2,025,034	\$6,398,730	\$1,286,450	\$949,570	\$2,236,020	\$366,132	\$497,902	\$3,100,054	\$9,498,785
Cloquet	Budget	\$217,983	\$19,092	\$100,697	\$199,218	\$536,990	\$103,779	\$72,427	\$176,205	\$39,962	\$63,451	\$279,618	\$816,609
Proctor	Budget	\$87,412	\$21,885	\$35,559	\$58,494	\$203,350	\$44,898	\$29,359	\$74,256	\$12,464	\$14,838	\$101,558	\$304,908
Hermantown	Budget	\$152,596	\$17,718	\$79,299	\$104,590	\$354,203	\$51,434	\$37,393	\$88,827	\$29,386	\$31,783	\$149,996	\$504,199
Esko	Budget	\$38,988	\$7,718	\$20,690	\$32,320	\$99,716	\$16,670	\$11,165	\$27,835	\$6,586	\$8,266	\$42,687	\$142,403
Scanlon	DE	\$32,096	\$3,244	\$16,521	\$22,253	\$74,114	\$9,848	\$9,119	\$18,966	\$4,534	\$4,303	\$27,803	\$101,917
Carlton	Budget	\$35,784	\$5,366	\$12,587	\$19,392	\$73,129	\$20,142	\$11,562	\$31,704	\$3,198	\$3,946	\$38,847	\$111,976
Rice Lake	DE	\$13,072	\$2,004	\$6,766	\$9,113	\$30,955	\$6,544	\$4,831	\$11,374	\$2,641	\$2,659	\$16,674	\$47,629
Twin Lake	Budget	\$7,375	\$2,295	\$9,519	\$11,444	\$30,634	\$6,413	\$4,790	\$11,203	\$4,932	\$4,868	\$21,003	\$51,638
Pike Lake	DE	\$20,422	\$2,827	\$10,542	\$14,200	\$47,991	\$8,263	\$5,868	\$14,131	\$3,526	\$3,452	\$21,109	\$69,099
Knife River	DE	\$4,680	\$1,227	\$2,439	\$3,285	\$11,630	\$1,883	\$2,257	\$4,140	\$924	\$951	\$6,015	\$17,645
Oliver	DE	\$4,400	\$373	\$2,281	\$3,073	\$10,128	\$1,783	\$1,266	\$3,049	\$820	\$808	\$4,677	\$14,805
Thomson	DE	\$2,009	\$91	\$1,023	\$1,378	\$4,501	\$1,332	\$931	\$2,263	\$569	\$559	\$3,392	\$7,892
Wrenshall	DE	\$6,180	\$1,101	\$3,225	\$4,345	\$14,851	\$2,799	\$1,728	\$4,527	\$1,273	\$1,230	\$7,030	\$21,881
Jay Cooke	DE	\$560	\$324	\$315	\$424	\$1,622	\$474	\$395	\$869	\$280	\$322	\$1,471	\$3,093
Midway	DE	\$1,094	\$36	\$787	\$742	\$2,658	\$1,456	\$806	\$2,261	\$415	\$492	\$3,169	\$5,827
MPCA Landfill	DE	\$381	\$165	\$262	\$354	\$1,163	\$3,889	\$1,515	\$5,404	\$1,929	\$1,520	\$8,852	\$10,015
Unused	DE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
North Shore	DE	\$12,564	\$2,895	\$6,451	\$8,689	\$30,599	\$5,912	\$5,200	\$11,112	\$2,692	\$2,805	\$16,609	\$47,208
Totals-Municipalities		\$3,228,467	\$758,954	\$1,421,196	\$2,518,347	\$7,926,964	\$1,573,965	\$1,150,181	\$2,724,146	\$482,263	\$644,156	\$3,850,565	\$11,777,529
Industrials-													
Georgia Pacific		\$0	\$0	\$0	\$0	\$0	\$6,797	\$2,718	\$9,515	\$17,745	\$4,829	\$32,088	\$32,088
Sappi		\$4,524,335	\$88,633	\$3,669,316	\$2,492,879	\$10,775,163	\$1,150,907	\$385,994	\$1,536,901	\$1,095,733	\$442,398	\$3,075,032	\$13,850,195
ST Paper 1		\$67,067	\$33,630	\$573	\$1,888	\$103,157	\$166,213	\$117,653	\$283,866	\$242,636	\$44,604	\$571,106	\$674,263
USG		\$124,060	\$8,915	\$129,097	\$178,025	\$440,097	\$45,045	\$20,181	\$65,226	\$51,362	\$74,658	\$191,246	\$631,343
VERSO		\$30,204	(\$1,373)	\$230	\$1,100	\$30,161	\$118,028	\$47,643	\$165,671	\$166,573	\$24,059	\$356,304	\$386,465
Specialty Minerals		\$56,028	\$1,463	\$472	\$38,678	\$96,641	\$21,611	\$8,637	\$30,247	\$202	\$36,906	\$67,355	\$163,996
Totals-Industrials		\$4,801,694	\$131,267	\$3,799,688	\$2,712,570	\$11,445,219	\$1,508,601	\$582,825	\$2,091,427	\$1,574,251	\$627,453	\$4,293,131	\$15,738,350
Totals-All Users		\$8,030,161	\$890,221	\$5,220,884	\$5,230,917	\$19,372,183	\$3,082,567	\$1,733,006	\$4,815,573	\$2,056,514	\$1,271,609	\$8,143,696	\$27,515,879

Table 5
 USER'S WASTEWATER FLOW AND STRENGTH CHARACTERISTICS
 Flow and Strength Characteristics
 Western Lake Superior Sanitary District
 2021 Year End Adj

Line No.	Class of Service	Billing Basis	Notes	Base Flow		Peak Flow		BOD		TSS	
				Actual (Mgd)	Allocated (Mgd)	Actual (Mgd)	Allocated (Mgd)	Actual (Lbs./Day)	Allocated (Lbs./Day)	Actual (Lbs./Day)	Allocated (Lbs./Day)
Municipalities:											
1	Duluth	Budget		10.187	17.325	68.185	68.185	14,138	15,500	19,110	23,000
2	Cloquet	Budget		0.857	1.470	2.508	5.500	1,280	2,010	1,880	3,450
3	Proctor	Budget		0.344	0.604	2.237	2.237	452	592	552	700
4	Hermantown	Budget		0.600	0.760	2.132	3.800	1,008	1,600	987	1,600
5	Esko	Budget		0.153	0.240	0.821	1.000	263	320	305	420
6	Scanlon	DE		0.126	0.160	0.407	1.000	210	262	210	262
7	Carlton	Budget		0.141	0.270	0.605	0.760	160	160	183	205
8	Rice Lake	DE		0.051	0.080	0.225	0.360	86	125	86	125
9	Twin Lake	Budget		0.029	0.090	0.228	0.400	121	280	108	280
10	Pike Lake	DE		0.080	0.110	0.325	0.450	134	185	134	185
11	Knife River	DE		0.018	0.027	0.125	0.134	31	46	31	46
12	Oliver	DE		0.017	0.024	0.050	0.100	29	41	29	41
13	Thomson	DE		0.008	0.015	0.016	0.060	13	24	13	24
14	Wrenshall	DE		0.024	0.042	0.120	0.150	41	69	41	69
15	Jay Cooke	DE		0.002	0.005	0.030	0.030	4	8	4	8
16	Midway	DE		0.004	0.004	0.007	0.007	10	10	7	8
17	MPCA Landfill	DE		0.002	0.042	0.016	0.040	3	70	3	70
18	Unused	DE		0.000	0.000	0.000	0.000	0	0	0	0
19	North Shore	DE		0.049	0.075	0.300	0.310	82	125	82	125
20	Totals-Municipalities			12.694	21.343	78.334	84.523	18,065	21,427	23,765	30,618
Industrials:											
21	VERSO	Budget		0.119	0.000	0.000	0.000	3	0	10	0
22	SAPPI	Budget		17.790	17.790	25.455	25.455	46,642	56,000	23,525	25,000
23	ST Paper 1	Budget		0.264	0.500	3.172	8.000	7	50	18	25
24	USG	Budget		0.488	0.580	1.259	1.259	1,641	2,000	1,680	2,800
25	Specialty	Budget		0.220	0.240	0.347	0.500	6	8	365	1,400
26	Totals-Industrials			18.880	19.110	30.233	35.214	48,299	58,058	25,598	29,225
27	Totals-All Users			31.574	40.453	108.567	119.737	66,365	79,485	49,364	59,843

BOD, and TSS strengths are computed using the District's standard domestic equivalent strengths. Formula: Flow x Strength(Mg/l) x 8.34.
 2022-02-03 Standard domestic equivalent strengths for the District are: BOD-200 Mg/1000g, TSS-200 Mg/l.



Ames Kraemer Joint Venture
2000 Ames Drive
Burnsville, Minnesota 55306
T 952-435-7106 • F 952-435-7142

Ms. Julie Macor – Lead Chemist
Western Lake Superior Sanitary District (WLSSD)
2626 Courtland St.
Duluth, MN 55806

March 3, 2022

Subject: Minnesota Department of Transportation (MNDOT) Twin Ports Interchange (TPI) Project
Re: Hermantown Soil Management Facility Contact Water Discharge Authorization Inquiry

Dear Ms. Macor

On behalf of the Twin Ports Interchange (TPI) project team, this letter is to request an Authorization from WLSSD and the City of Hermantown to discharge contact storm water and water decanted from stored soils at the TPI Contaminated Soil Management Facility in Hermantown to the sanitary sewer. The intended discharge location is to a City of Hermantown sanitary manhole near the facility address of 5500 MN-194, Hermantown, MN 55811.

Request Overview

The Soil Management Facility is the location improved and operated to store and condition soil materials produced by construction activities on the TPI Project. To date, the only soils stored within the contained perimeter of the site have been either unregulated, or regulated soils that contain contaminant content and concentrations less than the Minnesota Pollution Control Agency (MPCA) Tier 2 Industrial Soil Reference Value limits. Satisfaction of the preceding conditions is required for soils to be reused on the project. There is limited potential for soils that are physically unsuitable or mandated for disposal due to contaminant content to be stored at the site if the soil material is too wet to be acceptable to the disposal facility (landfill). Unsuitable soils would only be stored at the site for the purpose of reducing water content through decanting/evaporation and incorporation of drier material to make the soils suitable for disposal. All soils stored at the site, regardless of classification, are required to be covered or stabilized per the Storm Water Pollution Prevention Plan and MPCA Brownfields Program Response Action Plan for the Project. To date, waters collected and retained at the Hermantown facility have been transported by truck to the Primary Water Treatment System on the TPI Project for disposal.

A separate, smaller soil management facility has been established on Garfield Ave. in Duluth for the primary purpose of conditioning soils intended for disposal, and use of the Hermantown site for conditioning of soils intended for disposal would only occur if the holding capacity of the Garfield site was exceeded by project demand. This situation has not yet occurred on the project, and is not anticipated to occur unless material is encountered that was not indicated by the extensive environmental survey of the project area as conducted by MNDOT. There is desire for the authorization to allow for the collection and transport of contact/decanted water from the Garfield Site to the Hermantown Site for processing and disposal if the Primary Water Treatment System is unavailable for use. To date, waters collected at the Garfield Site have been transported by truck to the Primary Water Treatment System.

Discharged Water Content

The intent of this discharge request is to comply with the requirements set forth in WLSSD's Industrial Pretreatment Ordinance, Revised June 2016. Discretionary samples of water were obtained from both the Hermantown and Garfield Sites in 2021 and compared against the monitoring requirements set forth in the Industrial Pretreatment Ordinance:

Hermantown Site

Compound/Parameter	Unit	Sample Identifier, Date Collected, and Discharge Location				WLSSD Dewatering Discharge Criteria - 2021-2022 Permit
		HP (8.5.21)	HP (9.20.21)	HP-Filtered (10.4.21)	HP-Non-Filtered (10.4.21)	Daily Maximum Limit
		8.5.2021	9.20.2021	10.4.2021	10.4.2021	
Hermantown Stockpile						
WLSSD Monitoring Requirements						
Gasoline Range Organics (GRO)	mg/L	<0.1	<0.1	<0.1	<0.1	100
Diesel Range Organics (DRO)	mg/L	0.150	<0.105	0.160	<0.101	100
DRO with Silica Gel Cleanup	mg/L	---	---	<112	---	100
Benzene	mg/L	0.00173	<0.0005	<0.0005	<0.0005	1
Toluene	mg/L	<0.001	<0.001	<0.001	<0.001	1
Ethylbenzene	mg/L	<0.001	<0.001	<0.001	<0.001	1
Xylenes, total	mg/L	<0.003	<0.003	<0.003	<0.003	1
BTEX, combined	mg/L	0.00673	<0.0055	<0.0055	<0.0055	3
Cadmium, total	µg/L	0.101	0.146	<0.1	<0.1	30
Chromium, total	µg/L	30.5	16.1	16.3	16.5	2,770
Copper, total	µg/L	20.2	28.6	7.11	17.1	260
Lead, total	µg/L	16.7	25.6	0.601	12.8	220
Nickel, total	µg/L	6.6	5.11	<5	<5	3,980
Zinc, total	µg/L	24.7	37.2	<20	21.2	2,610
Mercury ^[a]	ng/L	17.4	87.7	3.18 ^[H]	44.8	50
pH	units	9.3 ^[HF]	9.6 ^[HF]	8.8 ^[HF]	8.9 ^[HF]	5-12
Biochemical Oxygen Demand (BOD)	mg/L	<12.0	<6.00 ^[P]	<3.00	<3.00	NE
Total Suspended Solids (TSS)	mg/L	74.2	318	<5.00	110	NE

Notes

mg/L = Milligrams per liter (parts per million).

µg/L = Micrograms per liter (parts per billion).

ng/L = Nanograms per liter (parts per trillion).

WLSSD = Western Lakes Sanitary District.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

NE = Not Applicable/No Limit - Billing Only

RL = Reporting limits for other parameters that are not listed individually in this table because their concentrations were below reporting limits provided in the laboratory report.

[a] = Sampling per EPA Method 1631E and Lab Analysis per EPA Method 1631

[c] = Priority Pollutants detected on Site

[HF] = Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

[H] = Sample was prepped or analyzed beyond the specified holding time.

*The sample from 10/4/21 was split and one filtered through a half-micron filter before analysis.

Garfield Site

Compound/Parameter	Unit	Monitoring Frequency	Sample Identifier, Date Collected, and Discharge Location	WLSSD Dewatering Discharge Criteria
			GP (9.29.21)	Daily Maximum Limit
			9.29.21	
			Garfield	
WLSSD Monitoring Requirements				
Gasoline Range Organics (GRO)	mg/L (ppm)	1X/month	<0.1	100
Diesel Range Organics (DRO)	mg/L (ppm)	1X/month	0.315	100
DRO with Silica Gel Cleanup	mg/L (ppm)	---	<0.105	100
Benzene	mg/L (ppm)	1X/month	<0.0005	1
Toluene	mg/L (ppm)	1X/month	<0.001	1
Ethylbenzene	mg/L (ppm)	1X/month	<0.001	1
Xylenes, total	mg/L (ppm)	1X/month	<0.003	1
BTEX, combined	mg/L (ppm)	1X/month	<0.0055	3
Cadmium, total	µg/L (ppb)	1X/month	0.18	30
Chromium, total	µg/L (ppb)	1X/month	16.7	2,770
Copper, total	µg/L (ppb)	1X/month	52.5	260
Lead, total	µg/L (ppb)	1X/month	28.6	220
Nickel, total	µg/L (ppb)	1X/month	15.7	3,980
Zinc, total	µg/L (ppb)	1X/month	80.9	2,610
Mercury ^[a]	ng/L (ppt)	2X/month	6.47	50
pH	units	2X/month	9.0 ^[HF]	5-12
Biochemical Oxygen Demand (BOD)	mg/L (ppm)	2X/month	21.6 ^[*]	NE
Total Suspended Solids (TSS)	mg/L (ppm)	2X/month	380	NE
Priority Pollutant Scan (EPA 624, 625, 608) ^[c]				
1,1-Dichloroethane	mg/L (ppm)	1X/month	<0.002	1
1,2-Dichloroethane	mg/L (ppm)	1X/month	<0.001	1
Naphthalene	mg/L (ppm)	1X/month	<0.05	1
1,2,4-Trichlorobenzene	mg/L (ppm)	1X/month	<0.05	1
Acenaphthene	mg/L (ppm)	1X/month	<0.05	1
Anthracene	mg/L (ppm)	1X/month	<0.05	1
Benzo(a)anthracene	mg/L (ppm)	1X/month	<0.05	1
Benzo(a)pyrene	mg/L (ppm)	1X/month	<0.05	1
Benzo(b)fluoranthene	mg/L (ppm)	1X/month	<0.05	1
Benzo(g,h,i)perylene	mg/L (ppm)	1X/month	<0.05	1
Benzo(k)fluoranthene	mg/L (ppm)	1X/month	<0.05	1
Chrysene	mg/L (ppm)	1X/month	<0.05	1
Dibenz(a,h)anthracene	mg/L (ppm)	1X/month	<0.05	1
Di(2-ethylhexyl)phthalate (bis(2-Ethylhexyl)phthalate)	mg/L (ppm)	1X/month	<0.05	1
Fluoranthene	mg/L (ppm)	1X/month	<0.05	1
Fluorene	mg/L (ppm)	1X/month	<0.05	1
Indeno(1,2,3-cd)pyrene	mg/L (ppm)	1X/month	<0.05	1
Phenanthrene	mg/L (ppm)	1X/month	<0.05	1
Pyrene	mg/L (ppm)	1X/month	<0.05	1
Endosulfan I	mg/L (ppm)	1X/month	<0.000376	1
PCB 1016	mg/L (ppm)	1X/month	<0.000941	1
PCB 1221	mg/L (ppm)	1X/month	<0.000941	1
PCB 1232	mg/L (ppm)	1X/month	<0.000941	1
PCB 1242	mg/L (ppm)	1X/month	<0.000941	1
PCB 1248	mg/L (ppm)	1X/month	<0.000941	1
PCB 1254	mg/L (ppm)	1X/month	<0.000941	1
PCB 1260	mg/L (ppm)	1X/month	<0.000941	1

Notes

mg/L = Milligrams per liter (parts per million=ppm).
 µg/L = Micrograms per liter (parts per billion=ppb).
 ng/L = Nanograms per liter (parts per trillion=ppt).
 WLSSD = Western Lakes Sanitary District.
 < = Not detected at or above the laboratory reporting limit indicated.
 --- = Not analyzed or calculated for this parameter or not applicable.
 NE = Not Applicable/No Limit - Billing Only
 RL = Reporting limits for other parameters that are not listed individually in this table because their concentrations were below reporting limits provided in the laboratory report.
 [a] = Sampling per EPA Method 1631E and Lab Analysis per EPA Method 1631
 [c] = Priority Pollutants detected on Site
 [*] = Laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) is outside acceptance limits, low biased.
 [HF] = Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

March 3, 2022

Additionally, a bench test of a sample obtained from Hermantown was conducted to explore the potential for content and to see if filter media of a larger nominal opening size would be effective at reducing observed contaminant concentrations. The sample was split and one portion allowed to settle overnight (ambient sample) before further subdivision and handling for analysis. Both agitated (worst-case scenario) and settled (ambient) portions were submitted for analysis in three filtration conditions: unfiltered, filtered through a 50-micon filter, filtered through a 25-micron filter. The larger nominal opening filter media did not show a significant reduction of contaminant content, but the sample illustrates additional values of expected contaminants and concentrations:

Hermantown Site Bench Test

Compound/Parameter	Unit	Sample Identifier, Date Collected, and Discharge Location									WLSDD Dewatering Discharge Criteria - 2021-2022 Permit
		HP/WCS	HP/WCS-50	HP/WCS-25	HP/AS	HP/AS-50	HP/AS-25	MB-25	MB-50	Trip Blank	
		12/01/21	12/01/21	12/01/21	12/01/21	12/01/21	12/01/21	12/01/21	12/01/21	12/01/21	
Worst Case Sample - Agitated Water			Ambient Sample			Quality Control			Daily Maximum Limit		
WLSDD Monitoring Requirements											
Gasoline Range Organics (GRO)	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	100
Diesel Range Organics (DRO)	mg/L	0.205	0.270	0.202	0.125	0.133	<0.118 ^[*1]	<0.120 ^[*1]	<0.111 ^[*1]	---	100
DRO with Silica Gel Cleanup	mg/L	<0.116	<0.120	<0.108	<0.111	<0.115	---	---	---	---	100
Benzene	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	1
Toluene	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	1
Ethylbenzene	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	1
Xylenes, total	mg/L	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	1
BTEX, combined	mg/L	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	3
Arsenic, total	µg/L	5.34	5	5.11	5.05	4.97	4.9	<2	<2	---	NE
Barium, total	µg/L	89.9	68.4	75.5	79.3	72.0	68.3	<2	<2	---	NE
Cadmium, total	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	---	30
Chromium, total	µg/L	23.2	22.2	23.3	22.4	22.9	22.2	<5	<5	---	2,770
Copper, total	µg/L	39.6	37	39.4	36	37.4	36.1	<5	<5	---	260
Lead, total	µg/L	11.3	6.56	7.46	9.64	6.94	6.25	<0.5	<0.5	---	220
Nickel, total	µg/L	5.91	5.18	5.6	<5	5.16	<5	<5	<5	---	3,980
Selenium, total	µg/L	<5	<5	<5	<5	<5	<5	<5	<5	---	NE
Silver, total	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	---	NE
Zinc, total	µg/L	28.1	26	25.8	21.1	23.3	21.4	<20	<20	---	2,610
Mercury ^[a]	ng/L	39.7	40.6	39.9	38.1	38.1	37.8	<0.500	<0.500	---	50
pH	units	9.5 ^[HF]	9.5 ^[HF]	9.5 ^[HF]	9.5 ^[HF]	9.5 ^[HF]	9.5 ^[HF]	5.7 ^[HF]	6.6 ^[HF]	---	5-12
Biochemical Oxygen Demand (BOD)	mg/L	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00 ^[*1]	<6.00 ^[*1]	---	NE
Total Suspended Solids (TSS)	mg/L	95.5	89.5	78.8	106	90.4	60.0	<5.00	<5.00	---	NE

Notes
 mg/L = Milligrams per liter (parts per million).
 µg/L = Micrograms per liter (parts per billion).
 ng/L = Nanograms per liter (parts per trillion).
 WLSDD = Western Lakes Sanitary District.
 < = Not detected at or above the laboratory reporting limit indicated.
 --- = Not analyzed or calculated for this parameter or not applicable.
 NE = Not Applicable/No Limit - Billing Only
 RL = Reporting limits for other parameters that are not listed individually in this table because their concentrations were below reporting limits provided in the laboratory report.
 [a] = Sampling per EPA Method 1631E and Lab Analysis per EPA Method 1631
 [*1] = Laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) is outside acceptance limits, high biased.
 [*1] = LCS/LCSD relative percent difference (RPD) exceeds control limits.
 [HF] = Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Based on the results of the discretionary sampling, the materials decanted and with potential exposure to storm water, and realized experience from operation of the Primary Filtration System, it is proposed that the contaminant concentrations of concern to WLSSD are correlated with solids content of effluent and that removal of solids will be a successful method of treatment to maintain a compliant effluent stream.

Discharged Water Quantity

Water discharged from the Hermantown Soil Management Facility is predominantly storm water with the potential for contact with contaminated soils stored at the site and the inferred contamination of the water that could occur by leaching or transport of contaminated particles. As evidenced by pre-construction surveys and data obtained during operations, leachable contaminants have not been observed and inferred contamination is limited to transported sediments only. Due both to the nature of materials stored at the site and operational experience, decanted water is not a significant contributor to the amount of water collected and retained at the site. Neglecting nominal contributions from decanted water, the parameter of consideration for determining the amount of water that needs to be discharged from the site is the amount of precipitation captured by the site less the amount lost to evaporation/sublimation. For the Duluth area, precipitation averages published by the NOAA is about 31.2 inches. For the recent 3-year period, the average has been 27.1 inches. Evaporation/sublimation rates are not a NOAA published value, but in a 1956-1970 study published by NOAA in 1982 (NOAA Technical Report NWS 34, Mean Monthly, Seasonal and Annual Pan Evaporation for the United States, Washington D.C., December 1982), the rate for Duluth was 35.2 inches. Although the evaporation rate exceeds the precipitation rate, operational experience has shown there to be consistent attainment of water level within the containment reservoir at the Soil Management Sites, and it largely based on the differential between precipitation quantities received and the drying conditions experienced of a period of time. For example, if multiple large precipitation events occur within close time proximity, there will be need to discharge water to regain available capacity in the containment area without leaving a condition that could be overtopped by another precipitation event. Due to the difficulty in forecasting precipitation events and the weather experienced between them, the proposed quantification neglects evaporation.

For the nearly 8-acre site in Hermantown, a conservative estimation of 36 inches of liquid-equivalent precipitation per year would result in a discharge of 7.82 million gallons of discharge per year. The discharge rate will be limited by the infrastructure available to receive the discharge flows and is understood to be an 8-inch gravity-flow sewer to the WLSSD lift station near the intersection of T.H. 53 and MN-194. The proposed discharge rate is 100 gallons per minute which will be able to process 1 inch of liquid precipitation every 36 hours. The site water containment basin is designed to hold a single 6-inch rainfall without overtopping. All discharge will pass through a dedicated flow meter downstream from treatment and summary quantities reported monthly, or as required by the permit.

Proposed Treatment

The proposed treatment method proposed for the Hermantown Soil Management Facility is somewhat different from the Primary Treatment System in complexity and overall capability, but utilizes a similar treatment philosophy of removing solids to achieve a compliant effluent. In addition to the reduced treatment rate intended for the site, the exposure to potential unknown contaminants (e.g. free petroleum product, etc.) is eliminated by being selective of the materials stored at the site. Based on the discretionary testing, bench testing and experiential project water treatment the following means of eliminating solids from the discharge effluent are proposed:

1. Floating and/or standpipe-type intake to prevent settled solids in retention basin from entering flow stream
2. Treatment of flow with flocculent (Dober HaloKlear Chitosan, similar or as approved) via flow bed and “floc socks” to properly dose flow with treatment chemical without active monitoring and allow for simple change-out of consumed media socks.
3. Sediment precipitation by use of a weir tank, dewatering box, settling basin or combination.
4. Progressive filtration through sand/bag filter media with final filtration of 5 microns prior to discharge.

This is the initial proposed configuration with the intent to continue discretionary testing of different stages of the treatment process to look for further points of system optimization. Conversely, if any of the parameters that are monitored begin to show indications of non-compliance, additional elements can be added to the system to provide additional treatment such as acid/caustic addition for pH control. If any changes to system are desired, WLSSD approval will be required before implementation.

System Efficacy, Operation and Maintenance

The system efficacy will be checked both through qualification testing at start up and monitoring required by the permit. The site condition as system start up is expected to consist largely of thawing snow pack, and the effluent is expected to be much cleaner than typical until the water retained in the basin last season thaws and rain events begin to occur. What is anticipated is a gradual integration of site contact waters with melting snow pack, which will

March 3, 2022

result in a graduated adjustment where the full expected efficacy is needed which will allow time for sampling events and analytical processing to occur as well as adjustment of the system to site conditions.

The operation of this system is not intended to be staffed at all times during operation. Given the low flow rate, simple nature of treatments employed and low potential for exposure in the contamination's content, operation is intended to be manual on/off of the discharge pump(s) and manual exchange of treatment chemical and filtration media. If there is concern that parameter surveillance should be employed, AKJV and WLSSD will discuss topics of concern to determine a best-practice for incorporation into the system.

Cessation of Discharge

If discharge to WLSSD must cease for any reason, a responsible party will have been previously identified and contact information communicated with WLSSD Staff. Default persons for this responsibility are:

- Project General Superintendent – Randy Lagro 612-919-4533
- Project Area Superintendent – Ryan Thomas 612-919-2599
- Project Area Manager – Harrison King 612-900-6199
- Project Area Engineer – Conner Reed 612-419-4035

The responsible contact will be available by phone all hours and all days that discharge is occurring.

Permit Participation

As established in the authorization for the TPI Project Discharge, MNDOT will be a participant in the permit obligations and discharge billing. As established for the Primary system, AKJV will report discharge quantities and monitoring as specified in the authorization, and MNDOT will pay for discharge/disposal fees accrued by use.

If there are any additional questions, concerns or other issues that arise from review of this information, please contact me, Andrew Reynolds, by phone at (612) 618-6651 or by email at AndrewReynolds@AmesCo.com.

Regards,

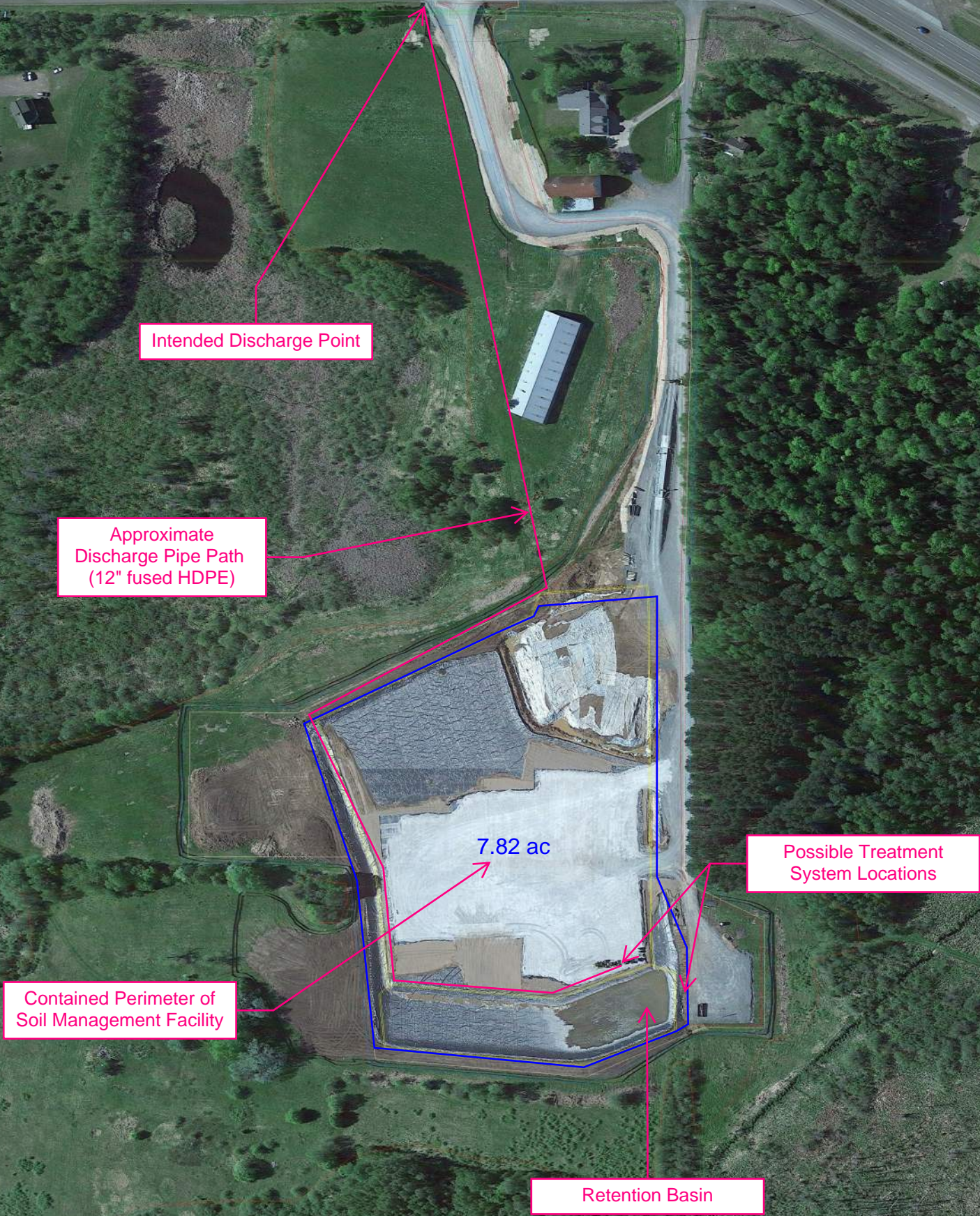
Ames Kraemer Joint Venture

Andrew Reynolds
Civil Construction Manager

Attachments:

As-Built Hermantown Site Photograph
Hermantown Site Schematic
City of Hermantown Sanitary Sewer Schematic
Hermantown Discretionary Testing Results
Garfield Discretionary Testing Results
Hermantown Bench Test Results





Intended Discharge Point

Approximate Discharge Pipe Path (12" fused HDPE)

7.82 ac

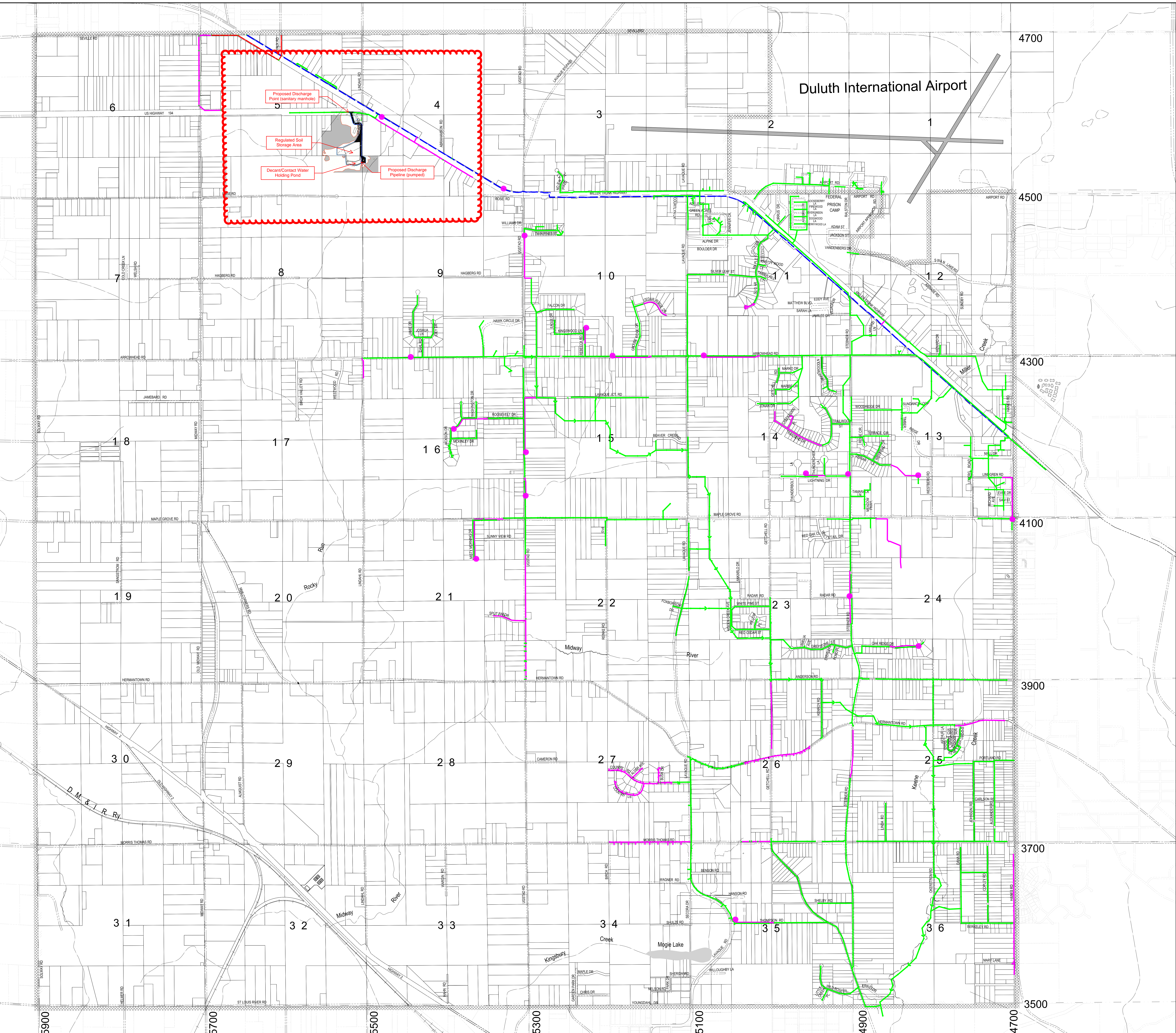
Contained Perimeter of Soil Management Facility

Retention Basin

Possible Treatment System Locations



700 ft



Duluth International Airport

Proposed Discharge Point (sanitary manhole)
 Regulated Soil Storage Area
 Decant/Contact Water Holding Pond
 Proposed Discharge Pipeline (pumped)

PLAWSC SEWER
 WLSDD INTERSEPTOR
 TRUNK SEWER
 GRAVITY SEWER
 FORCE MAIN, LIFT STATION
 REVISED - March 24, 2014

CITY OF HERMANTOWN, MINNESOTA - SANITARY SEWER MAP 2014

SCALE
 0 1000' 2000'

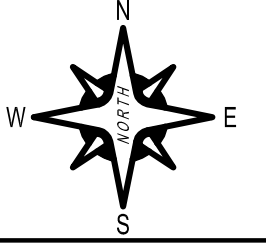


Table 1
Hermantown Stockpile Stormwater Pond
Twin Ports Interchange Project
Duluth, MN
Project B1810947.02

Compound/Parameter	Unit	Monitoring Frequency	Sample Identifier, Date Collected, and Discharge Location		WLSSD Dewatering Discharge Criteria
			HP (8.5.21)	HP (9.20.21)	Daily Maximum Limit
			8.5.21/8.9.21	9.20.21	
WLSSD Monitoring Requirements					
Gasoline Range Organics (GRO)	mg/L	1X/month	<0.1	<0.1	100
Diesel Range Organics (DRO)	mg/L	1X/month	0.150	<0.105	100
Benzene	mg/L	1X/month	0.00173	<0.0005	1
Toluene	mg/L	1X/month	<0.001	<0.001	1
Ethylbenzene	mg/L	1X/month	<0.001	<0.001	1
Xylenes, total	mg/L	1X/month	<0.003	<0.003	1
BTEX, combined	mg/L	1X/month	0.00673	<0.0055	3
Cadmium, total	µg/L	1X/month	0.101	0.146	30
Chromium, total	µg/L	1X/month	30.5	16.1	2,770
Copper, total	µg/L	1X/month	20.2	28.6	260
Lead, total	µg/L	1X/month	16.7	25.6	220
Nickel, total	µg/L	1X/month	6.6	5.11	3,980
Zinc, total	µg/L	1X/month	24.7	37.2	2,610
Mercury ^[a]	ng/L	2X/month	17.4	87.7	50
pH	units	2X/month	9.3 ^[HF]	9.6 ^[HF]	5-12
Biochemical Oxygen Demand (BOD)	mg/L	2X/month	<12.0	Results Pending	NE
Total Suspended Solids (TSS)	mg/L	2X/month	74.2	318	NE
Priority Pollutant Scan (EPA 624,625, 608) ^[c]					
1,1-Dichloroethane	mg/L	1X/month	<0.001	<0.001	1
1,2-Dichloroethane	mg/L	1X/month	<0.001	<0.001	1
Naphthalene	mg/L	1X/month	<0.0105	<0.0108	1
1,2,4-Trichlorobenzene	mg/L	1X/month	<0.0105	<0.0108	1
Acenaphthene	mg/L	1X/month	<0.0105 ^[*-]	<0.0108	1
Anthracene	mg/L	1X/month	<0.0105	<0.0108	1
Benzo(a)anthracene	mg/L	1X/month	<0.0105	<0.0108	1
Benzo(a)pyrene	mg/L	1X/month	<0.0105	<0.0108	1
Benzo(b)fluoranthene	mg/L	1X/month	<0.0105	<0.0108	1
Benzo(g,h,i)perylene	mg/L	1X/month	<0.0105	<0.0108	1
Benzo(k)fluoranthene	mg/L	1X/month	<0.0105	<0.0108	1
Chrysene	mg/L	1X/month	<0.0105	<0.0108	1
Dibenz(a,h)anthracene	mg/L	1X/month	<0.0105	<0.0108	1
Di(2-ethylhexyl)phthalate (bis(2-Ethylhexyl)phthalate)	mg/L	1X/month	<0.0105	<0.0108	1
Fluoranthene	mg/L	1X/month	<0.0105	<0.0108	1
Fluorene	mg/L	1X/month	<0.0105 ^[*-]	<0.0108 ^[*-]	1
Indeno(1,2,3-cd)pyrene	mg/L	1X/month	<0.0105	<0.0108	1
Phenanthrene	mg/L	1X/month	<0.0105 ^[*-]	<0.0108	1
Pyrene	mg/L	1X/month	<0.0105 ^[*-]	<0.0108	1
Endosulfan I	mg/L	1X/month	<0.0000368	<0.000033 ^[*-]	1
PCB 1016	mg/L	1X/month	<0.00092	<0.000825	1
PCB 1221	mg/L	1X/month	<0.00092	<0.000825	1
PCB 1232	mg/L	1X/month	<0.00092	<0.000825	1
PCB 1242	mg/L	1X/month	<0.00092	<0.000825	1
PCB 1248	mg/L	1X/month	<0.00092	<0.000825	1
PCB 1254	mg/L	1X/month	<0.00092	<0.000825	1
PCB 1260	mg/L	1X/month	<0.00092	<0.000825	1

Notes

mg/L = Milligrams per liter (parts per million).

µg/L = Micrograms per liter (parts per billion).

ng/L = Nanograms per liter (parts per trillion).

WLSSD = Western Lakes Sanitary District.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

NE = Not Applicable/No Limit - Billing Only

RL = Reporting limits for other parameters that are not listed individually in this table because their concentrations were below reporting limits provided in the laboratory report.

[a] = Sampling per EPA Method 1631E and Lab Analysis per EPA Method 1631

[c] = Priority Pollutants detected on Site

[*-] = Laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) is outside acceptance limits, low biased.

[HF] = Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Results Pending = Laboratory sample needed to be reset.

WLSSD Daily Maximum Limit

**Table 1
Garfield Stockpile Stormwater Pond
Twin Ports Interchange Project
Duluth, MN
Project B1810947.02**

Compound/Parameter	Unit	Monitoring Frequency	Sample Identifier, Date Collected, and Discharge Location	WLSSD Dewatering Discharge Criteria
			GP (9.29.21)	Daily Maximum Limit
			9.29.21 Garfield	
WLSSD Monitoring Requirements				
Gasoline Range Organics (GRO)	mg/L (ppm)	1X/month	<0.1	100
Diesel Range Organics (DRO)	mg/L (ppm)	1X/month	0.315	100
DRO with Silica Gel Cleanup	mg/L (ppm)	---	<0.105	100
Benzene	mg/L (ppm)	1X/month	<0.0005	1
Toluene	mg/L (ppm)	1X/month	<0.001	1
Ethylbenzene	mg/L (ppm)	1X/month	<0.001	1
Xylenes, total	mg/L (ppm)	1X/month	<0.003	1
BTEX, combined	mg/L (ppm)	1X/month	<0.0055	3
Cadmium, total	µg/L (ppb)	1X/month	0.18	30
Chromium, total	µg/L (ppb)	1X/month	16.7	2,770
Copper, total	µg/L (ppb)	1X/month	52.5	260
Lead, total	µg/L (ppb)	1X/month	28.6	220
Nickel, total	µg/L (ppb)	1X/month	15.7	3,980
Zinc, total	µg/L (ppb)	1X/month	80.9	2,610
Mercury ^[a]	ng/L (ppt)	2X/month	6.47	50
pH	units	2X/month	9.0 ^[HF]	5-12
Biochemical Oxygen Demand (BOD)	mg/L (ppm)	2X/month	21.6 ^[*-]	NE
Total Suspended Solids (TSS)	mg/L (ppm)	2X/month	380	NE
Priority Pollutant Scan (EPA 624,625, 608) ^[c]				
1,1-Dichloroethane	mg/L (ppm)	1X/month	<0.002	1
1,2-Dichloroethane	mg/L (ppm)	1X/month	<0.001	1
Naphthalene	mg/L (ppm)	1X/month	<0.05	1
1,2,4-Trichlorobenzene	mg/L (ppm)	1X/month	<0.05	1
Acenaphthene	mg/L (ppm)	1X/month	<0.05	1
Anthracene	mg/L (ppm)	1X/month	<0.05	1
Benzo(a)anthracene	mg/L (ppm)	1X/month	<0.05	1
Benzo(a)pyrene	mg/L (ppm)	1X/month	<0.05	1
Benzo(b)fluoranthene	mg/L (ppm)	1X/month	<0.05	1
Benzo(g,h,i)perylene	mg/L (ppm)	1X/month	<0.05	1
Benzo(k)fluoranthene	mg/L (ppm)	1X/month	<0.05	1
Chrysene	mg/L (ppm)	1X/month	<0.05	1
Dibenz(a,h)anthracene	mg/L (ppm)	1X/month	<0.05	1
Di(2-ethylhexyl)phthalate (bis(2-Ethylhexyl)phthalate)	mg/L (ppm)	1X/month	<0.05	1
Fluoranthene	mg/L (ppm)	1X/month	<0.05	1
Fluorene	mg/L (ppm)	1X/month	<0.05	1
Indeno(1,2,3-cd)pyrene	mg/L (ppm)	1X/month	<0.05	1
Phenanthrene	mg/L (ppm)	1X/month	<0.05	1
Pyrene	mg/L (ppm)	1X/month	<0.05	1
Endosulfan I	mg/L (ppm)	1X/month	<0.0000376	1
PCB 1016	mg/L (ppm)	1X/month	<0.000941	1
PCB 1221	mg/L (ppm)	1X/month	<0.000941	1
PCB 1232	mg/L (ppm)	1X/month	<0.000941	1
PCB 1242	mg/L (ppm)	1X/month	<0.000941	1
PCB 1248	mg/L (ppm)	1X/month	<0.000941	1
PCB 1254	mg/L (ppm)	1X/month	<0.000941	1
PCB 1260	mg/L (ppm)	1X/month	<0.000941	1

Notes

mg/L = Milligrams per liter (parts per million=ppm).

µg/L = Micrograms per liter (parts per billion=ppb).

ng/L = Nanograms per liter (parts per trillion=ppt).

WLSSD = Western Lakes Sanitary District.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

NE = Not Applicable/No Limit - Billing Only

RL = Reporting limits for other parameters that are not listed individually in this table because their concentrations were below reporting limits provided in the laboratory report.

[a] = Sampling per EPA Method 1631E and Lab Analysis per EPA Method 1631

[c] = Priority Pollutants detected on Site

[*-] = Laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) is outside acceptance limits, low biased.

[HF] = Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

WLSSD Daily Maximum Limit

**Hermantown Stockpile Stormwater Pond - Bench Filter Test
Twin Ports Interchange Project
Duluth, MN
Project B1810947.02**

Compound/Parameter	Unit	Sample Identifier, Date Collected, and Discharge Location									WLSSD Dewatering Discharge Criteria - 2021-2022 Permit
		HP/WCS	HP/WCS-50	HP/WCS-25	HP/AS	HP/AS-50	HP/AS-25	MB-25	MB-50	Trip Blank	Daily Maximum Limit
		12/01/21	12/01/21	12/01/21	12/01/21	12/01/21	12/01/21	12/01/21	12/01/21	12/01/21	
Worst Case Sample - Agitated Water			Ambient Sample			Quality Control					
WLSSD Monitoring Requirements											
Gasoline Range Organics (GRO)	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	100
Diesel Range Organics (DRO)	mg/L	0.205	0.270	0.202	0.125	0.133	<0.118 ^[*1]	<0.120 ^[*1]	<0.111 ^[*1]	---	100
DRO with Silica Gel Cleanup	mg/L	<0.116	<0.120	<0.108	<0.111	<0.115	---	---	---	---	100
Benzene	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	1
Toluene	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	1
Ethylbenzene	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	1
Xylenes, total	mg/L	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	1
BTEX, combined	mg/L	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	3
Arsenic, total	µg/L	5.34	5	5.11	5.05	4.97	4.9	<2	<2	---	NE
Barium, total	µg/L	89.9	68.4	75.5	79.3	72.0	68.3	<2	<2	---	NE
Cadmium, total	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	---	30
Chromium, total	µg/L	23.2	22.2	23.3	22.4	22.9	22.2	<5	<5	---	2,770
Copper, total	µg/L	39.6	37	39.4	36	37.4	36.1	<5	<5	---	260
Lead, total	µg/L	11.3	6.56	7.46	9.64	6.94	6.25	<0.5	<0.5	---	220
Nickel, total	µg/L	5.91	5.18	5.6	<5	5.16	<5	<5	<5	---	3,980
Selenium, total	µg/L	<5	<5	<5	<5	<5	<5	<5	<5	---	NE
Silver, total	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	---	NE
Zinc, total	µg/L	28.1	26	25.8	21.1	23.3	21.4	<20	<20	---	2,610
Mercury ^[a]	ng/L	39.7	40.6	39.9	38.1	38.1	37.8	<0.500	<0.500	---	50
pH	units	9.5^[HF]	9.5^[HF]	9.5^[HF]	9.5^[HF]	9.5^[HF]	9.5^[HF]	5.7^[HF]	6.6^[HF]	---	5-12
Biochemical Oxygen Demand (BOD)	mg/L	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00 ^[*1]	<6.00 ^[*1]	---	NE
Total Suspended Solids (TSS)	mg/L	95.5	89.5	78.8	106	90.4	60.0	<5.00	<5.00	---	NE

Notes

mg/L = Milligrams per liter (parts per million).

µg/L = Micrograms per liter (parts per billion).

ng/L = Nanograms per liter (parts per trillion).

WLSSD = Western Lakes Sanitary District.

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[a] = Sampling per EPA Method 1631E and Lab Analysis per EPA Method 1631

[*+] = Laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) is outside acceptance limits, high biased.

[*1] = LCS/LCSD relative percent difference (RPD) exceeds control limits.

[HF] = Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

WLSSD Daily Maximum Limit

TO: Utility Commission Members



FROM: Lindsay Townsend, Utility
Billing Clerk

DATE: March 10, 2022

Meeting Date: 03/17/2022

SUBJECT: Hermantown School Discount

Agenda Item: 7a

REQUESTED ACTION

Request approval of a sewer discount for Hermantown Schools.

BACKGROUND

In early January 2022 it was discovered that the water meter froze in the concession stand building at the football field. The amount of water that flowed through the meter was 341,300 gallons. It was estimated on the low end that about 160,000 gallons of this water did go down the sanitary sewer system through the floor drain in the building, and the rest went on the ground outside the building.

After communicating with Public Works, it is recommended that the City offer a sewer discount in the amount of \$1,885.52. Giving more than the sewer credit is inconsistent with what the City has done in the past. Therefore, we are recommending the below sewer credit which is consistent with what we have done with other customers.

341,300 gallons of water minus 160,000 gallons that went through the sewer = 181,300 gallons

$181,300 / 1000 = 181.3$

$181.3 * \$10.40 = \$1,885.52$

SOURCE OF FUNDS (if applicable)

ATTACHMENTS

- Letter from Hermantown Schools
- Photos

From: Lance Takkunen <ltakkunen@isd700.org>

Sent: Thursday, February 17, 2022 3:29 PM

To: Utility <utility@hermantownmn.com>; CH-Lindsay Townsend <ltownsend@hermantownmn.com>

Subject: Utility Commission Appeal

Hermantown Schools would like to appeal the invoicing for a water meter break that occurred in January 2022. This occurred at our sports complex concession stand location. The details of the event are as follows.

January 6, 2022, our buildings and Grounds Director received a call that the lift station was running much more than normal. He went to each school building looking for large leaks and found nothing. This information was passed along to Paul at the city.

January 14, 2022, Paul from the city called our Buildings and Grounds Director to check the meter at our sports complex, as through his monitoring system he found that it was running out of control. Upon checking that meter, it was found to be cracked at the bottom. We shut the main supply off to the meter and the water stopped. Upon investigation, it was found that the electric heat was off due to the main breaker having been tripped in that building.

Please see the attached photos and copy of the January invoice.

The District is proposing the following.

- 1) The water volume lost through the meter break can be invoiced 100% at tier 1 rates.
- 2) The sewer volume charge of \$ 3,549.52 be waived due to all lost water flowing out to the ground and not down the sewer. (see pictures)

We ask that you consider this proposal. We would like to thank Paul at the city for the help in locating the break. The only thing that I would like to add is that I wish that the break could have been found faster using the City monitoring system. It took a full week of losing water before that system could help us locate the issue.

Thank you,

Lance Takkunen

Hermantown Community Schools | Director of Business Services

4307 Ugstad Rd | Hermantown, MN

55811<<https://maps.google.com/?q=4307+Ugstad+Rd+%7C+Hermantown,+MN+55811&entry=gmail&source=g>>

P 218-729-9313 x 6002 | F 218-729-9315



CITY OF HERMANTOWN
 5105 Maple Grove Road
 Hermantown, MN 55811
 utility@hermantownmn.com
 218-729-3600

Total Amount Due:

\$6,965.06

Web ID	Account Number	Due Date
1460	1465-00	02/10/2022



* A 0 I I 1 C B 2 I 6 *

576 *****AUTO**5-DIGIT 55811 2



HERMANTOWN ATHLETIC CONCESSION
 4307 UGSTAD RD
 HERMANTOWN MN 55811-1335

CITY OF HERMANTOWN
 5105 Maple Grove Road
 Hermantown, MN 55811



CITY OF HERMANTOWN
 5105 Maple Grove Road
 Hermantown, MN 55811
 utility@hermantownmn.com
 218-729-3600

PLEASE RETURN TOP PORTION WITH YOUR PAYMENT

Billing Date: 01/21/2022

Usage Dates: 12/15/2021 to 01/14/2022

Service Address: 4307 UGSTAD RD

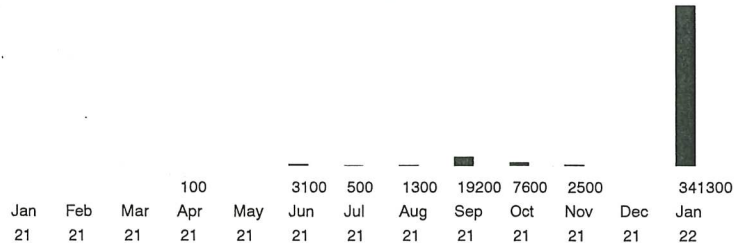
Account Number	Web ID	Current Charges	Past Due Amount	Total Amount Due	Last Payment Date	Last Payment Amount	Late Fee After
1465-00	1460	\$6,965.06	\$0.00	\$6,965.06	01/04/2022	\$12.24	02/10/2022

CURRENT CHARGES	
WATER	3,402.86
W-SERVICE CHARG	9.36
SEWER	3,549.52
S-SERVICE CHARG	3.32
<i>Concess</i>	
<i>01. 302.80 x x 330</i>	
TOTAL CURRENT CHARGES	\$6,965.06
PRIOR CREDIT BALANCE	\$0.00
LATE FEE/PAST DUE	\$0.00
CURRENT BALANCE	\$6,965.06

METER READING		TOTAL GALLONS USED
PREVIOUS	PRESENT	
250300 12/15/2021	591600 01/14/2022	341300

TIER BREAKDOWN CURRENT USAGE		
	GALLONS	CHARGES
TIER 1	20000	168.60
TIER 2	30000	266.10
TIER 3	291300	2968.16
TOTAL WATER USAGE	341300	3402.86

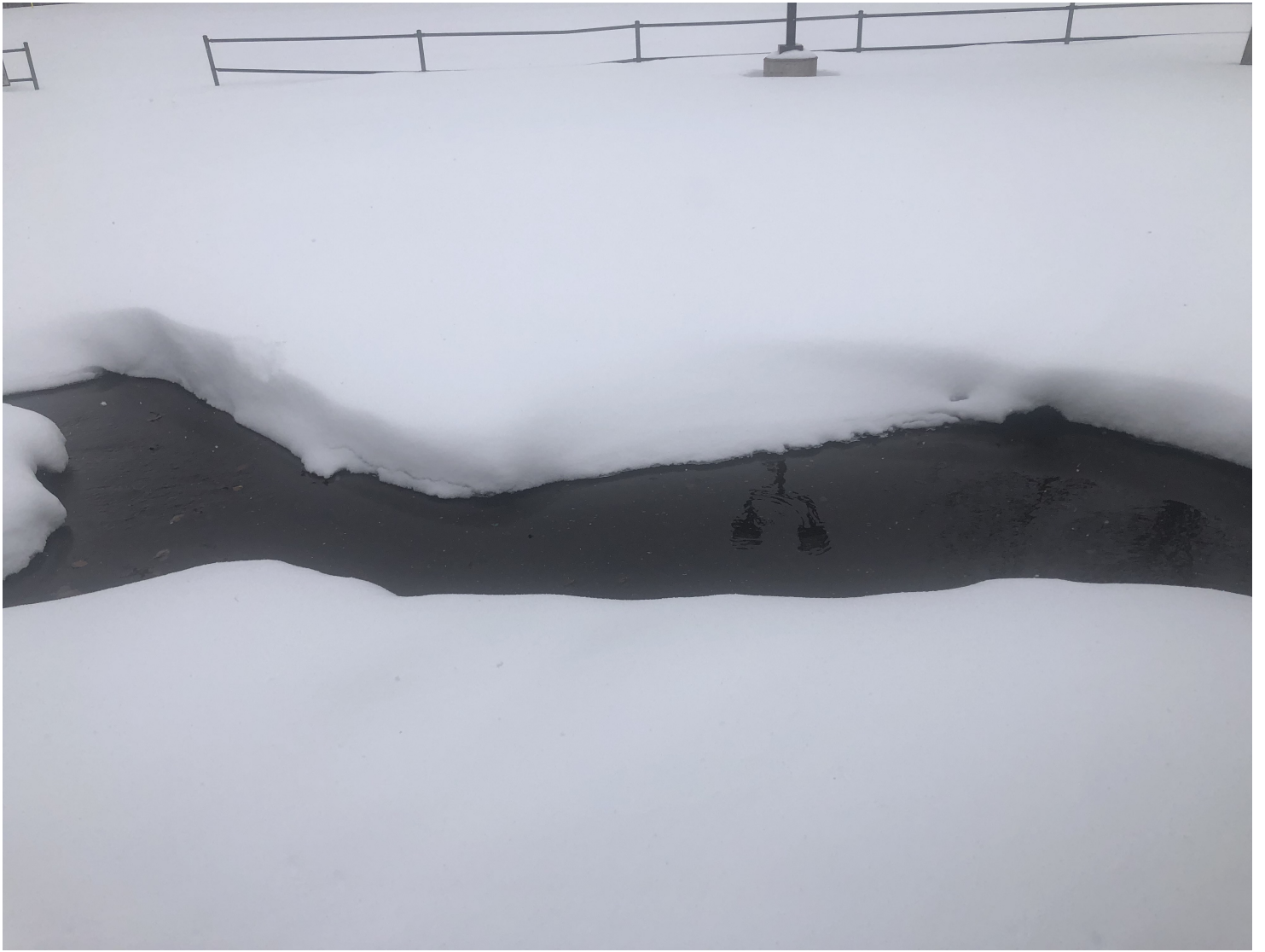
WATER USAGE HISTORY



ONLINE SERVICES	
Create Your Online Account at www.hermantownmn.com	
<ul style="list-style-type: none"> Pay Online View History Auto Pay Paperless Billing 	<ul style="list-style-type: none"> Access Forms Online Transfer Service New Service

IMPORTANT INFORMATION
Avoid delays from the US mail service and sign up for paperless billing on the utility portal @ https://hermantownmn.com/departments/utility-department/

1/31/22





260 Cable TV Fund

Account	Object	Committed Current Month	Committed YTD	Original Appropriation	Current Appropriation	Available Appropriation	% (Commit
456100							
456101	Cable						
	101 Full-Time Employees - Regular	303.74	542.39	4,282.00	4,282.00	3,739.61	13 %
	121 PERA Contributions -	24.02	42.89	321.00	321.00	278.11	13 %
	128 Social Security	53.06	67.96	266.00	266.00	198.04	26 %
	129 Medicare	12.42	15.91	62.00	62.00	46.09	26 %
	131 Health Insurance	62.00	161.50	944.00	944.00	782.50	17 %
	133 Life Insurance	0.66	1.17	8.00	8.00	6.83	15 %
	134 Disability Insurance	1.29	2.16	13.00	13.00	10.84	17 %
	136 MSRS	1.20	2.14	20.00	20.00	17.86	11 %
	151 Workers Compensation	0.00	0.00	6.00	6.00	6.00	%
	308 Legal Fees	0.00	0.00	500.00	500.00	500.00	%
	319 Contracted Services	550.00	550.00	7,500.00	7,500.00	6,950.00	7 %
	331 Travel Expense	16.62	29.68	0.00	0.00	-29.68	%
	361 General Liability Insurance	0.00	0.00	52.00	52.00	52.00	%
	404 Equipment Maintenance	0.00	0.00	1,000.00	1,000.00	1,000.00	%
	Account Total:	1,025.01	1,415.80	14,974.00	14,974.00	13,558.20	9 %
	Account Group Total:	1,025.01	1,415.80	14,974.00	14,974.00	13,558.20	9 %
	Fund Total:	1,025.01	1,415.80	14,974.00	14,974.00	13,558.20	9 %

601 Water Enterprise Fund

Account	Object	Committed Current Month	Committed YTD	Original Appropriation	Current Appropriation	Available Appropriation	% (Commit
494300	Water Distribution						
494300	Water Distribution						
101	Full-Time Employees - Regular	8,087.57	-21,337.53	169,097.00	169,097.00	190,434.53	-13 %
102	Full-Time Employees - Overtime	1,964.78	875.31	12,687.00	12,687.00	11,811.69	7 %
111	Severance Pay - Vacation/Sick	0.00	0.00	19,387.00	19,387.00	19,387.00	%
121	PERA Contributions -	753.94	1,194.84	13,634.00	13,634.00	12,439.16	9 %
128	Social Security	599.59	942.94	12,473.00	12,473.00	11,530.06	8 %
129	Medicare	140.21	220.50	2,917.00	2,917.00	2,696.50	8 %
131	Health Insurance	3,131.64	9,548.80	76,877.00	76,877.00	67,328.20	12 %
133	Life Insurance	12.20	22.59	205.00	205.00	182.41	11 %
134	Disability Insurance	51.12	89.17	904.00	904.00	814.83	10 %
136	MSRS	12.50	20.36	1,307.00	1,307.00	1,286.64	2 %
151	Workers Compensation	0.00	0.00	7,360.00	7,360.00	7,360.00	%
212	Motor Fuels	0.00	510.34	3,000.00	3,000.00	2,489.66	17 %
216	Uniforms	0.00	0.00	500.00	500.00	500.00	%
221	General Supplies	0.00	329.48	5,500.00	5,500.00	5,170.52	6 %
228	Utility System Maint Supplies	0.00	8,585.95	39,000.00	39,000.00	30,414.05	22 %
314	Computer/Software Fees	0.00	2,500.00	3,750.00	3,750.00	1,250.00	67 %
315	School & Conference	46.05	97.91	2,500.00	2,500.00	2,402.09	4 %
319	Contracted Services	0.00	0.00	30,000.00	30,000.00	30,000.00	%
321	Telephone	1,303.94	1,303.94	0.00	0.00	-1,303.94	%
331	Travel Expense	0.00	0.00	750.00	750.00	750.00	%
351	Legal Notices Publishing	0.00	0.00	250.00	250.00	250.00	%
361	General Liability Insurance	0.00	0.00	5,843.00	5,843.00	5,843.00	%
382	Water Purchases	0.00	67,311.98	740,000.00	740,000.00	672,688.02	9 %
404	Equipment Maintenance	0.00	0.00	4,000.00	4,000.00	4,000.00	%
406	Vehicle Maintenance	0.00	242.05	2,000.00	2,000.00	1,757.95	12 %
413	Equipment Rental	0.00	0.00	7,500.00	7,500.00	7,500.00	%
417	Uniform Rental	0.00	0.00	500.00	500.00	500.00	%
451	Dues & Subscriptions	0.00	567.00	700.00	700.00	133.00	81 %
460	Permits & Licenses	0.00	19.25	0.00	0.00	-19.25	%
470	Booster Pump Repairs	0.00	0.00	250.00	250.00	250.00	%
471	Water Line Repairs	35.97	4,700.84	40,000.00	40,000.00	35,299.16	12 %
472	Hydrant Repairs	0.00	0.00	14,500.00	14,500.00	14,500.00	%
580	Other Equipment	0.00	0.00	5,000.00	5,000.00	5,000.00	%
	Account Total:	16,139.51	77,745.72	1,222,391.00	1,222,391.00	1,144,645.28	6 %
	Account Group Total:	16,139.51	77,745.72	1,222,391.00	1,222,391.00	1,144,645.28	6 %
494400	Water Administration and General						
494400	Water Administration and General						
101	Full-Time Employees - Regular	5,681.49	-9,630.81	90,116.00	90,116.00	99,746.81	-11 %
102	Full-Time Employees - Overtime	0.00	0.00	574.00	574.00	574.00	%
121	PERA Contributions -	432.41	765.58	6,759.00	6,759.00	5,993.42	11 %
128	Social Security	338.29	598.61	5,587.00	5,587.00	4,988.39	11 %
129	Medicare	79.08	139.98	1,307.00	1,307.00	1,167.02	11 %
131	Health Insurance	1,827.20	4,904.48	32,643.00	32,643.00	27,738.52	15 %
133	Life Insurance	10.13	18.09	170.00	170.00	151.91	11 %
134	Disability Insurance	33.58	51.64	395.00	395.00	343.36	13 %
136	MSRS	30.01	41.01	728.00	728.00	686.99	6 %
151	Workers Compensation	0.00	0.00	125.00	125.00	125.00	%
201	Office Supplies	0.00	98.94	50.00	50.00	-48.94	198 %

601 Water Enterprise Fund

Account	Object	Committed Current Month	Committed YTD	Original Appropriation	Current Appropriation	Available Appropriation	% (Commit
202	Printing Supplies	0.00	0.00	500.00	500.00	500.00	%
301	Audit/Account Services	150.00	150.00	6,750.00	6,750.00	6,600.00	2 %
303	Banking Fees	0.00	617.29	7,200.00	7,200.00	6,582.71	9 %
305	Engineer Fees	1,187.00	2,307.00	3,000.00	3,000.00	693.00	77 %
308	Legal Fees	0.00	38.00	4,000.00	4,000.00	3,962.00	1 %
314	Computer/Software Fees	0.00	1,000.00	3,700.00	3,700.00	2,700.00	27 %
315	School & Conference	0.00	0.00	1,000.00	1,000.00	1,000.00	%
319	Contracted Services	3.62	991.52	16,120.00	16,120.00	15,128.48	6 %
321	Telephone	206.95	421.29	2,510.00	2,510.00	2,088.71	17 %
322	Internet	0.00	46.32	400.00	400.00	353.68	12 %
323	Gopher One Call Locates	12.96	57.54	1,200.00	1,200.00	1,142.46	5 %
325	Postage	0.00	3.04	622.00	622.00	618.96	%
331	Travel Expense	83.08	148.36	1,480.00	1,480.00	1,331.64	10 %
351	Legal Notices Publishing	0.00	0.00	600.00	600.00	600.00	%
361	General Liability Insurance	0.00	0.00	9,537.00	9,537.00	9,537.00	%
381	Electricity	304.57	480.80	7,000.00	7,000.00	6,519.20	7 %
383	Heating Gas	787.55	1,660.13	3,000.00	3,000.00	1,339.87	55 %
405	Computer Maintenance	0.00	8,502.67	19,278.00	19,278.00	10,775.33	44 %
420	Depreciation Expenses	0.00	0.00	220,000.00	220,000.00	220,000.00	%
460	Permits & Licenses	0.00	38.50	0.00	0.00	-38.50	%
720	Transfer Out	0.00	0.00	91,749.00	91,749.00	91,749.00	%
	Account Total:	11,167.92	13,449.98	538,100.00	538,100.00	524,650.02	2 %
	Account Group Total:	11,167.92	13,449.98	538,100.00	538,100.00	524,650.02	2 %
495000	Transfer Out						
495000	Transfer Out						
720	Transfer Out	0.00	0.00	17,500.00	17,500.00	17,500.00	%
	Account Total:	0.00	0.00	17,500.00	17,500.00	17,500.00	%
	Account Group Total:	0.00	0.00	17,500.00	17,500.00	17,500.00	%
	Fund Total:	27,307.43	91,195.70	1,777,991.00	1,777,991.00	1,686,795.30	5 %

602 Sewer Enterprise Fund

Account	Object	Committed Current Month	Committed YTD	Original Appropriation	Current Appropriation	Available Appropriation	% (Commit
432500	Sewer Improvements						
432500	Sewer Improvements						
	550 Street Improvements	0.00	0.00	50,950.00	50,950.00	50,950.00	%
	Account Total:	0.00	0.00	50,950.00	50,950.00	50,950.00	%
	Account Group Total:	0.00	0.00	50,950.00	50,950.00	50,950.00	%
494500	Sewer Maintenance						
494500	Sewer Maintenance						
	101 Full-Time Employees - Regular	7,605.75	-12,042.26	124,923.00	124,923.00	136,965.26	-10 %
	102 Full-Time Employees - Overtime	1,178.87	297.24	9,227.00	9,227.00	8,929.76	3 %
	111 Severance Pay - Vacation/Sick	0.00	0.00	14,100.00	14,100.00	14,100.00	%
	121 PERA Contributions -	658.86	1,013.16	10,061.00	10,061.00	9,047.84	10 %
	128 Social Security	523.26	800.05	9,192.00	9,192.00	8,391.95	9 %
	129 Medicare	122.38	187.09	2,150.00	2,150.00	1,962.91	9 %
	131 Health Insurance	2,831.26	7,218.10	56,482.00	56,482.00	49,263.90	13 %
	133 Life Insurance	11.43	20.16	154.00	154.00	133.84	13 %
	134 Disability Insurance	46.58	76.41	665.00	665.00	588.59	11 %
	136 MSRS	12.50	20.36	962.00	962.00	941.64	2 %
	151 Workers Compensation	0.00	0.00	5,494.00	5,494.00	5,494.00	%
	212 Motor Fuels	0.00	340.23	1,500.00	1,500.00	1,159.77	23 %
	216 Uniforms	0.00	0.00	500.00	500.00	500.00	%
	221 General Supplies	0.00	0.00	2,500.00	2,500.00	2,500.00	%
	228 Utility System Maint Supplies	0.00	0.00	2,500.00	2,500.00	2,500.00	%
	229 Lift Station Maintenance	0.00	0.00	10,000.00	10,000.00	10,000.00	%
	314 Computer/Software Fees	0.00	0.00	5,650.00	5,650.00	5,650.00	%
	315 School & Conference	46.05	97.91	1,000.00	1,000.00	902.09	10 %
	317 Personnel Testing, Physicals,	0.00	0.00	450.00	450.00	450.00	%
	319 Contracted Services	0.00	0.00	20,000.00	20,000.00	20,000.00	%
	331 Travel Expense	0.00	0.00	250.00	250.00	250.00	%
	361 General Liability Insurance	0.00	0.00	1,890.00	1,890.00	1,890.00	%
	385 Sewer Charges	47,632.00	95,264.00	619,000.00	619,000.00	523,736.00	15 %
	403 Road Maintenance	0.00	0.00	5,000.00	5,000.00	5,000.00	%
	404 Equipment Maintenance	0.00	1,264.50	5,500.00	5,500.00	4,235.50	23 %
	406 Vehicle Maintenance	0.00	0.00	2,500.00	2,500.00	2,500.00	%
	413 Equipment Rental	0.00	0.00	3,500.00	3,500.00	3,500.00	%
	451 Dues & Subscriptions	0.00	0.00	150.00	150.00	150.00	%
	460 Permits & Licenses	0.00	46.00	250.00	250.00	204.00	18 %
	475 Sewerline Repairs	0.00	0.00	45,000.00	45,000.00	45,000.00	%
	476 Lift Station Repairs Sewer	0.00	235.14	5,000.00	5,000.00	4,764.86	5 %
	477 I & I Maintenance	0.00	0.00	15,000.00	15,000.00	15,000.00	%
	478 Sewer Cleaning	0.00	0.00	40,000.00	40,000.00	40,000.00	%
	499 Miscellaneous	0.00	0.00	7,500.00	7,500.00	7,500.00	%
	580 Other Equipment	0.00	0.00	47,500.00	47,500.00	47,500.00	%
	590 Pumping Plant & Lift Stations	0.00	0.00	40,000.00	40,000.00	40,000.00	%
	Account Total:	60,668.94	94,838.09	1,115,550.00	1,115,550.00	1,020,711.91	9 %
	Account Group Total:	60,668.94	94,838.09	1,115,550.00	1,115,550.00	1,020,711.91	9 %

602 Sewer Enterprise Fund

Account	Object	Committed Current Month	Committed YTD	Original Appropriation	Current Appropriation	Available Appropriation	% (Commit
494900	Sewer Administration and General						
494900	Sewer Administration and General						
	101 Full-Time Employees - Regular	5,681.49	-9,761.42	90,116.00	90,116.00	99,877.42	-11 %
	102 Full-Time Employees - Overtime	0.00	0.00	574.00	574.00	574.00	%
	121 PERA Contributions -	432.39	755.75	6,759.00	6,759.00	6,003.25	11 %
	128 Social Security	338.27	590.93	5,587.00	5,587.00	4,996.07	11 %
	129 Medicare	79.10	138.20	1,307.00	1,307.00	1,168.80	11 %
	131 Health Insurance	1,827.16	4,440.24	32,643.00	32,643.00	28,202.76	14 %
	133 Life Insurance	10.14	17.80	170.00	170.00	152.20	10 %
	134 Disability Insurance	33.57	51.09	395.00	395.00	343.91	13 %
	136 MSRS	30.01	40.44	728.00	728.00	687.56	6 %
	151 Workers Compensation	0.00	0.00	125.00	125.00	125.00	%
	201 Office Supplies	0.00	98.94	25.00	25.00	-73.94	396 %
	202 Printing Supplies	0.00	0.00	400.00	400.00	400.00	%
	301 Audit/Account Services	150.00	150.00	6,750.00	6,750.00	6,600.00	2 %
	303 Banking Fees	0.00	617.30	7,200.00	7,200.00	6,582.70	9 %
	305 Engineer Fees	992.00	992.00	2,000.00	2,000.00	1,008.00	50 %
	308 Legal Fees	0.00	517.00	2,000.00	2,000.00	1,483.00	26 %
	314 Computer/Software Fees	0.00	1,000.00	3,700.00	3,700.00	2,700.00	27 %
	315 School & Conference	0.00	0.00	1,000.00	1,000.00	1,000.00	%
	319 Contracted Services	5.43	522.15	12,620.00	12,620.00	12,097.85	4 %
	321 Telephone	1,500.78	1,709.21	2,510.00	2,510.00	800.79	68 %
	322 Internet	0.00	69.47	400.00	400.00	330.53	17 %
	323 Gopher One Call Locates	8.64	38.36	1,200.00	1,200.00	1,161.64	3 %
	325 Postage	0.00	2.03	622.00	622.00	619.97	%
	331 Travel Expense	83.08	148.36	960.00	960.00	811.64	15 %
	361 General Liability Insurance	0.00	0.00	9,537.00	9,537.00	9,537.00	%
	381 Electricity	905.37	1,632.24	8,000.00	8,000.00	6,367.76	20 %
	383 Heating Gas	492.22	1,037.58	2,000.00	2,000.00	962.42	52 %
	405 Computer Maintenance	0.00	8,502.67	19,278.00	19,278.00	10,775.33	44 %
	420 Depreciation Expenses	0.00	0.00	556,747.00	556,747.00	556,747.00	%
	720 Transfer Out	0.00	0.00	56,260.00	56,260.00	56,260.00	%
	Account Total:	12,569.65	13,310.34	831,613.00	831,613.00	818,302.66	2 %
	Account Group Total:	12,569.65	13,310.34	831,613.00	831,613.00	818,302.66	2 %
495000	Transfer Out						
495000	Transfer Out						
	720 Transfer Out	0.00	0.00	17,500.00	17,500.00	17,500.00	%
	Account Total:	0.00	0.00	17,500.00	17,500.00	17,500.00	%
	Account Group Total:	0.00	0.00	17,500.00	17,500.00	17,500.00	%
	Fund Total:	73,238.59	108,148.43	2,015,613.00	2,015,613.00	1,907,464.57	5 %

603 Storm Water Enterprise Fund

Account	Object	Committed Current Month	Committed YTD	Original Appropriation	Current Appropriation	Available Appropriation	% (Commit
441100	Storm Water						
441100	Storm Water						
	101 Full-Time Employees - Regular	3,380.32	-15,693.21	64,487.00	64,487.00	80,180.21	-24 %
	102 Full-Time Employees - Overtime	785.91	349.97	2,108.00	2,108.00	1,758.03	17 %
	111 Severance Pay - Vacation/Sick	0.00	0.00	1,762.00	1,762.00	1,762.00	%
	121 PERA Contributions -	314.54	515.98	4,974.00	4,974.00	4,458.02	10 %
	128 Social Security	249.34	405.53	4,221.00	4,221.00	3,815.47	10 %
	129 Medicare	58.32	94.86	987.00	987.00	892.14	10 %
	131 Health Insurance	1,153.98	4,695.95	25,229.00	25,229.00	20,533.05	19 %
	133 Life Insurance	7.01	13.26	104.00	104.00	90.74	13 %
	134 Disability Insurance	21.03	36.26	309.00	309.00	272.74	12 %
	136 MSRS	18.98	27.39	514.00	514.00	486.61	5 %
	151 Workers Compensation	0.00	0.00	1,662.00	1,662.00	1,662.00	%
	305 Engineer Fees	0.00	335.00	10,000.00	10,000.00	9,665.00	3 %
	308 Legal Fees	0.00	33.00	1,500.00	1,500.00	1,467.00	2 %
	310 Recording/Filing Fees	0.00	0.00	500.00	500.00	500.00	%
	314 Computer/Software Fees	0.00	1,000.00	1,500.00	1,500.00	500.00	67 %
	319 Contracted Services	0.00	508.04	30,000.00	30,000.00	29,491.96	2 %
	325 Postage	0.00	76.85	500.00	500.00	423.15	15 %
	331 Travel Expense	27.70	49.46	300.00	300.00	250.54	16 %
	403 Road Maintenance	0.00	0.00	11,000.00	11,000.00	11,000.00	%
	413 Equipment Rental	0.00	0.00	20,000.00	20,000.00	20,000.00	%
	451 Dues & Subscriptions	0.00	1,880.00	2,000.00	2,000.00	120.00	94 %
	530 Improvements Other Than Bldgs	0.00	0.00	200,000.00	200,000.00	200,000.00	%
	550 Street Improvements	0.00	0.00	60,000.00	60,000.00	60,000.00	%
	720 Transfer Out	0.00	0.00	21,473.00	21,473.00	21,473.00	%
	Account Total:	6,017.13	-5,671.66	465,130.00	465,130.00	470,801.66	-1 %
	Account Group Total:	6,017.13	-5,671.66	465,130.00	465,130.00	470,801.66	-1 %
495000	Transfer Out						
495000	Transfer Out						
	720 Transfer Out	0.00	0.00	1,496.00	1,496.00	1,496.00	%
	Account Total:	0.00	0.00	1,496.00	1,496.00	1,496.00	%
	Account Group Total:	0.00	0.00	1,496.00	1,496.00	1,496.00	%
	Fund Total:	6,017.13	-5,671.66	466,626.00	466,626.00	472,297.66	-1 %

605 Street Lighting & Traffic Signalization

Account	Object	Committed Current Month	Committed YTD	Original Appropriation	Current Appropriation	Available Appropriation	% (Commit
431100	Street Department						
431160	Street Lighting						
	227 Street Lights & Signs	0.00	0.00	5,000.00	5,000.00	5,000.00	%
	381 Electricity	3,378.33	6,407.83	28,000.00	28,000.00	21,592.17	23 %
	550 Street Improvements	0.00	0.00	96,000.00	96,000.00	96,000.00	%
	Account Total:	3,378.33	6,407.83	129,000.00	129,000.00	122,592.17	5 %
	Account Group Total:	3,378.33	6,407.83	129,000.00	129,000.00	122,592.17	5 %
	Fund Total:	3,378.33	6,407.83	129,000.00	129,000.00	122,592.17	5 %
	Grand Total:	110,966.49	0.00	4,404,204.00	4,404,204.00	4,202,707.90	5 %

**Public Works
Utility Maintenance Report**

Meeting Date:	3/17/2022			
Reporting Period:	From:	2/1/2022	To:	2/28/2022

1. Water Utility

- a. Project Update
 - i. Peyton Acres
 - 1. NO Change in February
 - a. They are planning on their phase 1B in 2022
 - b. This is approx. 10 more lots
 - ii. Hwy 53 Water Tower Recoating
 - 1. Osseo Construction- Low Responsible Bidder
 - a. Contracts are in their hands
 - b. Meeting on 3/16
 - c. May/June 2022 Start anticipated
- b. Valve Replacement on Haines/Arrowhead intersection
 - i. Work to be 2022 Quoted work
 - ii. Putting information together in Feb.
 - 1. March/April Quote Date
 - 2. Summer 2022 Work
- c. Irrigation meter plan for 2022
 - i. Plan approved, Has been publicized
 - ii. Have 3 Applications to Date
- d. Watermain Breaks
 - i. None in February
- e. Water System Modeling
 - i. NCE put together RFP
 - ii. Will be presented @ UC Mtg. on 2/17
 - iii. City Council approved to Advertise on 3/7

2. Sewer

- a. Project Update
 - i. Planning 2022 Sanitary sewer cleaning
- b. Lift Stations
 - i. Planning on upgrading Radar Road lift station in 2022
 - ii. Looking into an annual Inspection on all pumps by a 3rd party

3. Stormwater

- a. Project Update
 - i. Bridge inspection on Hermantown Road Bridge near 5 Corners by LHB
 - 1. Completed and a report will be presented by David Bolf @ 2/7/22 Council mtg.
 - a. Report will state the bridge should be replaced as part of the 2023 Road Improvement plan on Hermantown Road
- b. Steamed a few culverts for stormwater to move

4. Looking Ahead to 2022

- a. Steaming Culverts for drainage
- b. 2022 Driveway Culvert replacements
- c. Irrigation Meter install
- d. Oak Ridge Trunk Sewer Spur Planning

City of Hermantown - 2022 Water Loss Report

	Duluth Billed (Gallons)	Hermantown Billed (Gallons)	Difference	Percent Difference	Water Main Breaks	Truck Fill/ Temp Meter	City Usage	Total Accounted	Total Unaccounted Gallons
Jan	15,494,072	14,395,819	1,098,253	7.1%	398,000	35,366	16,930	450,296	647,957
Feb	13,843,236	12,925,752	917,484	6.6%	-	8,100	18,806	26,906	890,578
Mar	-	-	-	#DIV/0!	-	-	-	-	-
Apr	-	-	-	#DIV/0!	-	-	-	-	-
May	-	-	-	#DIV/0!	-	-	-	-	-
Jun	-	-	-	#DIV/0!	-	-	-	-	-
Jul	-	-	-	#DIV/0!	-	-	-	-	-
Aug	-	-	-	#DIV/0!	-	-	-	-	-
Sep	-	-	-	#DIV/0!	-	-	-	-	-
Oct	-	-	-	#DIV/0!	-	-	-	-	-
Nov	-	-	-	#DIV/0!	-	-	-	-	-
Dec	-	-	-	#DIV/0!	-	-	-	-	-
	29,337,308	27,321,571	2,015,737	6.9%	398,000	43,466	35,736	477,202	1,538,535

Total Percent of Duluth Billed Unaccounted For:

5.24%



Clear Answers for Clean Water™

Western Lake Superior Sanitary District

2626 Courtland Street
 Duluth, MN 55806-1894
 (218) 722-3336

Account No.	8420
Invoice Date	02/28/2022

To: CITY OF HERMANTOWN
 5105 MAPLE GROVE ROAD
 HERMANTOWN MN 55811

Invoice	Trans Date	Due Date	PO	Desc	Quantity	Unit Rate	Amount
013122HER1	01/31/2022	02/15/2022		WASTEWATER CHARGES			48,228.00
013122HER2	01/31/2022	02/15/2022		2021 ADJUSTMENT			-596.00
022822HER1	02/28/2022	03/15/2022		WASTEWATER CHARGES			48,228.00
022822HER2	02/28/2022	03/15/2022		2021 ADJUSTMENT			-596.00

Current	1-30 Days	31-60 Days	Over 60 Days	Amount Due
47,632.00	47,632.00	0.00	0.00	95,264.00

When you provide a check as payment, you authorize us either to use information from your check to make a one-time electronic fund transfer from your account or to process the payment as a check transaction. When we use information from your check to make an electronic fund transfer, funds may be withdrawn from your account as soon as the same day we receive your payment, and you will not receive your check back from your financial institution. For inquiries please call WLSSD at 218-722-3336.

2022 FLOW AND LOADINGS

SUMMARY ONLY

City of Hermantown

Includes Bayview and Haines Road Metering Station

BOD Biochemical Oxygen Demand

SS Suspended Solids

FLOW Million Gallons per Day

MONTH	TOTAL	AVG	PEAK HR	TOTAL	AVG	TOTAL	AVG
	FLOW	FLOW	FLOW RATE	BOD	BOD	SS	SS
	MG	MGD	MGD	LBS	LBS/DAY	LBS	LBS/DAY
JANUARY	17.2962	0.5579	0.9161	30,282	977	28,887	932
FEBRUARY							
MARCH							
APRIL							
MAY							
JUNE							
JULY							
AUGUST							
SEPTEMBER							
OCTOBER							
NOVEMBER							
DECEMBER							
TOTAL or AVG	17.2962	0.5579	Allocation	30,282	977	28,887	932
2022 BUDGET		0.6500	3.8000		1,150		1,100

Questions regarding Billing

In this summary form
should be directed to:

Cathy Remington

Director of Finance

Western Lake Superior Sanitary District

2626 Courtland Street

Duluth, MN 55806

Phone: (218) 740-4788

Fax: (218) 727-7471

Email: Cathy.Remington@wlssd.com

Data Verified by:

Julie Macor, Director of Environmental Services - (218) 740-4814

Grant Brown, Director of Information Services - (218) 740 - 4777

Western Lake Superior Sanitary District

2626 Courtland Street

Duluth, MN 55806

Fax: (218) 727-7471

Email: julie.macor@wlssd.com

Email: grant.brown@wlssd.com

Initialed By: JLM

Initialed By: GPB

2022 FLOW AND LOADINGS

SUMMARY ONLY

Hermantown
(Haines Road Metering Station)

BOD Biochemical Oxygen Demand

SS Suspended Solids

FLOW Million Gallons per Day

MONTH	TOTAL	AVG	PEAK HR	TOTAL	AVG	TOTAL	AVG
	FLOW	FLOW	FLOW RATE	BOD	BOD	SS	SS
	MG	MGD	MGD	LBS	LBS/DAY	LBS	LBS/DAY
JANUARY	10.0509	0.3242	0.5802	18,197	587	16,802	542
FEBRUARY							
MARCH							
APRIL							
MAY							
JUNE							
JULY							
AUGUST							
SEPTEMBER							
OCTOBER							
NOVEMBER							
DECEMBER							
TOTAL or AVG	10.0509	0.3242		18,197	587	16,802	542

Questions regarding Billing
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should be directed to:
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Director of Finance
Western Lake Superior Sanitary District
2626 Courtland Street
Duluth, MN 55806
Phone: (218) 740-4788
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Email: julie.macor@wlssd.com
Email: grant.brown@wlssd.com

Initialed By: JLM
Initialed By: GB

2022 FLOW AND LOADINGS
SUMMARY ONLY

Bayview Interceptor
(City of Hermantown)

BOD Biochemical Oxygen Demand
SS Suspended Solids
FLOW Million Gallons per Day

MONTH	TOTAL FLOW MG	AVG FLOW MGD	PEAK HR FLOW RATE MGD	TOTAL BOD LBS	AVG BOD LBS/DAY	TOTAL SS LBS	AVG SS LBS/DAY
JANUARY	7.2453	0.2337	0.3959	12,085	390	12,085	390
FEBRUARY							
MARCH							
APRIL							
MAY							
JUNE							
JULY							
AUGUST							
SEPTEMBER							
OCTOBER							
NOVEMBER							
DECEMBER							
TOTAL or AVG	7.2453	0.2337		12,085	390	12,085	390

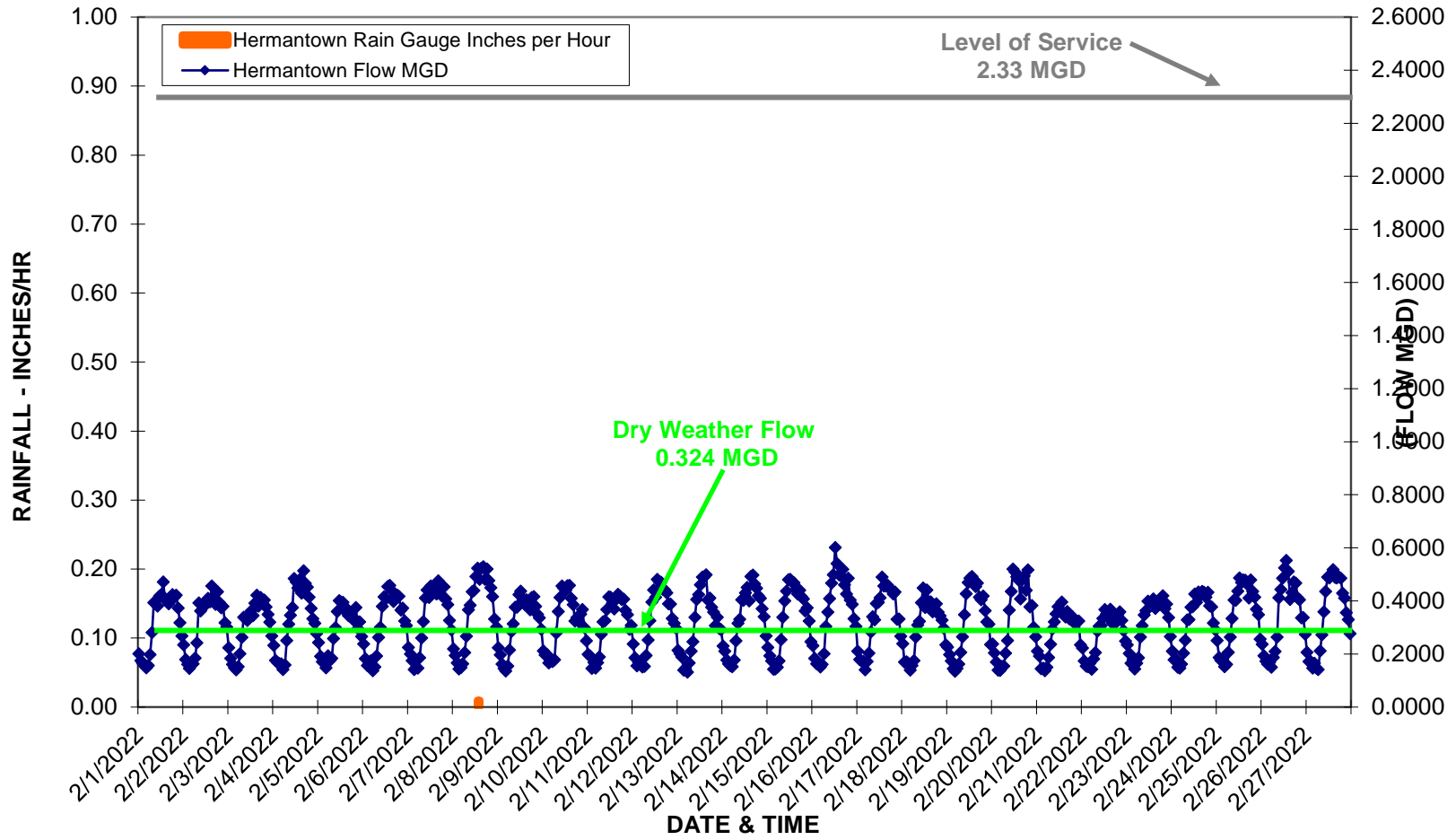
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should be directed to:
Cathy Remington
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Western Lake Superior Sanitary District
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Initialed By: JLM
Initialed By: GB

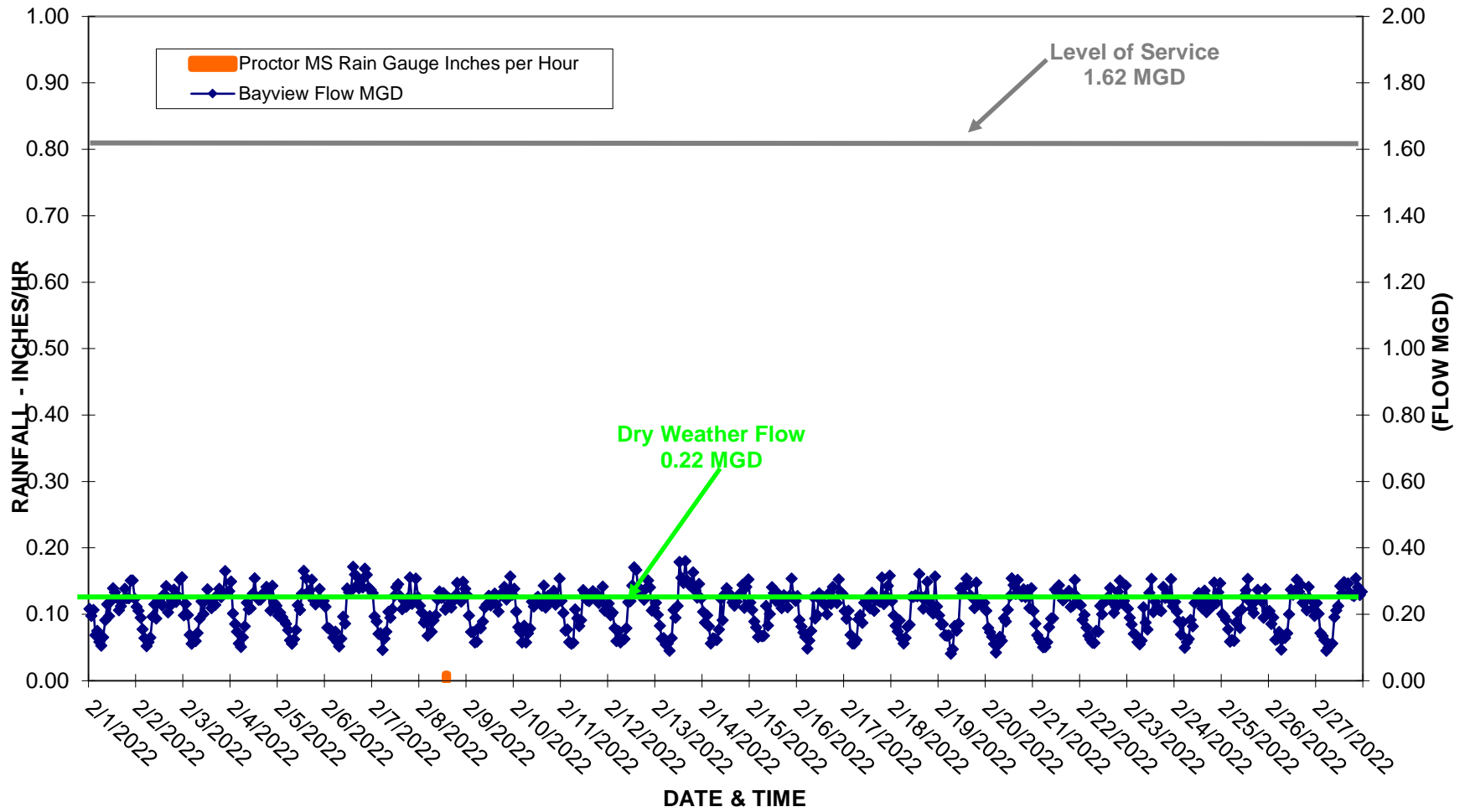
Hermantown Flow - Haines Road

February 2022



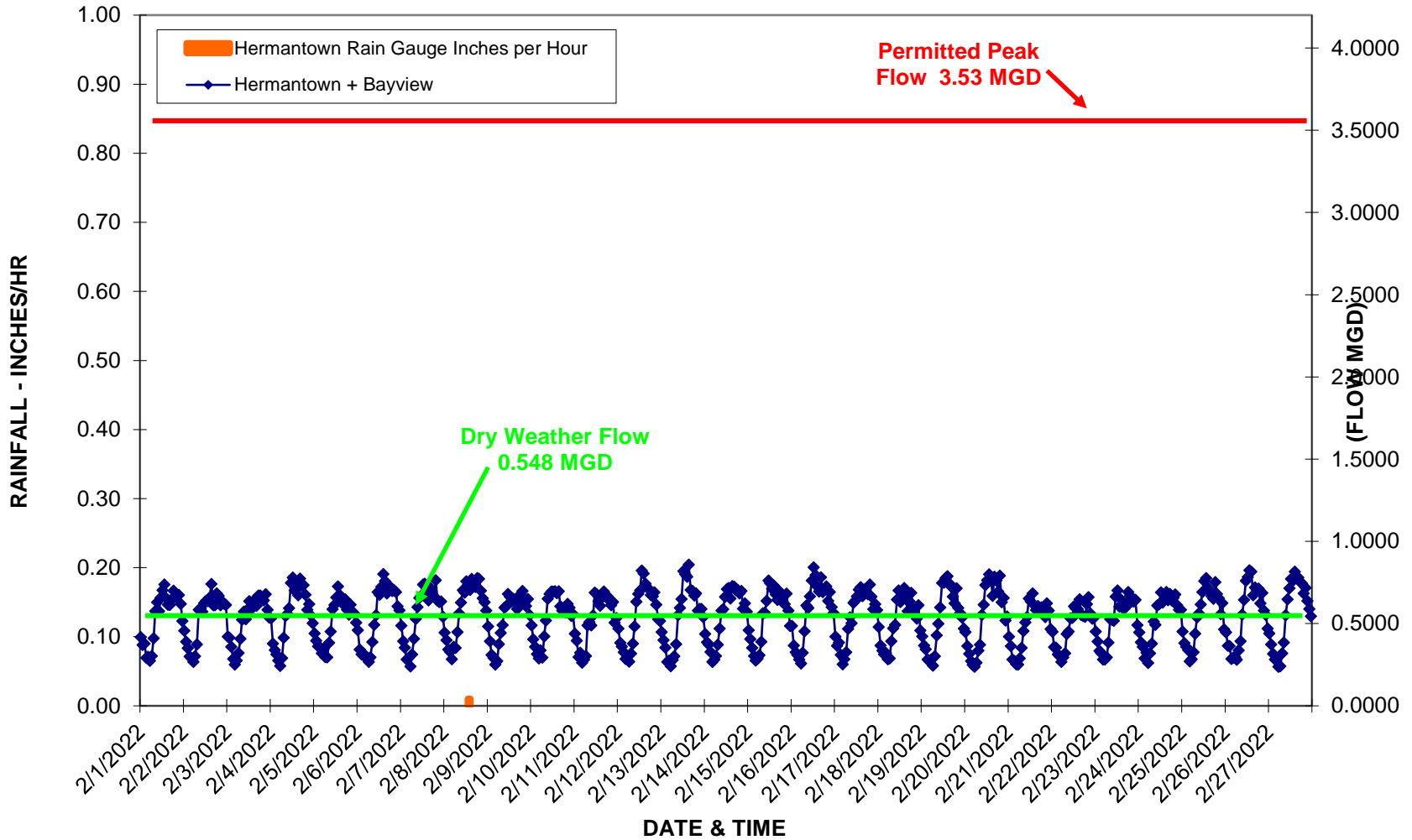
BAYVIEW METERING STATION

February 2022



Hermantown Flow + Bayview

February 2022



TO: Utility Commission Members



FROM: Lindsay Townsend, Utility
Billing Clerk

DATE: March 10, 2022

Meeting Date: 03/17/2022

SUBJECT: Utility Billing Happenings

Agenda Item: 8f

- Utility Portal Update: 1,235 accounts, 449 paperless, 345 autopay (Last month: 1222 accounts, 443 paperless, 337 autopay)
- Past Due Accounts (over \$25.00) as of March 10: 56 accts (35 accounts last month)
 - 120 days – 2 accts (Previous month: 2)
 - 90 days – 3 accts (Previous month: 1)
 - 60 days – 5 accts (Previous month: 31)
 - 30 days – 46 accts (Previous month: 1)