CITY OF MINNETRISTA

CITY COUNCIL AGENDA ITEM

Subject: **Approve SCADA Task Order #3 with AE2S for upgrading the City's Supervisory Control and Data Acquisition (SCADA) reporting system**

Prepared By: **Gary Peters, Public Works Director**

Meeting Date: **September 15, 2025**

Issue:

The City's present Supervisory Control and Data Acquisition (SCADA) software reporting system does not properly record data information and needs to be updated.

Background/History:

The City's SCADA system monitors and controls several key components throughout the City's water and sewer infrastructure. Here are a few:

- Monitors the alarm systems for the City's water towers, wells, water treatment plants, and lift stations, and notifies the Public Works of any problems 24 hours a day 7 days a week. This includes security, power outages, failure for pumps to start, and chemical feed issues to name a few.
- Monitors the sewage pumps at 20 sanitary sewer lift stations and 2 sanitary flow stations. Controls the pump on/off run times by monitoring the wet well float systems. Records runtime and daily sewage pumped total data for use in our quarterly and yearly reporting to the MET Council.
- Monitors and controls all the chemical feed systems at the water treatment plants and records the amount of chemicals used daily. This information is used in our monthly reporting to the MN Department of Health.
- Controls the start/stop time of the water treatment plant by monitoring the water elevation in the towers. The system starts the plant when the towers reach a designated "low" start point and stops the plant when the "high" set point level is reached.

At present time, the data that is collected by the SCADA system is recorded and stored to the SCADA system server as raw data and transferred to a monthly reporting format on an Excel spreadsheet. We recently found out that this reporting system is not the norm, and was a program set up by our former SCADA provider. This system has a major issue with losing data. An operator can look at the data on Monday morning and then pull up the report again on Tuesday and the report can be missing several days of data. While this has happened only a few times in the past, this issue has been happening every month over the last six months. This information is literally erased, and AE2S's SCADA programmers cannot find it in our system. Now all monthly information must be input into the reports by hand, making for a time-consuming process. What should take less than an hour of time to complete now takes up to three days. An example of the reports

with the missing information is attached. This also shows what and how much data is recorded and why hand inputting the data takes so long.

Overview:
The Public Works Director asked AE2S to supply a Task Order for a SCADA recording and reporting system upgrade. The new SCADA recording and reporting system upgrade proposed by AE2S will use the Microsoft SQL Server Reporting Services application. The project will provide functional replacements for existing reports, while making use of the existing SCADA database. There will need to be some software updates installed on our system, but this would be required even if this upgrade was not being completed. Please see the attached SCADA Task Order No. 3 for complete details on all services to be provided.

Fiscal Impact:
SCADA Task Order No. 3 is at a cost not to exceed $15,398.00. The SCADA reporting system upgrade implementation costs will be split 50/50 and funded for by both the Sewer Department 602 Maintenance Fund and the Water Department 601 Maintenance Fund. This estimate includes the cost of all items listed under Item 4 “Payments to AE2S” in the attached SCADA Task Order No. 3.

Recommended City Council Action:
Motion to approve AE2S SCADA Task Order No. 3 for the upgrade of the SCADA recording and reporting system at a cost not to exceed $15,398.00.

Task Order No. 3

In accordance with the Task Order Letter Agreement Between CLIENT and AE2S for Professional Instrumentation and Control (I&C) Services – Task Order Edition, dated September 4, 2024 ("Agreement"), CLIENT and AE2S agree as follows:

1. Background Data

a.	Effective Date of Task Order:	September 10, 2025
b.	CLIENT:	City of Minnetrista
c.	AE2S:	Advanced Engineering and Environmental Services, LLC (AE2S)
d.	Specific Project (title):	SCADA Reporting Upgrade
e.	Specific Project (description):	Provide Professional Programming Services to upgrade SCADA reports to use the Microsoft SQL Server Reporting Services application. The project will generally provide functional replacements of existing reports, while making use of the existing SCADA database.

2. Services of AE2S

A. The specific services to be provided or furnished by AE2S under this Task Order are as follows:

1. SCADA Reports Programming
   a. Professional programming services of Supervisory Control and Data Acquisition (SCADA) reporting software, including:
      1) Software procurement, backing up of existing SQL database, SQL edition upgrade installation, and setup on existing SCADA historian server.
      *AE2S will provide Microsoft SQL Server Standard 2019 Box Pack software, which includes SQL Server Reporting Services (SSRS).
      2) Configure SSRS project, set up connection to existing SCADA database.
      3) SSRS Report Templates setup for the following anticipated reports:
         (i) Lift Station Flows (19 sites)
         (ii) Flow Station Flows (two sites)
         (iii) Lift Station Runtimes
         (iv) WTP Waste Discharge (daily for both plants)
         (v) Well Pumpage (Total and Daily) (seven sites)
         (vi) Well Runtimes (Total and Daily)
         (vii) WTP Chem Usage (Poly and Fluoride for both plants)
         (viii) MDH reports (wells 4 and 5 are offline)
            (a) Well 1&2
            (b) Well 3
            (c) Well 6&7
      4) Customize reports with required formatting and existing SCADA tags.

5) Deploy reports, setting up user interface on computers, validating reports, operator training.

3. Task Order Schedule

A. The parties shall meet the following schedule:

Phase	Estimated Completion Date
SCADA Reports Programming	30 days after approval to proceed

4. Payments to AE2S

A. CLIENT shall pay AE2S for services rendered under this Task Order as follows:

Description	Hrs	Fee
SQL Server Standard Software Procurement, Backing up of Existing SQL Database, SQL Edition Upgrade Installation	6	$ 1,392.00
Configure SQL Server Reporting Services (SSRS) Project, Connect to Existing SCADA Database	8	$ 1,512.00
SSRS Report Templates Setup	16	$ 3,024.00
Customizing reports with required formatting and SCADA tags	20	$ 3,780.00
Deploying reports, setting up user interface on computers, validating reports, training	10	$ 1,890.00
Software - Microsoft SQL Server Standard 2019 Box Pack		$ 3,800.00
TOTAL	**60**	**$ 15,398.00**

Compensation items and totals based in whole or in part on Hourly Rates are estimates only. Lump sum amounts and estimated totals included in the breakdown by phases incorporate AE2S's labor, overhead, profit, reimbursable expenses (if any), and Consultants' charges, if any. AE2S may alter the distribution of compensation between individual phases (line items) to be consistent with services actually rendered. AE2S shall not exceed the total lump sum compensation amount unless approved in writing by the CLIENT.

5. Other Modifications to Agreement and Exhibits: None

6. Attachments:

- 2025 Hourly Fee and Expense Schedule

7. Other Documents Incorporated by Reference: None

Execution of this Task Order by CLIENT and AE2S shall make it subject to the terms and conditions of the Agreement, which Agreement is incorporated by this reference. AE2S is authorized to begin performance upon its receipt of a copy of this Task Order signed by CLIENT.

The Effective Date of this Task Order is September 10, 2025.

CLIENT:	AE2S:
By:	By: Brian R. Bergantine Brian R. Bergantine (Sep 5, 2025 11:46:22 CDT)
Print Name: Lisa Whalen	Print Name: Brian R. Bergantine
Title: Mayor	Title: Project Quality Director
DESIGNATED REPRESENTATIVE FOR TASK ORDER:	DESIGNATED REPRESENTATIVE FOR TASK ORDER:
Name: Gary Peters Gary Peters	Name: Anthony Pittman
Title: Public Works Director	Title: Lead I&C Specialist
Address: 7701 County Rd 110 W Minnetrista, MN 55364	Address: 6901 E Fish Lake Rd, Suite 184 Maple Grove, MN 55369
E-Mail Address: garypeters@ci.minnetrista.mn.us	E-Mail Address: Anthony.Pittman@AE2S.com
Phone: 952-241-2532	Phone: 763-463-5036

ADVANCED ENGINEERING AND ENVIRONMENTAL SERVICES, LLC
2025 HOURLY FEE AND EXPENSE SCHEDULE

Labor Rates*

Administrative 1	$70.00
Administrative 2	$85.00
Administrative 3	$99.00
Communications Specialist 1	$113.00
Communications Specialist 2	$132.00
Communications Specialist 3	$152.00
Communications Specialist 4	$183.00
Communications Specialist 5	$202.00
Construction Services 1	$135.00
Construction Services 2	$165.00
Construction Services 3	$183.00
Construction Services 4	$203.00
Construction Services 5	$224.00
Engineering Assistant 1	$91.00
Engineering Assistant 2	$107.00
Engineering Assistant 3	$135.00
Engineer 1	$146.00
Engineer 2	$175.00
Engineer 3	$205.00
Engineer 4	$237.00
Engineer 5	$254.00
Engineer 6	$269.00
Engineering Technician 1	$90.00
Engineering Technician 2	$113.00
Engineering Technician 3	$136.00
Engineering Technician 4	$152.00
Engineering Technician 5	$174.00
Financial Analyst 1	$121.00
Financial Analyst 2	$137.00
Financial Analyst 3	$165.00
Financial Analyst 4	$180.00
Financial Analyst 5	$201.00
GIS Specialist 1	$113.00
GIS Specialist 2	$137.00
GIS Specialist 3	$162.00
GIS Specialist 4	$181.00
GIS Specialist 5	$202.00
I&C Assistant 1	$108.00
I&C Assistant 2	$134.00
I&C 1	$160.00
I&C 2	$189.00
I&C 3	$213.00
I&C 4	$226.00
I&C 5	$237.00
IT 1	$140.00
IT 2	$189.00
IT 3	$232.00
Land Surveyor Assistant	$103.00
Land Surveyor 1	$124.00
Land Surveyor 2	$150.00
Land Surveyor 3	$169.00
Land Surveyor 4	$186.00
Land Surveyor 5	$205.00
Operations Specialist 1	$108.00
Operations Specialist 2	$135.00
Operations Specialist 3	$167.00
Operations Specialist 4	$191.00
Operations Specialist 5	$214.00
Project Coordinator 1	$125.00
Project Coordinator 2	$140.00
Project Coordinator 3	$156.00
Project Coordinator 4	$172.00
Project Coordinator 5	$194.00
Project Manager 1	$221.00
Project Manager 2	$242.00
Project Manager 3	$259.00
Project Manager 4	$274.00
Project Manager 5	$293.00
Project Manager 6	$307.00
Sr. Designer 1	$192.00
Sr. Designer 2	$213.00
Sr. Designer 3	$229.00
Sr. Financial Analyst 1	$227.00
Sr. Financial Analyst 2	$248.00
Sr. Financial Analyst 3	$269.00
Technical Expert 1	$348.00
Technical Expert 2	Negotiable

Reimbursable Expense Rates

Transportation	$0.75/mile
Survey Vehicle	$0.95/mile
Laser Printouts/Photocopies	$0.30/copy
Plotter Printouts	$1.00/s.f.
UAS - Photo/Video Grade	$100.00/day
UAS – Survey	$50.00/hour
Total Station – Robotic	$35.00/hour
Mapping GPS	$25.00/hour
Fast Static/RTK GPS	$50.00/hour
All-Terrain Vehicle/Boat	$100.00/day
Cellular Modem	$75.00/month
Web Hosting	$26.00/month
Legal Services Reimbursement	$291.00/hour
Outside Services	cost * 1.15
Geotechnical Services	cost * 1.30
Out of Pocket Expenses	cost * 1.15
Rental Car	cost * 1.20
Project Specific Equipment	Negotiable

* Position titles are for labor rate grade purposes only.

These rates are subject to adjustment each year on January 1.

City of Minnetrista FS Report - July 2025

Date	Flow Station 14		Flow Station 18	
	Total KGals	Daily KGals	Total KGals	Daily KGals
July 01 2025				
July 02 2025				
July 03 2025				
July 04 2025				
July 05 2025				
July 06 2025				
July 07 2025				
July 08 2025	135,701	27	192,031	52
July 09 2025	135,729	27	192,082	53
July 10 2025				
July 11 2025				
July 12 2025				
July 13 2025				
July 14 2025				
July 15 2025				
July 16 2025				
July 17 2025				
July 18 2025				
July 19 2025				
July 20 2025				
July 21 2025	136,060	28	192,688	52
July 22 2025	136,088	29	192,739	51
July 23 2025	136,117	28	192,789	51
July 24 2025	136,144	28	192,840	50
July 25 2025	136,172	28	192,889	51
July 26 2025	136,199	27	192,935	49
July 27 2025	136,228	28	192,987	47
July 28 2025	136,258	29	193,040	51
July 29 2025	136,288	30	193,094	53
July 30 2025	136,315	30	193,144	54
July 31 2025	136,342	26	193,194	51

Minimum		26		47
Maximum		30		54
Average		28		51
Total		365		665

City of Minnetrista LS Flow Report - July 2025

Date	Lift Station 1			Lift Station 2			Lift Station 3			Lift Station 4		
	Pump 1 Daily Gals	Pump 2 Daily Gals	Total Daily Gals	Pump 1 Daily Gals	Pump 2 Daily Gals	Total Daily Gals	Pump 1 Daily Gals	Pump 2 Daily Gals	Total Daily Gals	Pump 1 Daily Gals	Pump 2 Daily Gals	Total Daily Gals
July 01 2025												
July 02 2025												
July 03 2025												
July 04 2025												
July 05 2025												
July 06 2025												
July 07 2025												
July 08 2025	52,704	51,648	104,352	43,308	44,388	87,696	900,010	700,010	21,600	21,000	23,040	44,040
July 09 2025	49,410	45,192	94,602	40,902	39,456	80,358	800,010	900,011	22,500	18,900	25,344	44,244
July 10 2025												
July 11 2025												
July 12 2025												
July 13 2025												
July 14 2025												
July 15 2025												
July 16 2025												
July 17 2025												
July 18 2025												
July 19 2025												
July 20 2025												
July 21 2025	49,410	51,648	101,058	43,308	41,922	85,230	700,010	900,011	22,500	21,000	23,040	44,040
July 22 2025	55,998	45,192	101,190	43,308	41,922	85,230	900,012	900,010	23,400	16,800	23,040	39,840
July 23 2025	55,998	54,876	110,874	40,902	41,922	82,824	600,010	600,010	21,600	18,900	25,344	44,244
July 24 2025	55,998	51,648	107,646	43,308	46,854	90,162	900,012	600,013	26,100	18,900	20,736	39,636
July 25 2025	49,410	51,648	101,058	45,714	46,854	92,568	800,010	13	24,300	21,000	27,648	48,648
July 26 2025	46,116	45,192	91,308	40,902	44,388	85,290	900,011	800,009	21,600	18,900	23,040	41,940
July 27 2025	49,410	45,192	94,602	36,090	41,922	78,012	800,010	800,010	21,600	18,900	23,040	41,940
July 28 2025	55,998	54,876	110,874	40,902	44,388	85,290	700,011	600,011	23,400	21,000	27,648	48,648
July 29 2025	65,880	61,332	127,212	50,526	44,388	94,914	300,012	13	26,100	18,900	23,040	41,940
July 30 2025	62,586	58,104	120,690	60,150	59,184	119,334	800,016	700,018	35,100	21,000	27,648	48,648
July 31 2025	49,410	48,420	97,830	52,932	56,718	109,650	200,019	300,021	41,400	21,000	25,344	46,344
Minimum	46,116	45,192	91,308	36,090	39,456	78,012	200,019	13	21,600	16,800	20,736	39,636
Maximum	65,880	61,332	127,212	60,150	59,184	119,334	900,012	900,011	41,400	21,000	27,648	48,648
Average	53,718	51,151	104,869	44,789	45,716	90,504	715,396	600,012	25,477	19,708	24,458	44,166
Total	698,328	664,968	1,363,296	582,252	594,306	1,176,558	9,300,153	7,800,160	331,200	256,200	317,952	574,152

City of Minnetrista LS Flow Report - July 2025

Date	Lift Station 5			Lift Station 6			Lift Station 7			Lift Station 8		
	Pump 1 Daily Gals	Pump 2 Daily Gals	Total Daily Gals	Pump 1 Daily Gals	Pump 2 Daily Gals	Total Daily Gals	Pump 1 Daily Gals	Pump 2 Daily Gals	Total Daily Gals	Pump 1 Daily Gals	Pump 2 Daily Gals	Total Daily Gals
July 01 2025												
July 02 2025												
July 03 2025												
July 04 2025												
July 05 2025												
July 06 2025												
July 07 2025												
July 08 2025	0	2,622	2,622	39,366	36,768	76,134	10,332	10,626	20,958	12,492	13,104	25,596
July 09 2025	2,622	0	2,622	39,366	41,364	80,730	10,332	10,626	20,958	12,492	10,920	23,412
July 10 2025												
July 11 2025												
July 12 2025												
July 13 2025												
July 14 2025												
July 15 2025												
July 16 2025												
July 17 2025												
July 18 2025												
July 19 2025												
July 20 2025												
July 21 2025	0	0	0	43,740	36,768	80,508	8,856	7,590	16,446	12,492	10,920	23,412
July 22 2025	0	2,622	2,622	39,366	41,364	80,730	10,332	9,108	19,440	10,410	10,920	21,330
July 23 2025	2,622	0	2,622	39,366	41,364	80,730	10,332	9,108	19,440	12,492	13,104	25,596
July 24 2025	0	2,622	2,622	39,366	41,364	80,730	16,236	12,144	28,380	12,492	13,104	25,596
July 25 2025	0	0	0	39,366	36,768	76,134	13,284	10,626	23,910	18,738	10,920	29,658
July 26 2025	0	0	0	39,366	41,364	80,730	11,808	12,144	23,952	12,492	10,920	23,412
July 27 2025	2,622	0	2,622	39,366	41,364	80,730	13,284	9,108	22,392	12,492	13,104	25,596
July 28 2025	0	0	0	43,740	41,364	85,104	10,332	9,108	19,440	10,410	10,920	21,330
July 29 2025	0	2,622	2,622	34,992	45,960	80,952	13,284	10,626	23,910	14,574	13,104	27,678
July 30 2025	0	0	0	43,740	41,364	85,104	16,236	16,698	32,934	12,492	10,920	23,412
July 31 2025	2,622	0	2,622	39,366	36,768	76,134	13,284	12,144	25,428	10,410	10,920	21,330
Minimum	0	0	0	34,992	36,768	76,134	8,856	7,590	16,446	10,410	10,920	21,330
Maximum	2,622	2,622	2,622	43,740	45,960	85,104	16,236	16,698	32,934	18,738	13,104	29,658
Average	807	807	1,614	40,039	40,303	80,342	12,149	10,743	22,891	12,652	11,760	24,412
Total	10,488	10,488	20,976	520,506	523,944	1,044,450	157,932	139,656	297,588	164,478	152,880	317,358

City of Minnetrista LS Flow Report - July 2025

Date	Lift Station 9			Lift Station 10			Lift Station 11			Lift Station 12		
	Pump 1 Daily Gals	Pump 2 Daily Gals	Total Daily Gals	Pump 1 Daily Gals	Pump 2 Daily Gals	Total Daily Gals	Pump 1 Daily Gals	Pump 2 Daily Gals	Total Daily Gals	Pump 1 Daily Gals	Pump 2 Daily Gals	Total Daily Gals
July 01 2025												
July 02 2025												
July 03 2025												
July 04 2025												
July 05 2025												
July 06 2025												
July 07 2025												
July 08 2025	5,460	5,370	10,830	13,662	12,960	26,622	11,856	12,402	24,258	5,280	5,280	10,560
July 09 2025	6,552	6,444	12,996	13,662	11,520	25,182	11,856	12,402	24,258	4,620	4,620	9,240
July 10 2025												
July 11 2025												
July 12 2025												
July 13 2025												
July 14 2025												
July 15 2025												
July 16 2025												
July 17 2025												
July 18 2025												
July 19 2025												
July 20 2025												
July 21 2025	5,460	5,370	10,830	10,626	11,520	22,146	9,120	10,494	19,614	4,620	4,620	9,240
July 22 2025	5,460	5,370	10,830	12,144	10,080	22,224	10,032	10,494	20,526	4,620	4,620	9,240
July 23 2025	6,552	6,444	12,996	12,144	11,520	23,664	9,120	9,540	18,660	4,620	4,620	9,240
July 24 2025	6,552	6,444	12,996	12,144	12,960	25,104	10,032	9,540	19,572	4,620	4,620	9,240
July 25 2025	6,552	5,370	11,922	12,144	11,520	23,664	10,032	10,494	20,526	4,620	4,620	9,240
July 26 2025	6,552	5,370	11,922	12,144	11,520	23,664	10,032	11,448	21,480	3,960	3,960	7,920
July 27 2025	6,552	5,370	11,922	12,144	11,520	23,664	9,120	10,494	19,614	3,960	3,960	7,920
July 28 2025	6,552	6,444	12,996	12,144	12,960	25,104	10,032	10,494	20,526	4,620	4,620	9,240
July 29 2025	6,552	6,444	12,996	13,662	12,960	26,622	10,944	12,402	23,346	3,300	3,300	6,600
July 30 2025	32,760	31,146	63,906	13,662	11,520	25,182	10,032	10,494	20,526	3,960	3,960	7,920
July 31 2025	6,552	6,444	12,996	10,626	10,080	20,706	10,032	9,540	19,572	3,960	4,620	8,580
Minimum	5,460	5,370	10,830	10,626	10,080	20,706	9,120	9,540	18,660	3,300	3,300	6,600
Maximum	32,760	31,146	63,906	13,662	12,960	26,622	11,856	12,402	24,258	5,280	5,280	10,560
Average	8,316	7,848	16,164	12,378	11,742	24,119	10,172	10,788	20,960	4,366	4,417	8,783
Total	108,108	102,030	210,138	160,908	152,640	313,548	132,240	140,238	272,478	56,760	57,420	114,180

City of Minnetrista LS Flow Report - July 2025

Date	Lift Station 13			Lift Station 15			Lift Station 16			Lift Station 17		
	Pump 1 Daily Gals	Pump 2 Daily Gals	Total Daily Gals	Pump 1 Daily Gals	Pump 2 Daily Gals	Total Daily Gals	Pump 1 Daily Gals	Pump 2 Daily Gals	Total Daily Gals	Pump 1 Daily Gals	Pump 2 Daily Gals	Total Daily Gals
July 01 2025												
July 02 2025												
July 03 2025												
July 04 2025												
July 05 2025												
July 06 2025												
July 07 2025												
July 08 2025	10,170	10,224	20,394	984	606	1,590	0	1,452	1,452	1,572	894	2,466
July 09 2025	13,560	13,632	27,192	0	0	0	1,572	726	2,298	1,572	1,788	3,360
July 10 2025												
July 11 2025												
July 12 2025												
July 13 2025												
July 14 2025												
July 15 2025												
July 16 2025												
July 17 2025												
July 18 2025												
July 19 2025												
July 20 2025												
July 21 2025	10,170	13,632	23,802	0	606	606	1,572	726	2,298	786	894	1,680
July 22 2025	10,170	10,224	20,394	984	0	984	0	1,452	1,452	786	0	786
July 23 2025	13,560	10,224	23,784	984	606	1,590	1,572	726	2,298	0	0	0
July 24 2025	10,170	10,224	20,394	0	0	0	786	726	1,512	0	894	894
July 25 2025	13,560	13,632	27,192	984	606	1,590	1,572	726	2,298	786	0	786
July 26 2025	10,170	10,224	20,394	0	0	0	786	1,452	2,238	0	0	0
July 27 2025	10,170	10,224	20,394	984	0	984	0	726	726	786	894	1,680
July 28 2025	10,170	10,224	20,394	0	606	606	1,572	726	2,298	0	0	0
July 29 2025	23,730	23,856	47,586	984	606	1,590	786	726	1,512	0	0	0
July 30 2025	10,170	10,224	20,394	0	0	0	786	726	1,512	786	894	1,680
July 31 2025	10,170	10,224	20,394	984	606	1,590	786	1,452	2,238	0	0	0
Minimum	10,170	10,224	20,394	0	0	0	0	726	726	0	0	0
Maximum	23,730	23,856	47,586	984	606	1,590	1,572	1,452	2,298	1,572	1,788	3,360
Average	11,995	12,059	24,054	530	326	856	907	949	1,856	544	481	1,026
Total	155,940	156,768	312,708	6,888	4,242	11,130	11,790	12,342	24,132	7,074	6,258	13,332

City of Minnetrista LS Flow Report - July 2025

Date	Lift Station 19			Lift Station 21			Lift Station 22		
	Pump 1 Daily Gals	Pump 2 Daily Gals	Total Daily Gals	Pump 1 Daily Gals	Pump 2 Daily Gals	Total Daily Gals	Pump 1 Daily Gals	Pump 2 Daily Gals	Total Daily Gals
July 01 2025									
July 02 2025									
July 03 2025									
July 04 2025									
July 05 2025									
July 06 2025									
July 07 2025									
July 08 2025	1,056	1,548	2,604	2,616	2,712	5,328	0	0	3,306
July 09 2025	1,056	1,032	2,088	2,616	2,712	5,328	0	0	3,372
July 10 2025									
July 11 2025									
July 12 2025									
July 13 2025									
July 14 2025									
July 15 2025									
July 16 2025									
July 17 2025									
July 18 2025									
July 19 2025									
July 20 2025									
July 21 2025	528	1,032	1,560	2,616	2,034	4,650	0	0	3,306
July 22 2025	1,584	1,032	2,616	2,616	2,712	5,328	0	0	4,326
July 23 2025	1,584	1,032	2,616	3,270	2,712	5,982	0	0	3,816
July 24 2025	528	1,032	1,560	2,616	2,712	5,328	0	0	2,862
July 25 2025	1,056	1,032	2,088	2,616	3,390	6,006	0	0	3,816
July 26 2025	1,056	1,032	2,088	3,270	2,712	5,982	0	0	4,770
July 27 2025	1,056	1,032	2,088	2,616	2,712	5,328	0	0	3,306
July 28 2025	1,056	1,032	2,088	3,270	2,712	5,982	0	0	3,816
July 29 2025	1,056	2,064	3,120	3,270	3,390	6,660	0	0	4,326
July 30 2025	1,056	516	1,572	3,270	3,390	6,660	0	0	3,306
July 31 2025	528	1,032	1,560	3,270	2,712	5,982	0	0	3,816
Minimum	528	516	1,560	2,616	2,034	4,650	0	0	2,862
Maximum	1,584	2,064	3,120	3,270	3,390	6,660	0	0	4,770
Average	1,015	1,111	2,127	2,918	2,816	5,734	0	0	3,703
Total	13,200	14,448	27,648	37,932	36,612	74,544	0	0	48,144

City of Minnetrista LS Pump Runtime Report - July 2025

Date	Lift Station 1				Lift Station 2				Lift Station 3				Lift Station 4			
	Pump 1		Pump 2		Pump 1		Pump 2		Pump 1		Pump 2		Pump 1		Pump 2	
	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours
July 01 2025																
July 02 2025																
July 03 2025																
July 04 2025																
July 05 2025																
July 06 2025																
July 07 2025																
July 08 2025	581.5	1.6	531.8	1.6	11,620.6	1.8	11,236.3	1.8	1,223.6	1.2	1,228.4	1.2	2,903.1	1.0	4,417.0	1.0
July 09 2025	583.0	1.5	533.2	1.4	11,622.3	1.7	11,238.0	1.6	1,224.9	1.2	1,229.5	1.3	2,903.9	0.9	4,418.0	1.1
July 10 2025																
July 11 2025																
July 12 2025																
July 13 2025																
July 14 2025																
July 15 2025																
July 16 2025																
July 17 2025																
July 18 2025																
July 19 2025																
July 20 2025																
July 21 2025	601.1	1.5	551.0	1.6	11,642.1	1.8	11,258.1	1.7	1,239.3	1.2	1,244.3	1.3	2,914.5	1.0	4,430.1	1.0
July 22 2025	602.8	1.7	552.4	1.4	11,643.7	1.8	11,259.8	1.7	1,240.5	1.4	1,245.5	1.2	2,915.4	0.8	4,431.1	1.0
July 23 2025	604.5	1.7	554.1	1.7	11,645.6	1.7	11,261.7	1.7	1,242.0	1.2	1,247.0	1.2	2,916.3	0.9	4,432.1	1.1
July 24 2025	606.2	1.7	555.8	1.6	11,647.6	1.8	11,263.6	1.9	1,243.1	1.4	1,248.5	1.5	2,917.3	0.9	4,433.3	0.9
July 25 2025	607.7	1.5	557.3	1.6	11,649.2	1.9	11,265.4	1.9	1,244.4	1.2	1,249.6	1.5	2,918.2	1.0	4,434.2	1.2
July 26 2025	609.0	1.4	558.7	1.4	11,650.8	1.7	11,267.1	1.8	1,245.6	1.3	1,250.9	1.1	2,919.1	0.9	4,435.3	1.0
July 27 2025	610.5	1.5	560.1	1.4	11,652.5	1.5	11,268.9	1.7	1,246.9	1.2	1,252.1	1.2	2,920.1	0.9	4,436.4	1.0
July 28 2025	612.3	1.7	561.8	1.7	11,654.5	1.7	11,270.7	1.8	1,248.3	1.3	1,253.6	1.3	2,921.0	1.0	4,437.5	1.2
July 29 2025	614.3	2.0	563.7	1.9	11,656.9	2.1	11,273.0	1.8	1,250.1	1.4	1,255.7	1.5	2,922.0	0.9	4,438.7	1.0
July 30 2025	616.1	1.9	565.5	1.8	11,659.3	2.5	11,275.2	2.4	1,252.4	1.8	1,258.1	2.1	2,923.0	1.0	4,439.8	1.2
July 31 2025	617.6	1.5	567.0	1.5	11,661.2	2.2	11,277.0	2.3	1,254.2	2.2	1,259.9	2.4	2,923.8	1.0	4,440.7	1.1

Minimum		1.4		1.4		1.5		1.6		1.2		1.1		0.8		0.9
Maximum		2.0		1.9		2.5		2.4		2.2		2.4		1.0		1.2
Average		1.6		1.6		1.9		1.9		1.4		1.4		0.9		1.1
Total	#REF!	21.2	#REF!	20.6	#REF!	24.2	#REF!	24.1	#REF!	18.0	#REF!	18.8	#REF!	12.2	#REF!	13.8

City of Minnetrista LS Pump Runtime Report - July 2025

Date	Lift Station 5				Lift Station 6				Lift Station 7				Lift Station 8			
	Pump 1		Pump 2		Pump 1		Pump 2		Pump 1		Pump 2		Pump 1		Pump 2	
	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours
July 01 2025																
July 02 2025																
July 03 2025																
July 04 2025																
July 05 2025																
July 06 2025																
July 07 2025																
July 08 2025	416.2	0.0	440.3	0.1	2,386.4	0.9	2,263.1	0.8	6,199.5	0.7	3,077.2	0.7	337.4	0.6	317.4	0.6
July 09 2025	416.2	0.1	440.3	0.0	2,387.3	0.9	2,264.0	0.9	6,200.1	0.7	3,077.7	0.7	338.1	0.6	317.9	0.5
July 10 2025																
July 11 2025																
July 12 2025																
July 13 2025																
July 14 2025																
July 15 2025																
July 16 2025																
July 17 2025																
July 18 2025																
July 19 2025																
July 20 2025																
July 21 2025	416.5	0.0	440.7	0.0	2,397.5	1.0	2,273.8	0.8	6,207.5	0.6	3,084.2	0.5	344.9	0.6	324.4	0.5
July 22 2025	416.6	0.0	440.7	0.1	2,398.5	0.9	2,274.6	0.9	6,208.2	0.7	3,084.7	0.6	345.4	0.5	324.9	0.5
July 23 2025	416.6	0.1	440.8	0.0	2,399.4	0.9	2,275.4	0.9	6,209.2	0.7	3,085.5	0.6	346.0	0.6	325.5	0.6
July 24 2025	416.6	0.0	440.8	0.1	2,400.3	0.9	2,276.4	0.9	6,210.1	1.1	3,086.3	0.8	346.6	0.6	326.1	0.6
July 25 2025	416.6	0.0	440.8	0.0	2,401.1	0.9	2,277.1	0.8	6,211.0	0.9	3,087.0	0.7	347.5	0.9	326.6	0.5
July 26 2025	416.7	0.0	440.8	0.0	2,402.1	0.9	2,278.1	0.9	6,211.9	0.8	3,087.7	0.8	348.1	0.6	327.1	0.5
July 27 2025	416.7	0.1	440.8	0.0	2,403.1	0.9	2,278.9	0.9	6,212.6	0.9	3,088.3	0.6	348.7	0.6	327.7	0.6
July 28 2025	416.7	0.0	440.9	0.0	2,403.9	1.0	2,279.9	0.9	6,213.5	0.7	3,089.0	0.6	349.2	0.5	328.2	0.5
July 29 2025	416.7	0.0	440.9	0.1	2,404.8	0.8	2,280.9	1.0	6,214.6	0.9	3,090.0	0.7	349.9	0.7	328.8	0.6
July 30 2025	416.8	0.0	440.9	0.0	2,405.7	1.0	2,281.8	0.9	6,215.5	1.1	3,090.8	1.1	350.5	0.6	329.3	0.5
July 31 2025	416.8	0.1	441.0	0.0	2,406.6	0.9	2,282.6	0.8	6,216.3	0.9	3,091.5	0.8	351.0	0.5	329.8	0.5
Minimum		0.0		0.0		0.8		0.8		0.6		0.5		0.5		0.5
Maximum		0.1		0.1		1.0		1.0		1.1		1.1		0.9		0.6
Average		0.0		0.0		0.9		0.9		0.8		0.7		0.6		0.5
Total	#REF!	0.4	#REF!	0.4	#REF!	11.9	#REF!	11.4	#REF!	10.7	#REF!	9.2	#REF!	7.9	#REF!	7.0

City of Minnetrista LS Pump Runtime Report - July 2025

Date	Lift Station 9				Lift Station 10				Lift Station 11				Lift Station 12			
	Pump 1		Pump 2		Pump 1		Pump 2		Pump 1		Pump 2		Pump 1		Pump 2	
	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours
July 01 2025																
July 02 2025																
July 03 2025																
July 04 2025																
July 05 2025																
July 06 2025																
July 07 2025																
July 08 2025	848.0	0.5	787.7	0.5	652.0	0.9	663.7	0.9	5,590.1	1.3	5,011.4	1.3	866.4	0.8	857.2	0.8
July 09 2025	848.6	0.6	788.2	0.6	652.9	0.9	664.6	0.8	5,591.3	1.3	5,012.7	1.3	867.3	0.7	858.1	0.7
July 10 2025																
July 11 2025																
July 12 2025																
July 13 2025																
July 14 2025																
July 15 2025																
July 16 2025																
July 17 2025																
July 18 2025																
July 19 2025																
July 20 2025																
July 21 2025	855.2	0.5	794.4	0.5	662.7	0.7	674.4	0.8	5,604.6	1.0	5,026.0	1.1	875.9	0.7	866.7	0.7
July 22 2025	855.8	0.5	795.0	0.5	663.5	0.8	675.2	0.7	5,605.5	1.1	5,027.0	1.1	876.6	0.7	867.4	0.7
July 23 2025	856.4	0.6	795.5	0.6	664.3	0.8	676.0	0.8	5,606.6	1.0	5,028.1	1.0	877.3	0.7	868.0	0.7
July 24 2025	857.0	0.6	796.1	0.6	665.1	0.8	676.8	0.9	5,607.8	1.1	5,029.2	1.0	878.0	0.7	868.7	0.7
July 25 2025	857.6	0.6	796.6	0.5	666.0	0.8	677.6	0.8	5,608.9	1.1	5,030.3	1.1	878.6	0.7	869.4	0.7
July 26 2025	858.2	0.6	797.1	0.5	666.8	0.8	678.4	0.8	5,610.0	1.1	5,031.4	1.2	879.2	0.6	870.0	0.6
July 27 2025	858.8	0.6	797.7	0.5	667.5	0.8	679.3	0.8	5,611.0	1.0	5,032.5	1.1	879.9	0.6	870.6	0.6
July 28 2025	861.0	0.6	799.9	0.6	668.3	0.8	680.0	0.9	5,612.0	1.1	5,033.6	1.1	880.4	0.7	871.2	0.7
July 29 2025	861.8	0.6	800.6	0.6	669.3	0.9	681.0	0.9	5,613.4	1.2	5,035.0	1.3	881.0	0.5	871.8	0.5
July 30 2025	862.4	3.0	801.2	2.9	670.1	0.9	681.8	0.8	5,614.4	1.1	5,036.0	1.1	881.6	0.6	872.4	0.6
July 31 2025	862.9	0.6	801.7	0.6	670.8	0.7	682.5	0.7	5,615.4	1.1	5,037.0	1.0	882.2	0.6	873.0	0.7
Minimum		0.5		0.5		0.7		0.7		1.0		1.0		0.5		0.5
Maximum		3.0		2.9		0.9		0.9		1.3		1.3		0.8		0.8
Average		0.8		0.7		0.8		0.8		1.1		1.1		0.7		0.7
Total	#REF!	9.9	#REF!	9.5	#REF!	10.6	#REF!	10.6	#REF!	14.5	#REF!	14.7	#REF!	8.6	#REF!	8.7

City of Minnetrista LS Pump Runtime Report - July 2025

Date	Lift Station 13				Lift Station 15				Lift Station 16				Lift Station 17			
	Pump 1		Pump 2		Pump 1		Pump 2		Pump 1		Pump 2		Pump 1		Pump 2	
	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours
July 01 2025																
July 02 2025																
July 03 2025																
July 04 2025																
July 05 2025																
July 06 2025																
July 07 2025																
July 08 2025	3,947.1	0.3	4,031.4	0.3	477.4	0.1	489.1	0.1	449.7	0.0	387.8	0.2	353.3	0.2	276.3	0.1
July 09 2025	3,947.6	0.4	4,031.7	0.4	477.5	0.0	489.2	0.0	449.8	0.2	387.9	0.1	353.4	0.2	276.4	0.2
July 10 2025																
July 11 2025																
July 12 2025																
July 13 2025																
July 14 2025																
July 15 2025																
July 16 2025																
July 17 2025																
July 18 2025																
July 19 2025																
July 20 2025																
July 21 2025	3,951.7	0.3	4,035.9	0.4	478.1	0.0	489.8	0.1	451.1	0.2	389.3	0.1	354.2	0.1	277.0	0.1
July 22 2025	3,952.1	0.3	4,036.2	0.3	478.2	0.1	489.9	0.0	451.3	0.0	389.4	0.2	354.2	0.1	277.0	0.0
July 23 2025	3,952.4	0.4	4,036.5	0.3	478.2	0.1	489.9	0.1	451.4	0.2	389.5	0.1	354.2	0.0	277.0	0.0
July 24 2025	3,952.8	0.3	4,036.8	0.3	478.3	0.0	490.0	0.0	451.6	0.1	389.5	0.1	354.3	0.0	277.0	0.1
July 25 2025	3,953.1	0.4	4,037.2	0.4	478.3	0.1	490.0	0.1	451.7	0.2	389.8	0.1	354.3	0.1	277.0	0.0
July 26 2025	3,953.4	0.3	4,037.5	0.3	478.4	0.0	490.0	0.0	451.7	0.1	389.9	0.2	354.3	0.0	277.1	0.0
July 27 2025	3,953.7	0.3	4,037.8	0.3	478.4	0.1	490.1	0.0	451.9	0.0	390.0	0.1	354.4	0.1	277.1	0.1
July 28 2025	3,954.1	0.3	4,038.2	0.3	478.5	0.0	490.2	0.1	452.0	0.2	390.0	0.1	354.4	0.0	277.1	0.0
July 29 2025	3,954.4	0.7	4,038.5	0.7	478.5	0.1	490.2	0.1	452.1	0.1	390.1	0.1	354.5	0.0	277.3	0.0
July 30 2025	3,954.7	0.3	4,038.8	0.3	478.6	0.0	490.3	0.0	452.2	0.1	390.4	0.1	354.5	0.1	277.3	0.1
July 31 2025	3,955.0	0.3	4,039.1	0.3	478.6	0.1	490.3	0.1	452.4	0.1	390.5	0.2	354.5	0.0	277.4	0.0

Minimum		0.3		0.3		0.0		0.0		0.0		0.1		0.0		0.0
Maximum		0.7		0.7		0.1		0.1		0.2		0.2		0.2		0.2
Average		0.4		0.4		0.1		0.1		0.1		0.1	#REF!	0.1	#REF!	0.1
Total	#REF!	4.6	#REF!	4.6	#REF!	0.7	#REF!	0.7	#REF!	1.5	#REF!	1.7	0.8	0.9	0.7	0.7

City of Minnetrista LS Pump Runtime Report - July 2025

Date	Lift Station 19				Lift Station 21				Lift Station 22			
	Pump 1		Pump 2		Pump 1		Pump 2		Pump 1		Pump 2	
	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours
July 01 2025												
July 02 2025												
July 03 2025												
July 04 2025												
July 05 2025												
July 06 2025												
July 07 2025												
July 08 2025	648.9	0.2	610.0	0.3	7,228.2	0.4	6,894.9	0.4	501.5	0.3	547.3	0.4
July 09 2025	649.1	0.2	610.2	0.2	7,228.6	0.4	6,895.3	0.4	501.9	0.4	547.7	0.3
July 10 2025												
July 11 2025												
July 12 2025												
July 13 2025												
July 14 2025												
July 15 2025												
July 16 2025												
July 17 2025												
July 18 2025												
July 19 2025												
July 20 2025												
July 21 2025	651.2	0.1	612.3	0.2	7,233.5	0.4	6,899.9	0.3	506.2	0.3	552.2	0.4
July 22 2025	651.5	0.3	612.5	0.2	7,233.9	0.4	6,900.3	0.4	506.6	0.5	552.6	0.4
July 23 2025	651.6	0.3	612.7	0.2	7,234.4	0.5	6,900.7	0.4	506.9	0.4	552.9	0.4
July 24 2025	651.8	0.1	612.8	0.2	7,234.8	0.4	6,901.2	0.4	507.3	0.3	553.3	0.3
July 25 2025	652.0	0.2	613.0	0.2	7,235.3	0.4	6,901.6	0.5	507.8	0.4	553.8	0.4
July 26 2025	652.2	0.2	613.3	0.2	7,235.7	0.5	6,902.0	0.4	508.1	0.5	554.2	0.5
July 27 2025	652.4	0.2	613.5	0.2	7,236.2	0.4	6,902.4	0.4	508.5	0.3	554.6	0.4
July 28 2025	652.6	0.2	613.8	0.2	7,236.6	0.5	6,902.9	0.4	508.9	0.4	555.0	0.4
July 29 2025	652.8	0.2	614.0	0.4	7,237.2	0.5	6,903.4	0.5	509.3	0.5	555.4	0.4
July 30 2025	652.9	0.2	614.0	0.1	7,237.7	0.5	6,903.8	0.5	509.7	0.3	555.8	0.4
July 31 2025	653.1	0.1	614.3	0.2	7,238.0	0.5	6,904.2	0.4	510.1	0.4	556.2	0.4
Minimum		0.1		0.1		0.4		0.3		0.3		0.3
Maximum		0.3		0.4		0.5		0.5		0.5		0.5
Average		0.2		0.2		0.4		0.4		0.4		0.4
Total	#REF!	2.5	#REF!	2.8	#REF!	5.8	#REF!	5.4	#REF!	5.0	#REF!	5.1

City of Minnetrista WTP Waste Discharge Report - July 2025

Date	North Plant Daily Discharge	South Plant Daily Discharge
July 01 2025		
July 02 2025		
July 03 2025		
July 04 2025		
July 05 2025		
July 06 2025		
July 07 2025		
July 08 2025	6	0
July 09 2025	0	0
July 10 2025		
July 11 2025		
July 12 2025		
July 13 2025		
July 14 2025		
July 15 2025		
July 16 2025		
July 17 2025		
July 18 2025		
July 19 2025		
July 20 2025		
July 21 2025	0	0
July 22 2025	0	35
July 23 2025	0	0
July 24 2025	5	34
July 25 2025	0	0
July 26 2025	0	48
July 27 2025	6	0
July 28 2025	0	23
July 29 2025	0	24
July 30 2025	6	8
July 31 2025	0	39

Minimum	0.0	0.0
Maximum	6.0	48.0
Average	1.8	16.2
Total	23.0	211.0

North WTP Meter Reading	South WTP Meter Reading	North	South
8922	13355		
8928	13355	6	0
8928	13355	0	0
8928	13355	0	0
8928	13355	0	0
8928	13355	0	0
8934	13355	6	0
8934	13355	0	0
8939	13355	5	0
8939	13355	0	0
8939	13355	0	0
8939	13355	0	0
8939	13355	0	0
8951	13416	12	61
8951	13451	0	35
8957	13451	6	0
8957	13487	0	36
8957	13487	0	0
8957	13487	0	0
8957	13487	0	0
8962	13521	5	34
8962	13556	0	35
8962	13556	0	0
8968	13556	6	0
8968	13590	0	34
8968	13590	0	0
8968	13590	0	0
8974	13662	6	72
8974	13686	0	24
8974	13686	0	0
8979	13709	5	23
57,000	354,000	57	354

City of Minnetrista Well Pumpage - October 2025

Date	Well 1		Well 2		Well 3		Well 4		Well 5		Well 6		Well 7	
	Total KGals	Daily KGals	Total KGals	Daily KGals	Total KGals	Daily KGals	Total KGals	Daily KGals	Total KGals	Daily KGals	Total KGals	Daily KGals	Total KGals	Daily KGals
July 01 2025														
July 02 2025														
July 03 2025														
July 04 2025														
July 05 2025														
July 06 2025														
July 07 2025														
July 08 2025	560,605	144	208,622	0	197,418	0	538,851	0	30,784	0	617,025	388	562,778	350
July 09 2025	560,620	0	208,622	0	197,418	0	538,851	0	30,784	0	617,455	430	563,165	387
July 10 2025														
July 11 2025														
July 12 2025														
July 13 2025														
July 14 2025														
July 15 2025														
July 16 2025														
July 17 2025														
July 18 2025														
July 19 2025														
July 20 2025														
July 21 2025	560,808	0	208,622	0	197,522	0	538,851	0	30,784	0	622,034	397	567,280	356
July 22 2025	560,822	0	208,622	0	197,522	0	538,851	0	30,784	0	622,355	321	567,569	289
July 23 2025	560,835	0	208,622	0	197,522	0	538,851	0	30,784	0	622,674	319	567,858	289
July 24 2025	560,843	0	208,622	0	197,522	0	538,851	0	30,784	0	622,954	280	568,112	254
July 25 2025	560,857	0	208,622	0	197,522	0	538,851	0	30,784	0	623,287	333	568,414	302
July 26 2025	560,872	0	208,622	0	197,522	0	538,851	0	30,784	0	623,734	446	568,816	402
July 27 2025	560,892	0	208,622	0	197,522	0	538,851	0	30,784	0	624,125	392	569,168	351
July 28 2025	560,896	0	208,660	0	197,522	0	538,851	0	30,784	0	624,493	367	569,460	293
July 29 2025	560,896	0	208,779	0	197,522	0	538,851	0	30,784	0	624,796	303	569,720	259
July 30 2025	560,896	0	208,892	0	197,522	0	538,851	0	30,784	0	625,166	370	570,053	334
July 31 2025	560,904	0	208,955	0	197,522	0	538,851	0	30,784	0	625,478	313	570,332	279
Minimum		0		0		0		0		0		280		254
Maximum		144		0		0		0		0		446		402
Average		11		0		0		0		0		358		319
Total		144		0		0		0		0		4,659		4,145

City of Minnetrista Well Pump Run Times - July 2025

Date	Well 1		Well 2		Well 3		Well 4		Well 5		Well 6		Well 7	
	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours	Total Hours	Daily Hours
July 01 2025														
July 02 2025														
July 03 2025														
July 04 2025														
July 05 2025														
July 06 2025														
July 07 2025														
July 08 2025	15,428.3	4.5	2,768.5	0.0	0.0	0.0	6,990.3	0.0	14,951.2	0.0	23,424.5	14.6	21,467.1	14.5
July 09 2025	15,433.0	0.0	2,768.5	0.0	0.0	0.0	6,990.3	0.0	14,951.2	0.0	23,440.8	16.3	21,483.4	16.3
July 10 2025														
July 11 2025														
July 12 2025														
July 13 2025														
July 14 2025														
July 15 2025														
July 16 2025														
July 17 2025														
July 18 2025														
July 19 2025														
July 20 2025														
July 21 2025	15,491.0	0.0	2,768.5	0.0	0.0	0.0	6,990.3	0.0	14,951.2	0.0	23,615.1	15.1	21,657.3	15.1
July 22 2025	15,495.3	0.0	2,768.5	0.0	0.0	0.0	6,990.3	0.0	14,951.2	0.0	23,627.2	12.1	21,669.5	12.2
July 23 2025	15,499.2	0.0	2,768.5	0.0	0.0	0.0	6,990.3	0.0	14,951.2	0.0	23,639.2	12.0	21,681.4	11.9
July 24 2025	15,501.7	0.0	2,768.5	0.0	0.0	0.0	6,990.3	0.0	14,951.2	0.0	23,649.6	10.4	21,691.8	10.4
July 25 2025	15,506.0	0.0	2,768.5	0.0	0.0	0.0	6,990.3	0.0	14,951.2	0.0	23,662.0	12.4	21,704.2	12.4
July 26 2025	15,510.7	0.0	2,768.5	0.0	0.0	0.0	6,990.3	0.0	14,951.2	0.0	23,679.0	16.9	21,721.1	16.8
July 27 2025	15,516.7	0.0	2,768.5	0.0	0.0	0.0	6,990.3	0.0	14,951.2	0.0	23,693.9	14.9	21,735.9	14.9
July 28 2025	15,518.0	0.0	2,768.5	0.0	0.0	0.0	6,990.3	0.0	14,951.2	0.0	23,707.7	13.9	21,750.7	14.8
July 29 2025	15,518.0	0.0	2,768.5	0.0	0.0	0.0	6,990.3	0.0	14,951.2	0.0	23,719.0	11.3	21,762.0	11.3
July 30 2025	15,518.0	0.0	2,768.5	0.0	0.0	0.0	6,990.3	0.0	14,951.2	0.0	23,733.0	13.9	21,775.9	13.8
July 31 2025	15,520.5	0.0	2,768.5	0.0	0.0	0.0	6,990.3	0.0	14,951.2	0.0	23,744.6	11.7	21,787.3	11.5
Minimum		0.0		0.0		0.0		0.0		0.0		10.4		10.4
Maximum		4.5		0.0		0.0		0.0		0.0		16.9		16.8
Average		0.3		0.0		0.0		0.0		0.0		13.5		13.5
Total		4.5		0.0		0.0		0.0		0.0		175.5		175.9

City of Minnetrista WTP Chemical Usage - July 2025

Date	North Plant Daily Usage		South Plant Daily Usage	
	Poly	Fluoride	Poly	Fluoride
July 01 2025				
July 02 2025				
July 03 2025				
July 04 2025				
July 05 2025				
July 06 2025				
July 07 2025				
July 08 2025	16.0	28.0	35.0	61.0
July 09 2025	27.0	28.0	25.0	61.0
July 10 2025				
July 11 2025				
July 12 2025				
July 13 2025				
July 14 2025				
July 15 2025				
July 16 2025				
July 17 2025				
July 18 2025				
July 19 2025				
July 20 2025				
July 21 2025	25.0	17.0	24.0	73.0
July 22 2025	40.0	37.0	34.0	45.0
July 23 2025	56.0	31.0	44.0	42.0
July 24 2025	33.0	27.0	22.0	38.0
July 25 2025	27.0	23.0	39.0	61.0
July 26 2025	62.0	41.0	39.0	57.0
July 27 2025	38.0	19.0	29.0	56.0
July 28 2025	15.0	22.0	27.0	38.0
July 29 2025	33.0	28.0	31.0	36.0
July 30 2025	20.0	17.0	24.0	66.0
July 31 2025	22.0	46.0	22.0	42.0

Minimum	15.0	17.0	22.0	36.0
Maximum	62.0	46.0	44.0	73.0
Average	31.8	28.0	30.4	52.0
Total	414.0	364.0	395.0	676.0

City of Minnetrista Water Report - Wells #1 and #2A
(July 2025)

MDH	Drinking Water Protection Section PO Box 64975 St. Paul, MN 565164-0975	**Fluoridation & Phosphate Monthly Report** **(Multi-Well)**	PWS ID #: 1270036	**July 2025**
City of Minnetrista		7701 County Road 110 West		Minnetrista
55387	Contact Phone #: 952-446-1660		Water Source: Well #1 & Well #2A	
Fluoride Chemical Used: Hydrofluorosilicic Acid	Fluoride Dilution: 10%	Raw Water Fluoride Concentration on: Well #1: mg/l Well #2A: mg/l		
Phosphate Chemical Used: Carus 1100				

Operator: Mike Pawelk (*Mike Pawelk*) | Public Works Director: Gary Peters (*Gary Peters*)

Date	Well #1 Reading [kGal]	Well #2A Reading [kGal]	Pumpage [1,000 gal]	Phosphate Used per Day (lbs)	Fluoride Used per Day (lbs)	Tested Fluoride Analysis - Well #1		Tested Fluoride Analysis - Well #2A	
						Fluoride Concentration* (mg/l)	Sampling Point on Distribution System	Fluoride Concentration* (mg/l)	Sampling Point on Distribution System
Day	1A	1B	2	3A	3B	4A	4B	5A	5B
1				**0.0**	**0.0**				
2				**0.0**	**0.0**				
3				**0.0**	**0.0**				
4				**0.0**	**0.0**				
5				**0.0**	**0.0**				
6				**0.0**	**0.0**				
7				**0.0**	**0.0**				
8	**560,605**	**208,622**	**144**	**16.0**	**28.0**				
9	**560,620**	**208,622**	**0**	**27.0**	**28.0**				
10				**0.0**	**0.0**				
11				**0.0**	**0.0**				
12				**0.0**	**0.0**				
13				**0.0**	**0.0**				
14				**0.0**	**0.0**				
15				**0.0**	**0.0**				
16				**0.0**	**0.0**				
17				**0.0**	**0.0**				
18				**0.0**	**0.0**				
19				**0.0**	**0.0**				
20				**0.0**	**0.0**				
21	**560,808**	**208,622**	**0**	**25.0**	**17.0**				
22	**560,822**	**208,622**	**0**	**40.0**	**37.0**				
23	**560,835**	**208,622**	**0**	**56.0**	**31.0**				
24	**560,843**	**208,622**	**0**	**33.0**	**27.0**				
25	**560,857**	**208,622**	**0**	**27.0**	**23.0**				
26	**560,872**	**208,622**	**0**	**62.0**	**41.0**				
27	**560,892**	**208,622**	**0**	**38.0**	**19.0**				
28	**560,896**	**208,660**	**0**	**15.0**	**22.0**				
29	**560,896**	**208,779**	**0**	**33.0**	**28.0**				
30	**560,896**	**208,892**	**0**	**20.0**	**17.0**				
31	**560,904**	**208,955**	**0**	**22.0**	**46.0**				
						*** Testing includes weekend**			
	#VALUE!	#VALUE!	144.0						
	#VALUE!								

Highest Pumpage **144**
Highest Pumpage Day **D20**

Lowest Pumpage **0**

Well #1 & Well #2A supply the North Water Treatment Plant. This plant serves the north area of Minnetrista.

City of Minnetrista Water Report - Well #3 (July 2025)

MDH	Drinking Water Protection Section PO Box 64975 St. Paul, MN 565164-0975	**Fluoridation & Phosphate Monthly Report (Single Well)**	PWS ID #: 1270036	**July 2025**

City of Minnetrista	7701 County Road 110 West	Minnetrista
55387	Contact Phone #: 952-446-1660	Water Source: Well #3
Fluoride Chemical Used: Hydrofluorosilicic Acid	Fluoride Dilution: 10%	Raw Water Fluoride Concentration Well #3: mg/l
Phosphate Chemical Used: Carus 1100		Date of test:
Operator: Mike Pawelk (*Mike Pawelk*)		Public Works Director: Gary Peters (*Gary Peters*)

Date	Well #3 Meter Reading [kGal]	Pumpage [1,000 gal]	Phosphate Used per Day (gal)	Fluoride Used per Day (gal)	Tested Fluoride Analysis	
					Fluoride Concentration* (mg/l)	Sampling Point on Distribution System
Day	1	2	3A	3B	4	5
1						
2						
3						
4						
5						
6						
7						
8	**197,418**	**0.0**				
9	**197,418**	**0.0**				
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21	**197,522**	**0.0**				
22	**197,522**	**0.0**				
23	**197,522**	**0.0**				
24	**197,522**	**0.0**				
25	**197,522**	**0.0**				
26	**197,522**	**0.0**				
27	**197,522**	**0.0**				
28	**197,522**	**0.0**				
29	**197,522**	**0.0**				
30	**197,522**	**0.0**				
31	**197,522**	**0.0**				
					*** Testing includes weekend**	
	0	0.0				

Highest Pumpage	**0**	
Highest Pumpage Day	**n/a**	**D20**
Lowest Pumpage	**0**	

Well #3 is used as a seasonal backup. Testing results in blue are also being supplied by the South Water Treatment Plant

City of Minnetrista Water Report - Well #4 (July 2025)

MDH	Drinking Water Protection Section PO Box 64975 St. Paul, MN 565164-0975	**Fluoridation & Phosphate Monthly Report (Single Well)**	PWS ID #: 1270036	**July 2025**

City of Minnetrista	7701 County Road 110 West	Minnetrista
55387	Contact Phone #: 952-446-1660	Water Source: Well #4
Fluoride Chemical Used: Hydrofluorosilicic Acid	Fluoride Dilution: 10%	Raw Water Fluoride Concentration Well #4: -- mg/l
Phosphate Chemical Used: Carus 1100		Date of test:
Operator: Mike Pawelk (*Mike Pawelk*)		Public Works Director: Gary Peters (*Gary Peters*)

Date	Well 4 Meter Reading [kGal]	Pumpage [1,000 gal]	Phosphate Used per Day (gal)	Fluoride Used per Day (gal)	Tested Fluoride Analysis	
					Fluoride Concentration* (mg/l)	Sampling Point on Distribution System
Day	1	2	3A	3B	4	5
1			Off-Line	Off-Line	Off-Line	Off-Line
2			Off-Line	Off-Line	Off-Line	Off-Line
3			Off-Line	Off-Line	Off-Line	Off-Line
4			Off-Line	Off-Line	Off-Line	Off-Line
5			Off-Line	Off-Line	Off-Line	Off-Line
6			Off-Line	Off-Line	Off-Line	Off-Line
7			Off-Line	Off-Line	Off-Line	Off-Line
8	538,851	0.0	Off-Line	Off-Line	Off-Line	Off-Line
9	538,851	0.0	Off-Line	Off-Line	Off-Line	Off-Line
10			Off-Line	Off-Line	Off-Line	Off-Line
11			Off-Line	Off-Line	Off-Line	Off-Line
12			Off-Line	Off-Line	Off-Line	Off-Line
13			Off-Line	Off-Line	Off-Line	Off-Line
14			Off-Line	Off-Line	Off-Line	Off-Line
15			Off-Line	Off-Line	Off-Line	Off-Line
16			Off-Line	Off-Line	Off-Line	Off-Line
17			Off-Line	Off-Line	Off-Line	Off-Line
18			Off-Line	Off-Line	Off-Line	Off-Line
19			Off-Line	Off-Line	Off-Line	Off-Line
20			Off-Line	Off-Line	Off-Line	Off-Line
21	538,851	0.0	Off-Line	Off-Line	Off-Line	Off-Line
22	538,851	0.0	Off-Line	Off-Line	Off-Line	Off-Line
23	538,851	0.0	Off-Line	Off-Line	Off-Line	Off-Line
24	538,851	0.0	Off-Line	Off-Line	Off-Line	Off-Line
25	538,851	0.0	Off-Line	Off-Line	Off-Line	Off-Line
26	538,851	0.0	Off-Line	Off-Line	Off-Line	Off-Line
27	538,851	0.0	Off-Line	Off-Line	Off-Line	Off-Line
28	538,851	0.0	Off-Line	Off-Line	Off-Line	Off-Line
29	538,851	0.0	Off-Line	Off-Line	Off-Line	Off-Line
30	538,851	0.0	Off-Line	Off-Line	Off-Line	Off-Line
31	538,851	0.0	Off-Line	Off-Line	Off-Line	Off-Line
					* Testing includes weekend	
	#VALUE!	0.0				

Highest Pumpage	**0**	
Highest Pumpage Day	**n/a**	**D20**
Lowest Pumpage	**0**	

Well #4 is off-line and only used as an emgency back-up.

City of Minnetrista Water Report - Well #5 (July 2025)

MDH	Drinking Water Protection Section PO Box 64975 St. Paul, MN 565164-0975	**Fluoridation & Phosphate Monthly Report (Single Well)**	PWS ID #: 1270036	**July 2025**

City of Minnetrista	7701 County Road 110 West	Minnetrista
55387	Contact Phone #: 952-446-1660	Water Source: Well #5
Fluoride Chemical Used: Hydrofluorosilicic Acid	Fluoride Dilution: 10%	Raw Water Fluoride Concentration Well #5: -- mg/l
Phosphate Chemical Used: Carus 1100		Date of test:
Operator: Mike Pawelk (*Mike Pawelk*)		Public Works Director: Gary Peters (*Gary Peters*)

Date	Well 5 Meter Reading [kGal]	Pumpage [1,000 gal]	Phosphate Used per Day (gal)	Fluoride Used per Day (gal)	Tested Fluoride Analysis	
					Fluoride Concentration* (mg/l)	Sampling Point on Distribution System
Day	1	2	3A	3B	4	5
1			**Off-Line**	**Off-Line**		
2			**Off-Line**	**Off-Line**		
3			**Off-Line**	**Off-Line**		
4			**Off-Line**	**Off-Line**		
5			**Off-Line**	**Off-Line**		
6			**Off-Line**	**Off-Line**		
7			**Off-Line**	**Off-Line**		
8	**30,784**	**0.0**	**Off-Line**	**Off-Line**		
9	**30,784**	**0.0**	**Off-Line**	**Off-Line**		
10			**Off-Line**	**Off-Line**		
11			**Off-Line**	**Off-Line**		
12			**Off-Line**	**Off-Line**		
13			**Off-Line**	**Off-Line**		
14			**Off-Line**	**Off-Line**		
15			**Off-Line**	**Off-Line**		
16			**Off-Line**	**Off-Line**		
17			**Off-Line**	**Off-Line**		
18			**Off-Line**	**Off-Line**		
19			**Off-Line**	**Off-Line**		
20			**Off-Line**	**Off-Line**		
21	**30,784**	**0.0**	**Off-Line**	**Off-Line**		
22	**30,784**	**0.0**	**Off-Line**	**Off-Line**		
23	**30,784**	**0.0**	**Off-Line**	**Off-Line**		
24	**30,784**	**0.0**	**Off-Line**	**Off-Line**		
25	**30,784**	**0.0**	**Off-Line**	**Off-Line**		
26	**30,784**	**0.0**	**Off-Line**	**Off-Line**		
27	**30,784**	**0.0**	**Off-Line**	**Off-Line**		
28	**30,784**	**0.0**	**Off-Line**	**Off-Line**		
29	**30,784**	**0.0**	**Off-Line**	**Off-Line**		
30	**30,784**	**0.0**	**Off-Line**	**Off-Line**		
31	**30,784**	**0.0**	**Off-Line**	**Off-Line**		
					*** Testing includes weekend**	
	0	0.0				

Highest Pumpage	**0**	
Highest Pumpage Day	**n/a**	**D20**
Lowest Pumpage	**0**	

Testing results in yellow were done in the Well #5 area. This area is now being supplied by the South Water Treatment Plant

City of Minnetrista Water Report - Wells #6 and #7
(July 2025)

MINNESOTA MDH DEPARTMENT OF HEALTH	Drinking Water Protection Section PO Box 64975 St. Paul, MN 565164-0975	**Fluoridation & Phosphate Monthly Report** **(Multi-Well)**	PWS ID #: 1270036	**July 2025**
City of Minnetrista		7701 County Road 110 West		Minnetrista
55387	Contact Phone #: 952-446-1660		Water Source: Well #6 & Well #7	
Fluoride Chemical Used: Hydrofluorosilicic Acid	Fluoride Dilution: 10%	Raw Water Fluoride Concentration on:		
Phosphate Chemical Used: Carus 1100		Well #6: mg/l	Well #7: mg/l	

Operator: Mike Pawelk (*Mike Pawelk*)

Public Works Director: Gary Peters (*Gary Peters*)

Date	Well #6 Reading [kGal]	Well #7 Reading [kGal]	Pumpage [1,000 gal]	Phosphate Used per Day (lbs)	Fluoride Used per Day (lbs)	Tested Fluoride Analysis - Well #6		Tested Fluoride Analysis - Well #7	
						Fluoride Concentration* (mg/l)	Sampling Point on Distribution System	Fluoride Concentration* (mg/l)	Sampling Point on Distribution System
Day	1A	1B	2	3A	3B	4A	4B	5A	5B
1				**0.0**	**0.0**				
2				**0.0**	**0.0**				
3				**0.0**	**0.0**				
4				**0.0**	**0.0**				
5				**0.0**	**0.0**				
6				**0.0**	**0.0**				
7				**0.0**	**0.0**				
8	**617,025**	**562,778**	**738**	**16.0**	**28.0**				
9	**617,455**	**563,165**	**817**	**27.0**	**28.0**				
10				**0.0**	**0.0**				
11				**0.0**	**0.0**				
12				**0.0**	**0.0**				
13				**0.0**	**0.0**				
14				**0.0**	**0.0**				
15				**0.0**	**0.0**				
16				**0.0**	**0.0**				
17				**0.0**	**0.0**				
18				**0.0**	**0.0**				
19				**0.0**	**0.0**				
20				**0.0**	**0.0**				
21	**622,034**	**567,280**	**753**	**25.0**	**17.0**				
22	**622,355**	**567,569**	**610**	**40.0**	**37.0**				
23	**622,674**	**567,858**	**608**	**56.0**	**31.0**				
24	**622,954**	**568,112**	**534**	**33.0**	**27.0**				
25	**623,287**	**568,414**	**635**	**27.0**	**23.0**				
26	**623,734**	**568,816**	**848**	**62.0**	**41.0**				
27	**624,125**	**569,168**	**743**	**38.0**	**19.0**				
28	**624,493**	**569,460**	**660**	**15.0**	**22.0**				
29	**624,796**	**569,720**	**562**	**33.0**	**28.0**				
30	**625,166**	**570,053**	**704**	**20.0**	**17.0**				
31	**625,478**	**570,332**	**592**	**22.0**	**46.0**				
						*** Testing includes weekend**			
	#VALUE!	#VALUE!	8804.0						
	#VALUE!								

Highest Pumpage **848**

lighest Pumpage Day **D38**

Well #6 & Well #7 supply the South Water Treatment Plant. This plant serves the south & central area of Minnetrista.