

CITY OF ST. JOSEPH WATER FILTRATION PLANT
OPERATIONAL REPORT
AUGUST 2022



Mission Statement

WSJOB- The City and Authority working together to provide safe drinking water of the highest quality to all of our customers at the lowest possible price.

WATER PLANT/DISTRIBUTION REPORT- AUGUST 2022

Water demand in August was down by 19,887,291 gallons representing a 9.7% decrease from 2021. This year 186,219,233 gallons were delivered which compares to 206,106,524 gallons in 2021. The August 2022 pumpage ranks 23rd in the thirty-year tabulation dating back to 1993.

GENERAL ACTIVITIES

Lead & Copper Rule Compliance Monitoring

Plant staff collected 21 samples in the City distribution system from homes meeting the Tier 1 definition under the Michigan Lead and Copper Rule. Tier 1 includes water service lines constructed in whole or in part of lead. Homeowner were asked to collect five consecutive water samples taken from a kitchen sink after a six hour stagnation period. In the Authority service area 32 samples were collected.

SCIP Phase II Engineering

FTCH design engineers met with plant staff to discuss plans for the project.

Corrosion Control Treatment

Staff is working on a request for information from Cornwell Engineering and exploring the possible purchase of pipe loop arrays from other water supplies who no longer need them. A small section of cast iron water main from the Willa Lester construction project was harvested and sent to Cornwell for physical analysis. The focus will be on the internal and external corrosion layers.

Clarifier #3 Scraper Drive Counter Balance

In late August plant staff reported that the steel counter balance weight had dropped out of the retaining housing due to advanced corrosion in the frame. Staff was able to retrieve the weight intact, repair the housing and place the unit back in service on September 9th. Clarifier #3 is programmed for replacement as part of the SCIP Phase II project.



Steel Counterweights-Clarifier #3

Lead Service Line Replacement-Ongoing

Staff continues to meet weekly with the lead service line replacement team to discuss lead service line identification, replacement, water sampling and planning.

Staffing

The maintenance foreman position was posted internally and advertised externally again on September 1st. The closing date is September 30th.

**ST. JOSEPH WATER FILTRATION PLANT
1701 LIONS PARK DRIVE
SAINT JOSEPH, MI. 49085**

**By: Greg Alimenti
St. Joseph Water Plant
700 Broad St.
Saint Joseph, MI. 49085-1276
(269) 983-1240**

AUGUST 2022

DISTRIBUTION:	
Total Gallons	186,219,233
Average Day	6,007,072
Maximum Day	7,489,934
Minimum Day	4,983,568

TREATMENT:	
Total Low Service	192,453,829
Wash Water Gals.	1,719,740
Wash Water %	0.88%
Plant Use Gals.	39,020
Plant Use %	0.02%

FILTRATION:		
Ave. Filter Run	142.2	hours
Ave. Filter Rate	2.00	g/sqft/min
Filter Eff. Index	137.1	
Ave. Loss of Head	6.1	feet
Plant Sewer Usage		
	\$ 5,874.28	6/1-9/1/2022

LABORATORY REPORT		
Average of	Raw	Tap
Chlorides mg/L	16.9	18.6
Fluoride mg/L	0.15	0.67
Alkalinity mg/L	114	101
Hardness mg/L	142	140
pH	8.3	7.5
Calcium mg/L	38	38
Magnesium mg/L	11	11
Turbidity NTU	2.86	0.04
Temperature °F	68	
Total Coliform		0.0
Chlorine Residual		
		mg/L Free
Mixing Basin		0.88
Applied		0.78
Tap		1.61
Distribution		1.21

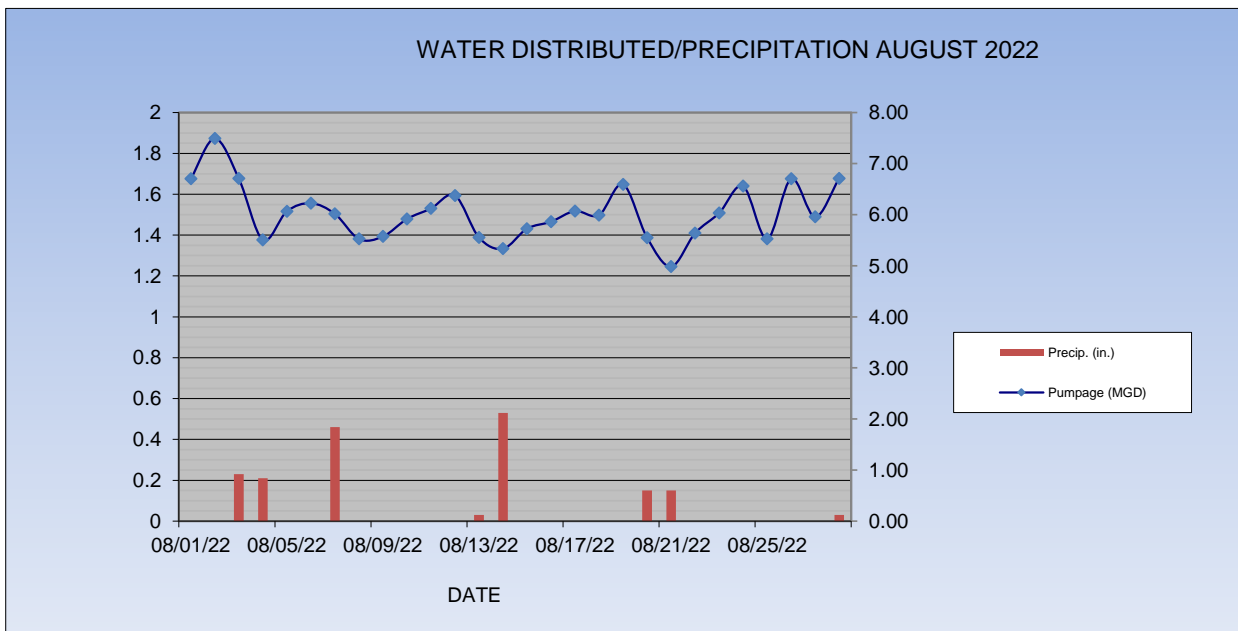
TREATMENT CHEMICAL SUMMARY:					
	Applied mg/L	Total Lbs.	Cost	Inventory lbs.	Days Supply
		CHEMICAL			
Alum (Al ⁺³)	22.10	35,450	\$11,562.16	35,649	15
Chlorine (Cl ₂)	2.94	4,731	\$10,104.60	4,935	32
Fluoride (F ₂)	0.54	865	\$1,516.36	36,803	242

		REMARKS:			
Total Cost all Chemicals	\$23,183.12				
Chemical Cost per Mil. Gallon Treated	\$120.46				
Chemical Cost per Mil. Gallon Delivered	\$121.47				
PLANT UTILITIES SUMMARY					
Electric:					
Total KWH	277,148	***includes measure of melted snow			
Total Power Cost	\$ 19,400.35	visit the City of Saint Joseph's Home page at www.sjcity.com			
Power Cost per Million Gallon Treated	\$ 100.81	e-mail comments to either: operator@sjcity.com or galimenti@sjcity.com			
Power Cost per Million Gallon Delivered	\$ 18,969.91	WEATHER CONDITIONS AT THE PLANT		Air Temp. °F	
Gallons Pumped per KWH	418	SJWW Weather Computer		Avg.	72.8
		Rain Guage, Inches	1.91	Max.	91.4
		days it rained***	9	Min.	58
Natural Gas:		Wind Speed, Avg	6.4	Lake Temp. °F	
Metered Cubic Feet	12	Wind Speed, Max	53	Avg.	68.4
Natural Gas Cost	\$45.56	Prevailing Wind Dir.	North	Max	80.6
Emergency Power Diesel Fuel Inv., Gals.	North 600	Lake Level (USACE)	579.82	Min	53.3
	South 1800				

**ST JOSEPH WATER PLANT PUMPAGE-WATER DELIVERED/RAINFALL
AUGUST 2022**

DATE	PUMPAGE (gallons)	PUMPAGE (MGD)	RAINFALL (in)	Day to Day Comparison 2022/2021	
				2022	2021
08/01/22	6,704,800	6.70	0	6,704,800	6,653,707
08/02/22	7,489,934	7.49	0	7,489,934	7,809,761
08/03/22	6,707,159	6.71	0.23	6,707,159	7,932,266
08/04/22	5,505,904	5.51	0.21	5,505,904	8,148,791
08/05/22	6,065,609	6.07	0	6,065,609	7,997,790
08/06/22	6,225,066	6.23	0	6,225,066	7,504,525
08/07/22	6,016,277	6.02	0.46	6,016,277	5,873,933
08/08/22	5,524,405	5.52	0	5,524,405	6,312,944
08/09/22	5,573,022	5.57	0	5,573,022	6,937,698
08/10/22	5,915,783	5.92	0	5,915,783	5,425,442
08/11/22	6,120,973	6.12	0	6,120,973	6,060,823
08/12/22	6,374,796	6.37	0	6,374,796	4,898,034
08/13/22	5,552,801	5.55	0.03	5,552,801	6,003,744
08/14/22	5,333,857	5.33	0.53	5,333,857	6,110,752
08/15/22	5,726,460	5.73	0	5,726,460	6,300,712
08/16/22	5,861,916	5.86	0	5,861,916	6,721,665
08/17/22	6,072,495	6.07	0	6,072,495	6,620,740
08/18/22	5,992,458	5.99	0	5,992,458	7,034,498
08/19/22	6,592,937	6.59	0	6,592,937	6,895,755
08/20/22	5,550,459	5.55	0.15	5,550,459	7,201,668
08/21/22	4,983,568	4.98	0.15	4,983,568	7,191,039
08/22/22	5,638,953	5.64	0	5,638,953	7,147,100
08/23/22	6,031,219	6.03	0	6,031,219	7,516,646
08/24/22	6,558,722	6.56	0	6,558,722	7,080,758
08/25/22	5,525,266	5.53	0	5,525,266	5,406,983
08/26/22	6,701,704	6.70	0	6,701,704	5,262,782
08/27/22	5,957,307	5.96	0	5,957,307	6,282,698
08/28/22	6,707,171	6.71	0.03	6,707,171	6,580,327
08/29/22	6,067,535	6.07	0.12	6,067,535	6,432,678
08/30/22	5,352,721	5.35	0	5,352,721	7,103,239
08/31/22	5,787,956	5.79	0	5,787,956	5,657,026
TOTAL	186,219,233	186.22	1.91	186,219,233	206,106,524

Average Day	6,007,072
Maximum Day	7,489,934
Minimum Day	4,983,568



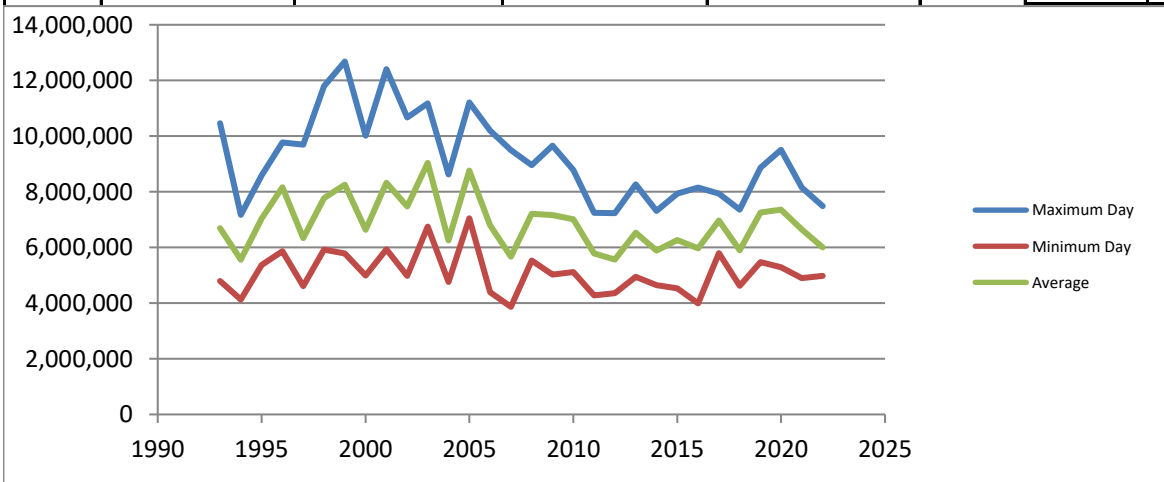
ST. JOSEPH WATER PLANT PUMPAGE-WATER DELIVERED

AUGUST 2022

Year	Average	Maximum Day	Minimum Day	Monthly Total
1993	6,691,755	10,468,500	4,790,400	207,444,400
1994	5,561,642	7,170,500	4,130,300	172,410,900
1995	7,034,273	8,593,600	5,372,900	218,062,470
1996	8,158,177	9,772,200	5,867,700	252,903,500
1997	6,330,674	9,696,100	4,605,450	196,250,900
1998	7,773,318	11,795,100	5,917,750	240,972,850
1999	8,255,698	12,680,200	5,783,800	255,926,650
2000	6,629,348	10,009,700	4,989,500	205,509,800
2001	8,322,605	12,404,900	5,933,100	258,000,750
2002	7,478,446	10,672,950	4,983,000	231,831,820
2003	9,037,933	11,170,890	6,752,480	280,175,910
2004	6,250,413	8,623,040	4,755,000	193,762,800
2005	8,764,049	11,214,800	7,047,450	271,685,510
2006	6,798,473	10,203,500	4,397,500	210,752,660
2007	5,666,680	9,494,940	3,866,010	175,667,080
2008	7,203,586	8,951,090	5,526,180	223,311,180
2009	7,166,000	9,659,870	5,023,750	222,153,750
2010	7,009,806	8,789,707	5,116,885	217,304,014
2011	5,782,834	7,245,993	4,280,792	179,267,863
2012	5,566,518	7,236,370	4,361,455	172,562,086
2013	6,536,095	8,261,486	4,940,058	202,618,956
2014	5,890,040	7,310,516	4,649,473	182,591,246
2015	6,271,953	7,928,690	4,530,628	194,430,530
2016	5,968,595	8,147,438	3,991,942	185,026,439
2017	6,963,118	7,930,131	5,798,582	215,856,670
2018	5,895,113	7,362,280	4,623,724	182,748,504
2019	7,251,557	8,867,283	5,477,915	224,798,276
2020	7,353,808	9,503,351	5,289,191	227,968,057
2021	6,648,598	8,148,791	4,898,034	206,106,524
2022	6,007,072	7,489,934	4,983,568	186,219,233

Monthly Rank-August 1993-2022

Ranking	Year	Monthly Total
1	2003	280,175,910
2	2005	271,685,510
3	2001	258,000,750
4	1999	255,926,650
5	1996	252,903,500
6	1998	240,972,850
7	2002	231,831,820
8	2020	227,968,057
9	2019	224,798,276
10	2008	223,311,180
11	2009	222,153,750
12	1995	218,062,470
13	2010	217,304,014
14	2017	215,856,670
15	2006	210,752,660
16	1993	207,444,400
17	2021	206,106,524
18	2000	205,509,800
19	2013	202,618,956
20	1997	196,250,900
21	2015	194,430,530
22	2004	193,762,800
23	2022	186,219,233
24	2016	185,026,439
25	2018	182,748,504
26	2014	182,591,246
27	2011	179,267,863
28	2007	175,667,080
29	2012	172,562,086
30	1994	172,410,900



August

2022

SOUTHWEST MICHIGAN REGIONAL SANITARY SEWER & WATER AUTHORITY

WSSN 3726

CLEVELAND BOOSTER STATION

HILLTOP BOOSTER STATION

DATE	FLOW MGD	FEED GAL	CHL LBS/DAY	CHLORINE APPLIED mg/l	Cl ₂ PRE mg/l	Cl ₂ POST mg/l	Cl ₂ MON mg/l	FLOW MGD	FEED GAL	CHL LBS/DAY	CHLORINE APPLIED mg/l	Cl ₂ PRE mg/l	Cl ₂ POST mg/l	Cl ₂ MON mg/l	BOOSTER MGD
1-Aug	2.805	259	36.72	1.57	1.58	2.20	2.43	1.491	34	4.82	0.39	1.55	1.93	1.90	4.296
2-Aug	3.630	349	49.48	1.63	1.80	2.05	2.00	1.902	48	6.81	0.43	1.86	2.20	2.02	5.532
3-Aug	3.047	293	41.54	1.63	1.62	2.16	1.87	1.816	46	6.52	0.43	1.56	1.99	1.84	4.863
4-Aug	3.432	347	49.20	1.72	1.46	2.20	1.93	0.397	11	1.56	0.47	1.51	1.67	1.74	3.829
5-Aug	3.122	321	45.51	1.75	1.42	2.13	2.02	0.830	22	3.12	0.45	1.68	1.67	1.65	3.952
6-Aug	2.852	300	42.53	1.79				1.484	38	5.39	0.44				4.335
7-Aug	2.852	300	42.53	1.79				1.484	38	5.39	0.44				4.335
8-Aug	2.852	300	42.53	1.79	1.40	1.86	1.83	1.484	38	5.39	0.44	1.54	2.07	1.94	4.335
9-Aug	2.700	257	36.44	1.62	1.54	1.80	1.87	0.591	0	0.00	0.00	1.53	1.64	1.57	3.291
10-Aug	2.633	253	35.87	1.63				1.445	32	4.54	0.38				4.078
11-Aug	2.633	253	35.87	1.63	1.64	2.07	1.90	1.445	32	4.54	0.38	1.68	2.13	2.04	4.078
12-Aug	3.184	311	44.09	1.66	1.56	1.95	1.87	1.740	9	1.28	0.09	1.51	2.13	2.07	4.924
13-Aug	2.544	247	35.02	1.65				1.484	48	6.81	0.55				4.028
14-Aug	2.544	247	35.02	1.65				1.484	48	6.81	0.55				4.028
15-Aug	2.544	247	35.02	1.65	1.63	1.83	1.75	1.484	48	6.81	0.55	1.62	1.80	1.93	4.028
16-Aug	2.351	269	38.14	1.95	1.47	1.85	1.83	1.686	53	7.51	0.53	1.45	1.73	1.74	4.037
17-Aug	2.148	243	34.45	1.92	1.90	2.09	1.99	1.466	42	5.95	0.49	1.77	1.91	1.84	3.614
18-Aug	2.163	234	33.18	1.84	1.55	1.57	1.50	1.387	12	1.70	0.15	1.36	1.39	1.36	3.549
19-Aug	3.099	326	46.22	1.79	1.65	1.69	1.65	1.676	5	0.71	0.05	1.65	1.66	1.62	4.775
20-Aug	2.454	258	36.58	1.79				1.523	77	10.92	0.86				3.977
21-Aug	2.454	258	36.58	1.79				1.523	77	10.92	0.86				3.977
22-Aug	2.454	258	36.58	1.79	1.53	1.85	1.75	1.523	77	10.92	0.86	1.55	2.17	2.04	3.977
23-Aug	2.457	284	40.27	1.96	1.65	1.60	1.41	1.882	69	9.78	0.62	1.83	1.63	1.42	4.339
24-Aug	2.753	308	43.67	1.90	1.58	2.05	1.79	1.629	74	10.49	0.77	1.68	2.00	1.67	4.382
25-Aug	2.672	326	46.22	2.07	1.63	1.81	1.69	1.580	70	9.92	0.75	1.52	1.87	1.66	4.252
26-Aug	2.876	350	49.62	2.07	1.67	2.20	2.27	1.759	76	10.78	0.73	1.65	1.91	1.80	4.635
27-Aug	2.869	368	52.18	2.18				1.867	82	11.63	0.75				4.735
28-Aug	2.869	368	52.18	2.18				1.867	82	11.63	0.75				4.735
29-Aug	2.869	368	52.18	2.18	1.59	1.85	1.75	1.867	82	11.63	0.75	1.60	1.49	1.26	4.735
30-Aug	1.485	192	27.22	2.20	1.42	1.79	1.62	0.791	31	4.40	0.67	1.47	1.97	1.71	2.276
31-Aug	2.392	316	44.80	2.25	1.54	1.85	1.67	1.590	61	8.65	0.65	1.61	2.20	1.86	3.982
TOTAL	83.737	9,010	1,277.4					46.172	1,462	207.28					129.909
AVE DAY	2.701		41.2	1.84	1.6	1.9	1.8	1.4894		6.7	0.52	1.60	1.87	1.76	4.191
MAX	3.630		52.2	2.25	1.9	2.2	2.4	1.9020		11.6	0.86	1.86	2.2	2.07	5.532
MIN	1.485		27.2	1.57	1.4	1.6	1.4	0.3967		0.0	0.00	1.36	1.39	1.26	2.276
MONTHLY TOTALS:		Cleveland Total MG		SJCT EAST				Hilltop Total MG		Cleveland Pump Station:		83.737			
Average Day		4.191 Chl Add		81.345		Average Day		0.215		43.991		Hilltop Pump Station:		46.172	
Max Day (Est)		5.816 No Chl Add		2.392		Max Day (Est)		0.284		2.181		TOTAL AUTHORITY (Trted.)			
Total Authority Flow:		129.911				Month Total		6.669							

DISTRIBUTION REPORT

For the Month of June 2022

Activity	Number/Description
Water Main Breaks	2
MISS DIGS	479 Including lead service pothole inspections in the City of St. Joseph (320)
Delinquent Shut Off	0
Hydrants (Repaired/Replaced)	Painted 100-150 hydrants in City (charged to 592 City Water Fund), Flushed deadends
Valve Turning	200 Wachs Water. Royalton Twp.
Valves	1 Columbia & S. State-install operating nut
Taps (1")	4 1192 Spur (RCT) Failing well.
	482 Wittenburg Path (RCT), New build in preexisting development
	1199 Dobbie (RCT), Failing well.
	4579 Luther Path (RCT), New build in preexisting development
Cross Connection Control	
Residential Cross Connection Control	
Service Retirement	0
Service Replacement (Lead)	3 712 and 716 Jones, 2511 Riverwood Terrace
Service Repair	0
Repair/Replace of Curb box/Shut-Off Valves	3 Various; froze up, bent curb box, rod broken, adjust.
Meter pit/service replacement	0
Water Quality complaints	1 Water quality/pressure, color
Hydrant flushing to maintain water quality	6 Dead ends
Service line complaints (customer side)	8 leaks, high water use, misreported stormwater, snowbirds, low pressure
Private Service break	4 Plastic service line breaks (LCT)
Staff Education/Training	30 Cross Connection Control, CDL Training
Overtime-Total	41.8
Turn Off	Defective meter
Turn On	Sensors bad
Finals	Downsize meter
Meter Repair/Replacement	TRT missing
Meter Repair	Audit Meter
Per detail	Verify Read
Meter leaking	Move Mxu Box
Stopped Meter	New Installation
Faulty Register	
Frozen Meter	Replaced/various reasons (e.g.,downsize, defective)
Move Meter Inside	Rockwell Replacement
Hard to read	Mxu Replaced
Replace/Adding Sprinkler Meter	Sprinkler meter removed/line capped
Damage to Meter/TRT/wire damaged	Removals/demo
New Plumbing	Curb box location
New siding	Broken Remote
Lead services	Noisy Meter
	Upgrade 5/8" to 3/4" (upgrade to 1")

CITY OF ST. JOSEPH WATER MAIN BREAK REPORT - July 2022

Date	Location	Main Size	Gallons Lost	Break Type	Valves Turned	City Twp	Labor	Remarks
7/11/2022	2534 Riverbend Dr.	6	38,287	Circumferential crack	2	SJTE	12	Sand, 5 ft cover.
7/11/2022	2150 Niles Ave.	6	106,300	Hole	2	City	23	Clay, 7 ft. cover. Hole at bottom of pipe
TOTALS			144,587				35	

DISTRIBUTION REPORT

For the Month of August 2022

Activity	Number/Description
Water Main Breaks	3
MISS DIGS	544
Delinquent Shut Off	0
Hydrants (Repaired/Replaced)	1 Repaired hydrant damaged by car Maiden Lane from Highway
Valve Turning	
Valves	0
Taps (1")	4570 Rachel Lane (RCT) Failed well
	4885 Lauren Lane (RCT) New tap new construction in preexisting development
	2549 River Bend (SJCT) New home
	724/726 Violet (RCT), New build in old subdivision
	5482 Walleye (RCT), Failed well.
	581 East Glenlord Rd (RCT), Failed well
Cross Connection Control	
Residential Cross Connection Control	
Service Retirement	0
Service Replacement (Lead)	2 1121 Napier, 706 Cummings,
Service Repair	0
Repair/Replace of Curb box/Shut-Off Valves	12 Various; froze up, bent curb box, rod broken, adjust.
Meter pit/service replacement	0
Water Quality complaints	8 Water quality/pressure, color
Hydrant flushing to maintain water quality	75 Fire Department
Service line complaints (customer side)	6 leaks, high water use, misreported stormwater, snowbirds, low pressure
Private Service break	5 Plastic service line breaks (LCT)
Staff Education/Training	121 Cross Connection Control, CDL Training
Overtime-Total	65.5
Turn Off	Defective meter
Turn On	Sensors bad
Finals	Downsize meter
Meter Repair/Replacement	TRT missing
Meter Repair	Audit Meter
Per detail	Verify Read
Meter leaking	Move Mxu Box
Stopped Meter	New Installation
Faulty Register	
Frozen Meter	Replaced/various reasons (e.g.,downsize, defective)
Move Meter Inside	Rockwell Replacement
Hard to read	Mxu Replaced
Replace/Adding Sprinkler Meter	Sprinkler meter removed/line capped
Damage to Meter/TRT/wire damaged	Removals/demo
New Plumbing	Curb box location
New siding	Broken Remote
Lead services	Noisy Meter
	Upgrade 5/8" to 3/4" (upgrade to 1")

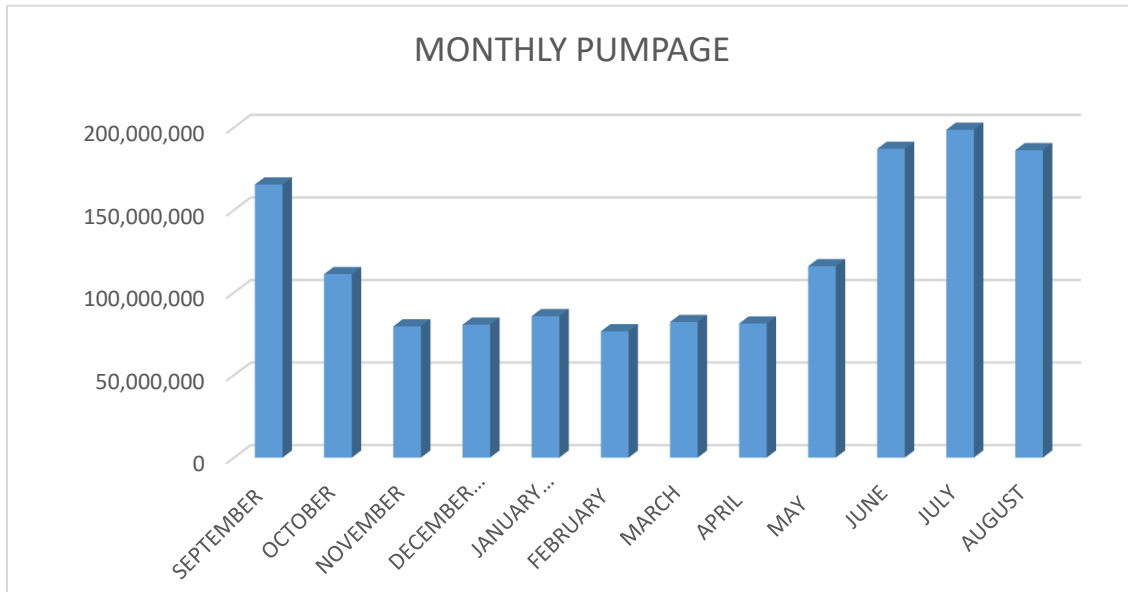
CITY OF ST. JOSEPH WATER MAIN BREAK REPORT- August 2022

Date	Location	Main Size	Gallons Lost	Break Type	Valves Turned	City Twp	Labor	Remarks
8/5/2022	1121 Napier Ave	6	5,698	Pin holes	7	City	34.5	Pin holes on bottom of pipe over 5', clay, 6 ft.
8/6/2022	1121 Napier Ave	6	63,812	Circumferential	6	City	25	5', clay 6 ft deep. From construction activity day before?
8/26/2022	714 Myrtle Ave	6	119,588	Hole	1	City	15	Large Hole. Clay, 5 ft. deep,
TOTALS			119,588				15	

ST. JOSEPH WATER PLANT-YEAR TO DATE PUMPAGE

August 2022

	Pumpage Month	Pumpage FISCAL YTD	By Quarter
SEPTEMBER	165,413,457		
OCTOBER	111,150,956	276,564,413	
NOVEMBER	79,512,900	356,077,313	
DECEMBER 2021	80,497,727	436,575,040	271,161,583
JANUARY 2022	85,696,372	522,271,411	
FEBRUARY	76,518,702	598,790,114	
MARCH	82,154,723	680,944,837	244,369,797
APRIL	81,200,791	762,145,627	
MAY	115,924,537	878,070,164	
JUNE	187,030,192	1,065,100,356	384,155,520
JULY	198,545,622	198,545,622	
AUGUST	186,219,233	384,764,855	
TOTAL	1,449,865,211		



	TOC Compliance							
	Treated	Source	Formula		Req. TOC	Actual	Alternative	Compl. Perf.
	Tap	Tap	Ratio	Alka- linity	Removal	Ratio/ Remov	Criteria Complied Y/N	
September	1.60	1.90	15.8	112	25	0.63	Yes	1.00
						0.63		
October	1.75	2.61	33.0	122	15	2.20	N(Removal)	2.20
November	1.49	1.85	19.5	121	15	1.30	N(Removal)	1.30
December	2.72	2.98	8.7	130	15	0.58	Yes	1.00
						1.36		
January	1.60	1.95	17.9	118	25	0.72	Yes	1.00
February	1.49	1.89	21.2	133	15	1.41	N(Removal)	1.41
March	1.75	1.93	9.3	119	25	0.37	Yes	1.00
						0.83		
April	1.77	2.04	13.2	102	25	0.53	Yes	1.00
May	1.71	2.01	14.9	109	25	0.60	Yes	1.00
June	1.67	1.96	14.8	107	25	0.59	Yes	1.00
						0.57		
July	1.52	2.03	25.1	114	25	1.00	N(Removal)	1.00
August	1.59	2.11	24.6	113	25	0.99	Yes	1.00
Qtr Average						1.00		
Annual Avg.	1.72	2.11				0.88		1.16

9/9/2021

10/24/2021

11/9/2021

12/15/2021

1/12/2022

2/17/2022

3/8/2022

4/13/2022

5/18/2022

6/14/2022

7/11/2022

8/11/2022

MONTHLY CLIMATOLOGICAL SUMMARY

AUGUST

2022

NAME: sjwwweather

St. Joseph Water Plant - 1701 Lions Park Drive - St. Joseph, MI

DAY	MEAN TEMP	NORM MEAN TEMP	HIGH TEMP	TIME	NORM HIGH TEMP	REC HIGH TEMP	YEAR	LOW TEMP	TIME	NORM LOW TEMP	REC LOW TEMP	YEAR	HEAT DEG DAYS	COOL DEG DAYS	RAIN	AVG WIND SPEED	HIGH	TIME	DOM DIR
1	76.7	71	85.4	5:30p	82	98	1988	70	6:30a	60	41	1990	0	11.7	0	9.7	30	10:30a	S
2	79	71	91.2	5:00p	82	99	1988	68.9	8:30a	60	38	1948	0	14	0	5	17	12:30a	WNW
3	76.8	71	87.3	1:00p	82	98	1991	71.7	5:00p	60	45	1990	0	11.8	0.23	8.1	53	4:30p	S
4	75.7	71	84	4:00p	82	97	1956	72	12:00m	60	45	1951	0	10.7	0.21	9.1	24	2:00a	SW
5	76.5	71	86.3	4:30p	82	97	1988	69.4	7:00a	59	42	1957	0	11.5	0	3.2	14	6:30p	N
6	81.6	71	91.4	7:00p	82	91	1965	72.8	7:00a	59	44	1948	0	16.6	0	3.9	15	7:30p	SSE
7	78.3	71	82.2	10:30a	82	91	1984	73.8	1:00p	59	39	1989	0	13.3	0.46	7.7	31	12:00p	SW
8	75	71	83.5	2:30p	82	96	1988	70.4	6:00p	59	40	1990	0	10	0	13.3	32	11:00p	N
9	68.6	71	72.4	7:00p	82	97	1988	62.7	7:30a	59	41	1964	0.2	3.8	0	7.3	24	12:30a	N
10	72.5	71	84	4:30p	81	92	1984	62.7	7:30a	59	46	1964	0.3	7.7	0	3.7	12	4:00p	ESE
11	71.7	71	77.1	11:30a	81	89	1995	66.5	11:00p	59	45	1982	0	6.7	0	10.6	28	6:00p	N
12	67.8	70	77.1	7:00p	81	95	1988	58	7:30a	59	43	1992	1.1	3.9	0	2.7	12	12:30a	N
13	67.6	70	78.2	3:00p	81	95	1988	62	6:00a	58	45	1986	0.8	3.4	0.03	3.6	19	3:00p	SSE
14	66.1	70	70.8	2:00p	81	93	1995	61.4	5:00a	58	39	1990	0.7	1.8	0.53	3.2	15	1:30a	ENE
15	67.7	70	73.2	6:00p	81	93	1995	61.3	7:00a	58	38	1964	0.3	3.1	0	5.4	18	6:00p	NE
16	67.7	70	75.1	11:00a	81	97	1988	60.7	7:30a	58	43	1979	0.6	3.2	0	4.6	16	8:00p	NNE
17	68.3	70	74.3	4:00p	81	100	1988	61.5	6:30a	58	40	1992	0.5	3.8	0	3.4	15	8:00p	N
18	70.2	70	81.8	6:30p	81	97	1988	60.8	6:00a	58	42	1958	0.7	5.9	0	2.4	8	1:00p	SW
19	75.4	69	87.2	4:00p	80	95	1983	66.6	8:00a	58	44	1992	0	10.4	0	4.3	17	10:00a	SSE
20	72.5	69	83.1	6:30p	80	95	1983	65.8	8:00a	57	39	1992	0	7.5	0.15	3.7	30	7:00a	SSE
21	69.3	69	73.5	6:30p	80	98	1983	65.1	7:00a	57	43	1950	0	4.3	0.15	8.1	23	8:00p	N
22	70.5	69	73.1	7:00p	80	91	1948	67.9	7:30a	57	40	1985	0	5.5	0	8.7	19	12:30a	N
23	70.9	69	80.3	3:00p	80	95	1948	61.8	7:30a	57	46	1949	0.5	6.4	0	3.9	10	1:30p	ESE
24	74.8	69	87.8	5:00p	80	95	1948	64.1	7:30a	57	41	1984	0	9.8	0	3.1	10	4:00p	SE
25	71.7	69	76.5	3:30p	80	93	1948	65.9	7:30a	57	40	1956	0	6.6	0	5.4	22	11:00a	S
26	70.2	68	72.8	12:00p	79	96	1948	65.8	12:00m	56	45	1963	0	5.2	0	11.2	26	2:00a	N
27	70.2	68	82.4	1:30p	79	94	1953	60.8	7:30a	56	47	1988	0.9	6	0	4.1	15	6:00p	ESE
28	78.1	68	89.4	6:00p	79	94	1953	65.9	6:30a	56	37	1982	0	13.1	0.03	5	25	12:00m	SSE
29	75.4	68	84.1	1:00p	79	94	1953	69.3	5:00p	56	38	1982	0	10.4	0.12	8.4	51	3:00p	S
30	73.9	68	78.5	5:30p	79	93	1953	70.4	3:00a	56	40	1986	0	8.9	0	14.8	32	3:30a	W
31	74.6	67	78.8	5:30p	78	95	1953	70.3	8:00a	55	46	1989	0	9.6	0	11.3	22	3:00a	SW
AVE	72.8	69.7											0.2	8.0	0.1	6.4	22.1		N
MAX	81.6	71	91.4			100		73.8		60	47		1.1	16.6	0.53	14.8	53.0		
MIN	66.1	67	70.8					58		55	37		0	1.8	0	2.4	8		
TOTAL															1.91				

Max Rain: 0.53 ON 08/14/22
 Days of Rain: 9 (>.01 in) 7 (>.1 in) 0 (>1 in)